Shipping

46

PARTS 1 TO 40
Revised as of October 1, 1999

CONTAINING
A CODIFICATION OF DOCUMENTS
OF GENERAL APPLICABILITY
AND FUTURE EFFECT
AS OF OCTOBER 1, 1999

With Ancillaries

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the Federal Register
Table of Contents

Explanation ................................................................................................ v

Title 46:

Chapter I—Coast Guard, Department of Transportation ............. 3

Finding Aids:

Material Approved for Incorporation by Reference ....................... 513
Table of CFR Titles and Chapters ................................................... 517
Alphabetical List of Agencies Appearing in the CFR ................. 535
List of CFR Sections Affected ....................................................... 545
Cite this Code: CFR

To cite the regulations in this volume use title, part and section number. Thus, 46 CFR 1.01–05 refers to title 46, part 1, section 01–05.
Explanation

The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government. The Code is divided into 50 titles which represent broad areas subject to Federal regulation. Each title is divided into chapters which usually bear the name of the issuing agency. Each chapter is further subdivided into parts covering specific regulatory areas.

Each volume of the Code is revised at least once each calendar year and issued on a quarterly basis approximately as follows:

- Title 1 through Title 16, as of January 1
- Title 17 through Title 27, as of April 1
- Title 28 through Title 41, as of July 1
- Title 42 through Title 50, as of October 1

The appropriate revision date is printed on the cover of each volume.

LEGAL STATUS

The contents of the Federal Register are required to be judicially noticed (44 U.S.C. 1507). The Code of Federal Regulations is prima facie evidence of the text of the original documents (44 U.S.C. 1510).

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The Code of Federal Regulations is kept up to date by the individual issues of the Federal Register. These two publications must be used together to determine the latest version of any given rule.

To determine whether a Code volume has been amended since its revision date (in this case, October 1, 1999), consult the “List of CFR Sections Affected (LSA),” which is issued monthly, and the “Cumulative List of Parts Affected,” which appears in the Reader Aids section of the daily Federal Register. These two lists will identify the Federal Register page number of the latest amendment of any given rule.

EFFECTIVE AND EXPIRATION DATES

Each volume of the Code contains amendments published in the Federal Register since the last revision of that volume of the Code. Source citations for the regulations are referred to by volume number and page number of the Federal Register and date of publication. Publication dates and effective dates are usually not the same and care must be exercised by the user in determining the actual effective date. In instances where the effective date is beyond the cutoff date for the Code a note has been inserted to reflect the future effective date. In those instances where a regulation published in the Federal Register states a date certain for expiration, an appropriate note will be inserted following the text.

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The Paperwork Reduction Act of 1980 (Pub. L. 96-511) requires Federal agencies to display an OMB control number with their information collection request.
Many agencies have begun publishing numerous OMB control numbers as amendments to existing regulations in the CFR. These OMB numbers are placed as close as possible to the applicable recordkeeping or reporting requirements.

OBSCOLETE PROVISIONS

Provisions that become obsolete before the revision date stated on the cover of each volume are not carried. Code users may find the text of provisions in effect on a given date in the past by using the appropriate numerical list of sections affected. For the period before January 1, 1986, consult either the List of CFR Sections Affected, 1949-1963, 1964-1972, or 1973-1985, published in seven separate volumes. For the period beginning January 1, 1986, a “List of CFR Sections Affected” is published at the end of each CFR volume.

INCORPORATION BY REFERENCE

What is incorporation by reference? Incorporation by reference was established by statute and allows Federal agencies to meet the requirement to publish regulations in the Federal Register by referring to materials already published elsewhere. For an incorporation to be valid, the Director of the Federal Register must approve it. The legal effect of incorporation by reference is that the material is treated as if it were published in full in the Federal Register (5 U.S.C. 552(a)). This material, like any other properly issued regulation, has the force of law.

What is a proper incorporation by reference? The Director of the Federal Register will approve an incorporation by reference only when the requirements of 1 CFR part 51 are met. Some of the elements on which approval is based are:
(a) The incorporation will substantially reduce the volume of material published in the Federal Register.
(b) The matter incorporated is in fact available to the extent necessary to afford fairness and uniformity in the administrative process.
(c) The incorporating document is drafted and submitted for publication in accordance with 1 CFR part 51.

Properly approved incorporations by reference in this volume are listed in the Finding Aids at the end of this volume.

What if the material incorporated by reference cannot be found? If you have any problem locating or obtaining a copy of material listed in the Finding Aids of this volume as an approved incorporation by reference, please contact the agency that issued the regulation containing that incorporation. If, after contacting the agency, you find the material is not available, please notify the Director of the Federal Register, National Archives and Records Administration, Washington DC 20408, or call (202) 523-4534.

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An index to the text of “Title 3—The President” is carried within that volume.

The Federal Register Index is issued monthly in cumulative form. This index is based on a consolidation of the “Contents” entries in the daily Federal Register.

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RAYMOND A. MOSLEY,
Director,
Office of the Federal Register.

October 1, 1999.
Title 46—Shipping is composed of nine volumes. The parts in these volumes are arranged in the following order: Parts 1-40, 41-69, 70-89, 90-139, 140-155, 156-165, 166-199, 200-499 and 500 to End. The first seven volumes containing parts 1-199 comprise chapter I—Coast Guard, DOT. The eighth volume, containing parts 200 to 499, includes chapter II—Maritime Administration, DOT and chapter III—Coast Guard (Great Lakes Pilotage), DOT. The ninth volume, containing part 500 to End, includes chapter IV—Federal Maritime Commission. The contents of these volumes represent all current regulations codified under this title of the CFR as of October 1, 1999.

Subject indexes appear in subchapters A—I, I-A, J, K, L, and Q—W following the subchapters.

For this volume, Ruth Reedy Green was Chief Editor. The Code of Federal Regulations publication program is under the direction of Frances D. McDonald, assisted by Alomha S. Morris.
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1/97
Title 46—Shipping
(This book contains parts 1 to 40)

CHAPTER I—Coast Guard, Department of Transportation ...... 1
CHAPTER I—COAST GUARD,
DEPARTMENT OF TRANSPORTATION

SUBCHAPTER A—PROCEDURES APPLICABLE TO THE PUBLIC

<table>
<thead>
<tr>
<th>Part</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Organization, general course and methods governing marine safety functions</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Vessel inspections</td>
<td>12</td>
</tr>
<tr>
<td>3</td>
<td>Designation of oceanographic research vessels</td>
<td>35</td>
</tr>
<tr>
<td>4</td>
<td>Marine casualties and investigations</td>
<td>37</td>
</tr>
<tr>
<td>5</td>
<td>Marine investigation regulations—personnel action</td>
<td>52</td>
</tr>
<tr>
<td>6</td>
<td>Waivers of navigation and vessel inspection laws and regulations</td>
<td>63</td>
</tr>
<tr>
<td>7</td>
<td>Boundary lines</td>
<td>66</td>
</tr>
<tr>
<td>8</td>
<td>Vessel inspection alternatives</td>
<td>73</td>
</tr>
<tr>
<td>9</td>
<td>Extra compensation for overtime services</td>
<td>85</td>
</tr>
</tbody>
</table>

SUBCHAPTER B—MERCHANT MARINE OFFICERS AND SEAMEN

<table>
<thead>
<tr>
<th>Part</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Licensing of maritime personnel</td>
<td>102</td>
</tr>
<tr>
<td>12</td>
<td>Certification of seamen</td>
<td>183</td>
</tr>
<tr>
<td>13</td>
<td>Certification of tankermen</td>
<td>213</td>
</tr>
<tr>
<td>14</td>
<td>Shipment and discharge of merchant mariners</td>
<td>233</td>
</tr>
<tr>
<td>15</td>
<td>Manning requirements</td>
<td>238</td>
</tr>
<tr>
<td>16</td>
<td>Chemical testing</td>
<td>258</td>
</tr>
<tr>
<td></td>
<td>Index subchapter B</td>
<td>275</td>
</tr>
</tbody>
</table>

SUBCHAPTER C—UNINSPECTED VESSELS

<table>
<thead>
<tr>
<th>Part</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>General provisions</td>
<td>291</td>
</tr>
<tr>
<td>25</td>
<td>Requirements</td>
<td>298</td>
</tr>
<tr>
<td>26</td>
<td>Operations</td>
<td>308</td>
</tr>
<tr>
<td>28</td>
<td>Requirements for commercial fishing industry vessels</td>
<td>310</td>
</tr>
<tr>
<td></td>
<td>Index subchapter C</td>
<td>357</td>
</tr>
</tbody>
</table>

SUBCHAPTER D—TANK VESSELS

<table>
<thead>
<tr>
<th>Part</th>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>General provisions</td>
<td>361</td>
</tr>
<tr>
<td>31</td>
<td>Inspection and certification</td>
<td>382</td>
</tr>
<tr>
<td>Part</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Special equipment, machinery, and hull requirements</td>
<td>398</td>
</tr>
<tr>
<td>34</td>
<td>Firefighting equipment</td>
<td>428</td>
</tr>
<tr>
<td>35</td>
<td>Operations</td>
<td>447</td>
</tr>
<tr>
<td>36</td>
<td>Elevated temperature cargoes</td>
<td>469</td>
</tr>
<tr>
<td>38</td>
<td>Liquefied flammable gases</td>
<td>470</td>
</tr>
<tr>
<td>39</td>
<td>Vapor control systems</td>
<td>486</td>
</tr>
<tr>
<td></td>
<td>Index subchapter D</td>
<td>495</td>
</tr>
</tbody>
</table>
SUBCHAPTER A—PROCEDURES APPLICABLE TO THE PUBLIC

PART 1—ORGANIZATION, GENERAL COURSE AND METHODS GOVERNING MARINE SAFETY FUNCTIONS

Subpart 1.0—Organization and General Flow of Functions

Sec. 1.01±05 Definitions of terms used in this part.
1.01±10 Organization.
1.01±15 Organization; districts.
1.01±20 Suspension and revocation proceedings.
1.01±25 General flow of functions.
1.01±30 Judicial review.
1.01±35 OMB control numbers assigned pursuant to the Paperwork Reduction Act.

Subpart 1.03—Rights of Appeal

1.03±10 Definition of terms used in this subpart.
1.03±15 General.
1.03±20 Appeals from decisions or actions of an OCMI.
1.03±25 Appeals from decisions or actions of a District Commander.
1.03±30 Appeals from decisions or actions of the Marine Safety Center.
1.03±35 Appeals from decisions or actions of a recognized classification society acting on behalf of the Coast Guard.
1.03±45 Appeals from decisions or actions involving documentation of vessels and suspension or withdrawal of course approvals.


SOURCE: CGD 88±033, 54 FR 50376, Dec. 6, 1989, unless otherwise noted.

Subpart 1.01—Organization and General Flow of Functions

§ 1.01±10 Organization.

(a) The Commandant is the head of the agency and exercises overall direction over the policy and administration of the Coast Guard.

(b) To carry out the regulatory and enforcement aspects of marine safety, the staff officers designated in this paragraph are assigned to the Commandant. The chain of military command is from the Commandant directly to the District Commanders. The staff officers at Headquarters act only on the basis of the Commandant’s authority and direction.

(i) The Assistant Commandant for Marine Safety and Environmental Protection under the general direction of the Commandant, directs, supervises and coordinates the activities of the Standards Directorate, consisting of the Office of Design and Engineering Standards, the Office of Operating and Environmental Standards, and the Office of Standards Evaluation and Development; the Field Activities Directorate, consisting of the Office of Compliance, the Office of Response, and the Office of Investigations and Analysis; and the Resource Management Directorate, consisting of the Office of Planning and Resources and the Office of Information Resources. The Port Safety and Security programs administered by the Chief, Office of Compliance and the Marine Environmental Response programs administered by the Chief, Office of Response are guided by regulations contained in 33 CFR chapter I. The Assistant Commandant for Marine Safety and Environmental Protection exercises technical control over the Commanding Officer, National Maritime Center and, through the District Commander, supervises the administration of the Marine Safety Division of District Offices and Officers in Charge, Marine Inspection.

1.01±05 Definitions of terms used in this part.

(a) The term Commandant means the Commandant of the Coast Guard.

(b) The term District Commander means an officer of the Coast Guard designated as such by the Commandant to command all Coast Guard activities within a district.
laws, and regulations; develops safety, security and environmental protection standards for the maritime industry; integrates all marine safety and environmental protection regulatory programs; prepares legislation, regulations, and industry guidance for new safety and environmental protection programs; and maintains an active program for development of third party consensus industry standards.

(A) The Chief, Office of Design and Engineering Standards (G-MSE), at Headquarters, under the direction of the Assistant Commandant for Marine Safety and Environmental Protection and the Director of Standards, manages the program for defining the overall regulatory approach for vessels, offshore structures, and other marine systems incorporating safety considerations regarding the role of the human element; develops policies and regulations on load line matters and supervises classification societies authorized to assign load lines on behalf of the Coast Guard; oversees the development and maintenance of programs that incorporate risk-based methods in making safety determinations and policies; and oversees technical research and development for safety and environmental protection associated with marine vessels, structures and facilities.

(B) The Chief, Office of Operating and Environmental Standards (G-MSO), at Headquarters, under the direction of the Assistant Commandant for Marine Safety and Environmental Protection and the Director of Standards, coordinates and integrates program standards for personnel qualification, vessel manning, vessel and facility operations, cargo systems and handling, and environmental protection; develops and maintains standards, regulations and industry guidance for maritime industry operations to prevent deaths, injuries, property damage, and environmental harm; develops and maintains safety standards and regulations for commercial fishing industry vessels and uninspected commercial vessels; and develops and maintains health and safety standards and regulations for U.S. inspected vessels.

(C) The Chief, Office of Standards Evaluation and Development (G-MSR), at Headquarters, under the direction of the Assistant Commandant for Marine Safety and Environmental Protection and the Director of Standards, coordinates the development of new standards and programs across all technical and operational areas of marine safety and environmental protection; provides comprehensive analytical support for all standards assessment and development efforts; and coordinates development of measures of effectiveness for assessing regulatory programs and consensus standards.

(ii) The Director of Field Activities (G-MO), under the general direction and supervision of the Assistant Commandant for Marine Safety and Environmental Protection, acts as Program Manager for the Marine Safety and Marine Environmental Protection Programs; directs, coordinates, and integrates the Coast Guard's marine safety and environmental protection compliance programs, contingency planning, response operations, and investigations programs; establishes and coordinates field implementation policies and priorities for all marine safety commands and units; serves as the focal point for field support and technical guidance; and provides oversight of marine documentation and marine personnel administration matters.

(A) The Chief, Office of Compliance (G-MOC), at Headquarters, under the direction of the Assistant Commandant for Marine Safety and Environmental Protection and the Director of Field Activities, administers and balances all marine safety and environmental protection compliance programs, including direction of Coast Guard activities and oversight of third parties and industry programs; develops, publishes and maintains program policies for vessel compliance, interprets standards and regulations, and provides field guidance for execution and enforcement; administers the marine inspection program and foreign vessel boarding program for the enforcement of commercial vessel material and operational safety standards; and supervises the administration of licensing and documenting of merchant personnel, the issuance of certificates of registry to merchant marine staff officers, and the manning of U.S. vessels.
§ 1.01–15 Organization; districts.

(a) To assist the District Commander in carrying out the regulatory and enforcement aspects of marine safety in the Coast Guard Districts, there is assigned to each District Commander a

which administers U.S. vessel identification and documentation; oversees and administers the U.S. tonnage measurement program which measures U.S. naval vessels and oversees issuance of international and domestic tonnage certificates; administers merchant mariner licensing and seaman's documentation; and oversees the national pilotage program.

(iii) The Director of Resource Management (G-MR), under the general direction and supervision of the Assistant Commandant for Marine Safety and Environmental Protection, serves as Facility Manager for the marine safety programs; coordinates and integrates financial, informational, and human resources; plans, acquires, develops, and allocates resources for development and execution of the Coast Guard's marine safety programs; provides the focal point for all resource issues in support of the Standards and Operations Directorates; and oversees the development and management of the Coast Guard's direct user fee program.

(2) The Chief Counsel of the Coast Guard at Headquarters, under the general direction and supervision of the General Counsel, Department of Transportation and the Commandant, considers cases involving alleged violations of navigation and vessel inspection laws or regulations prescribed thereunder and published in this chapter or in 33 CFR chapter I, and reviews appeals to the Commandant from statutory monetary penalties assessed therefor. Upon completion of such a review, the Chief Counsel prepares a proposed action for the Commandant’s consideration or, in appropriate cases, takes final action on behalf of, and as directed by, the Commandant.

staff officer designated as Chief, Marine Safety Division. The chain of military command is from the District Commander to each Officer in Charge, Marine Inspection, within the district. The Chief, Marine Safety Division, is a staff officer assigned to the District Commander and acts only on the basis of the authority and by direction of the District Commander.

(1) The Chiefs, Marine Safety Division, in the District Offices, under the supervision of their respective District Commanders, direct the activities in their district relative to vessel, factory and shipyard inspections; reports and investigations of marine casualties and accidents; processing of violations of navigation and vessel inspection laws; the licensing, certificating, shipment and discharge of seaman; the investigation and institution of proceedings looking to suspension and revocation under 46 U.S.C. chapter 77 of licenses, certificates, and documents held by persons; and all other marine safety regulatory activities except those functions related to recreational boating when under the supervision of the Chiefs, Boating Safety Division, in the District Offices.

(2) Unless otherwise provided for, the Chiefs, Boating Safety Division, in the District Offices, under the supervision of their respective District Commanders, direct the activities in their districts relative to administration of the law enforcement program applicable to uninspected vessels used for recreational purposes and the imposition and collection of penalties in connection therewith; maintain liaison with Federal and State agencies having related interests; develop and coordinate agreements and arrangements with Federal and State agencies for cooperation in the enforcement of State and Federal laws related to recreational boating; and review investigative reports of recreational boating accidents.

(b) The Officers in Charge, Marine Inspection, in the Coast Guard districts, under the supervision of their respective District Commanders, are in charge of marine inspection offices and marine safety offices located in various ports and have command responsibility with assigned marine safety zones for the performance of duties with respect to the inspection, enforcement, and administration of navigation and vessel inspection laws, and rules, and regulations governing marine safety. The Officer in Charge, Marine Inspection, has been designated and delegated to give immediate direction to Coast Guard activities relating to marine safety functions consisting of inspection of vessels in order to determine that they comply with the applicable laws, rules, and regulations relating to construction, equipment, manning and operation, and to be satisfied that such vessels are in seaworthy condition for the services in which such vessels are to be operated; shipyard inspections; factory inspections of materials and equipment for vessels; the licensing, certificating, shipment and discharge of seaman; investigations of marine casualties and accidents; investigations of violations of law; negligence, misconduct, unskillfulness, incompetence or misbehavior of persons holding licenses, certificates, or documents issued by the Coast Guard; initiations of actions seeking suspension or revocation under 46 U.S.C. chapter 77 of licenses, certificates, and documents held by persons, and presentation of cases at hearings before Administrative Law Judges; and the enforcement of navigation, vessel inspection and seaman laws in general.

NOTE: Licensing and Certification functions are performed only by the Officer in Charge, Marine Inspection, at the following locations:

Boston, MA
New York, NY
Baltimore, MD
Charleston, SC
Miami, FL
New Orleans, LA
Houston, TX
Memphis, TN
St. Louis, MO
Toledo, OH
Long Beach, CA
San Francisco, CA
Portland, OR
Seattle, WA
Anchorage, AK
Juneau, AK
Honolulu, HI

Where the term Officer in Charge, Marine Inspection, Marine Inspection Office, or Marine Safety Office is used within the context of parts 10 or 12 of this chapter, it is understood to mean that...
§ 1.01–20 Suspension and revocation proceedings.

(a) The Commandant takes final agency action on each proceeding concerned with revocation.

(b) The Commandant has delegated authority to the Vice Commandant in 33 CFR 1.01–40 to take final agency action under subparts I, J, and K of part 5 of this chapter on each proceeding except on a petition or appeal in a case on which an order of revocation has been issued.

(c) The Commandant assigns to his staff a Chief Administrative Law Judge who is an Administrative Law Judge appointed under 5 U.S.C. 3105 and whose assignment is to:

1. Act as adviser and special assistant to the Commandant on matters concerning the administration of hearings conducted under 46 U.S.C. chapter 77;

2. Conduct hearings under 46 U.S.C. chapter 77;

3. Train new Administrative Law Judges assigned to conduct hearings under 46 U.S.C. chapter 77;

4. Review the written decisions and orders of each Administrative Law Judge assigned to conduct a hearing under 46 U.S.C. chapter 77; and

5. Act as adviser to the Chief Counsel in preparation of the final action of proceedings conducted under subparts I, J, and K of part 5 of this chapter.

(d) The Chief Counsel of the Coast Guard, under the general direction and supervision of the Commandant, U.S. Coast Guard:

1. Acts as an adviser and as a special assistant to the Commandant in matters of law; and

2. Prepares for the consideration of the Commandant or the Vice Commandant, as appropriate, proposed decisions on cases on appeal or review in suspension and revocation proceedings.

§ 1.01–25 General flow of functions.

(a) The Officer in Charge, Marine Inspection, has final authority with respect to the functions described in §1.01–15(b) of this subpart, subject to the rights of appeal set forth in subpart 1.03 of this part.

(b) The general course and method by which the functions (other than those dealing with suspension and revocation of licenses, certificates, or documents described in paragraph (c) of this section) concerning marine safety activities are channeled begins with the Officer in Charge, Marine Inspection, at the local Marine Safety Office. From this officer the course is to the Chief, Marine Safety Division, on the staff of the District Commander and then to the District Commander. From the District Commander the course is to the Chief of one of the offices within Marine Safety and Environmental Protection at Headquarters. In most administrative cases the channel ends at this point; however, on matters of policy and other appropriate cases, the course continues to the Assistant Commandant for Marine Safety and Environmental Protection, and then to the Commandant, whose decisions are final.

(c) In proceedings involving the suspension or revocation of a Coast Guard license, certificate or document issued to an individual, the course and method by which such proceedings are channeled are as follows:

1. In the United States, the Commonwealth of Puerto Rico, Territory of Guam, the Virgin Islands, and other possessions, the proceedings are initiated by the preferment of charges and specifications against the holder of the Coast Guard license, certificate or document. A Coast Guard Investigating Officer under the supervision of an Officer in Charge, Marine Inspection, or an Officer in Charge, Marine Inspection causes the charges and specifications to be served on the person described therein (person charged) who is a holder of a Coast Guard license, certificate or document. At a hearing the Coast Guard submits evidence to support the charges and specifications, while the person charged may submit evidence in rebuttal or mitigation. The Administrative Law Judge renders a decision.
on the basis of the evidence adduced at the hearing and the law. The Administrative Law Judge's decision is given to the person charged.

(i) In a case where an appeal is made by the person charged, the notice of appeal is filed with the Administrative Law Judge who heard the case or with any Officer in Charge, Marine Inspection, for forwarding to such Administrative Law Judge.

(ii) [Reserved]

(2) [Reserved]

(d) In the performance of their duties, all Coast Guard Administrative Law Judges are bound by law and the regulations in this chapter or in 33 CFR chapter I. Statements of policy, clarification of points of procedure, and general administrative instructions are published in Administrative Law Judges' Circulars and Administrative Law Judges' Internal Practices and Procedures Series. The Chief Administrative Law Judge, located in the Office of the Commandant, U.S. Coast Guard, maintains a complete file of these publications for reading purposes during normal working hours.


§ 1.01–30 Judicial review.

(a) Nothing in this chapter shall be construed to prohibit any party from seeking judicial review of any Commandant's decision or action taken pursuant to the regulations in this part or part 5 of this chapter with respect to suspension and revocation proceedings arising under 46 U.S.C. chapter 77.

(b) If the person found guilty of any offense fails to make a timely appeal, the decision of the Administrative Law Judge is final and binding on the person charged as of the date that the decision is delivered to the person charged or his authorized representative.

§ 1.01–35 OMB control numbers assigned pursuant to the Paperwork Reduction Act.

(a) Purpose. This section collects and displays the control numbers assigned to information collection and record keeping requirements in this subchapter by the Office of Management and Budget (OMB) pursuant to the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.). The Coast Guard intends that this section comply with the requirements of 44 U.S.C. 3507(f) which requires agencies display a current control number assigned by the Director of the OMB for each approved agency information collection requirement.

(b) Display.

<table>
<thead>
<tr>
<th>46 CFR part or section where identified or described</th>
<th>Current OMB control No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 2.01</td>
<td>2115–0007</td>
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<td>§ 2.95–10</td>
<td>2115–0141</td>
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<td>§ 3.10</td>
<td>2115–0053</td>
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<td>Part 4</td>
<td>2115–0003</td>
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<td>Part 6</td>
<td>2115–0005</td>
</tr>
</tbody>
</table>

Subpart 1.03—Rights of Appeal

§ 1.03–10 Definition of terms used in this subpart.

(a) The term recognized classification society means the American Bureau of Shipping or other classification society recognized by the Commandant.

(b) The term new vessel means:

(1) For vessels which require a Certificate of Inspection, a new vessel is a vessel which has not received an initial Certificate of Inspection.

(2) For vessels which do not require a Certificate of Inspection, a new vessel is a vessel which has not received a Load Line assignment.

(c) The term existing vessel means a vessel which is not a new vessel.

§ 1.03–15 General.

(a) Any person directly affected by a decision or action taken under this chapter, by or on behalf of the Coast Guard, except for matters covered by subpart J of part 5 of this chapter dealing with suspension and revocation hearings, shall follow the procedures contained in this section when requesting that the decision or action be reviewed, set aside or revised.

(b) When requesting that a decision or action be reconsidered or reviewed, as may be required by this subpart, such request must be made within 30 days after the decision is rendered or the action is taken.

(c) When making a formal appeal of a decision or action, as permitted by this
§ 1.03–30

Appeals from decisions or actions of the Marine Safety Center.

(a) Any person directly affected by a decision or action of the Marine Safety Center involving tonnage measurement or which otherwise affects a new vessel or plans for a vessel to be built, may, after requesting reconsideration of the decision or action by the Commanding Officer, Marine Safety Center, make a formal appeal, of that decision or action, via the Commanding Officer, Marine Safety Center, to the Commandant, in accordance with the procedures contained in §1.03–15 of this subpart.

(b) Any person directly affected by a decision or action of the Marine Safety Center not involving tonnage measurement but which otherwise affects an existing vessel, prior to initiating a
§ 1.03-35 Appeals from decisions or actions involving documentation of vessels and suspension or withdrawal of course approvals.

Any person directly affected by a decision or action of an officer or employee of the Coast Guard acting on or in regard to the documentation of a vessel under part 67 or suspension or withdrawal of course approvals under part 10 of this chapter, may make a formal appeal of that decision or action to the Commandant (G-MO) via the Commanding Officer, National Maritime Center, in accordance with procedures contained in §§ 1.03-15 through 1.03-25 of this subpart.

[USCG-1998-3824, 64 FR 4984, Feb. 2, 1999]

PART 2—VESSEL INSPECTIONS

Subpart 2.01—Inspecting and Certificating of Vessels

Sec.
2.01-1 Applications for inspections.
2.01-3 Notification of inspection.
2.01-5 Certificate of inspection.
2.01-6 Certificates issued to foreign vessels.
2.01-7 Classes of vessels (including motorboats) examined or inspected and certificated.
2.01-8 Application of regulations to vessels or tankships on an international voyage.
2.01-10 Inspection requirements—domestic vessels.
2.01-13 Inspection requirements—foreign vessels.
2.01-15 Vessel repairs.
2.01-20 Suspension or revocation of certificates of inspection.
2.01-30 Delegation of OCMI signature authority.
2.01-40 Passengers or persons in addition to crew on cargo or tank vessels.
2.01-45 Excursion permit.
2.01-50 Persons other than crew on towing, oyster, or fishing steam vessels.
2.01-60 Overtime compensation.
2.01-70 Right of appeal.
2.01-80 Vessel inspections in Alaska.

Subpart 2.10—Fees

Sec.
2.10-1 Applicability.
2.10-5 Exemptions.
2.10-10 Waivers.
2.10-20 General requirements.
2.10-25 Definitions.
2.10-101 Annual vessel inspection fee.
2.10-105 Prepayment of annual vessel inspection fees.
2.10-115 Changes in vessel service.
2.10-120 Overseas inspection and examination fees.
2.10-125 Fees for examination of foreign tankships.
2.10-130 Fees for examination of foreign mobile offshore drilling units.
2.10-135 Penalties.

Subpart 2.20—Reports and Forms

Sec.
2.20-40 Chief engineer’s reports.
2.20-50 Repairs or alterations in lifesaving or fire prevention equipment.
Coast Guard, DOT

Subpart 2.45  [Reserved]

Subpart 2.50—Penalties

2.50-1 Penalty procedures.

Subpart 2.75—Approvals of Safety Equipment, Materials and Installations, and Qualifications for Construction Personnel

2.75-1 Approvals.
2.75-5 Certificates of approval.
2.75-10 Procedures for obtaining approvals.
2.75-15 Requirements and tests.
2.75-25 Portable fire extinguishers.
2.75-40 Suspension of approval.
2.75-50 Withdrawals or terminations of approvals and appeals.
2.75-60 Hazardous ships' stores.
2.75-70 Welding procedure and performance qualifications.

Subpart 2.85—Load Lines

2.85-1 Assignment of load lines.

Subpart 2.90—Plans, Drawings or Blueprints

2.90-1 General requirements.

Subpart 2.95—Retention of Records by the Public

2.95-1 Certificates or documents issued by Coast Guard.
2.95-5 Certificates or documents issued by others.
2.95-10 Equipment or material required to be approved.


Source: CGFR 65±50, 30 FR 16604, Dec. 30, 1965, unless otherwise noted.

Subpart 2.01—Inspecting and Certificating of Vessels

§ 2.01-1 Applications for inspections.

(a) Application forms. (1) Applications for inspections of vessels required to be inspected under Subtitle II, Title 46 of the U.S. Code, or under 50 U.S.C. 198 shall be made by the master, owner, or agent on the following Coast Guard forms which are obtainable from the Officer in Charge, Marine Inspection, at any local U.S. Coast Guard Marine Safety Office.

(i) CG-3752—Application for Inspection of U.S. Vessel.

(ii) CG-986—Application for Inspection of Foreign Vessel.

(2) These applications require information on name and type of vessel, nature of employment and route in which to be operated, and place where and date when the vessel may be inspected.

(b) To whom submitted. The completed form must be submitted to the Officer in Charge, Marine Inspection, in the Marine Inspection Zone within which the inspection is to be conducted.

(c) New vessels. Applications for inspection of new vessels must be preceded by the submission of applicable drawings or prints in accordance with the specific requirements in subchapters D (Tank Vessels), E (Load Lines), F (Marine Engineering), H (Passenger Vessels), I (Cargo and Miscellaneous Vessels), J (Electrical Engineering), K (Small Passenger Vessels Carrying More Than 150 Passengers Or With Overnight Accommodations For More Than 49 Passengers), L (Offshore Supply Vessels), O (Certain Bulk Dangerous Cargoes), S (Subdivision and Stability), and T (Small Passenger Vessels) of this chapter applicable to that particular type of vessel or type of service in which the vessel is proposed to be operated.

(d) Foreign-built vessels. (1) Those foreign-built vessels which are specifically authorized by public or private law to engage in the coastwise trade, and those foreign-built vessels which are documented to engage in the foreign trade shall be inspected and certificated as required by law and/or the regulations in this chapter which are applicable to their class and employment.

(2) Foreign-built vessels are not permitted to engage in the U.S. coastwise trade (domestic trade) unless specifically authorized by law. Therefore, when foreign-built vessels are intended for use in the coastwise trade as defined by the U.S. Customs Service, such vessels will not be inspected and
§ 2.01-3 46 CFR Ch. I (10–1–99 Edition)

certificated unless specifically authorized by law to engage in coastwise trade.


§ 2.01-3 Notification of inspection.

(a) At least 30 days, but less than 60 days, prior to the expiration of the Certificate of Inspection, a vessel's owner, charterer, managing operator, agent, master or individual in charge shall notify the Coast Guard if the vessel will be required to be reinspected for certification or will be operated in such a manner as to not require a Certificate of Inspection.

(b) The notification required by paragraph (a) shall be in writing and shall be submitted to the Officer in Charge, Marine Inspection or Marine Safety Office of the port that:

(1) Will be reinspecting and Certificating the Vessel;

(2) Issued the vessel's current Certificate of Inspection if the vessel's schedule is such that it is not known where the next reinspection will take place; or

(3) Issued the vessel's current Certificate of Inspection if the vessel will not be requiring reinspeesion for the issuance of a Certificate of Inspection.

[CGD 85-015, 51 FR 19340, May 29, 1986]

§ 2.01-5 Certificate of inspection.

(a) Issuance of certificates. Upon completion of the inspection of a United States vessel, and on condition that the vessel and its equipment are approved by the inspector, a certificate of one or more of the following Coast Guard forms is issued by the Officer in Charge, Marine Inspection:

(1) CG-841—Certificate of Inspection.

(2) CG-854—Temporary Certificate of Inspection.

(3) CG-3753—Certificate of Inspection (for small passenger vessels).

(4) CG-4678—Barge Certificate of Inspection.

(b) Description of certificates. The certificates of inspection issued to United States vessels describe the vessel, the route the vessel may travel, the minimum manning requirements, the safety equipment and appliances required to be on board, the total number of persons that may be carried, and the names of the owners and operators. The period of validity is stated on the certificate. The certificate may be renewed by applying for inspection under § 2.01-1.

(c) Amending certificates. When because of a change in the character of the vessel or vessel's route, equipment, etc. the vessel does not comply with the requirements of the Certificate of Inspection previously issued, a certificate amending such certificate may be issued at the discretion of the Officer in Charge, Marine Inspection, to whom request is made on Coast Guard form CG-858, Certificate of Inspection Amendment.

[CGD 77-014, 44 FR 5316, Jan. 25, 1979]

§ 2.01-6 Certificates issued to foreign vessels.

(a) Issuance of certificates. Upon completion of an examination of a foreign vessel, one or more of the following certificates is issued by the Officer in Charge, Marine Inspection:

(1) CG-4504—Control Verification for Foreign Vessel—issued to a foreign vessel that is registered in a country which is signatory to the International Convention for the Safety of Life at Sea, 1974.

(2)(i) CG-2832A—Letter of Compliance—issued to a foreign vessel that is suitable for carriage of hazardous cargoes in bulk as defined in 46 Code of Federal Regulations, subchapter 0 and is in compliance with Tankship Cargo Venting and Handling Systems and Minimum Pollution Prevention Regulations and Transfer Procedures (33 CFR parts 155, 156, 157 and 159), and Navigation Safety Inspection Regulations (33 CFR part 164).


(3) CG-8405—Tank Vessel Examination Letter—issued to a foreign vessel that is suitable for carriage of cargoes as defined in 46 Code of Federal Regulations, subchapter D and is in compliance with Tankship Cargo Venting and
Handling Systems and Minimum Safety Standards (SOLAS 74—46 CFR part 35), Pollution Prevention Regulations and Transfer Procedures (33 CFR parts 155, 156, 157 and 159), and Navigation Safety Regulations (33 CFR part 164).

(4) Foreign vessels of countries which are nonsignatory to the International Convention for the Safety of Life at Sea, 1974, are issued a Temporary Certificate of Inspection (CG±854) and a Certificate of Inspection (CG±841) as described in §2.01-5.

(b) Description of Certificates. (1) CG±4504—Control Verification for Foreign Vessels—describes the vessel, type of certificate required by the International Convention for the Safety of Life at Sea, 1974, country issued by, and its expiration date. The period of validity of a control verification for foreign vessel is stated on the certificate.

(2) CG±2832A—Letter of Compliance—describe the vessel and the period for which the letter is valid.

(3) CG±840S±1—Tank Vessel Examination Letter—describe the vessel and if there are any deficiencies as to applicable regulations at the time the vessel was examined. If there are deficiencies they are listed in an attachment to this letter (CG±840S±2). The Tank Vessel Examination Letter is valid for a period of 1 year from the date the examination is completed.

(4) Temporary Certificate of Inspection (CG±854) and Certificate of Inspection (CG±841) are amended as provided for in §2.01-5(c).

§2.01-7 Classes of vessels (including motorboats) examined or inspected and certificated.

(a) The regulations in this chapter concerning inspecting and certificating vessels are applicable to vessels (including motorboats) as indicated in the following table 2.01-7(a):
<table>
<thead>
<tr>
<th>Method of propulsion</th>
<th>Size or other limitations</th>
<th>Classes of vessels (including motorboats) examined or inspected under various Coast Guard Regulations.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam</td>
<td>Vessels not over 65 feet in length.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
</tr>
<tr>
<td></td>
<td>Vessels over 65 feet in length.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.2</td>
</tr>
<tr>
<td></td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts.</td>
<td>All vessels except those covered by columns 3 and 4.</td>
</tr>
<tr>
<td></td>
<td>2. All vessels of not over 15 gross tons which carry more than 6 passengers.3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>3. All other vessels carrying passengers,4 except: a. Yachts. b. Documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.</td>
<td>All vessels engaged in oceanographic research.</td>
</tr>
</tbody>
</table>

1. Vessels inspected and certificated under Subchapter H—Passenger Vessels5 6 or Subchapter T—Small Passenger Vessels7 8.

2. Vessels inspected and certificated under Subchapter D—Tank Vessels9.

3. Vessels subject to provisions of Subchapter G—Uninspected Vessels10 11.12

4. Vessels subject to the provisions of Subchapter U—Oceanographic Vessels.13

5. Vessels subject to the provisions of Subchapter O—Certain Bulk Dangerous Cargoes.14
<table>
<thead>
<tr>
<th>Motor</th>
<th>Vessels not over 15 gross tons.</th>
<th>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</th>
<th>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</th>
</tr>
</thead>
<tbody>
<tr>
<td>c.</td>
<td>Towing and fishing vessels, in other than ocean and coastwise service, may carry persons on the legitimate business of the vessel in addition to crew, but not to exceed one for each net ton of the vessel.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All vessels carrying more than 6 passengers.</td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. All vessels not over 65 feet in length which carry more than 6 passengers.</td>
<td>2. All vessels not over 65 feet in length which carry more than 6 passengers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. All other vessels of over 65 feet in length carrying passengers for hire except documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.</td>
<td>3. All other vessels of over 65 feet in length carrying passengers for hire except documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171–179.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do.</td>
<td>Do.</td>
</tr>
<tr>
<td>Method of propulsion</td>
<td>Size or other limitations</td>
<td>Classes of vessels (including motorboats) examined or inspected under various Coast Guard Regulations</td>
<td></td>
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<td></td>
<td></td>
<td>Column 1</td>
<td>Column 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Seagoing motor vessels of 300 gross tons and over.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
</tr>
<tr>
<td>Sail</td>
<td>Vessels not over 700 gross tons.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.</td>
</tr>
<tr>
<td>Length</td>
<td>Vessels over 700 gross tons</td>
<td>Vessels carrying combustible or flammable liquid cargo in bulk</td>
<td>All vessels carrying passengers for hire</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------</td>
<td>-------------------------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Non-self-propelled</td>
<td>Vessels less than 100 gross tons</td>
<td>All vessels carrying combustible or liquid cargo in bulk</td>
<td>All vessels carrying more than 6 passengers</td>
</tr>
<tr>
<td>Vessels 100 gross tons or over</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk</td>
<td>All seagoing barges except those covered by columns 3 and 4; and those inland barges carrying dangerous cargoes when required by 49 CFR parts 171–179</td>
<td>All barges carrying passengers except those covered by columns 4 and 7</td>
</tr>
</tbody>
</table>

1. Where length is used in this table it means the length measured from end to end over the deck, excluding sheer. This expression means a straight line measurement of the overall length from the foremost part of the vessel to the aftermost part of the vessel, measured parallel to the centerline.

2. Subchapters E (Load Lines), F (Marine Engineering), J (Electrical Engineering), and N (Dangerous Cargoes) of this chapter may also be applicable under certain conditions. The provisions of 49 CFR parts 171–179 apply whenever hazardous materials are on board vessels (including motorboats), except when specifically exempted by law.

3. Public nautical schools, other than vessels of the Navy and Coast Guard, shall meet the requirements of part 167 of subchapter R (Nautical Schools) of this chapter. Civilian nautical schools, as defined by 46 U.S.C. 1331, shall meet the requirements of subchapter H (Passenger Vessels) and part 168 of subchapter R (Nautical Schools) of this chapter.

4. Subchapter H (Passenger Vessels) of this chapter covers only those vessels of 100 gross tons or more, subchapter T (Small Passenger Vessels) of this chapter covers only those vessels of less than 100 gross tons.

5. Vessels covered by subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter, where the principal purpose or use of the vessel is not for the carriage of liquid cargo, may be granted a permit to carry a limited amount of flammable or combustible liquid cargo in bulk. The portion of the vessel used for the carriage of the flammable or combustible liquid cargo shall meet the requirements of subchapter D (Tank Vessels) in addition to the requirements of subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter.

6. Any vessel on an international voyage is subject to the requirements of the International Convention for Safety of Life at Sea, 1974.

7. The meaning of the term passenger is as defined in the Act of May 10, 1956 (Sec. 1, 70 Stat. 151; 46 U.S.C. 390). On oceanographic vessels scientific personnel on board shall not be deemed to be passengers nor seamen, but for calculations of lifesaving equipment, etc., shall be counted as persons.

8. Boilers and machinery are subject to examination on vessels over 40 feet in length.

9. Under 46 U.S.C. 441 an oceanographic research vessel is a vessel "* * * being employed exclusively in instruction in oceanography or limnology, or both, or exclusively in oceanographic research, * * *". Under 46 U.S.C. 443, an oceanographic research vessel shall not be deemed to be engaged in trade or commerce. "* * * if or when an oceanographic vessel engages in trade or commerce, such vessel cannot operate under its certificate of inspection as an oceanographic vessel, but shall be inspected and certificated for the service in which engaged, and the scientific personnel aboard then become persons employed in the business of the vessel.

10. Bulk dangerous cargoes are cargoes specified in Table 151.01–10(d) of this chapter.
§ 2.01–8 Application of regulations to vessels or tankships on an international voyage.

(a) Where, in various places or portions in this chapter, requirements are stipulated specifically for vessels on an international voyage or tankships on an international voyage, it is intended that these requirements apply only to vessels or tankships, as applicable, which are subject to the International Convention for Safety of Life at Sea, 1974.

(b) For details regarding application of Convention requirements to tankships, see § 30.01–6 of this chapter; to passenger vessels, see § 70.05–10 of this chapter; to cargo ships other than tankships, see § 90.05–10 of this chapter; and to small passenger vessels, see § 176.35–1 of this chapter. (E.O. 11239, 30 FR 9671, 3 CFR., 1965 Supp.).

§ 2.01–10 Inspection requirements—domestic vessels.

(a) If during the inspection of a vessel made at the request of the master, owner, or agent, the vessel or her equipment is found not to conform to the requirements of law or regulations in this chapter, the requirements which must be met will be listed on Form CG–835, Notice of Merchant Marine Inspection Requirements, and given to the master of the vessel.

(b) The Coast Guard on its own initiative may examine or inspect or reinspect at any time any vessel subject to inspection under Subtitle II, Title 46 of the U.S. Code, Title 46 and Title 33 U.S. Code. If during such examination, inspection, or reinspection, any failure to comply with any applicable requirement of law and/or applicable regulations in this chapter, or any defects or imperfections become apparent tending to render the navigation of the vessel unsafe, or that repairs have become necessary, the Coast Guard will so notify the master and state what is required.

§ 2.01–13 Inspection requirements—foreign vessels.

(a) Foreign vessels registered in countries which are parties to the effective International Convention for Safety of Life at Sea are normally subject to the examination provided for in Chapter I of that Convention. However, in the case of any vessel involving novel features of design or construction, upon which that Convention is silent or which involve potential unusual operating risks, a more extensive inspection may be required when considered necessary to safeguard the life or property in United States ports where such vessel may enter. In such a case, pertinent plans and/or calculations may be required to be submitted sufficiently in advance to permit evaluation before inspection.
§ 2.01–15 Vessel repairs.

(a) No repairs or alterations affecting the safety of the vessel or its machinery shall be made unless applicable requirements in this chapter are met. The procedures to be followed in notifying the Coast Guard about vessel repairs vary according to the type of vessel and service in which engaged. The requirements are set forth in the subchapter governing a particular class of vessels or in a subchapter governing a particular subject as follows:

1. For passenger vessels that are 100 gross tons or more, see §§71.55–1 and 71.60–1 of subchapter H (Passenger Vessels) of this chapter.

2. For small passenger vessels under 100 gross tons, see §176.700 of subchapter T (Small Passenger Vessels) of this chapter.

3. For cargo and miscellaneous vessels, see §§91.45–1 and 91.50–1 of subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

4. For tank vessels, see §§31.10–25 and 35.01–1 of subchapter D (Tank Vessels) of this chapter.

5. For public nautical schoolships, see §§167.30–1 and 167.30–10 of subchapter R (Nautical Schools) of this chapter.

(b) Foreign vessels registered in countries which are not parties to the effective International Convention for Safety of Life at Sea, or foreign vessels registered in countries which are parties to the effective Convention but which vessels are exempted from part or all of the Convention, may under conditions specified in applicable inspection laws be subject to inspection and certification as specified in regulations governing specific categories of vessels.

(c) For details concerning application of regulations to foreign vessels, see part 30 (Tank Vessels), part 70 (Passenger Vessels), part 90 (Cargo and Miscellaneous Vessels), §147.1 (Dangerous Cargo), part 148 (Bulk Solid Hazardous Materials), parts 153 and 154 (Certain Bulk Dangerous Cargoes), and part 175 (Small Passenger Vessels) of this chapter.


§ 2.01–15 Vessel repairs.

(a) No repairs or alterations affecting the safety of the vessel or its machinery shall be made unless applicable requirements in this chapter are met. The procedures to be followed in notifying the Coast Guard about vessel repairs vary according to the type of vessel and service in which engaged. The requirements are set forth in the subchapter governing a particular class of vessels or in a subchapter governing a particular subject as follows:

1. For passenger vessels that are 100 gross tons or more, see §§71.55–1 and 71.60–1 of subchapter H (Passenger Vessels) of this chapter.

2. For small passenger vessels under 100 gross tons, see §176.700 of subchapter T (Small Passenger Vessels) of this chapter.

3. For cargo and miscellaneous vessels, see §§91.45–1 and 91.50–1 of subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

4. For tank vessels, see §§31.10–25 and 35.01–1 of subchapter D (Tank Vessels) of this chapter.

5. For public nautical schoolships, see §§167.30–1 and 167.30–10 of subchapter R (Nautical Schools) of this chapter.

6. For oceanographic vessels, see §§189.45–1 and 189.50–1 of subchapter U (Oceanographic Vessels) of this chapter.

7. For repairs to a vessel after it has been surveyed, see §42.09–50 of subchapter E (Load Lines) of this chapter.

8. For repairs to boilers, pressure vessels, and appurtenances, see part 59 of subchapter F (Marine Engineering) of this chapter.

9. For repairs to electrical installations or equipment, see §§111.05–5(e), 111.05–10(e), and 111.90–5 of subchapter J (Electrical Engineering) of this chapter.

10. For vessels carrying compressed gases regulated by subchapter O (Certain Bulk Dangerous Cargoes), see §151.50 30(c) of this chapter.

11. For repairs to a vessel that affects its subdivision or stability, see §170.005 of this chapter.

(b) If repairs to a vessel are necessary, such a vessel may be permitted to proceed to another port for repairs, if in the opinion of the marine inspector it can be done with safety. The permit is granted by the Officer in Charge, Marine Inspection, upon request in writing by the master or owner of the vessel and is issued on Coast Guard Form CG–948, Permit to Proceed to Another Port for Repairs. The requirements for such permits are set forth in the subchapter governing a particular class of vessels as follows:

1. For passenger vessels that are 100 gross tons or more, see subpart 71.05 of subchapter H (Passenger Vessels) of this chapter.

2. For small passenger vessels under 100 gross tons, see subpart B of subchapter T (Small Passenger Vessels) of this chapter.

3. For cargo and miscellaneous vessels, see subpart 91.05 of subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

4. For tank vessels, see §31.10–35 of subchapter D (Tank Vessels) of this chapter.

5. For public nautical schoolships, see §167.30–5 of subchapter R (Nautical Schools) of this chapter.
§ 2.01–20 Suspension or revocation of certificates of inspection.

Under the authority if 46 U.S.C. 3313 and 46 U.S.C. 3710, a certificate of inspection issued to a vessel may be suspended revoked if a vessel is found not to comply with the terms of its certificate or fails to meet a standard required by this chapter.


(a) Certificates required. (1) The International Convention for Safety of Life at Sea, 1974, requires one or more of the following certificates to be carried on board certain passenger, cargo or tankships engaged in international voyages:

(i) Passenger Ship Safety Certificate.


(iii) Cargo Ship Safety Equipment Certificate.

(iv) Cargo Ship Safety Radio Certificate.

(v) Exemption Certificate.


(vii) Nuclear Cargo Ship Safety Certificate.

(viii) Safety Management Certificate.

(2) The U.S. Coast Guard will issue through the Officer In Charge, Marine Inspection, the following certificates after performing an inspection or safety management audit of the vessel’s systems and determining the vessel meets the applicable requirements:

(i) Passenger Ship Safety Certificate.

(ii) Cargo Ship Safety Construction Certificate, except when issued to cargo ships by a Coast Guard recognized classification society at the option of the owner or agent.

(iii) Cargo Ships Safety Equipment Certificate.

(iv) Exemption Certificate.

(v) Nuclear Passenger Ship Safety Certificate.

(vi) Nuclear Cargo Ship Safety Certificate.

(vii) Safety Management Certificate, except when issued by a recognized organization authorized by the Coast Guard.

(3) When authorized by the Commandant, U.S. Coast Guard, the American Bureau of Shipping may issue the Cargo Ship Safety Construction Certificate.

(4) The Federal Communications Commission will issue the following certificates:

(i) Cargo Ship Safety Radio Certificate.

(ii) Exemption Certificate.

(b) Applications. (1) The application for inspection and issuance of a certificate or certificates is made on the appropriate form listed in §2.01–1, or by letter, to the Officer in Charge, Marine Inspection, in or nearest the port at which the inspection is to be made and shall be signed by the master or agent of the vessel. The certificates previously issued are surrendered at the time the inspection is performed. Further details are set forth in subchapter D (Tank Vessels), subchapter H (Passenger Vessels), subchapter I (Cargo and Miscellaneous Vessels), subchapter O (Certain Bulk Dangerous Cargoes), and subchapter T (Small Passenger Vessels), of this chapter.

(2) The application for the inspection of a vessel other than a passenger vessel concerning the issuance of a Cargo Ship Safety Radio Certificate is made by formal application on FCC Form 801 to the local office of the Federal Communications Commission.

(c) Certificates issued. (1) If a vessel meets the applicable requirements of the Convention, it shall be issued appropriate certificates listed in paragraph (a) of this section. These certificates describe the vessel and state the vessel is in compliance with the applicable requirements of the Convention.

(2) A Convention certificate may be withdrawn, revoked or suspended at any time when it is determined the vessel is no longer in compliance with applicable requirements. (See §2.01–70 for appeal procedures.)
(d) CG-969—Notice of Receipt of Application for Passenger Ship Safety Certificate. (1) The Passenger Ship Safety Certificate is issued by the Commandant after determining all applicable requirements of the Convention have been met. In the event the completion of the certification of any passenger vessel cannot be effected prior to the sailing of the passenger ship on a foreign voyage, or in any case where the Passenger Ship Safety Certificate is not received from the Commandant before the ship sails on a foreign voyage, the Officer in Charge, Marine Inspection, will issue a completed Form CG-969, describing the passenger ship and certifying that an application for a Passenger Ship Safety Certificate is being processed, and that in his opinion the vessel meets applicable requirements of the Convention administered by the Coast Guard.

(2) The completed Form CG-969 may be exhibited in explanation of the failure of the passenger ship to have on board a current Passenger Ship Safety Certificate. This completed Form CG-969 may be accepted as prima facie evidence that the passenger ship described therein is in compliance with the applicable requirements of the Convention.

(e) Exempted vessel. (1) A vessel may be exempted by the Commandant from complying with certain requirements of the Convention under his administration upon request made in writing to him and transmitted via the Officer in Charge, Marine Inspection. In such case the exemptions are stated in the Exemption Certificate, which is issued by the Commandant through the appropriate Officer in Charge, Marine Inspection.

(2) The Exemption Certificate which modifies the Cargo Ship Safety Radio Certificate is issued by the Federal Communications Commission.

(f) Posting certificates. The Convention certificates issued to a vessel shall be posted in a prominent and accessible place on the vessel in a manner similar to that for certificates of inspection.

(g) Foreign flag vessels. At the request of the government of a country in which is registered a vessel engaged in an international voyage, such a vessel may be issued the applicable certificate or certificates listed in paragraph (a) of this section. The certificate will be issued only after inspection has been made by the issuing agency, providing the vessel is found to comply with the requirements of the Convention.

§ 2.01–30 Delegation of OCMI signature authority.

The OCMI may redelegate to one individual on his or her staff authority to sign documents issued under this subpart.

§ 2.01–40 Passengers or persons in addition to crew on cargo or tank vessels.

(a) Under the authority of 46 U.S.C. 3304, a documented vessel transporting cargo may be allowed by its certificate of inspection to carry not more than 12 individuals in addition to the crew on international voyages and not more than 16 individuals in addition to the crew on other voyages.

(b) The application for permission to carry persons in addition to the crew may be included in the application described in § 2.01–1. If granted it is endorsed on the certificate of inspection.

§ 2.01–45 Excursion permit.

(a) Under the authority of 46 U.S.C. 2113, a passenger vessel may be permitted to engage in excursions and carry additional numbers of passengers. For details see part 71 of subchapter H (Passenger Vessels) of this chapter.

(b) The application for an excursion permit is made by the master, owner, or agent of the vessel to the Officer in Charge, Marine Inspection, on Coast Guard Form CG-950, Application for Excursion Permit. If, after inspection, permission is granted, it is given on Coast Guard Form CG-949, Permission to Carry Excursion Party. The permit describes the vessel, the route over which and the period during which the
excursions may be made, and the safety equipment required for the additional persons indicated.


§ 2.01-50 Persons other than crew on towing, oyster, or fishing steam vessels.

(a) A steam vessel engaged in towing, oyster dredging and planting, and fishing may be permitted to carry persons in addition to its crew.

(b) The application for a permit to carry such persons may be included in the application described in §2.01-1. If granted it is endorsed on the certificate of inspection.


§ 2.01-60 Overtime compensation.

(a) General. Extra compensations for overtime services performed by inspectors of vessels and their assistants, shipping commissioners and their deputies and assistants who may be required to remain on duty between the hours of 5:00 p.m. and 8:00 a.m. or on Sundays or holidays to perform services in connection with the inspection of vessels or their equipment, supplying or signing on or discharging crews of vessels is authorized by 46 U.S.C. 2111 and regulations in part 9 of this chapter, together with the method of computing such extra compensation.

(b) Application and certification of time. Application for the performance of such overtime services and certification of services performed is made by the master, owner, or agent of a vessel to the Officer in Charge, Marine Inspection, on Form CG-830, Application for and Certificate of Overtime Service.

(c) Collection. The bill for the collection of the overtime compensation is submitted by the Officer in Charge, Marine Inspection to the master, owner, or agent on whose vessel overtime services are performed on Form CG-832, Bill for Collection Overtime Services. Payment is made to the Collector of Customs of the port designated.


§ 2.01-70 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88-033, 54 FR 50379, Dec. 6, 1989]

§ 2.01-80 Vessel inspections in Alaska.

(a) The waters of southeastern Alaska inside of the general trend of the shore from Cape Spencer, southeasterly to Cape Muzon, and thence easterly to Sitkalan Island, shall be considered as bays, sounds, and lakes other than the Great Lakes, for the purpose of administering the vessel inspection laws and applicable regulations in this chapter.

Subpart 2.10—Fees

SOURCE: CGD 91-030, 60 FR 13563, Mar. 13, 1995, unless otherwise noted.

§ 2.10-1 Applicability.

(a) This subpart establishes vessel inspection fees for all vessels required to have a Certificate of Inspection and vessel examination fees for all foreign vessels required to have either a Letter of Compliance or a Tank Vessel Examination Letter.

(b) The fees in this subpart do not apply to:

(1) Vessels being inspected for the initial issuance of a Certificate of Inspection;

(2) Foreign passenger vessels;

(3) Training vessels operated by State maritime academies;

(4) Public vessels of the United States except for Maritime Administration vessels; and

(5) Publicly owned ferries.

§ 2.10–5 Exemptions.

(a) Vessels owned or operated by a non-profit organization may be exempted from payment of the fees required by this subpart, only if the vessel is used exclusively for one or more of the following:

(1) Training youth in boating, seamanship, or navigation skills;
(2) Educating youth in a course of marine environmental studies;
(3) Providing excursions for persons with disabilities as defined under the Americans with Disabilities Act (ADA) [42 U.S.C. 12102(2)]; or
(4) Providing medical services.

(b) Vessels owned or operated by the Federal government or the government of any State or political subdivision thereunder may be exempted from the fees required by this subpart provided the vessel is used exclusively for one or more of the purposes listed in paragraph (a) of this section.

(c) The term used exclusively in paragraphs (a) and (b) of this section does not preclude:

(1) The carriage of adult volunteers or crew, or
(2) The vessel’s use for fundraising activities without regard to the age of the participants aboard the vessel, provided revenues raised are for the operation and maintenance of the vessel and that such fundraising activities do not exceed one day of fundraising for each month of the vessel’s operating season.

(d) Vessel owners or operators may submit a written request for exemption to the Officer in Charge, Marine Inspection, of the Marine Inspection Zone in which the vessel normally operates. The exemption request must provide the vessel name, the vessel identification number, and evidence that the organization and the vessel meet the criteria set forth in this section.

§ 2.10–20 General requirements.

(a) Unless otherwise specified, vessel owners must pay the fees required by this subpart before inspection or examination services are provided.

(b) Fees required by this subpart must be paid in U.S. currency by check or money order, drawn on a U.S. bank, and made payable to the U.S. Treasury.

(c) All payments must be accompanied by the vessel name and its vessel identification number.

(d) Unless otherwise specified, fees required by this subpart must be mailed to the following address: USCG Inspection Fees, PO Box 105663, Atlanta, GA 30348–5663.

(e) For purposes of this subpart, the address for Commandant (G–MRP) is: Commandant (G–MRP), United States Coast Guard, 2100 Second Street S.W., Washington, DC 20593–0001.

(f) Information concerning a vessel’s user fee anniversary date may be obtained from any Coast Guard Marine Safety or Marine Inspection Office.

§ 2.10–25 Definitions.

The following definitions apply to this subpart:

Drill ship MODU means a mobile offshore drilling unit with a ship shape displacement hull intended for operation in the floating condition.

Ferry means a vessel that:

(1) Operates in other than ocean or coastwise service;
(2) Has provisions only for deck passengers or vehicles, or both;
(3) Operates on a short run on a frequent schedule between two points over the most direct water route; and
(4) Offers a public service of a type normally attributed to a bridge or tunnel.

§ 2.10–25

Freight barge means a non-self-propelled vessel carrying freight for hire.

Freight ship means a self-propelled freight vessel.

Freight vessel means a motor vessel of more than 15 gross tons that carries freight for hire, except an oceanographic research vessel or an offshore supply vessel.

Industrial vessel means a vessel which, by reason of its special outfit, purpose, design, or function engages in certain industrial ventures. For the purposes of this subpart, this classification includes such vessels as dredges, cable layers, derrick barges, and construction and wrecking barges, but does not include vessels which carry passengers or freight for hire, OSVs, oceanographic research vessels, or vessels engaged in the fisheries.

Liquefied gas tankship means a self-propelled vessel equipped with cargo tanks primarily designed to carry liquefied or compressed gases in bulk.

Mobile offshore drilling unit (MODU) means a vessel capable of engaging in drilling operations for the exploration or exploitation of subsea resources that is: seagoing and 300 or more gross tons and self-propelled by machinery; Sea-going and 100 or more gross tons and non-self-propelled; or more than 65 feet in length and propelled by steam.

Nautical school vessel means a vessel operated by or in connection with a nautical school or an educational institution under section 13 of the Coast Guard Authorization Act of 1986, Public Law 99–640.

Non-profit organization means an organization under Internal Revenue Code (I.R.C.) section 501(c) which is exempt for the purposes of federal income taxation.

Oceanographic research vessel means a vessel that is being employed only in instruction in oceanography or limnology, or both, or only in oceanographic or limnological research, including those studies about the sea such as seismic, gravity meter, and magnetic exploration and other marine geophysical or geological surveys, atmospheric research, and biological research.

Offshore supply vessel or OSV means a vessel that—

(1) Is propelled by machinery other than steam;
(2) Does not meet the definition of a passenger-carrying vessel in 46 U.S.C. 2101(22) or 46 U.S.C. 2101(35);
(3) Is more than 15 but less than 500 gross tons (as measured under the Standard, Dual, or Simplified Measurement System under part 69, subpart C, D or E of this chapter) or less than 6,000 gross tons (as measured under the Convention Measurement System under part 69, subpart B of this chapter); and
(4) Regularly carries goods, supplies, individuals in addition to the crew, or equipment in support of exploration, exploitation, or production of offshore mineral or energy resources.

Passenger barge means a non-self-propelled passenger vessel, including a prison barge or a barge which carries occupied recreational vehicles.

Passenger ship means a self-propelled passenger vessel.

Passenger vessel means a vessel of at least 100 gross tons:
(1) Carrying more than 12 passengers, including at least one passenger for hire;
(2) That is chartered and carrying more than 12 passengers; or
(3) That is a submersible vessel carrying at least one passenger for hire.

Political subdivision means a county, district, parish, township, city or similar governmental entity established within a State.

Publicly owned means, owned by (1) the federal government, or (2) the government of any State or political subdivision thereunder.

Sailing school vessel means a vessel of less than 500 gross tons, carrying more than 6 individuals who are sailing school instructors or sailing school students, principally equipped for propulsion by sail even if the vessel has an auxiliary means of propulsion, and owned or demise chartered and operated by a qualified organization during such times as the vessel is operated exclusively for the purposes of sailing instruction.

Sea-going towing vessel means a sea-going commercial vessel engaged in or intending to engage in the service of pulling, pushing or hauling alongside,
or any combination of pulling, pushing or hauling alongside.

Self-elevating MODU means a mobile offshore drilling unit with movable legs capable of raising its hull above the surface of the sea.

Semi-submersible MODU means a mobile offshore drilling unit with the main deck connected to an underwater hull by columns or caissons, that is intended for drilling operations in the floating condition.

Small passenger vessel means a vessel of less than 100 gross tons:
(1) Carrying more than 6 passengers, including at least one passenger for hire;
(2) That is chartered with the crew provided or specified by the owner or the owner’s representative and carrying more than 6 passengers;
(3) That is chartered with no crew provided or specified by the owner or the owner’s representative and carrying more than 12 passengers; or
(4) That is a submersible vessel carrying at least one passenger for hire.

State means a State of the United States, Guam, Puerto Rico, the Virgin Islands, American Samoa, the District of Columbia, the Northern Mariana Islands and any other territory or possession of the United States.

Submersible MODU means a mobile offshore drilling unit intended for drilling operations in the bottom-bearing condition, having the main deck connected to an underwater hull or pontoons by way of columns or caissons.

Submersible vessel means a vessel that is capable of operating below the surface of the water.

Tank barge means any tank vessel not equipped with means of propulsion.

Tank vessel means a vessel that is constructed or adapted to carry, or that carries, oil or hazardous material in bulk as cargo or cargo residue.

Tankship means any tank vessel propelled by power or sail, including an integrated tug and barge designed to operate together only in the pushing mode.

User fee anniversary date means the date on which a vessel’s annual inspection fee is due each year. Once established by the Coast Guard, a vessel’s user fee anniversary date remains fixed for as long as the vessel remains in service.

Vessel identification number (VIN) means a U.S. official number, a number assigned by a State, a number assigned by the Coast Guard, or a Lloyd’s Register of Shipping identification number issued to a U.S. or foreign commercial vessel for purposes of vessel identification. For U.S. vessels, VIN means the number listed on the Certificate of Inspection. For foreign vessels, VIN means either the Lloyd’s Register of Shipping identification number or the number assigned by the Coast Guard.

Youth means an individual 21 years of age or younger.

§ 2.10–101 Annual vessel inspection fee.

(a)(1) Unless otherwise provided by this subpart, each vessel required to have a Certificate of Inspection is subject to the annual vessel inspection fee listed in table 2.10–101 for its vessel category.

(2) A vessel certificated for more than one service must pay only the higher of the two applicable fees in table 2.10–101 of this section.

(b) The vessel owner or operator must pay the annual vessel inspection fee each year on or before the vessel’s user fee anniversary date, unless the fee has been prepaid under § 2.10–103 of this subpart.

(c) Payment of the annual vessel inspection fee entitles a vessel to all inspection services related to compliance with its Certificate of Inspection, including but not limited to the inspection for renewal of the Certificate of Inspection, reinspections (midperiod inspections), hull (drydock) inspections, deficiency inspections, damage surveys, repair and modification inspections, change in vessel service inspections, permit to proceed inspections, drydock extension inspections, and all inspections required for the issuance of international certificates.

(d) Entitlement to inspection services for the current year remains with the vessel if it is sold. The entitlement
to inspection services may not be transferred to any other vessel.

TABLE 2.10-101.—ANNUAL VESSEL INSPECTION FEES FOR U.S. AND FOREIGN VESSELS REQUIRING A CERTIFICATE OF INSPECTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee (in $)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any inspected vessel not listed in this table</td>
<td>1,030</td>
</tr>
<tr>
<td>Freight Barges:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 150 feet</td>
<td>495</td>
</tr>
<tr>
<td>More than 150 feet but not more than 300 feet</td>
<td>610</td>
</tr>
<tr>
<td>More than 300 feet</td>
<td>955</td>
</tr>
<tr>
<td>Freight Ships:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 100 feet</td>
<td>1,425</td>
</tr>
<tr>
<td>More than 100 feet but no more than 300 feet</td>
<td>1,870</td>
</tr>
<tr>
<td>More than 300 feet</td>
<td>5,410</td>
</tr>
<tr>
<td>Industrial Vessels:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 200 feet</td>
<td>1,435</td>
</tr>
<tr>
<td>More than 200 feet</td>
<td>2,550</td>
</tr>
<tr>
<td>Mobile Offshore Drilling Units (MODUs):</td>
<td></td>
</tr>
<tr>
<td>Drill ship MODUs</td>
<td>6,710</td>
</tr>
<tr>
<td>Submersible MODUs</td>
<td>4,695</td>
</tr>
<tr>
<td>Self-elevating MODUs</td>
<td>4,695</td>
</tr>
<tr>
<td>Semi-submersible MODUs</td>
<td>8,050</td>
</tr>
<tr>
<td>Nautical School Vessels:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 100 feet</td>
<td>835</td>
</tr>
<tr>
<td>More than 100 feet but not more than 200 feet</td>
<td>1,450</td>
</tr>
<tr>
<td>More than 200 feet</td>
<td>7,205</td>
</tr>
<tr>
<td>Oceanographic Research Vessels:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 170 feet</td>
<td>840</td>
</tr>
<tr>
<td>More than 170 feet but not more than 240 feet</td>
<td>1,980</td>
</tr>
<tr>
<td>More than 240 feet</td>
<td>3,610</td>
</tr>
<tr>
<td>Offshore Supply Vessels:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 140 feet</td>
<td>1,135</td>
</tr>
<tr>
<td>More than 140 feet</td>
<td>1,470</td>
</tr>
<tr>
<td>Offshore Supply Vessels: Alternate Reinspection Program*:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 140 feet</td>
<td>940</td>
</tr>
<tr>
<td>More than 140 feet</td>
<td>1,260</td>
</tr>
<tr>
<td>Passenger Barges:</td>
<td></td>
</tr>
<tr>
<td>Less than 100 gross tons and:</td>
<td></td>
</tr>
<tr>
<td>Less than 65 feet in length</td>
<td>300</td>
</tr>
<tr>
<td>65 feet or more in length</td>
<td>600</td>
</tr>
<tr>
<td>100 gross tons or more and:</td>
<td></td>
</tr>
<tr>
<td>Certified for fewer than 150 passengers</td>
<td>2,215</td>
</tr>
<tr>
<td>Certified for 150 or more passengers</td>
<td>2,525</td>
</tr>
<tr>
<td>Passenger Ships:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 250 feet:</td>
<td></td>
</tr>
<tr>
<td>Certified for fewer than 150 passengers</td>
<td>3,600</td>
</tr>
<tr>
<td>Certified for 150 or more passengers</td>
<td>4,050</td>
</tr>
<tr>
<td>More than 250 feet but not more than 350 feet</td>
<td>5,330</td>
</tr>
<tr>
<td>More than 350 feet but not more than 450 feet</td>
<td>6,385</td>
</tr>
<tr>
<td>More than 450 feet</td>
<td>14,850</td>
</tr>
<tr>
<td>Sailing School Vessels:</td>
<td></td>
</tr>
<tr>
<td>Length not greater than 30 feet</td>
<td>530</td>
</tr>
<tr>
<td>More than 30 feet but not more than 65 feet</td>
<td>560</td>
</tr>
<tr>
<td>More than 65 feet</td>
<td>980</td>
</tr>
<tr>
<td>Sea-going Towing Vessels</td>
<td>2,915</td>
</tr>
<tr>
<td>Small Passenger Vessels:</td>
<td></td>
</tr>
<tr>
<td>Less than 65 feet in length</td>
<td>300</td>
</tr>
</tbody>
</table>
§ 2.10-105 Prepayment of annual vessel inspection fees.

(a) Vessel owners may prepay the annual vessel inspection fee for any period of not less than three years, and not more than the design life or remaining expected service life of the vessel.

(b) To prepay the annual vessel inspection fee for a period of three or more years, the owner must submit a written request to Commandant (G-MRP) specifying the vessel identification number and the period for which prepayment is to be made.

(c) The total of the annual fees for the requested prepayment period will be discounted to its net present value using the following formula:

\[
PV = \sum_{t=0}^{n} \frac{R_0 (1+i)^t}{(1+i)^t}
\]

Where:

- **PV** is the Present Value of the series of annual user fees to be prepaid (the net amount to be prepaid)
- **R_0** is the published user fee of the vessel
- **i** is the interest rate for 10-year Treasury notes at the time of prepayment calculation
- **\(\pi\)** is the rate of inflation (based on projected military personnel costs at the time of prepayment calculation)
- **n** is the total number of years after prepayment of the fee, for each annual increment (t=0, 1, 2, 3... n)

(d) When the annual vessel inspection fee has been prepaid, the entitlement to inspection services for the prepayment period attaches to the vessel and remains with the vessel if it is sold. The entitlement to inspection services may not be transferred to any other vessel.

(e) If a vessel is removed from Coast Guard certification and the vessel owner surrenders the vessel’s Certificate of Inspection, the owner may request a refund of the remaining prepayment amount. The annual vessel inspection fee will not be refunded for the year in which the Certificate of Inspection is surrendered. The request for refund must be submitted to the Officer in Charge, Marine Inspection to whom the Certificate of Inspection is surrendered.

§ 2.10-115 Changes in vessel service.

(a) If a vessel certificated for a single service changes service, the annual vessel inspection fee is not adjusted during the year in which a change in service occurs. The annual vessel inspection fee for the new vessel category is payable on the vessel’s user fee anniversary date immediately following the date of the change in service.

(b) If a change in service occurs and the annual vessel inspection fee has been prepaid, Commandant (G-MRP) will recalculate the prepayment...
§ 2.10–120 Overseas inspection and examination fees.

(a) In addition to any other fee required by this subpart, an overseas inspection and examination fee of $4,585 must be paid for each vessel inspection and examination conducted outside the United States and its territories. This fee does not apply to vessel inspections and examinations conducted in Canada, Mexico, or the British Virgin Islands.

(b) The overseas inspection and examination fee for each vessel must accompany each request to the cognizant Officer in Charge, Marine Inspection for an overseas inspection or examination.

§ 2.10–125 Fees for examination of foreign tankships.

Each foreign tankship of a country party to the International Convention for the Safety of Life at Sea, 1974 as amended, must pay:

(a) For examination for the issuance of a Letter of Compliance under § 2.01–6(a)(2)(i) of this part, or examination for the annual endorsement to a Letter of Compliance, a fee of $1,100.

(b) For examination for the issuance of a Tank Vessel Examination Letter under § 2.01–6(a)(3) of this part, a fee of $1,100.

§ 2.10–130 Fees for examination of foreign mobile offshore drilling units.

Each foreign mobile offshore drilling unit must pay:

(a) For examination for the issuance of a Letter of Compliance indicating compliance with the design and equipment standards of either the documenting nation or the International Maritime Organization Code for Construction and Equipment of Mobile Offshore Drilling Units, a fee of $1,830.

(b) For examination for the issuance of a Letter of Compliance indicating compliance with the design and equipment standards of 46 CFR part 108, the inspection fee listed in table 2.10–101 of this subpart for the same type of mobile offshore drilling unit.

§ 2.10–135 Penalties.

(a) A vessel owner or operator who fails to pay a fee or charge established under this subpart is liable to the United States Government for a civil penalty.

(b) In addition to the fees established in this subpart, the Coast Guard may recover collection and enforcement costs associated with delinquent payments of, or failure to pay, a fee. Coast Guard inspection and examination services may also be withheld pending payment of outstanding fees owed to the Coast Guard for inspection and examination services provided.

(c) Each District Commander or Officer in Charge Marine Inspection may request the Secretary of the Treasury, or the authorized representative thereof, to withhold or revoke the clearance required by 46 U.S.C. app. 91 of a vessel for which a fee or charge established under this part has not been paid or until a bond is posted for the payment.

Subpart 2.20—Reports and Forms

§ 2.20–40 Chief engineer’s reports.

(a) Repairs to boilers and pressure vessels. The chief engineer is required to report any repairs to boilers or unfired pressure vessels in accordance with §§ 33.25–5, 78.33–1, and 97.30–1 of this chapter.

(b) For examination for the issuance of a Letter of Compliance indicating compliance with the design and equipment standards of either the documenting nation or the International Maritime Organization Code for Construction and Equipment of Mobile Offshore Drilling Units, a fee of $1,830.

(c) The chief engineer shall report the renewal of fusible plugs in boilers by letter to the Officer in Charge, Marine Inspection, who issued the certificate of inspection when such fusible plugs are renewed at other than the inspection for certification and there is no marine inspector in attendance at the renewal. This letter report shall contain the following information:
§ 2.75-1 Approvals of Safety Equipment, Materials and Installations, and Qualifications for Construction Personnel

(a) Certain navigation and vessel inspection laws, or regulations in this chapter or in 33 CFR chapter I, require the Commandant’s approval before specific types of safety equipment, materials, or installations may be installed or used on vessels subject to Coast Guard inspection, or on other described vessels, motorboats, artificial islands, and fixed structures.

(b) The Commandant’s approvals are issued to persons, partnerships, companies, or corporations who apply for approval of specific items of safety equipment, materials, or installations, or intend them for their own or others’ use. These approvals are intended to provide a control over the quality of such approved items. The Commandant’s approvals apply only to those items constructed or installed in accordance with applicable requirements, and the details as described in the documents granted specific approval. If a specific item when manufactured does not comply with these details, then it is not considered to be approved and the approval issued does not apply to such modified item. For example, if an item is manufactured with changes in design or material not previously approved, the approval does not apply to such modified item. The failure to comply with applicable requirements and details specified in the approval subjects the holder to immediate suspension of approval as described in §2.75-40, and if necessary, to a public hearing seeking withdrawal of approval and removal of all such items from use or installation as provided in §2.75-50.

(c) The Commandant’s approvals are issued to qualified holders in the form of certificates of approval (Form CGHQ-10030), by appropriate description and identification in documents filed with the Office of the Federal Register and published in the FEDERAL REGISTER, or by letters, or by appropriate markings on drawings, plans, etc. Under the direction of the Commandant, the Assistant Commandant for Marine Safety and Environmental Protection is delegated the authority to exercise the necessary actions relating to the granting, suspension, cancellation or revocation of approvals for special items of safety equipment, materials or installations required by law in regulation in this chapter or in 33 CFR chapter I to have the Commandant’s approval. The authority delegated to the Assistant Commandant for Marine Safety and Environmental Protection may be further delegated by him.

(d) The approvals granted to holders qualifying under the regulations in this chapter or in specifications, copies of which may be obtained from the Commandant (G-MSE), and to which official Coast Guard numbers are assigned,
§ 2.75-5 Certificates of approval.

(a) The Assistant Commandant for Marine Safety and Environmental Protection or his delegate, will issue a certificate of approval to the manufacturer or party named therein and certify that such manufacturer or party has submitted satisfactory evidence that the item described therein complies with the applicable laws and regulations, which are outlined on the reverse side of the certificate.

(b) The approval shall be in effect for a period of 5 years from the date on the certificate of approval unless sooner canceled or suspended by proper authority, or otherwise specifically stated in the certificate.

§ 2.75-10 Procedures for obtaining approvals.

(a) The requirements for obtaining approvals of items covered by specifications and bearing official Coast Guard approval numbers are set forth in parts 159 through 164 of this chapter. For other items, the requirements are described in the regulations governing such items.

(b) Unless otherwise specified, correspondence concerning approvals should be addressed to the Commandant (G-MSE), U.S. Coast Guard, Washington, DC 20593-0001. When plans, drawings, test data, etc., are required to be submitted by the manufacturer, the material being transmitted with the application should be clearly identified.

§ 2.75-15 Requirements and tests.

(a) Approved items described in certificates of approval are usually required to meet specific requirements and/or tests, prior to obtaining the approval. Additional factory tests to determine that proper uniformity and quality controls are followed during the manufacture of the specific items may be required. These requirements governing the manufacturer in particular are set forth in the regulations in this chapter or in specifications, copies of which may be obtained from the Commandant (G-MSE). If the requirements are met, a certificate of approval will be issued.

(b) When the specific item described in an application, together with accompanying drawings, plans, etc., does not meet applicable requirements or fails to meet specified tests, the applicant will be notified accordingly. The Coast Guard may suggest changes in order for the item to qualify and permit the issuance of an approval.

(c) For items not covered by specification requirements in parts 160 to 164, inclusive (subchapter Q—Specifications) of this chapter, the requirements in the navigation and vessel inspection laws, and applicable regulations in this chapter or in 33 CFR chapter I apply.
§ 2.75–25 Portable fire extinguishers.

(a) The portable fire extinguishers listed and labeled as marine type by a recognized laboratory, as provided in subpart 162.028 of part 162 of subchapter Q (Specifications) of this chapter, will be accepted as approved for use on merchant vessels, motorboats, etc., whenever required by the regulations in this chapter, and for use on artificial islands and fixed structures on the Outer Continental Shelf whenever required by the regulations in 33 CFR parts 140 to 146, inclusive.

(b) The procedures for manufacturers to follow and the requirements governing portable fire extinguishers to qualify being listed and labeled as marine type by a recognized laboratory are set forth in subpart 162.028 of part 162 of subchapter Q (Specifications) of this chapter.

(c) The procedures for a laboratory to qualify as a recognized laboratory and to be listed in §162.028-5 of subchapter Q (Specifications) of this chapter are as follows:

1. The laboratory shall submit an informal application in writing on its usual letterhead paper to the Commandant (G-M), United States Coast Guard, Washington, DC 20593, requesting recognition and listing, as a recognized laboratory.

2. Accompanying the informal application, as identified enclosures, shall be:

   (i) A certification that it is a laboratory which has been and is regularly engaged in the examination, testing, and evaluation of portable fire extinguishers.

   (ii) A certification that it has an established factory inspection, listing, and labeling program, together with a complete description of it and how it works.

   (iii) A description of its facilities used in the examination, testing, and evaluation of portable fire extinguishers, together with its name (if different from that of submitter), and location (city, street, and state).

   (iv) A list of the names and home and office addresses of its principal officers and its managing directors (if any).

   (v) A description of its special standards for listing and labeling portable fire extinguishers as marine type, as contemplated by the specification in subpart 162.028 of part 162 of subchapter Q (Specifications) of this chapter.

3. If the Commandant finds that a laboratory qualifies as a recognized laboratory, and it is subject to Coast Guard jurisdiction, the approval and listing will be published in the Federal Register and will be in effect until suspended, canceled or terminated by proper authority. The failure of a recognized laboratory to maintain its established factory inspection, listing and labeling program as approved by the Commandant shall be cause for terminating a listing as a recognized laboratory.

§ 2.75–40 Suspension of approval.

(a) Whenever it is determined that a specific item is not in compliance with the applicable laws, rules, and regulations, and the requirements specified in the approval issued by the Coast Guard, the District Commander or the Officer in Charge, Marine Inspection, will immediately notify the holder of the approval wherein the specific item fails to meet applicable requirements.

(b) The procedures for appealing the temporary suspension shall be those described in §2.01–70.

§ 2.75–50 Withdrawals or terminations of approvals and appeals.

(a) The Commandant may withdraw approval for any item which is found
§ 2.75–60 Hazardous ships' stores.

Hazardous ships' stores, as defined in §147.3 of this chapter, must not be brought on board or used on any vessel unless they meet the requirements of part 147 of this chapter.


§ 2.75–60 Hazardous ships' stores.

Hazardous ships' stores, as defined in §147.3 of this chapter, must not be brought on board or used on any vessel unless they meet the requirements of part 147 of this chapter.


§ 2.75–70 Welding procedure and performance qualifications.

(a) Welding procedures and welder performance utilized in the fabrication of vessels and their various systems and components subject to Coast Guard inspection shall be qualified as required by the applicable subchapter. For applicable requirements see §§32.60–1(a) of subchapter D (Tank Vessels), §72.01–15 of subchapter H (Passenger Vessels), §§72.01–10 of subchapter I (Cargo and Miscellaneous Vessels), or §190.01–10 of subchapter U (Oceanographic Vessels) of this chapter. See part 57 of subchapter F (Marine Engineering) for requirements for the welding of pressure piping, boilers, pressure vessels, and nonpressure vessel type tanks, and associated secondary barriers as defined in §38.05–4 of subchapter D (Tank Vessels) of this chapter.

CGFR 68–82, 33 FR 18804, Dec. 18, 1968

§ 2.85–1 Assignment of load lines.

Most U.S. vessels, and foreign vessels in U.S. waters are required to have load line assignments in accordance with 46 U.S.C. Chapter 51. The load lines marks when placed on a vessel indicate the maximum draft to which such vessel can be lawfully submerged, in the various circumstances and seasons applicable to such vessel. See subchapter E (Load Lines) of this chapter for applicable details governing assignment and marking of load lines.


§ 2.90–1 General requirements.

(a) Drawings, blueprints or plans showing the details of construction of vessels subject to inspection or installations thereon are required to be submitted for approval in accordance with applicable regulations in this chapter, information as to which may be obtained at any local Marine Inspection Office.

(b) The requirements for passenger vessel construction are in parts 43–46, 70–78, of this chapter.

(c) The requirements for tank vessel construction are in parts 30–39, 43–45, of this chapter.

(d) The requirements for cargo and miscellaneous vessel construction are in parts 43–45, 90–97, of this chapter.

(e) The requirements for marine engineering installations or equipment are in parts 50–69 of this chapter.

(f) The requirements for electrical engineering installations or equipment are in parts 110–113 of this chapter.

(g) The requirements for items to be manufactured under specific approval by the Commandant are in parts 160–164 of this chapter.

(h) The requirements for vessels carrying certain bulk dangerous cargoes are in parts 148, 151, 153, and 154 of this chapter.
(i) The requirements for subdivision and stability plans and calculations are in part 170 of this chapter.

Subpart 2.95—Retention of Records by the Public

§ 2.95-1 Certificates or documents issued by Coast Guard.

(a) Certificates or documents issued to the public, as required by laws, rules, or regulations, shall be retained for the applicable period of time, as follows:

(1) If the certificate or document specifies a definite period of time for which it is valid, it shall be retained for so long as it is valid unless it is required to be surrendered; or,

(2) If the certificate or document does not specify a definite period of time for which it is valid, it shall be retained for the period of time such certificate or document is required for operation of the vessel; or,

(3) If the certificate or document is evidence of a person's qualifications, it shall be retained for so long as it is valid unless it is required to be surrendered.

§ 2.95-5 Certificates or documents issued by others.

(a) Certificates or documents issued by other public agencies or private organizations, which are accepted as prima facie evidence of compliance with requirements administered by the Coast Guard, shall be retained for the applicable period of time as follows:

(1) If the certificate or document specifies a definite period of time for which it is valid, it shall be retained for so long as it is valid unless it is required to be surrendered; or,

(2) If the certificate or document does not specify a definite period of time for which it is valid, it shall be retained for the period of time such certificate or document is required for operation of the vessel; or,
Subpart 3.01—Authority and Purpose

§ 3.01–1 Purpose of regulations.
The purpose of the regulations in this part is to establish standard procedures for the designation of certain vessels as oceanographic research vessels as defined in 46 U.S.C. 2101(18).


Subpart 3.03—Application

§ 3.03–1 Vessels subject to the requirements of this part.
The regulations in this subchapter are applicable to U.S. flag vessels desiring designation as oceanographic research vessels in accordance with 46 U.S.C. 2101(18).


Subpart 3.05—Definition of Terms Used in This Part

§ 3.05–1 Letter of designation.
A letter issued by an Officer in Charge, Marine Inspection, designating an uninspected vessel as an oceanographic research vessel.

§ 3.05–3 Oceanographic research vessel.
“An oceanographic research vessel is a vessel which the U.S. Coast Guard finds is employed exclusively in one or more of the following: (a) Oceanographic instruction; (b) Limnologic instruction; (c) Oceanographic research; or, (d) Limnologic research.”

Subpart 3.10—Designation

§ 3.10–1 Procedures for designating oceanographic research vessels.
(a) Upon written request by the owner, master, or agent of a vessel, a determination will be made by the Officer in Charge, Marine Inspection, of the zone in which the vessel is located, whether the vessel may be designated as an oceanographic research vessel.

(b) The request should contain sufficient information to allow the Officer in Charge, Marine Inspection, to make this determination. At a minimum, the following items must be submitted:
(1) A detailed description of the vessel, including its identification number, owner and charterer.
(2) A specific operating plan stating precisely the intended use of the vessel.
(3) Any additional information as may be requested by the Officer in Charge, Marine Inspection.

(c) If designation is granted, it shall be indicated as follows:
(1) For inspected vessels—indicated on the certificate of inspection, valid for its duration.
(2) For uninspected vessels—indicated by a letter of designation, which shall be maintained on board the vessel and remain in effect for two years from date of issuance.
(d) All designations shall remain valid for the period specified on the applicable document, provided all operating conditions remain unchanged from the date of designation.

(e) In the event of a change in operating conditions, the owner, master, or agent of the vessel shall advise the Officer in Charge, Marine Inspection who issued the designation. After reviewing the pertinent information concerning the operational changes, the Officer in Charge, Marine Inspection, shall determine if the vessel is still eligible to retain its designation as an oceanographic research vessel.


§ 3.10–5 Renewal of letter of designation.
At least 60 days prior to the expiration date of the letter of designation or certificate of inspection, a request for renewal must be submitted in the same manner as described in 3.10–1. However, if the request for renewal is submitted to the Officer in Charge, Marine Inspection, who made the initial determination and all operating conditions remain unchanged, the information required by §3.10–1(b) need not be resubmitted with the request.
§ 3.10–10 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88-033, 54 FR 50379, Dec. 6, 1989]

PART 4—MARINE CASUALTIES AND INVESTIGATIONS

Subpart 4.01—Authority and Scope of Regulations

Sec.
4.01–1 Scope of regulation.
4.01–3 Reporting exclusion.

Subpart 4.03—Definitions

4.03–1 Marine casualty or accident.
4.03–2 Serious marine incident.
4.03–4 Individual directly involved in a serious marine incident.
4.03–5 Medical facility.
4.03–6 Qualified medical personnel.
4.03–7 Chemical test.
4.03–10 Party in interest.
4.03–15 Commandant.
4.03–20 Coast Guard district.
4.03–25 District Commander.
4.03–30 Investigating officer.
4.03–35 Nuclear vessel.
4.03–40 Public vessels.
4.03–45 Marine employer.
4.03–50 Recreational vessel.
4.03–55 Law enforcement officer.

Subpart 4.04—Notice of Potential Vessel Casualty

4.04–1 Reports of potential vessel casualty.
4.04–3 Reports of lack of vessel communication.
4.04–5 Substance of reports.

Subpart 4.05—Notice of Marine Casualty and Voyage Records

4.05–1 Notice of marine casualty.
4.05–5 Substance of marine casualty notice.
4.05–10 Written report of marine casualty.
4.05–12 Alcohol or drug use by individuals directly involved in casualties.
4.05–15 Voyage records, retention of.
4.05–20 Report of accident to aid to navigation.
4.05–25 Reports when state of war exists.
4.05–30 Incidents involving hazardous materials.
4.05–35 Incidents involving nuclear vessels.
4.05–40 Alternate electronic means of reporting.
§ 4.01-1

Subpart 4.13—Availability of Records

4.13-1 Public availability of records.

Subpart 4.19—Construction of Regulations and Rules of Evidence

4.19-1 Construction of regulations.
4.19-5 Adherence to rules of evidence.

Subpart 4.21—Computation of Time

4.21-1 Computation of time.

Subpart 4.23—Evidence of Criminal Liability

4.23-1 Evidence of criminal liability.

Subpart 4.40—Coast Guard—National Transportation Safety Board Marine Casualty Investigations

4.40-1 Purpose.
4.40-5 Definitions.
4.40-10 Preliminary investigation by the Coast Guard.
4.40-15 Marine casualty investigation by the Board.
4.40-20 Cause or probable cause determinations from Board investigation.
4.40-25 Coast Guard marine casualty investigation for the Board.
4.40-30 Procedures for Coast Guard investigation.
4.40-35 Records of the Coast Guard and the Board.

Source: CGD 74-119, 51 FR 33317, Sept. 17, 1974, unless otherwise noted.

Subpart 4.01—Authority and Scope of Regulations

§ 4.01-1 Scope of regulation.

The regulations in this part govern the reporting of marine casualties, the investigation of marine casualties and the submittal of reports designed to increase the likelihood of timely assistance to vessels in distress.

[CGD 85-015, 51 FR 19341, May 29, 1986]

§ 4.01-3 Reporting exclusion.

(a) Vessels subject to 33 CFR 173.51 are excluded from the requirements of subpart 4.05.

(b) Vessels which report diving accidents under 46 CFR 197.484 regarding deaths, or injuries which cause incapacitation for greater than 72 hours, are not required to give notice under §4.05-1(d) or §4.05-1(e).

(c) Vessels are excluded from the requirements of §4.05.1(d) and (e) with respect to the death or injury of shipyard or harbor workers when such accidents are not the result of either a vessel casualty (e.g., collision) or a vessel equipment casualty (e.g., cargo boom failure) and are subject to the reporting requirements of Occupational Safety and Health Administration (OSHA) under 29 CFR 1904.

(d) Except as provided in subpart 4.40, public vessels are excluded from the requirements of this part.


Subpart 4.03—Definitions

§ 4.03-1 Marine casualty or accident.

(a) The term marine casualty or accident shall mean any casualty or accident involving any vessel other than public vessels if such casualty or accident occurs upon the navigable waters of the United States, its territories or possessions or any casualty or accident wherever such casualty or accident may occur involving any United States' vessel which is not a public vessel. (See §4.03-40 for definition of Public Vessel.)

(b) The term marine casualty or accident includes any accidental grounding, or any occurrence involving a vessel which results in damage by or to the vessel, its apparel, gear, or cargo, or injury or loss of life of any person; and includes among other things, collisions, strandings, groundings, founderings, heavy weather damage, fires, explosions, failure of gear and equipment and any other damage which might affect or impair the seaworthiness of the vessel.

(c) The term marine casualty or accident also includes occurrences of loss of
life or injury to any person while diving from a vessel and using underwater breathing apparatus.

[CGD 74-119, 39 FR 33317, Sept. 17, 1974, as amended by CGD 76-170, 45 FR 77441, Nov. 24, 1980]

§ 4.03-2 Serious marine incident.

The term serious marine incident includes the following events involving a vessel in commercial service:

(a) Any marine casualty or accident as defined in §4.03-1 which is required by §4.05-1 to be reported to the Coast Guard and which results in any of the following:

(1) One or more deaths;
(2) An injury to a crewmember, passenger, or other person which requires professional medical treatment beyond first aid, and, in the case of a person employed on board a vessel in commercial service, which renders the individual unfit to perform routine vessel duties;
(3) Damage to property, as defined in §4.05-1(a)(7) of this part, in excess of $100,000;
(4) Actual or constructive total loss of any vessel subject to inspection under 46 U.S.C. 3301; or
(5) Actual or constructive total loss of any self-propelled vessel, not subject to inspection under 46 U.S.C. 3301, of 100 gross tons or more.

(b) A discharge of oil of 10,000 gallons or more into the navigable waters of the United States, as defined in 33 U.S.C. 1321, whether or not resulting from a marine casualty.

(c) A discharge of a reportable quantity of a hazardous substance into the navigable waters of the United States, or a release of a reportable quantity of a hazardous substance into the environment of the United States, whether or not resulting from a marine casualty.


§ 4.03-4 Individual directly involved in a serious marine incident.

The term individual directly involved in a serious marine incident is an individual whose order, action or failure to act is determined to be, or cannot be ruled out as, a causative factor in the events leading to or causing a serious marine incident.

[CGD 86-067, 53 FR 47077, Nov. 21, 1988]

§ 4.03-5 Medical facility.

The term medical facility means an American hospital, clinic, physician’s office, or laboratory, where blood and urine specimens can be collected according to recognized professional standards.

[CGD 86-067, 53 FR 47077, Nov. 21, 1988]

§ 4.03-6 Qualified medical personnel.

The term qualified medical personnel means a physician, physician’s assistant, nurse, emergency medical technician, or other person authorized under State or Federal law or regulation to collect blood and urine specimens.

[CGD 86-067, 53 FR 47077, Nov. 21, 1988]

§ 4.03-7 Chemical test.

The term chemical test means a scientifically recognized test which analyzes an individual’s breath, blood, urine, saliva, bodily fluids, or tissues for evidence of dangerous drug or alcohol use.

[CGD 86-067, 53 FR 47077, Nov. 21, 1988]

§ 4.03-10 Party in interest.

The term party in interest shall mean any person whom the Marine Board of Investigation or the investigating officer shall find to have a direct interest in the investigation conducted by it and shall include an owner, a charterer, or the agent of such owner or charterer of the vessel or vessels involved in the marine casualty or accident, and all licensed or certificated personnel whose conduct, whether or not involved in a marine casualty or accident is under investigation by the Board or investigating officer.

[CGD 86-067, 53 FR 47077, Nov. 21, 1988]

§ 4.03-15 Commandant.

The Commandant, U.S. Coast Guard, is that officer who acts as chief of the Coast Guard and is charged with the administration of the Coast Guard.

§ 4.03-20 Coast Guard district.

A Coast Guard district is one of the geographical areas whose boundaries are described in 33 CFR part 3.
§ 4.03–25 District Commander.

The District Commander is the chief of a Coast Guard district and is charged with the administration of all Coast Guard responsibilities and activities within his respective district, except those functions of administrative law judges under the Administrative Procedure Act (60 Stat. 237, 5 U.S.C. 1001 et seq.) and activities of independent units of the Coast Guard, such as the Coast Guard Yard and the Coast Guard Academy.

§ 4.03–30 Investigating officer.

An investigating officer is an officer or employee of the Coast Guard designated by the Commandant, District Commander or the Officer in Charge, Marine Inspection, for the purpose of making investigations of marine casualties and accidents or other matters pertaining to the conduct of seamen. An Officer in Charge, Marine Inspection, is an investigating officer without further designation.

§ 4.03–35 Nuclear vessel.

The term nuclear vessel means any vessel in which power for propulsion, or for any other purpose, is derived from nuclear energy; or any vessel handling or processing substantial amounts of radioactive material other than as cargo.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

§ 4.03–40 Public vessels.

Public vessel means a vessel that—

(a) Is owned, or demise chartered, and operated by the U.S. Government or a government of a foreign country, except a vessel owned or operated by the Department of Transportation or any corporation organized or controlled by the Department (except a vessel operated by the Coast Guard or Saint Lawrence Seaway Development Corporation); and

(b) Is not engaged in commercial service.


§ 4.03–45 Marine employer.

Marine employer means the owner, managing operator, charterer, agent, master, or person in charge of a vessel other than a recreational vessel.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

§ 4.03–50 Recreational vessel.

Recreational vessel means a vessel meeting the definition in 46 U.S.C. 2101(25) that is then being used only for pleasure.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

§ 4.03–55 Law enforcement officer.

Law enforcement officer means a Coast Guard commissioned, warrant or petty officer; or any other law enforcement officer authorized to obtain a chemical test under Federal, State, or local law.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

Subpart 4.04—Notice of Potential Vessel Casualty

SOURCE: CGD 85–015, 51 FR 19341, May 29, 1986, unless otherwise noted.

§ 4.04–1 Reports of potential vessel casualty.

A vessel owner, charterer, managing operator or agent shall immediately notify either of the following Coast Guard offices if there is reason to believe a vessel is lost or imperiled:

(a) The Coast Guard district rescue coordination center (RCC) cognizant over the area the vessel was last operating in; or

(b) The Coast Guard search and rescue authority nearest to where the vessel was last operating.

Reasons for belief that a vessel is in distress include, but are not limited to, lack of communication with or nonappearance of the vessel.

§ 4.04–3 Reports of lack of vessel communication.

The owner, charterer, managing operator or agent of a vessel that is required to report to the United States flag Merchant Vessel Location Filing System under the authority of section 212(A) of the Merchant Marine Act, 1936 (46 App. U.S.C. 1122a), shall immediately notify the Coast Guard if more than 48 hours have passed since receiving communication from the vessel. This notification shall be given to the
§ 4.05-10 Written report of marine casualty.

(a) The owner, agent, master, operator, or person in charge shall, within five days, file a written report of any marine casualty required to be reported under § 4.05-1. This written report must be delivered to a Coast Guard Marine Safety Office or Marine Inspection Office. It must be provided on Form CG-2692 (Report of Marine Accident, Injury or Death), supplemented as necessary by appended Forms CG-2692A (Barge Addendum) and CG-2692B (Report of Required Chemical Drug and
§ 4.05–12 Alcohol or drug use by individuals directly involved in casualties.

(a) For each marine casualty required to be reported by § 4.05–10, the marine employer shall determine whether there is any evidence of alcohol or drug use by individuals directly involved in the casualty.

(b) The marine employer shall include in the written report, Form CG–2692, submitted for the casualty information which:

(1) Identifies those individuals for whom evidence of drug or alcohol use, or evidence of intoxication, has been obtained; and,

(2) Specifies the method used to obtain such evidence, such as personal observation of the individual, or by chemical testing of the individual.

(c) An entry shall be made in the official log book, if carried, pertaining to those individuals for whom evidence of intoxication is obtained. The individual must be informed of this entry and the entry must be witnessed by a second person.

(d) If an individual directly involved in a casualty refuses to submit to, or cooperate in, the administration of a timely chemical test, when directed by a law enforcement officer or by the marine employer, this fact shall be noted in the official log book, if carried, and in the written report (Form CG–2692), and shall be admissible as evidence in any administrative proceeding.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

§ 4.05–15 Voyage records, retention of.

(a) The owner, agent, master, or person in charge of any vessel involved in a marine casualty shall retain such voyage records as are maintained by the vessel, such as both rough and smooth deck and engine room logs, bell books, navigation charts, navigation work books, compass deviation cards, gyro records, stowage plans, records of draft, aids to mariners, night order books, radiograms sent and received, radio logs, crew and passenger lists, articles of shipment, official logs and other material which might be of assistance in investigating and determining the cause of the casualty. The owner, agent, master, other officer or person responsible for the custody thereof, shall make these records available upon request, to a duly authorized investigating officer, administrative law judge, officer or employee of the Coast Guard.

(b) The investigating officer may substitute photostatic copies of the voyage records referred to in paragraph (a) of this section when they have served their purpose and return the original records to the owner or owners thereof.

§ 4.05–20 Report of accident to aid to navigation.

Whenever a vessel collides with a buoy, or other aid to navigation, under the jurisdiction of the Coast Guard, or is connected with any such collision, it shall be the duty of the person in charge of such vessel to report the accident to the nearest Officer in Charge, Marine Inspection. No report on Form CG–2692 is required unless one or more of the results listed in § 4.05–1 occur.


§ 4.05–25 Reports when state of war exists.

During the period when a state of war exists between the United States and any foreign nation, communications in regard to casualties or accidents shall be handled with caution and the reports shall not be made by radio or by telegram.

§ 4.05–30 Incidents involving hazardous materials.

When a casualty occurs involving hazardous materials, notification and a written report to the Department of Transportation may be required. See 49 CFR 171.15 and 171.16.

[CGD 76–170, 45 FR 77441, Nov. 24, 1980]
§ 4.05–35 Incidents involving nuclear vessels.

The master of any nuclear vessel shall immediately inform the Commandant in the event of any accident or casualty to the nuclear vessel which may lead to an environmental hazard. The master shall also immediately inform the competent governmental authority of the country in whose waters the vessel may be or whose waters the vessel approaches in a damaged condition.

[CGD 84–099, 52 FR 47534, Dec. 14, 1987]

§ 4.05–40 Alternate electronic means of reporting.

The Commandant may approve alternate electronic means of submitting notices and reports required under this subpart.

[USCG–1999–6216, 64 FR 53223, Oct. 1, 1999]

Subpart 4.06—Mandatory Chemical Testing Following Serious Marine Incidents Involving Vessels in Commercial Service

SOURCE: CGD 86–067, 53 FR 47078, Nov. 21, 1988, unless otherwise noted.

§ 4.06–1 Responsibilities of the marine employer.

(a) At the time of occurrence of a marine casualty, a discharge of oil into the navigable waters of the United States, a discharge of a hazardous substance into the navigable waters of the United States, or a release of a hazardous substance into the environment of the United States, the marine employer shall make a timely, good faith determination as to whether the occurrence currently is, or is likely to become, a serious marine incident.

(b) When a marine employer determines that a casualty or incident is, or is likely to become, a serious marine incident, the marine employer shall take all practicable steps to have each individual engaged or employed on board the vessel who is directly involved in the incident chemically tested for evidence of drug and alcohol use.

(c) The determination of which individuals are directly involved in a serious marine incident is to be made by the marine employer. A law enforcement officer may determine that additional individuals are directly involved in the serious marine incident. In such cases, the marine employer shall take all practicable steps to have these individuals tested in accordance with paragraph (b) of this section.

(d) The requirements of this subpart shall not prevent vessel personnel who are required to be tested from performing duties in the aftermath of a serious marine incident when their performance is necessary for the preservation of life or property or the protection of the environment.

(e) The marine employer shall ensure that all individuals engaged or employed on board a vessel are fully indoctrinated in the requirements of this subpart, and that appropriate vessel personnel are trained as necessary in the practical applications of these requirements.

(f) Each marine employer shall implement the testing requirements of this subpart in accordance with the implementation schedule provided in 46 CFR 16.205 and 16.207.

§ 4.06–5 Responsibilities of individuals directly involved in serious marine incidents.

(a) Any individual engaged or employed on board a vessel who is determined to be directly involved in a serious marine incident shall provide blood, breath or urine specimens for chemical tests required by § 4.06–10 when directed to do so by the marine employer or a law enforcement officer.

(b) If the individual refuses to provide blood, breath or urine specimens, this refusal shall be noted on Form CG–2692B and in the vessel’s official log book, if one is required.

(c) No individual may be forcibly compelled to provide specimens for chemical tests required by this part; however, refusal is considered a violation of regulation and could subject the individual to suspension and revocation proceedings under part 5 of this chapter and removal from any duties which directly affect the safety of the vessel’s navigation or operations.
§ 4.06–10  Required specimens.

Each individual required to submit to chemical testing shall, as soon as practicable, provide the following specimens for chemical testing:

(a) Urine specimens, collected in accordance with §4.06–20 and part 16 of this chapter.

(b) Blood or breath specimens, or both, collected in accordance with §4.06–20.

§ 4.06–20  Specimen collection requirements.

(a) All inspected vessels certificated for unrestricted ocean routes, and all inspected vessels certificated for restricted overseas routes, are required to have on board at all times a breath testing device capable of determining the presence of alcohol in a person’s system. The breath testing device shall be used in accordance with procedures specified by the manufacturer.

(b) The marine employer shall ensure that urine specimen collection and shipping kits meeting the requirements of §16.330 of this part are readily available for use following serious marine incidents. The specimen collection and shipping kits need not be maintained aboard each vessel if they can otherwise be readily obtained within 24 hours from the time of the occurrence of the serious marine incident.

(c) The marine employer shall ensure that specimens required by §4.06–10 are collected as soon as practicable following the occurrence of a serious marine incident.

(d) When obtaining blood, breath, and urine specimens, the marine employer shall ensure that the collection process is supervised by either qualified collection personnel, the marine employer, a law enforcement officer, or the marine employer’s representative.

(e) Chemical tests of an individual’s breath for the presence of alcohol using a breath testing device may be conducted by any individual trained to conduct such tests. Blood specimens shall be taken only by qualified medical personnel.

§ 4.06–30  Specimen collection in incidents involving fatalities.

(a) When an individual engaged or employed on board a vessel dies as a result of a serious marine incident, blood and urine specimens must be obtained from the remains of the individual for chemical testing, if practicable to do so. The marine employer shall notify the appropriate local authority, such as the coroner or medical examiner, as soon as possible, of the fatality and of the requirements of this subpart. The marine employer shall provide the specimen collection and shipping kit and request that the local authority assist in obtaining the necessary specimens. When the custodian of the remains is a person other than the local authority, the marine employer shall request the custodian to cooperate in obtaining the specimens required under this part.

(b) If the local authority or custodian of the remains declines to cooperate in obtaining the necessary specimens, the marine employer shall provide an explanation of the circumstances on Form CG-2692B (Report of Required Chemical Drug and Alcohol Testing Following a Serious Marine Incident).

§ 4.06–40  Specimen handling and shipping.

(a) The marine employer shall ensure that blood specimens collected in accordance with §§4.06–20 and 4.06–30 are promptly shipped to a testing laboratory qualified to conduct tests on such specimens. A proper chain of custody must be maintained for each specimen from the time of collection through the authorized disposition of the specimen. Blood specimens must be shipped to the laboratory in a cooled condition by any means adequate to ensure delivery within twenty-four (24) hours of receipt by the carrier.

(b) The marine employer shall ensure that the urine specimen collection procedures of §16.310 of this part and the chain of custody requirements of §16.320 are complied with. The marine employer shall ensure that urine specimens required by §§4.06–20 and 4.06–30 are promptly shipped to a laboratory complying with the requirements of 49 CFR part 40. Urine specimens must be shipped by an expeditious means, but need not be shipped in a cooled condition for overnight delivery.
§ 4.06–50 Specimen analysis and follow-up procedures.

(a) Each laboratory will provide prompt analysis of specimens collected under this subpart, consistent with the need to develop all relevant information and to produce a complete analysis report.

(b) Reports shall be sent to the Medical Review Officer meeting the requirements of 49 CFR 40.33, as designated by the marine employer submitting the specimen for testing. Wherever a urinalysis report indicates the presence of a dangerous drug or drug metabolite, the Medical Review Officer shall review the report as required by 49 CFR 40.33 and submit his or her findings to the marine employer. Blood test reports indicating the presence of alcohol shall be similarly reviewed to determine if there is a legitimate medical explanation.

(c) Analysis results which indicate the presence of alcohol, dangerous drugs, or drug metabolites shall not be construed by themselves as constituting a finding that use of drugs or alcohol was the probable cause of a serious marine incident.

[CGD 86–067, 53 FR 47078, Nov. 21, 1988, as amended by CGD 90–053, 58 FR 31107, May 28, 1993]

§ 4.06–60 Submission of reports and test results.

(a) Whenever an individual engaged or employed on a vessel is identified as being directly involved in a serious marine incident, the marine employer shall complete Form CG–2692B (Report of Required Chemical Drug and Alcohol Testing Following a Serious Marine Incident).

(b) When the serious marine incident requires the submission of Form CG–2692 (Report of Marine Casualty, Injury or Death) to the Coast Guard in accordance with §4.05–10, the report required by paragraph (a) of this section shall be appended to Form CG–2692.

(c) In incidents involving discharges of oil or hazardous substances as described in §4.03–2 (b) and (c) of this part, when Form CG–2692 is not required to be submitted, the report required by paragraph (a) of this section shall be submitted to the Commandant or District Commander to whom the CG–2692B was submitted.

(d) Upon receipt of the report of chemical test results, the marine employer shall submit a copy of the test results for each person listed on the CG–2692B to the Commandant or District Commander to whom the CG–2692B was submitted.


Subpart 4.07—Investigations

§ 4.07–1 Commandant or District Commander to order investigation.

(a) The Commandant or District Commander upon receipt of information of a marine casualty or accident, will immediately cause such investigation as may be necessary in accordance with the regulations in this part.

(b) The investigations of marine casualties and accidents and the determinations made are for the purpose of taking appropriate measures for promoting safety of life and property at sea, and are not intended to fix civil or criminal responsibility.

(c) The investigation will determine as closely as possible:

(1) The cause of the accident;

(2) Whether there is evidence that any failure of material (either physical or design) was involved or contributed to the casualty, so that proper recommendations for the prevention of the recurrence of similar casualties may be made;

(3) Whether there is evidence that any act of misconduct, inattention to duty, negligence or willful violation of the law on the part of any licensed or certificated person contributed to the casualty, so that appropriate proceedings against the license or certificate of such person may be recommended and taken under 46 U.S.C. 6301;

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§ 4.07–5

(4) Whether there is evidence that any Coast Guard personnel or any representative or employee of any other government agency or any other person caused or contributed to the cause of the casualty; or,

(5) Whether the accident shall be further investigated by a Marine Board of Investigation in accordance with regulations in subpart 4.09.


§ 4.07–5 Investigating officers, powers of.

(a) An investigating officer investigates each marine casualty or accident reported under §§ 4.05–1 and 4.05–10.

(b) Such investigating officer shall have the power to administer oaths, subpoena witnesses, require persons having knowledge of the subject matter of the investigation to answer questionnaires and require the production of relevant books, papers, documents and other records.

(c) Attendance of witnesses or the production of books, papers, documents or any other evidence shall be compelled by a similar process as in the United States District Court.


§ 4.07–7 Opening statement.

The investigating officer or the Chairman of a Marine Board of Investigation shall open the investigation by announcing the statutory authority for the proceeding and he shall advise parties in interest concerning their rights to be represented by counsel, to examine and cross-examine witnesses, and to call witnesses in their own behalf.


(a) At the conclusion of the investigation the investigating officer shall submit to the Commandant via the Officer in Charge, Marine Inspection, and the District Commander, a full and complete report of the facts as determined by his investigation, together with his opinions and recommendations in the premises. The Officer in Charge, Marine Inspection, and the District Commander shall forward the investigating officer’s report to the Commandant with an endorsement stating:

(1) Approval or otherwise of the findings of fact, conclusions and recommendations;

(2) Any action taken with respect to the recommendations;

(3) Whether or not any action has been or will be taken under part 5 of this subchapter to suspend or revoke licenses or certificates; and,

(4) Whether or not violations of laws or regulations relating to vessels have been reported on Form CG–2636, report of violation of navigation laws.

(b) At the conclusion of the investigation, the investigating officer shall submit the report described in paragraph (a) of this section, to the Commandant via the Merchant Marine Detail Officer or the Officer in Charge, Marine Inspection, and the Commander, Coast Guard MIO Europe for a European port or Commander, Fourteenth Coast Guard for an Asian or Pacific port. The Merchant Marine Detail Officer or the Officer in Charge, Marine Inspection, and Commander, Coast Guard MIO Europe or Commander, Fourteenth Coast Guard District shall forward the investigating officer’s report to the Commandant with the endorsement described in paragraphs (a) (1) through (4) of this section.


§ 4.07–15 Recommendations, action on.

Where the recommendations of an investigating officer are such that their accomplishment is within the authority of the District Commander or any of the personnel under his command, immediate steps shall be taken to put them into effect and his forwarding endorsement shall so indicate.

§ 4.07–20 Transfer of jurisdiction.

When it appears to the District Commander that it is more advantageous to conduct an investigation in a district other than in the district where the casualty was first reported, that officer shall transfer the case to the
Coast Guard, DOT

§ 4.07–25 Testimony of witnesses in other districts, depositions.

When witnesses are available in a district other than the district in which the investigation is being made, testimony or statements shall be taken from witnesses in the other districts by an investigating officer and promptly transmitted to the investigating officer conducting the investigation. Depositions may be taken in the manner prescribed by regulations in subpart 4.12.

§ 4.07–30 Testimony of witnesses under oath.

(a) Witnesses to marine casualties or accidents appearing before an investigating officer may be placed under oath and their testimony may be reduced to writing.

(b) Written statements and reports submitted as evidence by witnesses shall be sworn to before an officer authorized to administer oaths and such statements and/or reports shall be signed.

§ 4.07–35 Counsel for witnesses and parties in interest.

(a) All parties in interest shall be allowed to be represented by counsel, to examine and cross-examine witnesses and to call witnesses in their own behalf.

(b) Witnesses who are not parties in interest may be assisted by counsel for the purpose of advising such witnesses concerning their rights; however, such counsel will not be permitted to examine or cross-examine other witnesses or otherwise participate in the investigation.

§ 4.07–45 Foreign units of Coast Guard, investigation by.

Investigations of marine casualties conducted by foreign units of the Coast Guard shall be in accordance with the regulations in this part and all actions taken in connection with the investigations of such marine casualties entered in the official log(s) of the vessel(s) concerned.

§ 4.07–55 Information to be furnished Marine Board of Investigation.

When a Marine Board of Investigation is convened in accordance with §4.09–1, the investigating officer shall immediately furnish the board with all testimony, statements, reports, documents, papers, a list of witnesses including those whom he has examined, other material which he may have gathered, and a statement of any findings of fact which he may have determined. The preliminary investigation shall cease forthwith and the aforementioned material shall become a part of the Marine Board of Investigation’s record.

Subpart 4.09—Marine Board of Investigation

§ 4.09–1 Commandant to designate.

If it appears that it would tend to promote safety of life and property at sea or would be in the public interest, the Commandant may designate a Marine Board of Investigation to conduct an investigation.

[CGD 76–170, 45 FR 77441, Nov. 24, 1980]

§ 4.09–5 Powers of Marine Board of Investigation.

Any Marine Board of Investigation so designated shall have the power to administer oaths, summon witnesses, require persons having knowledge of the subject matter of the investigation to answer questionnaires, and to require the production of relevant books, papers, documents or any other evidence. Attendance of witnesses or the production of books, papers, documents or any other evidence shall be compelled by a similar process as in the United States District Court. The chairman shall administer all necessary oaths to any witnesses summoned before said Board.

§ 4.09–10 Witnesses, payment of.

Any witness subpoenaed under §4.09–5 shall be paid such fees for his travel and attendance as shall be certified by the chairman of a Marine Board of Investigation or an investigating officer, in accordance with §4.11–10.
§ 4.09–15  Time and place of investigation, notice of; rights of witnesses, etc.

Reasonable notice of the time and place of the investigation shall be given to any person whose conduct is or may be under investigation and to any other party in interest. All parties in interest shall be allowed to be represented by counsel, to cross-examine witnesses, and to call witnesses in their own behalf.

§ 4.09–17  Sessions to be public.

(a) All sessions of a Marine Board of Investigation for the purpose of obtaining evidence shall normally be open to the public, subject to the provision that the conduct of any person present shall not be allowed to interfere with the proper and orderly functioning of the Board. Sessions will not be open to the public when evidence of a classified nature or affecting national security is to be received.

§ 4.09–20  Record of proceedings.

The testimony of witnesses shall be transcribed and a complete record of the proceedings of a Marine Board of Investigation shall be kept. At the conclusion of the investigation a written report shall be made containing findings of fact, opinions, and recommendations to the Commandant for his consideration.

§ 4.09–25  U.S. Attorney to be notified.

The recorder of a Marine Board of Investigation shall notify the United States Attorney for the District in which the Marine Board of Investigation is being conducted of the nature of the casualty under investigation and time and place the investigation will be made.

§ 4.09–30  Action on report.

Upon approval of the report of a Marine Board of Investigation the Commandant will require to be placed into effect such recommendations as he may deem necessary for the better improvement and safety of life and property at sea.

§ 4.09–35  Preferment of charges.

(a) If in the course of an investigation by a Marine Board there appears probable cause for the preferment of charges against any licensed or certificated personnel, the Marine Board shall, either during or immediately following the investigation and before the witnesses have dispersed, apprise the District Commander of such evidence for possible action in accordance with part 5 of this subchapter, without waiting for the approval of the report by the Commandant. Such action or proceedings shall be independent and apart from any other action which may be later ordered by the Commandant or taken by other authorities.

Subpart 4.11—Witnesses and Witness Fees

§ 4.11–1  Employees of vessels controlled by Army or Navy as witnesses.

No officer, seaman, or other employee of any public vessel controlled by the Army or Navy (not including the Coast Guard) of the United States, shall be summoned or otherwise required to appear as a witness in connection with any investigation or other proceeding without the consent of the Government agency concerned.

§ 4.11–5  Coercion of witnesses.

Any attempt to coerce any witness or to induce him to testify falsely in connection with a shipping casualty, or to induce any witness to leave the jurisdiction of the United States, is punishable by a fine of $5,000.00 or imprisonment for one year, or both such fine and imprisonment.

§ 4.11–10  Witness fees and allowances.

Witness fees and allowances are paid in accordance with 46 CFR 5.401.

Subpart 4.12—Testimony by Interrogatories and Depositions

§ 4.12–1 Application, procedure, and admissibility.

(a) Witnesses shall be examined orally, except that for good cause shown, testimony may be taken by deposition upon application of any party in interest or upon the initiative of the investigating officer or Marine Board of Investigation.

(b) Applications to take depositions shall be in writing setting forth the reasons why such deposition should be taken, the name and address of the witness, the matters concerning which it is expected the witness will testify, and the time and place proposed for the taking of the deposition. Such application shall be made to an investigating officer or the Marine Board of Investigation prior to or during the course of the proceedings.

(c) The investigating officer or Marine Board of Investigation, shall, upon receipt of the application, if good cause is shown, make and serve upon the parties an order which will specify the name of the witness whose deposition is to be taken, the name and place of the taking of such deposition and shall contain a designation of the officer before whom the witness is to testify. Such deposition may be taken before any officer authorized to administer oaths by the laws of the United States.

(d) The party desiring the deposition may submit a list of interrogatories to be propounded to the absent witness; then the opposite party after he has been allowed a reasonable time for this purpose, may submit a list of cross-interrogatories. If either party objects to any question of the adversary party, the matter shall be presented to the investigating officer or Marine Board of Investigation for a ruling. Upon agreement of the parties on a list of interrogatories and cross-interrogatories (if any) the list of interrogatories and cross-interrogatories (if any) shall be forwarded to the officer designated to take such deposition. This officer will cause the subpoena to be served personally on the witness. After service the subpoena shall be endorsed and returned to the investigating officer or Marine Board of Investigation.

(f) When the deposition has been duly executed it shall be returned to the investigating officer or Marine Board of Investigation. As soon as practicable after the receipt of the deposition the investigating officer or Marine Board of Investigation shall present it to the parties for their examination. The investigating officer or Marine Board of Investigation shall rule on the admissibility of the deposition or any part thereof and of any objection offered by either party thereto.

Coast Guard, DOT

Subpart 4.13—Availability of Records

§ 4.13–1 Public availability of records.

Coast Guard records are made available to the public in accordance with 49 CFR part 7.

[CGD 73–43R, 40 FR 13501, Mar. 27, 1975]

Subpart 4.19—Construction of Regulations and Rules of Evidence

§ 4.19–1 Construction of regulations.

The regulations in this part shall be liberally construed to insure just, speedy, and inexpensive determination of the issues presented.

§ 4.19–5 Adherence to rules of evidence.

As hearings under this part are administrative in character, strict adherence to the formal rules of evidence is not imperative. However, in the interest of orderly presentation of the facts of a case, the rules of evidence should be observed as closely as possible.
§ 4.21—Computation of Time

§ 4.21—Computation of time.

The time, within which any act, provided by the regulation in this subchapter, or an order of the Marine Board of Investigation is to be done, shall be computed by excluding the first day and including the last unless the last day is Sunday or a legal holiday, in which case the time shall extend to and include the next succeeding day that is not a Sunday or legal holiday: Provided, however, That where the time fixed by the regulations in this subchapter or an order of the Board is five days or less all intervening Sundays or legal holidays, other than Saturdays, shall be excluded.

Subpart 4.23—Evidence of Criminal Liability

§ 4.23—Evidence of criminal liability.

If as a result of any investigation or other proceeding conducted hereunder, evidence of criminal liability on the part of any licensed officer or certificated person or any other person is found, such evidence shall be referred to the U.S. Attorney General.

Subpart 4.40—Coast Guard—National Transportation Safety Board Marine Casualty Investigations

SOURCE: CGD 76-149, 42 FR 61200, Dec. 1, 1977, unless otherwise noted.

§ 4.40—Purpose.

This subpart prescribes the joint regulations of the National Transportation Safety Board and the Coast Guard for the investigation of marine casualties.

[CGD 82-034, 47 FR 45882, Oct. 14, 1992]

§ 4.40—Relationship to Coast Guard marine investigation regulations and procedures.

(a) The Coast Guard's responsibility to investigate marine casualties is not eliminated nor diminished by the regulations in this subpart.

(b) In those instances where the National Transportation Safety Board conducts an investigation in which the Coast Guard also has responsibility under 46 U.S.C. Chapter 63, the proceedings are conducted independently but so as to avoid duplication as much as possible.

(1) The casualty is a major marine casualty; or
(2) The casualty involves a public and a non-public vessel and at least one fatality or $75,000 in property damage; or
(3) The casualty involves a Coast Guard and a non-public vessel and at least one fatality or $75,000 in property damage; or
(4) The casualty is a major marine casualty which involves significant safety issues relating to Coast Guard safety functions, e.g., search and rescue, aids to navigation, vessel traffic systems, commercial vessel safety, etc.

c) The Commandant notifies the Board of a casualty described in paragraph (b) of this section.

§ 4.40-15 Marine casualty investigation by the Board.
(a) The Board may conduct an investigation under the Act of any major marine casualty or any casualty involving public and non-public vessels. Where the Board determines it will convene a hearing in connection with such an investigation, the Board's rules of practice for transportation accident hearings in 49 CFR part 845 shall apply.
(b) The Board shall conduct an investigation under the Act when:
(1) The casualty involves a Coast Guard and a non-public vessel and at least one fatality or $75,000 in property damage; or
(2) The Commandant and the Board agree that the Board shall conduct the investigation, and the casualty involves a public and a non-public vessel and at least one fatality or $75,000 in property damage; or
(3) The Commandant and the Board agree that the Board shall conduct the investigation, and the casualty is a major marine casualty which involves significant safety issues relating to Coast Guard safety functions.
[CGD 82-034, 47 FR 45882, Oct. 14, 1982]

§ 4.40-20 Cause or probable cause determinations from Board investigation.
After an investigation conducted by the Board under §4.40-15, the Board determines cause or probable cause and issues a report of that determination.

§ 4.40-25 Coast Guard marine casualty investigation for the Board.
(a) If the Board does not conduct an investigation under §4.40-15 (a), (b) (2) or (3), the Coast Guard, at the request of the Board, may conduct an investigation under the Act unless there is an allegation of Federal Government misfeasance or nonfeasance.
(b) The Board will request the Coast Guard to conduct an investigation under paragraph (a) of this section within 48 hours of receiving notice under §4.40-10(c).
(c) The Coast Guard will advise the Board within 24 hours of receipt of a request under paragraph (b) of this section whether the Coast Guard will conduct an investigation under the Act.
[CGD 82-034, 47 FR 45882, Oct. 14, 1982]

§ 4.40-30 Procedures for Coast Guard investigation.
(a) The Coast Guard conducts an investigation under §4.40-25 using the procedures in 46 CFR 4.01-1 through 4.23-1.
(b) The Board may designate a person or persons to participate in every phase of an investigation, including on scene investigation, that is conducted under the provisions of subpart 4.40-25 of this part.
(c) Consistent with Coast Guard responsibility to direct the course of the investigation, the person or persons designated by the Board under paragraph (b) of this section may:
(1) Make recommendations about the scope of the investigations.
(2) Call and examine witnesses.
(3) Submit or request additional evidence.
(d) The Commandant provides a record of the proceedings to the Board of an investigation of a major marine casualty under paragraph (a) of this section.
(e) The Board, under the Act, makes its determination of the facts, conditions, circumstances, and the cause or probable cause of a major marine casualty using the record of the proceedings provided by the Commandant under paragraph (d) of this section, and
any additional evidence the Board may acquire under its own authority.
(f) An investigation by the Coast Guard under this section is both an investigation under the Act and under 46 U.S.C. Chapter 63.

§ 4.40–35 Records of the Coast Guard and the Board.
(a) Records of the Coast Guard made under § 4.40–30 are available to the public under 49 CFR part 7.
(b) Records of the Board made under §§ 4.40–20 and 4.40–30 are available to the public under 49 CFR part 801.

PART 5—MARINE INVESTIGATION REGULATIONS—PERSONNEL ACTION

Subpart A—Purpose
Sec.
5.3 Purpose of regulations.
5.5 Purpose of administrative actions.

Subpart B—Definitions
5.15 Investigating Officer.
5.19 Administrative Law Judge.
5.27 Misconduct.
5.29 Negligence.
5.31 Incompetence.
5.33 Violation of law or regulation.
5.35 Conviction for a dangerous drug law violation, use of, or addiction to the use of dangerous drugs.

Subpart C—Statement of Policy and Interpretation
5.51 Construction of regulations.
5.55 Time limitations for service of a complaint.
5.57 Acting under authority of license, certificate or document.
5.59 Offenses for which revocation of licenses, certificates or documents is mandatory.
5.61 Acts or offenses for which revocation of licenses, certificates, or documents is sought.
5.65 Commandant’s decisions in appeal or review cases.
5.67 Physician–patient privilege.
5.69 Evidence of criminal liability.
5.71 Maritime labor disputes.

Subpart D—Investigations
5.101 Conduct of investigations.

46 CFR Ch. I (10–1–99 Edition)

5.103 Powers of investigating officer.
5.105 Course of action available.
5.107 Service of complaints.

Subpart E—Deposit or Surrender of License, Certificate or Document
5.201 Voluntary deposits in event of mental or physical incompetence.
5.203 Voluntary surrender to avoid hearing.
5.205 Return or issuance of a license, certificate of registry, or merchant mariners document.

Subpart F—Subpoenas
5.301 Issuance of subpoenas.
5.303 Service of subpoenas on behalf of the respondent.
5.305 Quashing a subpoena.
5.307 Enforcement.
5.309 Proof of service.

Subpart G—Witness Fees
5.401 Payment of witness fees and allowances.

Subpart H—Hearings
5.501 General.
5.521 Verification of license, certificate or document.
5.567 Order.
5.569 Selection of an appropriate order.

Subpart I [Reserved]

Subpart J—Appeals
5.701 Appeals in general.
5.703 Stay of effect of decision and order of Administrative Law Judge on appeal to the Commandant; temporary license, certificate, or document.
5.713 Appeals to the National Transportation Safety Board.
5.715 Stay of effect of Decision of the Commandant on Appeal: Temporary document and/or license pending appeal to National Transportation Safety Board.

Subpart K—Review of Administrative Law Judge’s Decisions in Cases Where Charges Have Been Found Proven
5.801 Commandant’s review.
5.803 Record for decision on review.
5.805 Action on review.
5.807 Commandant’s Decision on Review.

Subpart L—Issuance of New Licenses, Certificates or Documents After Revocation or Surrender
5.901 Time limitations.
5.903 Application procedures.
Subpart A—Purpose

§ 5.3 Purpose of regulations.

The regulations in this part establish policies for administrative actions against mariners’ licenses, certificates or documents issued by the Coast Guard.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985, as amended by USCG-1998-3472, 64 FR 28075, May 24, 1999]

§ 5.5 Purpose of administrative actions.

The administrative actions against a license, certification or document are remedial and not penal in nature. These actions are intended to help maintain standards for competence and conduct essential to the promotion of safety at sea.

Subpart B—Definitions

§ 5.15 Investigating Officer.

An investigating officer is a Coast Guard official designated by the Commandant, District Commander, or the Officer In Charge, Marine Inspection, for the purpose of conducting investigations of marine casualties or matters pertaining to the conduct of persons issued a license, certificate or document by the Coast Guard. An Officer in Charge, Marine Inspection is an investigating officer without further designation.

§ 5.19 Administrative Law Judge.

(a) An Administrative Law Judge shall mean any person designated by the Commandant pursuant to the Administrative Procedure Act (5 U.S.C. 556(b)) for the purpose of conducting hearings arising under 46 U.S.C. 7703 or 7704.

(b) The Commandant has delegated to Administrative Law Judges the authority to admonish, suspend with or without probation or revoke a license, certificate or document issued to a person by the Coast Guard under any navigation or shipping law.

§ 5.27 Misconduct.

Misconduct is human behavior which violates some formal, duly established rule. Such rules are found in, among other places, statutes, regulations, the common law, the general maritime law, a ship’s regulation or order, or shipping articles and similar sources. It is an act which is forbidden or a failure to do that which is required.

§ 5.29 Negligence.

Negligence is the commission of an act which a reasonable and prudent person of the same station, under the same circumstances, would not commit, or the failure to perform an act which a reasonable and prudent person of the same station, under the same circumstances, would not fail to perform.

§ 5.31 Incompetence.

Incompetence is the inability on the part of a person to perform required duties, whether due to professional deficiencies, physical disability, mental incapacity, or any combination thereof.

§ 5.33 Violation of law or regulation.

Where the proceeding is based exclusively on that part of title 46 U.S.C. section 7703, which provides as a basis for suspension or revocation a violation or failure to comply with 46 U.S.C. subtitle II, a regulation prescribed under that subtitle, or any other law or regulation intended to promote marine safety or protect navigable waters, the complaint must state the specific statute or regulation by title and section number, and the particular manner in which it was allegedly violated.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985, as amended by USCG-1998-3472, 64 FR 28075, May 24, 1999]

§ 5.35 Conviction for a dangerous drug law violation, use of, or addiction to the use of dangerous drugs.

Where the proceeding is based exclusively on the provisions of title 46 U.S.C. 7704, the complaint will allege...
§ 5.51 Construction of regulations.

The regulations in this part shall be construed so as to obtain a just, speedy, and economical determination of the issues presented.

§ 5.55 Time limitations for service of a complaint.

(a) The time limitations for service of a complaint upon the holder of a license, certificate or document are as follows:

(1) When based exclusively on 46 U.S.C. 7704, service shall be within 10 years after the date of conviction, or at anytime if the person charged is a user of or addicted to the use of a dangerous drug.

(2) For one of the misconduct offenses specified in §5.59(a) or §5.61(a), service shall be within five years after commission of the offense alleged therein.

(3) For an act or offense not otherwise provided for, the service shall be within three years after the commission of the act or offense alleged therein.

(b) When computing the period of time specified in paragraphs (a)(2) and (3) of this section there shall be excluded any period or periods of time when the respondent could not attend a hearing or be served charges by reason of being outside of the United States or by reason of being in prison or hospitalized.

§ 5.57 Acting under authority of license, certificate or document.

(a) A person employed in the service of a vessel is considered to be acting under the authority of a license, certificate or document when the holding of such license, certificate or document is:

(1) Required by law or regulation; or

(2) Required by an employer as a condition for employment.

(b) A person is considered to be acting under the authority of the license, certificate or document while engaged in official matters regarding the license, certificate or document. This includes, but is not limited to, such acts as applying for renewal of a license, taking examinations for upgrading or endorsements, requesting duplicate or replacement licenses, certificates or documents, or when appearing at a hearing under this part.

(c) A person does not cease to act under the authority of a license, certificate or document while on authorized or unauthorized shore leave from the vessel.

§ 5.59 Offenses for which revocation of licenses, certificates or documents is mandatory.

An Administrative Law Judge enters an order revoking a respondent's license, certificate or document when—

(a) A charge of misconduct for wrongful possession, use, sale, or association with dangerous drugs is found proved. In those cases involving marijuana, the Administrative Law Judge may enter an order less than revocation when satisfied that the use, possession or association, was the result of experimentation by the respondent and that the respondent has submitted satisfactory evidence that he or she is cured of such use and that the possession or association will not recur.

(b) The respondent has been a user of, or addicted to the use of, a dangerous drug, or has been convicted for a violation of the dangerous drug laws, whether or not further court action is pending, and such charge is found proved. A conviction becomes final when no issue of law or fact determinative of the respondent's guilt remains to be decided.
§ 5.61 Acts or offenses for which revocation of licenses, certificates, or documents is sought.

(a) An investigating officer seeks revocation of a respondent's license, certificate or document when one of the following acts or offenses is found proved:
   (1) Assault with a dangerous weapon.
   (2) Misconduct resulting in loss of life or serious injury.
   (3) Rape or sexual molestation.
   (4) Murder or attempted murder.
   (5) Mutiny.
   (6) Perversion.
   (7) Sabotage.
   (8) Smuggling of aliens.
   (9) Incompetence.
   (10) Interference with master, ship's officers, or government officials in performance of official duties.
   (11) Wrongful destruction of ship's property.

(b) An investigating officer may seek revocation of a respondent's license, certificate or document when the circumstances of an act or offense found proved or consideration of the respondent's prior record indicates that permitting such person to serve under the license, certificate or document would be clearly a threat to the safety of life or property, or detrimental to good discipline.

§ 5.65 Commandant's decisions in appeal or review cases.

The decisions of the Commandant in cases of appeal or review of decisions of Administrative Law Judges are officially noticed and the principles and policies enunciated therein are binding upon all Administrative Law Judges, unless they are modified or rejected by competent authority.

§ 5.67 Physician-patient privilege.

For the purpose of these proceedings, the physician-patient privilege does not exist between a physician and a respondent.

§ 5.69 Evidence of criminal liability.

Evidence of criminal liability discovered during an investigation or hearing conducted pursuant to this part will be referred to the Attorney General's local representative or other appropriate law enforcement authority having jurisdiction over the matter.

§ 5.71 Maritime labor disputes.

Under no circumstances will the Coast Guard exercise its authority for the purpose of favoring any party to a maritime labor controversy. However, if the situation affecting the safety of the vessel or persons on board is presented, the matter shall be thoroughly investigated and when a violation of existing statutes or regulations is indicated, appropriate action will be taken.

Subpart D—Investigations

§ 5.101 Conduct of investigations.

(a) Investigations may be initiated in any case in which it appears that there are reasonable grounds to believe that the holder of a license, certificate or document issued by the Coast Guard may have:
   (1) Committed an act of incompetence, misconduct, or negligence while acting under the authority of a license, certificate or document;
   (2) Violated or failed to comply with subtitle II of title 46, U.S.C., a regulation prescribed under this subtitle, or any other law or regulations intended to promote marine safety or to protect the navigable waters, while acting under the authority of a license, certificate or document;
   (3) Been convicted of a dangerous drug law violation, or has been a user of, or addicted to the use of, a dangerous drug, so as to be subject to the provisions of 46 U.S.C. 7704.
   (b) In order to promote full disclosure and facilitate determinations as to the cause of marine casualties, no admission made by a person during an investigation under this part or part 4 of this title may be used against that person in a proceeding under this part, except for impeachment.

§ 5.103 Powers of investigating officer.

During an investigation, the investigating officer may administer oaths, issue subpoenas in accordance with subpart F of this title, and require persons having knowledge of the subject matter of the investigation to answer questions.
§ 5.105 Course of action available.

During an investigation, the investigating officer may take appropriate action as follows:

(a) Issue complaint.
(b) Accept voluntary surrender of a license, certificate or document.
(c) Accept voluntary deposit of a license, certificate or document.
(d) Refer the case to others for further action. The investigating officer may refer the case to the Commandant or to an Officer in Charge, Marine Inspection, at any port for completion of administrative action if an adequate basis for action is found and the person under investigation and/or witnesses are not locally available.
(e) Give a written warning. The investigating officer may give a warning to any person holding a license, certificate or document. Refusal to accept the written warning will normally result in a withdrawal of the warning and the preferral of charges. An unrejected warning will become a part of the person’s record.
(f) Close the case.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985, as amended by USCG-1998-3472, 64 FR 28075, May 24, 1999]

§ 5.107 Service of complaints.

(a) When the investigating officer determines that an S&R proceeding is appropriate, he or she shall prepare and serve a complaint in accordance with 33 CFR part 20.

(b) When the investigating officer serves the complaint, he or she shall also advise the respondent—

(1) Of the nature of S&R proceedings and their possible results;

(2) Of the right to be represented at the hearing by another person, who may, but need not, be a lawyer;

(3) Of the right to obtain witnesses, records, and other evidence by subpoena; and

(4) That failure or refusal to answer the complaint or to appear at the time, date, and place specified for the hearing may result in a finding of default, which will constitute an admission of the facts alleged in the complaint and the waiver of his or her right to a hearing.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985, as amended by USCG-1998-3472, 64 FR 28075, May 24, 1999]

Subpart E—Deposit or Surrender of License, Certificate or Document

§ 5.201 Voluntary deposits in event of mental or physical incompetence.

(a) A holder may deposit a license, certificate, or document with the Coast Guard in any case where there is evidence of mental or physical incompetence. A voluntary deposit is accepted on the basis of a written agreement, the original of which will be given to the holder, which specifies the conditions upon which the Coast Guard will return the license, certificate, or document to the holder.

(b) Where the mental or physical incompetence of a holder of a license, certificate, or document is caused by use of or addiction to dangerous drugs, a voluntary deposit will only be accepted contingent on the following circumstances:

(1) The holder is enrolled in a bona fide drug abuse rehabilitation program;

(2) The holder’s incompetence did not cause or contribute to a marine casualty;

(3) The incompetence was reported to the Coast Guard by the individual or any other person and was not discovered as a result of a Federal, State or local government investigation; and

(4) The holder has not voluntarily deposited or surrendered a license, certificate, or document, or had a license, certificate, or document revoked for a drug related offense on a prior occasion.

(c) Where the mental or physical incompetence of a holder of a license, certificate, or document is caused by use or addiction to alcohol, a voluntary deposit will only be accepted contingent on the following circumstances:

(1) The holder is enrolled in a bona fide alcohol abuse rehabilitation program;

(2) The holder’s incompetence did not cause or contribute to a marine casualty; and

(3) The incompetence was reported to the Coast Guard by the individual or any other person and was not discovered as a result of a Federal, State, or local government investigation.

(d) Where the conditions of paragraphs (b) and (c) of this section are not met, the holder may only surrender
such license, certificate, or document in accordance with §5.203.
[CGD 84–099, 52 FR 47535, Dec. 14, 1987]

§ 5.203 Voluntary surrender to avoid hearing.

(a) Any holder may surrender a license, certificate or document to the Coast Guard in preference to appearing at a hearing.

(b) A holder voluntarily surrendering a license, certificate or document shall sign a written statement containing the stipulations that:
   (1) The surrender is made voluntarily in preference to appearing at a hearing;
   (2) All rights to the license, certificate or document surrendered are permanently relinquished; and,
   (3) Any rights with respect to a hearing are waived.

(c) A voluntary surrender of a license, certificate or document to an investigating officer in preference to appearing at a hearing is not to be accepted by an investigating officer unless the investigating officer is convinced that the holder fully realizes the effect of such surrender.

§ 5.205 Return or issuance of a license, certificate of registry, or merchant mariners document.

(a) A person may request the return of a voluntarily deposited license, certificate, or document at any time, provided he or she can demonstrate a satisfactory rehabilitation or cure of the condition which caused the incompetence; has complied with any other conditions of the written agreement executed at the time of deposit; and complies with the physical and professional requirements for issuance of a license, certificate, or document.

(b) Where the voluntary deposit is based on incompetence due to drug abuse, the deposit agreement shall provide that the license, certificate, or document will not be returned until the person:
   (1) Successfully completes a bona fide drug abuse rehabilitation program;
   (2) Demonstrates complete non-association with dangerous drugs for a minimum of six months after completion of the rehabilitation program; and
   (3) Is actively participating in a bona fide drug abuse monitoring program.

(c) Where the voluntary deposit is based on incompetence due to alcohol abuse, the deposit agreement shall provide that the license, certificate, or document will not be returned until the person:
   (1) Successfully completes a bona fide alcohol abuse rehabilitation program; and
   (2) Is actively participating in a bona fide alcohol abuse monitoring program.

(d) The voluntary surrender of a license, certificate, or document must comply with provisions of §§5.901 and 5.903 when applying for the issuance of a new license, certificate, or document.
[CGD 84–099, 52 FR 47535, Dec. 14, 1987]

Subpart F—Subpoenas

§ 5.301 Issuance of subpoenas.

(a) Every subpoena shall command the person to whom it is directed to appear at a specified time and place to give testimony or to produce books, papers, documents, or any other evidence, which shall be described with such particularity as necessary to identify what is desired.

(b) The investigating officer may issue subpoenas for the attendance of witnesses or for the production of books, papers, documents, or any other relevant evidence needed by the investigating officer or by the respondent.

(c) After charges have been served upon the respondent the Administrative Law Judge may, either on the Administrative Law Judge’s own motion or the motion of the investigating officer or respondent, issue subpoenas for the attendance and the giving of testimony by witnesses or for the production of books, papers, documents, or any other relevant evidence.

§ 5.303 Service of subpoenas on behalf of the respondent.

Service of subpoenas issued on behalf of the respondent is the responsibility of the respondent. However, if the Administrative Law Judge finds that the respondent or respondent’s counsel is physically unable to effect the service,
§ 5.305 Quashing a subpoena.

Any person subpoenaed to appear to produce evidence at a hearing may request that the subpoena be quashed or modified using the procedures in 33 CFR 20.609.

[USCG-1998-3472, 64 FR 28075, May 24, 1999]

§ 5.307 Enforcement.

Upon application and for good cause shown, or upon its own initiative, the Coast Guard will seek judicial enforcement of subpoenas issued by investigating officers or Administrative Law Judges. This is done by making application to the United States District Court, through the office of the appropriate U.S. Attorney, to issue an order compelling the attendance of, and/or giving of testimony by, witnesses, or for the production of books, papers, documents, or any other relevant evidence.

[USCG-1998-3472, 64 FR 28075, May 24, 1999]

§ 5.309 Proof of service.

(a) The person serving a subpoena shall make a written statement setting forth the date, time and manner of service and shall return such report with or on a copy of the subpoena to the investigating officer or Administrative Law Judge who issued it. In case of failure to make service of a subpoena, the person assigned to serve such subpoena shall make a written statement setting forth the reasons the subpoena was not served. The statement should be placed on the subpoena or attached to it and returned to the investigating officer or Administrative Law Judge who issued the subpoena.

(b) When service of a subpoena is made by certified mail with return receipt to be signed by the addressee only, the person mailing the subpoena shall make a written statement on a copy of the subpoena or attached to it, setting forth the date, time and location of the post office where mailed, the post office number assigned thereto. If delivered, the receipt requested shall be returned, by the person receiving the receipt, to the investigating officer or Administrative Law Judge who issued the subpoena. In case the subpoena is not delivered, any information reported by the post office regarding non-delivery shall be given to the investigating officer or Administrative Law Judge who issued the subpoena.

Subpart G—Witness Fees

§ 5.401 Payment of witness fees and allowances.

(a) Duly subpoenaed witnesses, other than Federal government employees, may apply for payment of their attendance as witnesses at an investigation or hearing conducted pursuant to this part by submitting a request for payment (Standard Form 1157) accompanied by any necessary receipts.

(b) Fees and allowances will be paid as provided by 28 U.S.C. 1821, except that a person called to testify as an expert witness may be paid a higher fee to be fixed by the District Commander.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985; 50 FR 35228, Aug. 30, 1985]

Subpart H—Hearings

§ 5.501 General.

A hearing concerning the suspension or revocation of a merchant mariner's license, certificate of registry, or document is a formal adjudication under the Administrative Procedure Act (APA) (5 U.S.C. 551, et seq.). It is presided over by, and conducted under the exclusive control of, an ALJ in accordance with applicable requirements in the APA, the rules in this part, and the rules of administrative practice at 33 CFR part 20. The ALJ shall regulate and conduct the hearing so as to bring out all the relevant and material facts and to ensure a fair and impartial hearing.

[USCG-1998-3472, 64 FR 28075, May 24, 1999]
§ 5.521 Verification of license, certificate or document.

(a) The Administrative Law Judge shall require the respondent to produce and present at the opening of the hearing, and on each day the hearing is in session thereafter, all valid licenses, certificates, and/or documents issued by the Coast Guard to the respondent. In the event that the respondent alleges that such license, certificate or document has been lost, misplaced, stolen, destroyed, or is otherwise beyond his ability to produce, the respondent shall execute a lost document affidavit (Form CG-4363). The Administrative Law Judge shall warn the respondent that a willful misstatement of any material item in such affidavit is punishable as a violation of a Federal criminal statute. (See 18 U.S.C. 1001).

(b) When a hearing is continued or delayed, the Administrative Law Judge returns the license, certificate, or document to the respondent: unless a prima facie case has been established that the respondent committed an act or offense which shows that the respondent’s service on a vessel would constitute a definite danger to public health, interest or safety at sea.

§ 5.567 Order.

(a) The Administrative Law Judge enters an order which recites the disposition of the case. When the finding is not proved, the Administrative Law Judge issues an order dismissing the proceeding with or without prejudice to refile. When the finding is proved, the Administrative Law Judge may order an admonition, suspension with or without probation, or revocation.

(b) The order is directed against all licenses, certificates or documents, except that in cases of negligence or professional incompetence, the order is made applicable to specific licenses, certificates or documents. If the Administrative Law Judge determines that the respondent is professionally incompetent in the grade of the license, certificate or document held, but is considered competent in a lower grade, the license, certificate or document may be revoked and the issuance of one of a lower grade ordered.

(c) An order must specify whether the license, certificate or document affected is:

1. Revoked;
2. Suspended outright for a specified period after surrender;
3. Suspended for a specified period, but placed on probation for a specific period; or
4. Suspended outright for a specified period, followed by a specified period of suspension on probation.

(d) The order will normally state, that the license, certificate or document is to be surrendered to the Coast Guard immediately, if the order is one of revocation or includes a period of outright suspension. In cases involving special circumstances, the order may provide for surrender on a certain date.

(e) The time of any period of outright suspension ordered does not commence until the license, certificate or document is surrendered to the Coast Guard. The time of any period of suspension on probation begins at the end of any period of outright suspension or the effective date of the order if there is no outright suspension.

§ 5.569 Selection of an appropriate order.

(a) This section addresses orders in a general manner. The selection of an appropriate order is the responsibility of the Administrative Law Judge, subject to appeal and review. The investigating officer and the respondent may suggest an order and present argument in support of this suggestion during the presentation of aggravating or mitigating evidence.

(b) Except for acts or offenses for which revocation is mandatory, factors which may affect the order include:

1. Remedial actions which have been undertaken independently by the respondent;
2. Prior record of the respondent, considering the period of time between prior acts and the act or offense for which presently charged is relevant; and
§5.701

(3) Evidence of mitigation or aggravation.

(c) After an order of revocation is entered, the respondent will be given an opportunity to present relevant material on the record for subsequent consideration by the special board convened in the event an application is filed in accordance with subpart L of this part.

(d) Table 5.569 is for the information and guidance of Administrative Law Judges and is intended to promote uniformity in orders rendered. This table should not affect the fair and impartial adjudication of each case on its individual facts and merits. The orders are expressed by a range, in months of outright suspension, considered appropriate for the particular act or offense prior to considering matters in mitigation or aggravation. For instance, without considering other factors, a period of two to four months outright suspension is considered appropriate for failure to obey a master’s written instructions. An order within the range would not be considered excessive. Mitigating or aggravating factors may make an order greater or less than the given range appropriate. Orders for repeat offenders will ordinarily be greater than those specified.

**TABLE 5.569—SUGGESTED RANGE OF AN APPROPRIATE ORDER**

<table>
<thead>
<tr>
<th>Type of offense</th>
<th>Range of order (in months)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Misconduct:</td>
<td></td>
</tr>
<tr>
<td>Failure to obey master's/ship officer's order.</td>
<td>1–3.</td>
</tr>
<tr>
<td>Failure to comply with U.S. law or regulations.</td>
<td>1–3.</td>
</tr>
<tr>
<td>Possession of intoxicating liquor.</td>
<td>1–4.</td>
</tr>
<tr>
<td>Failure to obey master’s written instruction.</td>
<td>2–4.</td>
</tr>
<tr>
<td>Improper performance of duties related to vessel safety.</td>
<td>2–5.</td>
</tr>
<tr>
<td>Failure to join vessel (required crew member).</td>
<td>2–6.</td>
</tr>
<tr>
<td>Failure to perform duties related to vessel safety.</td>
<td>3–6.</td>
</tr>
<tr>
<td>Theft</td>
<td>3–6.</td>
</tr>
<tr>
<td>Violent acts against other persons (injury).</td>
<td>4–Revocation.</td>
</tr>
<tr>
<td>Use, possession, or sale of dangerous drugs.</td>
<td>Revocation (Note: see §5.59).</td>
</tr>
<tr>
<td>Negligence:</td>
<td></td>
</tr>
<tr>
<td>Negligently performing duties related to vessel navigation.</td>
<td>2–6.</td>
</tr>
</tbody>
</table>

(46 CFR Ch. I (10–1–99 Edition))

Subpart J—Appeals

§5.701 Appeals in general.

A party may appeal the decision of an ALJ under the procedures in subpart J of 33 CFR part 20. A party may appeal only the following issues:

(a) Whether each finding of fact rests on substantial evidence.

(b) Whether each conclusion of law accords with applicable law, precedent, and public policy.

(c) Whether the ALJ committed any abuses of discretion.

(d) The ALJ’s denial of a motion for his or her disqualification.

§5.707 Stay of effect of decision and order of Administrative Law Judge on appeal to the Commandant; temporary license, certificate, or document.

(a) A person who has appealed from a decision suspending outright or revoking a license, certificate or document, except for revocation resulting from an offense enumerated in §5.59, may file a written request for a temporary license, certificate or document. This request must be submitted to the Administrative Law Judge who presided over the case, or to any Officer in Charge,
Coast Guard, DOT § 5.715

Marine Inspection for forwarding to the Administrative Law Judge.

(b) Action on the request is taken by the Administrative Law Judge unless the hearing transcript has been forwarded to the Commandant, in which case, the request is forwarded to the Commandant for final action.

(c) A determination as to the request will take into consideration whether the service of the individual is compatible with the requirements for safety at sea and consistent with applicable laws. If one of the offenses enumerated in § 5.61(a) has been found proved, the continued service of the appellant will be presumed not compatible with safety at sea, subject to rebuttal by the appellant. A temporary document or license may be denied for that reason alone.

(d) All temporary documents will provide that they expire not more than six months after issuance or upon service of the Commandant’s decision on appeal, whichever occurs first. If a temporary document expires before the Commandant’s decision is rendered, it may be renewed, if authorized by the Commandant.

(e) If the request for a temporary document is denied by the Administrative Law Judge, the individual may appeal the denial, in writing, to the Commandant within 30 days after notification of such denial. Any decision by the Commandant to deny is the final agency action.

(f) Copies of the temporary documents issued become a part of the record on appeal.

§ 5.713 Appeals to the National Transportation Safety Board.

(a) The rules of procedure for appeals to the National Transportation Safety Board from decisions of the Commandant, U.S. Coast Guard, affirming orders of suspension or revocation of licenses, certificates, or documents are in 49 CFR part 825. These rules give the party adversely affected by the Commandant’s decision 10 days after service upon him or his attorney of the Commandant’s decision to file a notice of appeal with the Board.

(b) In all cases under this part which are appealed to the National Transportation Safety Board under 49 CFR part 825, the Chief Counsel of the Coast Guard is designated as the representative of the Commandant for service of notices and appearances. Communications should be addressed to Commandant (G-L), U.S. Coast Guard, 2100 2nd St. SW., Washington, DC 20593.

(c) In cases before the National Transportation Safety Board the Chief Counsel of the Coast Guard may be represented by others designated of counsel.

§ 5.715 Stay of effect of Decision of the Commandant on Appeal: Temporary document and/or license pending appeal to National Transportation Safety Board.

(a) A Decision of the Commandant on Appeal affirming an order of revocation, except a revocation resulting from an offense enumerated under § 5.59 or suspension that is not placed entirely on probation, which is appealed to the National Transportation Safety Board, may be stayed if, in the Commandant’s opinion, the service of the appellant on board a vessel at that time or for the indefinite future would be compatible with the requirements of safety at sea and consistent with applicable laws. If one of the offenses enumerated in § 5.61(a) has been found proved, the continued service of the appellant will be presumed not compatible with safety at sea, subject to rebuttal by the appellant; in cases of offenses under § 5.61(a), a temporary document or license may be denied for that reason alone.

(b) A stay of the effect of the Decision of the Commandant on Appeal may be granted by the Commandant upon application by the respondent filed with the notice served on the Commandant under 49 CFR 825.5(b).

(c) An Officer in Charge, Marine Inspection, on presentation of an original stay order, issues a temporary document and/or license as specified in the stay order. This document is effective for not more than six months, renewable until such time as the National Transportation Safety Board has completed its review.
Subpart K—Review of Administrative Law Judge’s Decisions in Cases Where Charges Have Been Found Proved

§ 5.801 Commandant’s review.
Any decision of an Administrative Law Judge, in which there has been a finding of proved, may be called up for review by the Commandant without procedural formality.

§ 5.803 Record for decision on review.
The transcript of hearing, together with all papers and exhibits filed, shall constitute the record for consideration and review.

§ 5.805 Action on review.
(a) The Commandant may adopt in whole or in part the findings, conclusions, and basis therefor stated by the Administrative Law Judge, may make entirely new findings on the record, or may remand the case to the Administrative Law Judge for further proceedings.
(b) In no case will the review by the Commandant be followed by any order increasing the severity of the Administrative Law Judge’s original order.
(c) The Decision of the Commandant on Review, shall be the final agency action in the absence of a remand.

§ 5.807 Commandant’s Decision on Review.
The Commandant’s Decisions on Review are available for reading purposes at Coast Guard Headquarters, at Offices of District Commanders, Marine Safety Offices and Marine Inspection Offices. (See 33 CFR subpart 1.10.)

Subpart L—Issuance of New Licenses, Certificates or Documents After Revocation or Surrender

§ 5.901 Time limitations.
(a) Any person whose license, certificate or document has been revoked or surrendered for one or more of the offenses described in §§ 5.59 and § 5.61(a) may, three years after compliance with the Administrative Law Judge’s decision and order or the date of voluntary surrender, apply for the issuance of a new license, certificate or document.
(b) The three year time period may be waived by the Commandant upon a showing by the individual that, since the occurrence upon which the revocation or surrender was based, the individual has demonstrated his good character in the community for a period exceeding three years.
(c) Any person whose license, certificate or document has been revoked or surrendered for one or more offenses which are not specifically described in §§ 5.59 or § 5.61(a) may, after one year, apply for the issuance of a new license, certificate or document.
(d) For a person whose license, certificate, or document has been revoked or surrendered for the wrongful simple possession or use of dangerous drugs, the three year time period may be waived by the Commandant upon a showing that the individual:
(1) Has successfully completed a bona fide drug abuse rehabilitation program;
(2) Has demonstrated complete non-association with dangerous drugs for a minimum of one year following completion of the rehabilitation program and;
(3) Is actively participating in a bona fide drug abuse monitoring program.
(e) For a person whose license, certificate or document has been revoked or surrendered for offenses related to alcohol abuse, the waiting period may be waived by the Commandant upon a showing that the individual has successfully completed a bona fide alcohol abuse rehabilitation program and is actively participating in a bona fide alcohol abuse monitoring program.
(f) The waivers specified under subparagraphs (d) or (e) of this section may only be granted once to each person.

[CGD 82-002, 50 FR 32184, Aug. 9, 1985, as amended by CGD 84-099, 52 FR 47535, Dec. 14, 1987]
.§ 6.01 Procedures for effecting individual waivers of navigation and vessel inspection laws and regulations.

(a) It is hereby found necessary in the interest of national defense to waive compliance with the navigation and vessel inspection laws administered by the Coast Guard, as well as the regulations issued thereunder and published in 33 CFR chapter I or in this chapter, to the extent and in the manner and upon the terms and conditions as set forth in this section.

(b) An application requesting that a waiver be made effective with respect to a particular vessel may be made by any authorized representative of an agency of the United States Government or any other interested person (including the master, agent, or owner of the vessel involved). Except as provided in paragraph (d) of this section, the application shall be in writing. The application shall be delivered to the Coast Guard District Commander or to his designated representative at the port or place where the vessel is located. In the case of a vessel in any foreign port or place, the application shall be made to the designated representative of the Commandant at such port or place, or if the Coast Guard has not established facilities in such port or place, to the nearest designated representative of the Commandant at a port or place where such facilities have been established. Every application shall contain a statement of the particular provisions of law with respect to which waiver of compliance is requested, a certification that the waiver of compliance with such laws with respect to the vessel involved is necessary in the interest of national defense and, an outline of the facts upon which such certification is based. The Coast Guard District Commander (or his designated representative or the designated representative of the Commandant, as the case may be) shall promptly examine every application for the purpose of determining whether the necessity for prompt action is such as to require that the waiver be made effective by him without reference to
§ 6.04 Vessels requisitioned by the United States for emergency evacuation.

Pursuant to the request of the Acting Secretary of Defense, dated November 21, 1951, made under the provisions of section 1 of Public Law 89-1, 81st Congress, approved December 27, 1950, compliance with the provisions of the navigation and vessel inspection laws administered by the United States Coast Guard is hereby waived, as well as the regulations issued thereunder and published in 33 CFR chapter I or in this chapter, to the extent necessary to permit the operation of vessels which might be requisitioned by the United States for the purpose of emergency evacuation.

§ 6.06 Vessels operated by or chartered to Military Sealift Command.

(a) Pursuant to the request of the Deputy Secretary of Defense, dated August 6, 1958, and to the request of the Assistant Secretary of Defense, Installations and Logistics, dated May 23, 1964, made under the provisions of section 1 of Public Law 89-1, 81st Congress, approved December 27, 1950 (64 Stat. 1120; 46 U.S.C., note preceding section 1), and their findings that a waiver is necessary in the interest of national defense, compliance with the provisions of the navigation and vessel inspection laws administered by the United States Coast Guard, as well as the regulations issued thereunder and contained in 33 CFR chapter I, or in this chapter, is hereby waived to the extent and upon the terms and conditions as set forth in this section, in order to permit vessels operated by or chartered to the Military Sealift Command to carry out their assigned missions.

(b) An application requesting that this waiver be made effective with respect to a particular vessel may be
made by the Commander, Military Sealift Command, or any one of his duly designated representatives. Except as provided in paragraph (e) of this section, the application shall be in writing. The application shall be delivered to the Coast Guard District Commander or to his designated representative at the port or place where the vessel is located. In the case of a vessel in any foreign port or place, the application shall be made to the designated representative of the Commandant at such port or place, or if the Coast Guard has not established facilities in such port or place, to the nearest designated representative of the Commandant at a port or place where such facilities have been established, or to the Commandant (G-MOC), U.S. Coast Guard, Washington, DC 20593-0001.

Every application shall:

1. Describe the laws and/or regulations by appropriate references and/or subjects with respect to which the waiver of compliance is desired;
2. Contain a certification that the waiver of compliance with such laws and/or regulations with respect to the vessel involved is necessary in the interest of national defense and is necessary for the Military Sea Transportation Service to carry out an assigned mission;
3. The name and official number of the vessel involved (including the names of master, agent, and owner of the vessel involved); and,
4. For how long the waiver is needed.

(d) If practicable, one copy of this waiver order shall be delivered to the master of the vessel involved before such vessel sails. In any case where the waiver order is not delivered to the master, it shall be delivered to the owner, operator, or agent of the vessel without delay. One copy of the waiver order shall be delivered to the Commander, Military Sealift Command, or his duly designated representative, who submitted the application. One copy of the waiver order shall be transmitted to the Commandant (G-MOC) and the remaining copy kept on file.

(e) In any case of extreme urgency, the application for a waiver order may be made orally and if the Coast Guard District Commander or his designated representative, or the designated representative of the Commandant, or the Commandant, as the case may be, determines that the conditions in this section have been met, the waiver order shall be made effective without further delay, subject to the condition that the application be reduced to writing and delivered within such period after the date of the oral request as the Coast Guard officer making the waiver effective shall specify in the confirming written waiver order.

(f) No penalty shall be imposed because of failure to comply with any provision of law and/or regulation, the waiver of which has been made effective pursuant to the requirements of this section.

(g) This waiver order shall remain in effect until terminated by proper authority and notice of cancellation is published in the Federal Register.


§ 6.07 Chronological record of seaman's previous employment.

(a) Compliance is hereby waived with regard to the provisions of 46 U.S.C. 10311(c), to the extent necessary to permit the Commandant of the United States Coast Guard to issue a chronological record of a seaman's previous employment on a single document, in lieu of making individual entry in a duplicate continuous discharge book or furnishing individual certificates of discharge.

(b) It is hereby found that the waiving of the provisions of 46 U.S.C.


§ 7.1 General purpose of boundary lines.

The lines in this part delineate the application of the following U.S. statutes: 33 U.S.C. 152 relating to the length of towing hawser; 33 U.S.C. 1201 et seq., the Vessel Bridge-to-Bridge Radiotelephone Act; 46 U.S.C. 5102(b)(6), which exempts from load line requirements certain vessels on domestic voyages; 46 U.S.C. 3301(6) requiring the inspection of seagoing barges which are defined in 46 U.S.C. 2101(32); 46 U.S.C. 3301(7) requiring the inspection of seagoing motor vessels which are defined in 46 U.S.C. 2101(33); 46 U.S.C. 3302(d) which exempts from inspection requirements certain vessels under 150 gross tons that operate within the waters of southeastern Alaska and the State of Washington; and 46 U.S.C. 8304, “Implementing the Officers’ Competency Certificates Convention, 1936.”

§ 7.5 Rules for establishing boundary lines.

(a) For application of the Vessel Bridge-to-Bridge Radiotelephone Act, 33 U.S.C. 1201 et seq., the line is 3 miles seaward of the baseline from which the territorial sea is measured.

(b) Barges of 100 gross tons and over operating on the sheltered waters of British Columbia as defined in the

46 CFR Ch. I (10–1–99 Edition)
United States-Canada treaty of 1933 (49 Stat. 2865, TS 869) are not required to be inspected as seagoing barges under 46 U.S.C. 3301.

(c) Except as otherwise described in this part, Boundary Lines are lines drawn following the general trend of the seaward, highwater shorelines and lines continuing the general trend of the seaward, highwater shorelines across entrances to small bays, inlets and rivers.

Atlantic Coast

§ 7.10 Eastport, ME to Cape Ann, MA.

(a) A line drawn from the easternmost extremity of Kendall Head to latitude 44°54′45″ N. longitude 66°58′30″ W.; thence to the range marker located in approximate position latitude 44°51′45″ N. longitude 66°59′ W.

(b) A line drawn from West Quoddy Head Light to latitude 44°48′5 N. longitude 66°58′30″ W. (Sail Rock Lighted Whistle Buoy “1”); thence to latitude 44°37′5 N. longitude 67°09′8″ W. (Little River Lighted Whistle Buoy “2L R”); thence to latitude 44°14′5 N. longitude 67°57′2″ W. (Frenchman Bay Approach Lighted Whistle Buoy “FB”); thence to Mount Desert Light; thence to Matinicus Rock Light; thence to Monhegan Island Light; thence to latitude 43°31′6″ N. longitude 70°05′5″ W. (Portland Lighted Horn Buoy “P”); thence to Boon Island Light; thence to latitude 42°37′9″ N. longitude 70°31′2″ W. (Cape Ann Lighted Whistle Buoy “2”).

§ 7.15 Massachusetts Bay, MA.

A line drawn from latitude 42°37′9″ N. longitude 70°31′2″ W. (Cape Ann Lighted Whistle Buoy “2”) to latitude 42°22′7″ N. longitude 70°47′0″ W. (Boston Lighted Horn Buoy “B”); thence to Race Point Light.

§ 7.20 Nantucket Sound, Vineyard Sound, Buzzards Bay, Narragansett Bay, MA, Block Island Sound and easterly entrance to Long Island Sound, NY.

(a) A line drawn from Chatham Light to latitude 41°36′1″ N. longitude 69°51′1″ W. (Pollack Rip Entrance Lighted Horn Buoy “PR”); thence to latitude 41°26′0″ N. longitude 69°46′2″ W. (Great Round Shoal Channel Lighted Buoy “2”); thence to Sankaty Head Light.

(b) A line drawn from the westernmost extremity of Nantucket Island to the southwesternmost extremity of Wasque Point, Chappaquiddick Island.

(c) A line drawn from Gay Head Light to Block Island Southeast Light; thence to Montauk Point Light on the easterly end of Long Island.

§ 7.25 Montauk Point, NY to Atlantic Beach, NY.

(a) A line drawn from Shinnecock East Breakwater Light to Shinnecock West Breakwater Light.

(b) A line drawn from Moriches Inlet East Breakwater Light to Moriches Inlet West Breakwater Light.

(c) A line drawn from Fire Island Inlet Breakwater Light 348° true to the southernmost extremity of the spit of land at the western end of Oak Beach.

(d) A line drawn from Jones Inlet Light 322° true across the southwest tangent of the island on the north side of Jones Inlet to the shoreline.

§ 7.30 New York Harbor, NY.

A line drawn from East Rockaway Inlet Breakwater Light to Ambrose Light; thence to Highlands Light (north tower).

§ 7.35 Sandy Hook, NJ to Cape May, NJ.

(a) A line drawn from Shark River Inlet North Breakwater Light “2” to Shark River Inlet South Breakwater Light “1”.

(b) A line drawn along the submerged Barnegat Inlet North Breakwater to Barnegat Inlet North Breakwater Light “2”; thence to Barnegat Inlet Light “5”; thence along the submerged Barnegat Inlet South Breakwater to shore.

(d) A line drawn from the seaward tangent of Long Beach Island to the seaward tangent of Pullen Island across Beach Haven and Little Egg Inlets.

(e) A line drawn from the seaward tangent of Pullen Island to the seaward tangent of Brigantine Island across Brigantine Inlet.
§ 7.40 Delaware Bay and tributaries.

A line drawn from Cape May Inlet East Jetty Light to latitude 38°55.8′ N. longitude 74°51.4′ W. (Cape May Harbor Inlet Lighted Bell Buoy “2CM’’); thence to latitude 38°48.3′ N. longitude 75°02.3′ W. (Delaware Bay Entrance Channel Lighted Buoy “8’’); thence to the northernmost extremity of Cape Henlopen.

§ 7.45 Cape Henlopen, DE to Cape Charles, VA.

(a) A line drawn from the easternmost extremity of Indian River Inlet North Jetty to latitude 38°36.5′ N. longitude 75°02.8′ W. (Indian River Inlet Lighted Gong Buoy “1’’); thence to Indian River Inlet South Jetty Light.

(b) A line drawn from Ocean City Inlet Light “6” to latitude 38°19.4′ N. longitude 75°05.0′ W. (Ocean City Inlet Entrance Lighted Buoy “4’’); thence to latitude 38°19.3′ N. longitude 75°05.1′ W. (Ocean City Inlet Entrance Lighted Buoy “5’’); thence to the easternmost extremity of the south breakwater.

(c) A line drawn from Assateague Beach Tower Light to latitude 37°50.2′ N. longitude 75°24.9′ W. (Chincoteague Inlet Lighted Bell Buoy “Cl’’); thence to the tower charted at latitude 37°52.6′ N. longitude 75°26.7′ W.

(d) A line drawn from the southernmost extremity of Cedar Island to latitude 37°34.7′ N. longitude 75°36.0′ W. (Wachapreague Inlet Entrance Lighted Buoy “1’’); thence due south to shore at Parramore Beach.

§ 7.50 Chesapeake Bay and tributaries.

A line drawn from Cape Charles Light to latitude 36°56.8′ N. longitude 75°55.1′ W. (North Chesapeake Entrance Lighted Gong Buoy “NCD’’); thence to latitude 36°54.8′ N. longitude 75°55.6′ W. (Chesapeake Bay Entrance Lighted Bell Buoy “CBC’’); thence to latitude 36°55.0′ N. longitude 75°58.0′ W. (Cape Henry Buoy “1’’); thence to Cape Henry Light.

§ 7.55 Cape Henry, VA to Cape Fear, NC.

(a) A line drawn from Rudee Inlet Jetty Light “Z” to latitude 36°50′ N. longitude 75°56.7′ W.; thence to Rudee Inlet Jetty Light “1’’.

(b) A line drawn from Bodie Island Light to latitude 35°49.3′ N. longitude 75°31.9′ W. (Oregon Inlet Approach Lighted Whistle Buoy “Ol’’); thence to Oregon Inlet Radiobeacon.

(c) A line drawn from Hatteras Inlet Light 255° true to the eastern end of Ocracoke Island.

(d) A line drawn from the westernmost extremity of Ocracoke Island at latitude 35°04′ N. longitude 76°00.8′ W. to the northeasternmost extremity of Portsmouth Island at latitude 35°03.7′ N. longitude 76°02.3′ W.

(e) A line drawn across Drum Inlet parallel with the general trend of the seaward, highwater shoreline.

(f) A line drawn from the southernmost extremity of Cape Lookout to latitude 34°38.4′ N. longitude 76°40.6′ W. (Beaufort Inlet Lighted Bell Buoy “2BI’’); thence to the seaward extremity of the Beaufort Inlet west jetty.

(g) A line drawn from the seaward extremity of Masonboro Inlet north jetty to latitude 34°10.3′ N. longitude 77°48.0′ W. (Masonboro Inlet Lighted Whistle Buoy “A’’); thence to the beach in approximate position latitude 34°10′ N. longitude 77°49.4′ W.
§ 7.60 Cape Fear, NC to Sullivans Island, SC.

(a) A line drawn from the southernmost extremity to Cape Fear to latitude 33°49.5′ N. longitude 78°03.7′ W. (Cape Fear River Entrance Lighted Bell Buoy “2CF’’); thence to Oak Island Light.

(b) A line drawn from the southernmost extremity of Bird Island at approximate position latitude 33°51.2′ N. longitude 78°32.6′ W. to latitude 33°50.3′ N. longitude 78°32.5′ W. (Little River Inlet Entrance Lighted Whistle Buoy “2LR’’); thence to the northeastern extremity of Murrells Inlet north jetty to latitude 33°33.6′ N. longitude 78°33.6′ W.

(c) A line drawn from the seaward extremity of Murrells Inlet north jetty to latitude 33°31.3′ N. longitude 79°01.6′ W. (Murrells Inlet Lighted Bell Buoy “MI’’); thence to Murrells Inlet South J etty Light.

(d) A line drawn from Georgetown Light to latitude 33°11.6′ N. longitude 79°05.4′ W. (Winyah Bay Lighted Bell Buoy “2WB’’); thence to the southeasternmost extremity of Little Tybee Island bearing approximately 269° true.

§ 7.65 Charleston Harbor, SC.

A line drawn from Charleston Light on Sullivans Island to latitude 32°40.7′ N. longitude 79°42.9′ W. (Charleston Lighted Whistle Buoy “2C’’); thence to Folly Island Loran Tower (latitude 32°41.0′ N. longitude 79°53.2′ W.).

§ 7.70 Folly Island, SC to Hilton Head Island, SC.

(a) A line drawn from the southernmost extremity of Folly Island to latitude 32°35′ N. longitude 79°58.2′ W. (Stono Inlet Lighted Whistle Buoy “15’’); thence to Kiawah Island bearing approximately 30° true.

(b) A line drawn from the southernmost extremity of Kiawah Island to latitude 32°31′ N. longitude 80°07.8′ W. (North Edisto River Entrance Lighted Whistle Buoy “2NE’’); thence to Botany Bay Island at approximate position latitude 32°33.1′ N. longitude 80°12.7′ W.

(c) A line drawn from the microwave antenna tower on Edisto Beach charted in approximate position latitude 32°29.3′ N. longitude 80°19.2′ W. across St. Helena Sound to the abandoned lighthouse tower on Hunting Island charted in approximate position latitude 32°22.5′ N. longitude 80°26.5′ W.

(d) A line drawn from the abandoned lighthouse on Hunting Island in approximate position latitude 32°22.5′ N. longitude 80°26.2′ W. to latitude 32°18′ N. longitude 80°25′ W.; thence to the standpipe on Fripp Island in approximate position latitude 32°19′ N. longitude 80°28.7′ W.

(e) A line drawn from the westernmost extremity of Bull Point on Capers Island to latitude 32°04.8′ N. longitude 80°34.9′ W. (Port Royal Sound Lighted Whistle Buoy “2PR’’); thence to the easternmost extremity of Hilton Head at latitude 32°13.2′ N. longitude 80°40.1′ W.

§ 7.75 Savannah River/Tybee Roads.

A line drawn from the southwesternmost extremity of Braddock Point to latitude 31°58.3′ N. longitude 80°44.1′ W. (Tybee Lighted Whistle Buoy “T’’); thence to the southeasternmost extremity of Little Tybee Island bearing approximately 269° true.

§ 7.80 Tybee Island, GA to St. Simons Island, GA.

(a) A line drawn from the southernmost extremity of Savannah Beach on Tybee Island 255° true across Tybee Inlet to the shore of Little Tybee Island south of the entrance to Buck Hammock Creek.

(b) A line drawn from the southernmost extremity of Little Tybee Island at Beach Hammock to the easternmost extremity of Wassaw Island.

(c) A line drawn from Wassaw Island in approximate position latitude 31°52.5′ N. longitude 80°58.5′ W. to latitude 31°48.3′ N. longitude 80°56.8′ W. (Ossabaw Sound North Channel Buoy “05’’); thence to latitude 31°39.3′ N. longitude 81°02.3′ W. (St. Catherines Sound Buoy “St. C.’’); thence to latitude 31°31.2′ N. longitude 81°03.8′ W. (Sapelo Sound Buoy “S’’); thence to the easternmost extremity of Blackbeard Island at Northeast Point.

(d) A line drawn from the southernmost extremity of Blackbeard Island to latitude 31°19.4′ N. longitude 81°11.5′ W. (Doboy Sound Lighted Buoy “D’’); thence to latitude 31°04.1′ N. longitude 81°16.7′ W. (St. Simons Lighted Whistle Buoy “ST S’’).
§ 7.85 St. Simons Island, GA to Little Talbot Island, FL.

(a) A line drawn from the southernmost extremity of Amelia Island to latitude 30°42.7′ N. longitude 81°22.9′ W. (Nassau Sound Approach Buoy “6A’’); thence to the northeasternmost extremity of Amelia Island to latitude 30°29.4′ N. longitude 81°19.0′ W. (St. Mary’s Entrance Lighted Whistle Buoy “1’’); thence to Amelia Island Light.

(b) A line drawn from the southernmost extremity of Amelia Island to latitude 30°42.7′ N. longitude 81°22.9′ W. (Nassau Sound Approach Buoy “6A’’); thence to the northeasternmost extremity of Amelia Island to latitude 30°29.4′ N. longitude 81°19.0′ W. (St. Mary’s Entrance Lighted Whistle Buoy “1’’); thence to Amelia Island Light.

§ 7.90 St. Johns River, FL.

A line drawn from the southeasternmost extremity of Little Talbot Island (Spike Island to latitude 30°23.8′ N. longitude 81°20.3′ W. (St. Johns Lighted Whistle Buoy “2 STJ’’); thence to St. Johns Light.

§ 7.95 St. Johns Point, FL to Miami Beach, FL.

(a) A line drawn from the seaward extremity of St. Augustine Inlet north jetty to latitude 29°55.5′ N. longitude 81°15.3′ W. (St. Augustine Lighted Whistle Buoy “ST. A.’’); thence to the seaward extremity of St. Augustine Inlet south jetty.

(b) A line formed by the centerline of the highway bridge over Matanzas Inlet.

(c) A line drawn from the seaward extremity of Ponce de Leon Inlet north jetty to latitude 29°04.7′ N. longitude 80°54.0′ W. (Ponce de Leon Inlet Lighted Bell Buoy “2’’); thence to Ponce de Leon Inlet Approach Light.

(d) A line drawn from Canaveral Harbor Approach Channel Range Front Light to latitude 28°23.7′ N. longitude 80°32.2′ W. (Canaveral Bight Wreck Lighted Buoy “WR 6’’); thence to the radio tower on Canaveral Peninsula in approximate position latitude 28°22.9′ N. longitude 80°36.6′ W.

(e) A line drawn across the seaward extremity of the Sebastian Inlet Jetty.

(f) A line drawn from the seaward extremity of the Fort Pierce Inlet North Jetty to latitude 27°28.5′ N. longitude 80°16.2′ W. (Fort Pierce Inlet Lighted Whistle Buoy “2’’); thence to the tank located in approximate position latitude 27°27.2′ N. longitude 80°17.2′ W.

(g) A line drawn from the seaward extremity of St. Lucie Inlet north jetty to latitude 27°10′ N. longitude 80°08.4′ W. (St. Lucie Inlet Entrance Lighted Whistle Buoy “2’’); thence to Jupiter Island bearing approximately 180° true.

(h) A line drawn from the seaward extremity of Jupiter Inlet North Jetty to the northeasternmost extremity of Little Talbot Island.

(i) A line drawn from the seaward extremity of Lake Worth Inlet North Jetty to latitude 26°46.4′ N. longitude 80°01.5′ W. (Lake Worth Inlet Lighted Bell Buoy “2LW’’); thence to Lake Worth Inlet Lighted Buoy “3’’; thence to the seaward extremity of Lake Worth Inlet South Jetty.

(j) A line drawn across the seaward extremity of the Boynton Inlet Jetties.

(k) A line drawn from Boca Raton Inlet North Jetty Light “2’’ to Boca Raton Inlet South Jetty Light “1’’.

(l) A line drawn from Hillsboro Inlet Light to Hillsboro Inlet Entrance Light “2’’; thence to Hillsboro Inlet Entrance Light “1’’; thence west to the shoreline.

(m) A line drawn from the tower located in approximate position latitude 26°06.9′ N. longitude 80°06.4′ W. to latitude 26°05.5′ N. longitude 80°04.8′ W. (Port Everglades Lighted Whistle Buoy “1’’); thence to the signal tower located in approximate position latitude 26°05.5′ N. longitude 80°06.5′ W.

(n) A line drawn from the seaward extremity of Baker’s Haulover Inlet north jetty 90° true to longitude 80°07.2′ W.; thence to the seaward extremity of Baker’s Haulover Inlet south jetty.

§ 7.100 Florida Reefs and Keys from Miami, FL to Marquesas Keys, FL.

(a) A line drawn from the tower located in approximate position latitude 25°46.7′ N. longitude 80°08′ W. to latitude 25°46.1′ N. longitude 80°05.0′ W. (Miami Lighted Whistle Buoy “M’’); thence to Fowey Rocks Light (latitude 25°35.4′ N. longitude 80°05.8′ W.); thence to Pacific Reef Light (latitude 25°22.3′ N. longitude 80°08.5′ W.); thence to Carysfort Reef Light (latitude 25°13.3′ N. longitude 80°12.7′ W.); thence to Molasses Reef Light “10’’ (latitude 25°00.7′ N. longitude 80°22.6′ W.); thence to Alligator Reef Light (latitude 24°51.1′ N. 70
§ 7.105 Marquesas Keys, FL to Rio Grande, TX.
(a) A line drawn from Marquesas Keys, Florida at approximate position latitude 24°47.5’N. longitude 82°11.2’W. along the 12-mile line which marks the seaward limits of the contiguous zone (as defined in 33 CFR part 2.05) to Rio Grande, Texas at approximate position latitude 25°58.6’N. longitude 96°55.5’W.

HAWAII
§ 7.110 Mamala Bay, HI.
A line drawn from Barbers Point Light to Diamond Head Light.

PACIFIC COAST
§ 7.115 Santa Catalina Island, CA.
(a) A line drawn from the northernmost point of Lion Head to the north tangent of Bird Rock Island; thence to the northernmost point of Blue Cavern Point.
(b) A line drawn from White Rock to the northernmost point of Abalone Point.

§ 7.120 Mexican/United States border to Point Fermin, CA.
(a) A line drawn from the southerly tower of the Coronado Hotel in approximate position latitude 32°40.8’N. longitude 117°10.6’W. to latitude 32°39.1’N. longitude 117°13.6’W. (San Diego Bay Channel Lighted Bell Buoy “5’’); thence to Point Loma Light.
(b) A line drawn from Mission Bay South Jetty Light “2” to Mission Bay North Jetty Light “1”.
(c) A line drawn from Oceanside South Jetty Light “4” to Oceanside Breakwater Light “3”.
(d) A line drawn from Dana Point Jetty Light “6” to Dana Point Breakwater Light “5”.
(e) A line drawn from Newport Bay East Jetty Light “4” to Newport Bay West Jetty Light “3”.
(f) A line drawn from Anaheim Bay East Jetty Light “6” to Anaheim Bay West Jetty Light “5”; thence to Long Beach Breakwater East End Light “1”. A line drawn from Long Beach Entrance Light “2” to Long Beach Light. A line drawn from Los Angeles Main Channel Entrance Light “2” to Los Angeles Light.

§ 7.125 Point Vincente, CA to Point Conception, CA.
(a) A line drawn from Redondo Beach East Jetty Light “2” to Redondo Beach West Jetty Light “3”.
(b) A line drawn from Marina Del Rey Light “4” to Marina Del Rey Breakwater South Light “1”. A line drawn from Marina Del Rey Breakwater North Light “2” to Marina Del Rey Light “3”.
(c) A line drawn from Port Hueneme East Jetty Light “4” to Port Hueneme West Jetty Light “3”.
(d) A line drawn from Channel Islands Harbor South Jetty Light “2” to Channel Islands Harbor Breakwater South Light “1”. A line drawn from Channel Islands Harbor Breakwater North Light to Channel Islands Harbor North Jetty Light “5”.
(e) A line drawn from Ventura Marina South Jetty Light “6” to Ventura Marina Breakwater South Light “3”. A line drawn from Ventura Marina Breakwater North Light to Ventura Marina North Jetty Light “7”.
(f) A line drawn from Santa Barbara Harbor Light “4” to latitude 34°24.1’N. longitude 119°40.7’W. (Santa Barbara Harbor Lighted Bell Buoy “1”); thence to Santa Barbara Harbor Breakwater Light.
§ 7.130 Point Conception, CA to Point Sur, CA.

(a) A line drawn from the southernmost extremity of Fossil Point at longitude 120°43.5' W. to the seaward extremity of Whaler Island Breakwater.

(b) A line drawn from the outer end of Morro Bay Entrance East Breakwater to latitude 35°21.5' N. longitude 120°52.3' W. (Morro Bay Entrance Lighted Bell Buoy "1"); thence to Morro Bay West Breakwater Light.

§ 7.135 Point Sur, CA to Cape Blanco, OR.

(a) A line drawn from Monterey Harbor Light "6" to latitude 36°36.5' N. longitude 121°53.2' W. (Monterey Harbor Anchorage Buoy "A"); thence to the northernmost extremity of Monterey Municipal Wharf No. 2.

(b) A line drawn from seaward extremity of the pier located 0.3 mile south of Moss Landing Harbor Entrance to the seaward extremity of the Moss Landing Harbor North Breakwater.

(c) A line drawn from the northernmost extremity of Soquel Point.

(d) A straight line drawn from Point Bonita Light across Golden Gate through Mile Rocks Light to the shore.

(e) A line drawn from the northwestern tip of Tomales Point to latitude 38°15.1' N. longitude 122°00.1' W. (Tomales Point Lighted Horn Buoy "2"); thence to latitude 38°17.2' N. longitude 122°02.3' W. (Bodega Harbor Approach Lighted Gong Buoy "BA"); thence to the southermost extremity of Bodega Head.

(f) A line drawn from Humboldt Bay Entrance Light "4" to Humboldt Bay Entrance Light "3".

(g) A line drawn from Crescent City Outer Breakwater Light "5" to the southeasternmost extremity of Whaler Island at longitude 124°11' W.

§ 7.140 Cape Blanco, OR to Cape Flattery, WA.

(a) A line drawn from the seaward extremity of the Coos Bay South Jetty to latitude 43°21.9' N. longitude 124°21.7' W. (Coos Bay Entrance Lighted Bell Buoy "1"); thence to the seaward extremity of the Coos Bay North Jetty.

(b) A line drawn from the lookout tower located in approximate position latitude 46°13.6' N. longitude 124°00.7' W. to latitude 46°12.8' N. longitude 124°08.0' W. (Columbia River Entrance Lighted Whistle Buoy "2"); thence to latitude 46°14.5' N. longitude 124°09.5' W. (Columbia River Entrance Lighted Bell Buoy "1"); thence to North Head Light.

(c) A line drawn from latitude 46°52.8' N. longitude 124°12.6' W. (Grays Harbor Light to Grays Harbor Entrance Lighted Whistle Buoy "2"); thence to latitude 46°55.0' N. longitude 124°14.7' W. (Grays Harbor Entrance Lighted Whistle Buoy "3"); thence to Grays Harbor Bar Range Rear Light.

§ 7.145 Strait of Juan de Fuca, Haro Strait and Strait of Georgia WA.

(a) A line drawn from the northernmost point of Angeles Point to latitude 48°21.1' N. longitude 123°02.5' W. (Hein Bank Lighted Bell Buoy); thence to latitude 48°25.5' N. longitude 122°58.5' W. (Salmon Bank Lighted Gong Buoy "3"); thence to Cattle Point Light on San Juan Island.

(b) A line drawn from Lime Kiln Light to Kellett Bluff Light on Henry Island; thence to Turn Point Light on Stuart Island; thence to Skipjack Island Light; thence to latitude 48°46.6' N. longitude 122°53.4' W. (Clements Reef Buoy "2"); thence to International Boundary Range B Front Light.

§ 7.150 Canadian (BC) and United States (AK) Borders to Cape Spencer, AK.

(a) A line drawn from the northwesternmost extremity of Point Mansfield, Sitkian Island 046° true to the mainland.

(b) A line drawn from the southeasternmost extremity of Island Point, Sitkian Island to the southeastern extremity of Garnet Point, Kanagunut Island; thence to Lord Rock Light; thence to Barren Island Light; thence to Cape Chacon Light; thence to Cape Muzon Light.

(c) A line drawn from Point Cornwallis Light to Cape Bartolome Light; thence to Cape Edgecumbe Light; thence to the westernmost extremity of Cape Cross.
(d) A line drawn from Surge Bay Entrance Light to Cape Spencer Light.

§ 7.155 Cape Spencer, AK to Cape St. Elias, AK.

(a) A line drawn from the westernmost extremity of Harbor Point to the southernmost extremity of LaChaussee Spit at Lituya Bay.
(b) A line drawn from Ocean Cape Light to latitude 59°31.9′ N. longitude 139°57.1′ W. (Yakutat Bay Entrance Lighted Whistle Buoy "2"); thence to the southeasternmost extremity of Point Manby.
(c) A line drawn from the northernmost extremity of Point Riou to the easternmost extremity of Icy Cape.

§ 7.160 Point Whitsedh, AK to Aialik Cape, AK.

(a) A line drawn from the southernmost extremity of Point Whitsedh to the easternmost extremity of Hinchinbrook Island.
(b) A line drawn from Cape Hinchinbrook Light to Schooner Rock Light "1");
(c) A line drawn from the southwesternmost extremity of Montague Island to Point Elrington Light; thence to the southernmost extremity of Cape Puget.
(d) A line drawn from the southernmost extremity of Cape Resurrection to the Aialik Cape.

§ 7.165 Kenai Peninsula, AK to Kodiak Island, AK.

(a) A line drawn from the southernmost extremity of Kenai Peninsula at longitude 151°44.0′ W. to East Amatuli Island Light; thence to the northwesternmost extremity of Shuyak Island at Party Cape; thence to the easternmost extremity of Cape Douglas.
(b) A line drawn from the southernmost extremity of Pillar Cape on Afognak Island to Spruce Cape Light; thence to the easternmost extremity of Long Island; thence to the north-easternmost extremity of Cape Chinia.
(c) A line drawn from Cape Nunilik at latitude 58°09.7′ N. to the northernmost extremity of Raspberry Island. A line drawn from the westernmost extremity of Raspberry Cape to the northernmost extremity of Miners Point.

§ 7.170 Alaska Peninsula, AK to Aleutian Islands, AK.

(a) A line drawn from the southernmost extremity of Cape Kumlium to the westernmost extremity of Nakchamik Island; thence to the easternmost extremity of Castle Cape at Chignik Bay.
(b) A line drawn from Second Priest Rock to Ulakta Head Light at Iliuliuk Bay entrance.
(c) A line drawn from Arch Rock to the northernmost extremity of Devilfish Point at Captains Bay.
(d) A line drawn from the easternmost extremity of Lagoon Point to the northwesternmost extremity of Cape Kutuzof at Port Moller.

§ 7.175 Alaska Peninsula, AK to Nunivak, AK.

(a) A line drawn from the northernmost extremity of Goose Point at Egegik Bay to Protection Point.
(b) A line drawn from the westernmost extremity of Kulukak Point to the northernmost extremity of Round Island; thence to the southernmost extremity of Hagemeister Island; thence to the southernmost extremity of Cape Peirce; thence to the southernmost extremity of Cape Newenham.
(c) A line drawn from the church spire located in approximate position latitude 59°45′ N. longitude 161°55′ W. at the mouth of the Kanektok River to the southernmost extremity of Cape Avinof.

§ 7.180 Kotzebue Sound, AK.

A line drawn from Cape Espenberg Light to latitude 66°52′ N. longitude 163°28′ W.; and thence to Cape Krusenstern Light.
§ 8.100 Subpart A—General

§ 8.100 Definitions.

Authorized Classification Society means a recognized classification society that has been delegated the authority to conduct certain functions and certifications on behalf of the Coast Guard.

Class Rules means the standards developed and published by a classification society regarding the design, construction and certification of commercial vessels.

Classed means that a vessel meets the classification society requirements that embody the technical rules, regulations, standards, guidelines and associated surveys and inspections covering the design, construction and through-life compliance of a ship's structure and essential engineering and electrical systems.

Commandant means the Commandant of the Coast Guard.

Delegated Function means a function related to Coast Guard commercial vessel inspection which has been delegated to a classification society. Delegated functions may include issuance of international convention certificates and participation in the Alternate Compliance Program under this part.

Delegated Function Related to General Vessel Safety Assessment means issuance of the SOLAS Cargo Ship Safety Construction Certificate or issuance of the SOLAS Cargo Ship Safety Equipment Certificate.

Exclusive Surveyor means a person who is employed solely by a classification society and is authorized to conduct vessel surveys. Independent surveyors, hired on a case-by-case basis, or surveyors of another classification society are not considered exclusive surveyors for the performance of delegated functions on behalf of the Coast Guard.

Gross Tons means vessel tonnage measured in accordance with the International Convention on Tonnage Measurement of Ships, 1969. Vessels not measured by this convention must be measured in accordance with the method utilized by the flag state administration of that vessel.
Coast Guard, DOT

MARPOL 73/78 means the Protocol of 1978 relating to the International Convention for the Prevention of Pollution from Ships, 1973, and includes the Convention which means the International Convention for the Prevention of Pollution from Ships, 1973, including Protocols I and II and Annexes I, II, and V thereto, including any modification or amendments to the Convention, Protocols or Annexes which have entered into force for the United States.

Officer in Charge, Marine Inspection (OCMI) means any person from the civilian or military branch of the Coast Guard designated as such by the Commandant and who, under the superintendence and direction of a Coast Guard District Commander, is in charge of an inspection zone for the performance of duties with respect to the inspection, enforcement, and administration of 46 U.S.C., Revised Statutes, and acts amendatory thereof or supplemental thereto, and rules and regulations thereunder.

Recognized Classification Society means the American Bureau of Shipping or other classification society recognized by the Commandant under this part.

SOLAS means International Convention for the Safety of Life at Sea, 1974, as amended.

§ 8.110 Incorporation by reference.

(a) Certain material is incorporated by reference into this subchapter with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR Part 51. To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of the change in the Federal Register and the material must be available to the public. All material is available for inspection at the Office of the Federal Register, 800 North Capitol St., NW., Suite 700, Washington, DC and at the U.S. Coast Guard, Office of Design and Engineering Standards, 2100 Second St., SW., Washington, DC 20593-0001, and is available from the sources listed in paragraph (b).

(b) The material incorporated by reference in this subchapter and the sections affected are as follows:

- American Bureau of Shipping (ABS)—Two World Trade Center, 106th Floor, New York, NY 10048.
- Rules for Building and Classing Steel Vessels, 1996—31.01-3(b), 71.15-5(b), 91.15-5(b)
- Rules for Building and Classing Steel Vessels, 1997—31.01-3(b), 71.15-5(b), 91.15-5(b)
- Rules for Building and Classing Steel Vessels, 1998—31.01-3(b), 71.15-5(b), 91.15-5(b)
- Rules for Building and Classing Mobile Offshore Drilling Units, 1998—107.205(b)
- U.S. Supplement to ABS Rules for Steel Vessels for Vessels on International Voyages, 21 October 1996—31.01-3(b), 71.15-5(b), 91.15-5(b)
- U.S. Supplement to ABS Rules for Steel Vessels for Vessels on International Voyages, 1 August 1997—31.01-3(b), 71.15-5(b), 91.15-5(b)
- U.S. Supplement to ABS Rules for Mobile Offshore Drilling Units, 1 June 1998—107.205(b)
- American National Standards Institute (ANSI)—11 West 42nd St., New York, NY 10036.
- Lloyd’s Register of Shipping (LR)—100 Leadenhall Street, London EC3A 3BP.
- Rules and Regulations for the Classification of Ships, 1998—31.01-3(b), 71.15-5(b), 91.15-5(b)
- Lloyd’s Register of Shipping Supplemental Requirements, 19 September 1998—31.01-3(b), 71.15-5(b), 91.15-5(b)


§ 8.120 Reciprocity.

(a) The Commandant may delegate authority to a classification society that has its headquarters in a country other than the United States only to the extent that the flag state administration of that country delegates authority and provides access to the American Bureau of Shipping to inspect, certify and provide related services to vessels flagged by that country. The Commandant will determine reciprocity on a “case-by-case” basis.

(b) In order to demonstrate that the conditions described in paragraph (a) of this section are satisfied, a classification society must provide to the Coast Guard an affidavit, from the government of the country that the classification society is headquartered in, listing the authorities delegated by the flag state administration of that country to the American Bureau of Shipping, and
§ 8.130 Agreement conditions.

(a) Delegated functions performed by, and statutory certificates issued by, an authorized classification society will be accepted as functions performed by, or certificates issued by, the Coast Guard, provided that the classification society maintains compliance with all provisions of its agreement with the Commandant. Any agreement between the Commandant and a recognized classification society authorizing the performance of delegated functions will be written and will require the classification society to comply with each of the following:

1. Issue any certificates related to a delegated function in the English language.
2. Maintain a corporate office in the United States that has adequate resources and staff to support all delegated functions and to maintain required associated records.
3. Maintain all records in the United States related to delegated functions conducted on behalf of the Coast Guard.
4. Make available to appropriate Coast Guard representatives vessel status information and records, including outstanding vessel deficiencies or classification society recommendations, in the English language, on all vessels for which the classification society has performed any delegated function on behalf of the Coast Guard.
5. Report to the Commandant (G-MOC) the names and official numbers of any vessels removed from class for which the classification society has performed any delegated function on behalf of the Coast Guard and include a description of the reason for the removal.
6. Report to the Commandant (G-MOC) all port state detentions on all vessels for which the classification society has performed any delegated function on behalf of the Coast Guard when aware of such detention.
7. Annually provide the Commandant (G-MOC) with its register of classed vessels.
8. Ensure vessels meet all requirements for class of the accepting classification society prior to accepting vessels transferred from another classification society.
9. Suspend class for vessels that are overdue for special renewal or annual survey.
10. Attend any vessel for which the classification society has performed any delegated function on behalf of the Coast Guard at the request of the appropriate Coast Guard officials, without regard to the vessel’s location—unlike prohibited to do so under the laws of the United States, the laws of the jurisdiction in which the vessel is located, the classification society’s home country domestic law, or where the classification society considers an unacceptable hazard to life and/or property exists.
11. Honor appeal decisions made by the Commandant (G-MSE) or Commandant (G-MOC) on issues related to delegated functions.
12. Apply U.S. flag administration interpretations, when they exist, to international conventions for which the classification society has been delegated authority to certificate or perform other functions on behalf of the Coast Guard.
13. Obtain approval from the Commandant (G-MOC) prior to granting exemptions from the requirements of
international conventions, class rules, and the U.S. supplement to class rules.

(14) Make available to the Coast Guard all records, in the English language, related to equivalency determinations or approvals made in the course of delegated functions conducted on behalf of the Coast Guard.

(15) Report to the Coast Guard all information specified in the agreement at the specified frequency and to the specified Coast Guard office or official.

(16) Grant the Coast Guard access to all plans and documents, including reports on surveys, on the basis of which certificates are issued or endorsed by the classification society.

(17) Identify a liaison representative to the Coast Guard.

(18) Provide regulations, rules, instructions and report forms in the English language.

(19) Allow the Commandant (G-M) to participate in the development of class rules.

(20) Inform the Commandant (G-M) of all proposed changes to class rules.

(21) Provide the Commandant (G-M) the opportunity to comment on any proposed changes to class rules and to respond to the classification society’s disposition of the comments made by the Coast Guard.

(22) Furnish information and required access to the Coast Guard to conduct oversight of the classification society’s activities related to delegated functions conducted on behalf of the Coast Guard.

(23) Allow the Coast Guard to accompany them on internal and external quality audits and provide written results of such audits to appropriate Coast Guard representatives.

(24) Provide the Coast Guard access necessary to audit the authorized classification society to ensure that it continues to comply with the minimum standards for a recognized classification society.

(25) Use only exclusive surveyors of that classification society to accomplish all work done on behalf of, or under any delegation from, the Coast Guard. For tonnage-related measurement service only, however, classification societies may use part-time employees or independent contractors in place of exclusive surveyors.

(26) Allow its surveyors to participate in training with the Coast Guard regarding delegated functions.

(b) Amendments to an agreement between the Coast Guard and an authorized classification society will become effective only after consultation and written agreement between parties.

(c) Agreements may be terminated by one party only upon written notice to the other party. Termination will occur sixty days after written notice is given.

Subpart B—Recognition of a Classification Society

§ 8.200 Purpose.

This subpart establishes criteria and procedures for vessel classification societies to obtain recognition from the Coast Guard. This recognition is necessary in order for a classification society to become authorized to perform vessel inspection and certification functions delegated by the Coast Guard as described in this part.

§ 8.210 Applicability.

This subpart applies to all vessel classification societies seeking recognition by the Coast Guard.

§ 8.220 Recognition of a classification society.

(a) A classification society must be recognized by the Commandant before it may receive statutory authority delegated by the Coast Guard.

(b) In order to become recognized, a classification society must meet the requirements of § 8.230.

(c) A classification society found to meet the criteria for recognition will be notified in writing by the Commandant.

(d) If the Coast Guard determines that a classification society does not meet the criteria for recognition, the Coast Guard will provide the reason for this determination.

(e) A classification society may reapply for recognition upon correction of the deficiencies identified by the Coast Guard.

(a) In order to receive recognition by the Coast Guard a classification society must:
   (1) Establish that it has functioned as an international classification society for at least 30 years with its own class rules;
   (2) Establish that it has a history of appropriate corrective actions in addressing vessel casualties and cases of nonconformity with class rules;
   (3) Establish that it has a history of appropriate changes to class rules based on their application and the overall performance of its classed fleet;
   (4) Have a total classed tonnage of at least 10 million gross tons;
   (5) Have a classed fleet of at least 1,500 ocean-going vessels over 100 gross tons;
   (6) Have a total classed tonnage of ocean-going vessels over 100 gross tons totaling no less than 8 million gross tons;
   (7) Publish and maintain class rules in the English language for the design, construction and certification of ships and their associated essential engineering systems;
   (8) Maintain written survey procedures in the English language;
   (9) Have adequate resources, including research, technical, and managerial staff, to ensure appropriate updating and maintaining of class rules and procedures;
   (10) Have adequate resources and geographical coverage to carry out all plan review and vessel survey activities associated with delegated functions as well as classification society requirements;
   (11) Employ a minimum of 150 exclusive surveyors;
   (12) Have adequate criteria for hiring and qualifying surveyors and technical staff;
   (13) Have an adequate program for continued training of surveyors and technical staff;
   (14) Have a corporate office in the United States that provides a continuous management and administrative presence;
   (15) Maintain an internal quality system based on ANSI/ASQC Q9001 or an equivalent quality standard;
   (16) Determine classed vessels comply with class rules, during appropriate surveys and inspection;
   (17) Determine that attended vessels comply with all statutory requirements related to delegated functions, during appropriate surveys and inspection;
   (18) Monitor all activities related to delegated functions for consistency and required end-results;
   (19) Maintain and ensure compliance with a Code of Ethics that recognizes the inherent responsibility associated with delegation of authority;
   (20) Not be under the financial control of shipowners or shipbuilders, or of others engaged commercially in the manufacture, equipping, repair or operation of ships;
   (21) Not be financially dependent on a single commercial enterprise for its revenue;
   (22) Not have any business interest in, or share of ownership of, any vessel in its classed fleet; and
   (23) Not be involved in any activities which could result in a conflict of interest.

(b) Recognition may be granted after it is established that the classification society has an acceptable record of vessel detentions attributed to classification society performance under the Coast Guard Port State Control Program.

§ 8.240 Application for recognition.

(a) A classification society must apply for recognition in writing to the Commandant (G-MSE).

(b) An application must indicate which specific authority the classification society seeks to have delegated.

(c) Upon verification from the Coast Guard that the conditions of reciprocity have been met in accordance with § 8.120, the requesting classification society must submit documentation to establish that it meets the requirements of § 8.230.

§ 8.250 Acceptance of standards and functions delegated under existing regulations.

(a) Classification society class rules will only be accepted as equivalent to Coast Guard regulatory standards when that classification society has received
Coast Guard, DOT

§ 8.330 Termination of classification society authority.

(a) The Coast Guard may terminate an authorization agreement with a classification society if:
   (1) The Commandant revokes the classification society’s recognition, as specified in §8.260; or
   (2) The classification society fails to comply with the conditions of the authorization agreement as specified in §8.130.

(b) In the event that a flag administration of a country changes conditions related to the authority that is delegated to ABS, the Commandant may modify or revoke the Coast Guard’s authorization of that classification society that has its headquarters in that country.

(c) Certificates issued by a classification society which has had its authorization terminated will remain valid until the next classification society survey associated with that certificate is required or until the certificate expires, whichever occurs first.
§ 8.400 Purpose.

This subpart establishes an alternate to subpart 2.01 of this chapter for certification of United States vessels.

§ 8.410 Applicability.

This subpart applies to:
(a) Recognized classification societies; and
(b) U.S. flag vessels that are certified for international voyages and are classified by a recognized classification society that is authorized by the Coast Guard to participate in the Alternate Compliance Program (ACP) as specified in this subpart and whose vessel type is authorized to participate in the ACP per the applicable subchapter of 46 CFR chapter I.

§ 8.420 Classification society authorization to participate in the Alternate Compliance Program.

(a) The Commandant may authorize a recognized classification society to participate in the ACP. Authorization will be based on a satisfactory review of:
(1) Applicable class rules; and
(2) Applicable classification society procedures.
(b) Authorization for a recognized classification society to participate in the ACP will require development of a U.S. Supplement to the society’s class rules that meets the requirements of §8.430 of this part, which must be accepted by the Coast Guard.
(c) A recognized classification society will be eligible to receive authorization to participate in the ACP only after it has performed a delegated function related to general vessel safety assessment, as defined in §8.100, for a two-year period.
(d) If, after this two-year period, the Coast Guard finds that the recognized classification society has not demonstrated the necessary satisfactory performance or lacks adequate experience, the recognized classification society will not be eligible to participate in the ACP. The Coast Guard will provide the reason for this determination to the recognized classification society. A classification society may appeal the decision of the Coast Guard concerning recognition to the Commandant in writing in accordance with 46 CFR 1.03-15(h)(4).
(e) The Coast Guard will enter into a written agreement with a recognized classification society authorized to participate in the ACP. This agreement will define the scope, terms, conditions and requirements of the necessary delegation. Conditions of this agreement are presented in §8.130.

§ 8.430 U.S. Supplement to class rules.

Prior to receiving authorization to participate in the ACP, a recognized classification society must prepare, and receive Commandant (G-MSE) approval of, a U.S. Supplement to the recognized classification society’s class rules. This supplement must include all regulations applicable for issuance of a Certificate of Inspection (COI) which are not, in the opinion of the Commandant, adequately established by either the class rules of that classification society or applicable international regulations.

§ 8.440 Vessel enrollment in the Alternate Compliance Program.

(a) In place of compliance with other applicable provisions of this title, the owner or operator of a vessel subject to plan review and inspection under this subchapter for initial issuance or renewal of a COI may submit the vessel for classification, plan review and inspection by a recognized classification society authorized by the Coast Guard to determine compliance with applicable international treaties and agreements, the classification society’s class rules, and the U.S. Supplement prepared by the classification society and accepted by the Coast Guard.
(b) A vessel owner or operator wishing to have a vessel inspected under paragraph (a) of this section shall submit an Application for Inspection of U.S. Vessel (CG-3752) to the cognizant OCMI, and indicate on the form that the inspection will be conducted by an authorized classification society under the ACP.
(c) Based on reports from an authorized classification society that a vessel complies with applicable international
§ 8.505 Scope and applicability.

(a) This subpart applies to U.S. documented or registered vessels that have a valid COI.
(b) A vessel enrolled in the SIP will be inspected in accordance with its approved Vessel Action Plan (VAP).
(c) The SIP includes all inspections required to renew and maintain a valid COI. The SIP does not include dry-dock examinations, unscheduled inspections related to vessel casualties, equipment treaties and agreements, the classification society’s class rules, and the U.S. Supplement prepared by the classification society and accepted by the Coast Guard, the cognizant OCMI may issue a certificate of inspection to the vessel.

If the OCMI declines to issue a certificate of inspection even though the reports made by the authorized classification society indicate that the vessel meets applicable standards, the vessel owner or operator may appeal the OCMI decision as provided in subpart 1.03 of this chapter.

(d) If reports from an authorized classification society indicate that a vessel does not comply with applicable international treaties and agreements, the classification society’s class rules, and the U.S. Supplement prepared by the classification society and accepted by the Coast Guard, the cognizant OCMI may decline to issue a certificate of inspection. If the OCMI declines to issue a certificate of inspection, the vessel owner or operator may:

(1) Correct the reported deficiencies and make arrangements with the classification society for an additional inspection;
(2) Request inspection by the Coast Guard under other provisions of this subchapter; or
(3) Appeal via the authorized classification society to the Chief, Office of Compliance, Commandant (G-MOC), U.S. Coast Guard, 2100 Second St. SW., Washington, DC 20593-0001.

§ 8.450 Termination of classification society authority.

(a) The Coast Guard may terminate an authorization agreement with a classification society to participate in the Alternate Compliance Program if:
(1) The Commandant revokes the classification society’s recognition, as specified in §8.260; or
(2) The classification society fails to comply with the conditions of the authorization agreement as specified in §8.130.

(b) In the event that a flag administration of a country changes conditions related to the authority that is delegated to ABS, the Commandant may modify or revoke the Coast Guard’s authorization of that classification society that has its headquarters in that country.

(c) Certificates issued by a classification society which has had its authorization to participate in the Alternate Compliance Program terminated will be subject to the provisions of §8.330.

(d) Owners or operators of vessels enrolled in the ACP and classed by a classification society that has its authority to participate in the ACP terminated must:

(1) Change the classification society for the vessel to a classification society that is authorized to participate in the ACP; or
(2) Disenroll the vessel from the ACP.

(e) The Coast Guard will provide guidance to a vessel owner affected by the revocation of a classification society’s authority to participate in the ACP. This will include notification of when the action required under paragraph (d) of this section must be completed.
§ 8.510 Definitions.

The following definitions apply to this subpart:

Civil penalty means a final assessment under the provisions of 33 CFR part 1, subpart 1.07 or part 20 of this chapter.

Coast Guard SIP Advisor means the Coast Guard marine inspector assigned by the Officer in Charge, Marine Inspection (OCMI), to assist in the development of an action plan.

Company means the owner of the vessel or any other organization or person, such as the manager or the bareboat charterer, who operates a vessel under the SIP.

Company Action Plan (CAP) means the document describing a company's organization, policies, and responsibilities required for participation in the SIP.

Company SIP Agent means the individual who is responsible for the Company Action Plan and the Vessel Action Plan development and implementation and who has the authority to bind the company to the terms of these plans.

Correction Report means a document which sets out specific vessel deficiencies and is used to record their correction by the company.

Documented deficiency means an incident documented in a Coast Guard record in which the condition of a vessel, its equipment, or its operation was not in compliance with Coast Guard regulations.

Examination Checklist means any document or form approved in the VAP, that may be used by company employees to record the periodic examinations required by the VAP.

Inspection Criteria References (ICR) means the individual pages in the VAP that list each item on the vessel required by regulation to be periodically inspected.

Inspection Schedule and Verification (ISV) means the document that lists the items to be inspected and the intervals for their inspection, and on which is recorded the completion of required examinations and tests conducted by designated company employees.

Prototype SIP plan means the SIP plans developed for a company or vessel participating in a Coast Guard District-or OCMI-endorsed SIP before August 18, 1998.

Reportable casualty means a marine casualty or accident required to be reported under 46 CFR part 4, subpart 4.05 of this chapter.

Streamlined Inspection Program (SIP) means the alternative inspection program set out in this subpart.

Vessel Action Plan (VAP) means the document that prescribes procedures for maintenance, examination, and inspection of a vessel enrolled in the SIP.

§ 8.515 Eligibility.

(a) The company must—

(1) Have owned or operated at least one U.S. documented or registered vessel for a minimum of 3 consecutive years before the SIP application date; and

(2) Have paid all civil penalties and user fees.

(b) Except as allowed by paragraph (c) of this section, each vessel must—

(1) Have been in operation with an eligible owner or operator for at least 3 consecutive years before the SIP application date;

(2) Have had no revocation of its COI during the 3 years before the SIP application date; and

(3) Have no documented deficiency for any of the following in the 3 years before the SIP application date:
   (i) Any vessel operation inconsistent with the operating details specified on its COI.
   (ii) Operating without the required amount of lifesaving appliances on board the vessel or with inoperable survival craft.
   (iii) Operating without the required firefighting equipment on board the vessel or with an inoperable fire pump(s).
   (iv) Unauthorized modifications to the vessel’s approved systems or structure, such as fixed firefighting systems, pollution prevention arrangements, overcurrent protection devices, or watertight boundary arrangements.
§ 8.535 Training and operational evaluation.

When the CAP and VAP(s) have been approved by the cognizant OCMI, the company may begin training and operating under the plans. This evaluation phase includes the following:

(v) Operating without the required navigation equipment on board the vessel or with inoperable navigation equipment.

(c) A vessel constructed for, or acquired by, a company with one or more vessels enrolled in the SIP need not meet the requirement in paragraph (b)(1) of this section for enrollment in the SIP, provided that the vessel holds a valid COI issued by the OCMI where the vessel will principally operate.

§ 8.520 Application.

To apply for SIP enrollment, a company will submit an application, in writing, to the cognizant OCMI. The application must contain the following:

(a) A statement that the company and prospective vessel(s) meet the requirements of §8.515.

(b) A summation of the company’s current status in relation to §8.530(a).

(c) The name and official number of the vessel(s) the company intends to enroll in the SIP.

(d) The name and contact information for the Company SIP Agent.

§ 8.525 OCMI review and action.

(a) The cognizant OCMI will review Coast Guard records for the 3 years before the SIP application date to verify the eligibility of the company and each vessel listed in the SIP application.

(b) If the company and one or more of its vessels meets the eligibility requirements contained in §8.515, the cognizant OCMI will notify the company of its eligibility and assign a Coast Guard SIP Advisor.

(c) If, according to Coast Guard records, a company or vessel does not meet the eligibility requirements contained in §8.515, the cognizant OCMI will notify the company in writing of its ineligibility stating each reason for not accepting the company or a vessel.

§ 8.530 Plan development and approval.

The Company SIP Agent will develop the CAP and VAP with guidance from the Coast Guard SIP Advisor for OCMI approval.

(a) Company Action Plan. The CAP shall include at least the following:

(1) A copy of the OCMI CAP approval letter (once the CAP is approved).

(2) An organization commitment statement.

(3) A company organization chart that includes the name(s) of the designated SIP support personnel who will be responsible for implementation and oversight of the approved CAP and VAP(s).

(4) A statement describing the responsibilities and authorities of personnel involved in the examination and maintenance of the vessel(s) for the company.

(5) A description of the method the company will use to integrate the applicable subpart regulations into its SIP and the method or system used to initiate corrective action.

(6) A description of the company’s safety program.

(7) A description of the company’s environmental protection program.

(8) A description of the company’s training infrastructure, the method used to track and record training for individual employees, and the training required for the designated SIP support personnel to implement the CAP and the VAP.

(9) A master list of all SIP documents and ICRs that the company intends to use in its VAP(s).

(10) Appendices for each approved VAP.

(b) Vessel Action Plan. Each VAP shall include at least the following:

(1) A copy of the OCMI VAP approval letter (once the VAP is approved).

(2) A description of the method that will be used to integrate the VAP into the vessel’s regular operations.

(3) Vessel-specific ICRs.

(4) Vessel-specific ISV forms.

(5) Vessel-specific examination checklists.

(6) Correction reports.

(c) Plan Approval. The Company SIP Agent will submit the CAP and each VAP to the cognizant OCMI for approval. Once approved, a copy of the VAP shall be kept on board the vessel.
§ 8.540  Enrollment in SIP.

(a) The company shall provide the designated SIP support personnel with training as required by the CAP.

(b) The vessel must operate and be examined under the VAP for a period of at least 3 months.

(c) During the operational periods, the Coast Guard SIP Advisor will conduct an ongoing evaluation of the vessel's operation, the training records, and the ability of all designated persons to perform their assigned functions under the VAP. The Coast Guard SIP Advisor will report periodically to the cognizant OCMI and the Company SIP Agent on the vessel's performance, and make recommendations, if needed.

(d) Revisions recommended under paragraph (c) of this section, or any additional operational periods under a revised CAP or VAP as may be required by the cognizant OCMI must be completed prior to enrollment.

§ 8.545  Scope of inspection for enrolled vessels.

(a) A Coast Guard marine inspector will conduct required periodic and follow-on inspections necessary to ensure compliance with Coast Guard regulations.

(b) A Coast Guard marine inspector will conduct the inspections in paragraph (a) of this section in accordance with the procedures set out in the VAP. These inspections will normally include the following:

(1) Administrative review. This portion of the inspection consists of a review of prior Coast Guard SIP inspection forms, the contents of the VAP, and other certifications of equipment and vessel systems.

(2) SIP performance review. This portion of the inspection consists of a review of vessel SIP documentation and records, review of the SIP procedures, and a company evaluation of their SIP.

(3) Material review. This portion of the inspection consists of a general examination of the vessel, witnessing the examination of selected items under the VAP by company designated SIP support personnel, inspection of selected items, and witnessing crew performance in drills.

(4) Conclusion and recommendations. This portion of the inspection contains the Coast Guard marine inspector's evaluation of regulatory compliance of the vessel under its VAP.

(c) A Coast Guard marine inspector may conduct any additional tests or examinations of vessel equipment or systems necessary to ensure compliance with Coast Guard regulations during an inspection covered in paragraph (a) of this section.

§ 8.550  Plan review and revisions.

(a) Mandatory reviews and revisions. The CAP and VAP(s) must be reviewed and revised as follows:

(1) Every 2 years after the plan approval date, the company shall review the CAP and update all information required by §8.530.

(2) Every 5 years after the plan approval date, the Coast Guard SIP Advisor and the Company SIP Agent will review the VAP.

(3) If a reportable casualty occurs, the cognizant OCMI will review the portions of the VAP related to equipment, training, personnel, and systems involved in the casualty and determine whether revisions to the VAP are appropriate.

(4) When statutes or regulations change, the appropriate sections of the CAP and VAP(s) will be revised.

(b) Discretionary reviews and revisions. The CAP and VAP(s) may be reviewed and revised by the company at any time. The revisions must be submitted to the cognizant OCMI for approval.

§ 8.555  Disenrollment.

(a) Voluntary disenrollment. A company may request SIP disenrollment (which includes all of its vessels) or may request disenrollment of a specific vessel from the SIP by writing to the cognizant OCMI. The OCMI will then
issue a letter disenrolling the vessel or company. Disenrolled vessels will be inspected in accordance with the requirements of 46 CFR part 2, subpart 2.01 of this chapter.

(b) Company disenrollment. The OCMI may issue a letter disenrolling the company if the company no longer has at least one enrolled vessel or if the company fails to continue to meet the eligibility requirements in §8.515.

(c) Vessel disenrollment. The OCMI may issue a letter disenrolling a vessel if any one or more of the following occurs:

1. The sale of the vessel.
2. A finalized letter of warning or assessment of a civil penalty for—
   i. Operating outside the scope of the vessel’s COI or Stability Letter;
   ii. Not reporting a personnel or material casualty required to be reported under 46 CFR part 4; or
   iii. A material deficiency listed in §8.515(b)(3).

§8.560 Waiver.

(a) A Coast Guard District Commander may waive any requirement of this subpart—

1. If good cause exists for granting a waiver; and
2. If the safety of the vessel and those on board will not be adversely affected.

(b) Requests for waiver of any requirement of this subpart must be submitted in writing to the cognizant OCMI for review before forwarding to the Coast Guard District Commander for action.

(c) A copy of each waiver granted under this section shall be maintained at all times in the VAP.

§8.565 Appeal.

A company may appeal any decision or action taken under this subpart in accordance with 46 CFR part 1, subpart 1.03 of this chapter.

§8.570 Interim approval of prototype SIP company or vessel plans.

(a) A company operating under an approved prototype SIP company or vessel plan must apply in writing by November 1, 1998, to the cognizant OCMI for approval to continue operating under the plans while revisions are developed to bring the prototype SIP company or vessel plan into conformance with this subpart. The OCMI may approve the request for a period of up to 3 years.

(b) A company that does not request approval as required by paragraph (a) of this section or does not obtain approval to continue operating under a prototype SIP company or vessel plan by February 1, 1999, may no longer operate under the plans and will be inspected in accordance with the requirements of 46 CFR part 2, subpart 2.01 of this chapter.

PART 9—EXTRA COMPENSATION FOR OVERTIME SERVICES

Sec.
9.1 Extra compensation; Coast Guard civilian personnel.
9.2 Payment although no actual service performed.
9.3 Overtime earnings not basis for overtime under Federal Employees Pay Act of 1945.
9.4 Waiting time; actual report for duties.
9.5 Night, Sunday, and holiday defined.
9.6 Rate for night service.
9.7 Rate for Sunday or holiday services.
9.8 Broken periods.
9.9 Two hours between broken periods.
9.10 Waiting time.
9.11 Proration of charges.
9.12 Travel status overtime.
9.13 Congressional appropriations necessary.
9.14 Assessment and collection of fees.
9.15 Application form.
9.16 Billing for services.
9.17 Protests.


SOURCE: CGD 74-119, 39 FR 33336, Sept. 17, 1974, unless otherwise noted.

§9.1 Extra compensation; Coast Guard civilian personnel.

Civilians assigned to the duties formerly assigned to local inspectors and their assistants, United States shipping commissioners and their deputies and assistants prior to Reorganization Plan No. 3 of 1946 (3 CFR, 1946 Supp.), and customs officers and employees, while performing duties in connection with the inspection of vessels or their equipment, supplying or signing on or discharging crews of vessels, at night or on Sundays and holidays, shall receive extra compensation to be paid by
§ 9.2 Payment although no actual service performed.

The rates of extra compensation are payable in cases where the services of officers or employees have been duly requested and the officers or employees have reported for duty, even though no actual service may be performed.

§ 9.3 Overtime earnings not basis for overtime under Federal Employees Pay Act of 1945.

Overtime, Sunday, and holiday services which are covered by payments under this part shall not also form a basis for overtime or extra pay under the Federal Employees Pay Act of 1945.

§ 9.4 Waiting time; actual report for duties.

Extra compensation for waiting time will not be allowed unless and until an officer or employee actually reports for duty.

§ 9.5 Night, Sunday, and holiday defined.

(a) For the purpose of this part the word night shall mean the time between 5 p.m. of any day and 8 a.m. of the following day.

(b) The term holiday shall mean only national legal public holidays, viz., January 1, February 22, May 30, July 4, the 1st Monday in September, November 11, the 4th Thursday in November, December 25, and such other days as may be declared legal public holidays by an act of Congress or by an Executive order of the President of the United States.

(c) The term Sunday shall include the first day of each calendar week.

§ 9.6 Rate for night service.

The rate of extra compensation for authorized overtime services performed at night on any week day is hereby fixed at one half the gross daily rate of regular pay of the employee who performs the services for each 2 hours of compensable time, any fraction of 2 hours amounting to at least one hour to be counted as 2 hours. In computing the amount earned, each 2 hours is the time period for the purpose of computation, at least one hour means the minimum service in each period for which extra pay may be granted. If service continues beyond a 2 hour period, it must extend for at least one hour into the following 2 hour period to be entitled to extra pay for the second period. When the overtime extends beyond 5 p.m., payment of extra compensation from 5 p.m. for services consisting of at least one hour is authorized, even though services may not actually begin until 7 p.m., 9 p.m., or later: Provided, That the officer rendering the service remained on duty from 5 p.m., in which case the time between 5 p.m., and the time of beginning the actual service shall be computed as waiting time; and where the actual services begin as late as 9 p.m., there should be an affirmative statement that the officer was required to remain on duty between 5 p.m. and 9 p.m., if a charge for waiting time is made. The maximum amount of extra compensation which may be paid an employee for services during one night shall not exceed two and one-half times the gross daily rate of his regular pay.

§ 9.7 Rate for Sunday or holiday services.

The rate of extra compensation for Sunday or holiday services is hereby fixed at twice the gross daily rate of regular pay of the employee who performs the service, for any and all services totaling an aggregate of not more than nine hours, with one hour for food and rest, during the 24 hours from midnight to midnight of the Sunday or holiday including actual waiting time and time required for travel between posts of duty but not including other time not spent at the post of duty. This rate shall apply regardless of the length of time served within the aggregate of the aforesaid 9 hours, whether it is served continuously or in broken periods, and whether it is served for one or more applicants. Services in excess of an aggregate of the aforesaid 9 hours performed during the 24 hours of a Sunday or holiday shall be compensated on the same basis as overtime services performed at night on a week day, the time between the completion of the master, owner, or agent of the vessel to the local United States collector of customs or his representative. (See § 9.16.)
§ 9.8 Broken periods.
In computing extra compensation where the services rendered are in broken periods and less than 2 hours intervene between such broken periods the time served should be combined with the waiting time and computed as continuous service.

§ 9.9 Two hours between broken periods.
Where 2 hours or more intervene between broken periods, one-half day’s extra pay will be allowed for each distinct 2-hour period or part of a 2-hour period, if waiting time and actual service rendered within each period consists of at least 1 hour.

§ 9.10 Waiting time.
The same construction should be given the act when charging for waiting time as governs the charge for services actually rendered. No charge should be made unless after having reported for duty the waiting time amounts to at least one hour.

§ 9.11 Proration of charges.
If services are performed for two or more applicants during one continuous tour of overtime duty, the charge for the extra compensation earned shall be prorated equitably according to the time attributable to the services performed for each applicant.

§ 9.12 Travel status overtime.
When employees are in travel status, overtime shall apply the same as at official station.

§ 9.13 Congressional appropriations necessary.
Payment of extra compensation for overtime services shall be subject to appropriations being made therefor by Congress.

§ 9.14 Assessment and collection of fees.
Assessment and collection of fees against steamship companies for overtime services shall be made even though the payment to employees for such services may not be made until funds are appropriated for that purpose.

§ 9.15 Application form.
An application on a form prescribed by the Commandant of the Coast Guard, shall be filed with the office being requested to furnish overtime services before such assignment can be made.

§ 9.16 Billing for services.
Overtime services shall be billed to the steamship companies on collection voucher provided for that purpose. Remittance shall be made by postal money order or certified check payable to the Collector of Customs, Treasury Department and forwarded to that officer at the port indicated on the voucher, who shall in turn deposit such remittance to a properly designated receipt account.

§ 9.17 Protests.
Protests against the exaction of extra compensation shall be forwarded to the Commandant of the Coast Guard.
INDEX

SUBCHAPTER A—PROCEDURES APPLICABLE TO THE PUBLIC

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Transportation.

Part, subpart, or section

A

Absentia ................................................................. 5.527(d)
Acceptance of standards and functions delegated under existing regulations ........................................ 8.250
Acting under authority of license, certificate or document ................................................................. 5.57
Action on appeal ......................................................... 5.705
Action on Marine Board of Investigation report ................. 4.09-30
Action on petition ..................................................... 5.605
Action on review ...................................................... 5.805
Acts or offenses for which revocation of licenses, certificates or documents is mandatory ..................... 5.61
Addiction ........................................................................ 5.35
Adherence to rules of evidence ................................................. 4.19-5
Admissibility of respondent's Coast Guard records prior to entry of findings and conclusions .................... 5.549
Admission ........................................................................ 5.63, 5.533
Administrative actions ......................................................... 5.5
Administrative Law Judge ............................................... 5.1, 5.19
Administrative Law Judge's findings and conclusions ......... 5.563
Aggravation ..................................................................... 5.565
Aialik Cape, AK .................................................................. 7.160
Aid to navigation ............................................................... 4.05-20
Alaska ........................................................................... 2.01-80, 7.150, 7.155, 7.160, 7.165, 7.170, 7.175, 7.180
Alcohol or drug use by individuals directly involved in casualties ........................................ 4.05-12
Aleutian Islands, AK .......................................................... 7.170
Allision ............................................................................ 4.05-1(a)(1)
Allowances, payment of ..................................................... 5.401
Alternative Compliance Program ........................................ 8.400
Agreement conditions ......................................................... 8.130
Applicability ................................................................. 8.410
Classification society authorization to participate in the Program ..................................................... 8.420
Purpose ............ Termination of classification society authority ........................................ 8.450
U.S. supplement to class rules ............................................. 8.430
Vessel enrollment in the Program ........................................ 8.440
American Bureau of Shipping (ABS) .................................. 8.110
American National Standards Institute (ANSI) .............. 8.110
Analysis and follow-up procedures for specimen .......... 4.06-50
Annual inspection fee for vessels ......................................... 2.10-101
Answer ................................................................. 5.527
Appeal cases in general ..................................................... 5.701
Appeal cases remanded for further proceedings ................. 5.709
Appeal from action on petition ............................................. 5.607

89
Availability of records .......................................................... 4.13
Authorized classification society .......................................... 8.100
Authority for regulations ..................................................... 3.01-3, 4.01, 5.1
Attorney General .................................................................... 5.69
Cape Charles, VA ..................................................................... 7.45
Cape Blanco, OR ...................................................................... 7.140
Cape Ann, MA ........................................................................ 7.10
Canadian (BC) ........................................................................ 7.150
California .............................................................................. 7.115, 7.120, 7.125, 7.130, 7.135
            7.140
Cape Charles, VA ................................................................. 7.45

B
Billing for services ............................................................... 9.16
Block Island Sound, RI .......................................................... 7.2
Blueprints ............................................................................ 2.90
Board .................................................................................. 4.40-5(b)
British Virgin Island ............................................................. 2.10-120(a)
Broken periods ................................................................. 8.19
Burden of proof .................................................................... 5.539
Buzzards Bay, MA ............................................................... 7.20

C
California .............................................................................. 7.115, 7.120, 7.125, 7.130, 7.135
Canadian (BC) ................................................................. 7.150
Cape Ann, MA ................................................................. 7.10
Cape Blanco, OR ............................................................... 7.140
Cape Charles, VA ............................................................. 7.45
Subchapter A Index

Cape Fear, NC .......................................................... 7.60
Cape Flattery, WA ...................................................... 7.140
Cape Henlopen, DE ..................................................... 7.45
Cape Henry, VA .......................................................... 7.35
Cape May, NJ ............................................................... 7.36
Cape Spencer, Alaska .................................................. 7.155
Cape St. Elias, AK ........................................................ 7.155
Cargo vessel ................................................................ 2.01-15(a)(3), 2.01-15(b)(3), 2.01-40
Cause or probable cause determinations from Board investigations .......... 4.40-20
Certificates:  
  Amending .................................................................... 2.01-5(c)
  Applications .................................................................. 2.01-25(b)
  Description .................................................................... 2.01-5(b)
  Exempted vessel ............................................................. 2.01-25(e)
  Foreign flag vessels ....................................................... 2.01-25(g)
  Issuance of .................................................................... 2.01-5(a)
  Issued to foreign vessels ................................................. 2.01-6
  Of approval ................................................................. 2.75-5
  Of inspection .................................................................. 2.01-5
  Or documents issued by Coast Guard or others .......................... 2.95-1, 2.95-5
  Posting ......................................................................... 2.01-25(f)
  Changes in vessel service ................................................ 2.10-115
  Chairman ..................................................................... 4.40-5(c)
  Charges ........................................................................ 4.09-35, 5.23, 5.107
  Charleston Harbor, SC ................................................... 7.65
  Chemical testing, mandatory, following serious marine incidents involv-  
  ing vessels in commercial service ....................................... 4.03-7
  Chesapeake Bay and tributaries ......................................... 7.50
  Chief engineer’s report .................................................... 2.20-40
  Chronological record of seaman’s previous employment .................... 6.07
  Class rules ..................................................................... 8.320
  Classification society authorization to issue international certifi-  
  cate ............................................................................. 8.420
  Compliance Program ...................................................... 8.420
  Classes of vessels (including motorboats) examined or inspected and cer-  
  tificated ...................................................................... 2.01-7
  Coast Guard:  
    Civilian personnel ........................................................ 9.1
    District ......................................................................... 4.03-20, 5.13
    Marine casualty investigations for the Board .......................... 4.40-25
  National Transportation Safety Board Marine Casualty Investi-  
  gations ........................................................................ 4.40
  Coercion of witnesses .................................................... 4.11-5
  Collection of specimens in incidents involving fatalities ..................... 4.06-30
  Collection requirements ................................................ 4.06-20
  Collector of Customs, Treasury Department .................................. 9.16
  Commandant’s decisions ................................................. 5.107
  Computation of time ................................................................ 4.21-1
  Conduct of investigations ................................................ 5.101
  Congressional appropriations necessary ................................... 9.13
  Construction of regulations ................................................ 4.19-5, 5.51
  Conviction for a dangerous drug law violation, use of, or addiction to the  
    use of dangerous drugs .................................................. 5.35

91
Corrections or amendments of charges and/or specifications ........................................... 5.525
Counsel for witnesses and parties in interest ................................................................. 4.07-35
Course of action available ............................................................................................. 5.105

D

Dangerous drug ............................................................................................................... 4.05-12, 5.35
Decision and order of the Administrative Law Judge on appeal to the Commandant ........................................................................................................... 5.707
Decision of the Commandant on Appeal ...................................................................... 5.715
Definitions ..................................................................................................................... 1.01-5, 1.03-10, 2.10-25, 3.05, 4.03, 4.40-5, 8.100
Delaware Bay and tributaries ...................................................................................... 7.40
Delegated function ........................................................................................................... 8.100
Delegated function related to general vessel safety assessment ................................ 8.100
Delegation of OCMI signature authority ....................................................................... 2.01-30
Delivery of decision ...................................................................................................... 5.571
Deposit or Surrender of License, Certificate or Document:
  Return or issuance of a license, certificate of registry, or merchant mariners document ........................................................................................................... 5.205
  Voluntary deposits .................................................................................................... 5.201
  Voluntary surrender .................................................................................................. 5.203
Deposition ....................................................................................................................... 4.07-25, 5.553
Designation of Oceanographic Research Vessels:
  Application ..................................................................................................................... 3.03
  Authority and Purpose ................................................................................................. 3.01
  Authority for regulations ............................................................................................ 3.01-3
  Definitions .................................................................................................................... 3.05
  Designation .................................................................................................................... 3.10
  Letter of designation .................................................................................................... 3.05-1
  Oceanographic research vessel ................................................................................... 3.05-3
  Procedures for designating oceanographic research vessels ..................................... 3.10-1
  Purpose of regulations ................................................................................................. 3.01-1
  Renewal of letter of designation .................................................................................. 3.10-5
  Right of appeal ............................................................................................................. 3.10-10
  Vessel subject to the requirements .............................................................................. 3.03-1
Disqualification of Administrative Law Judge ............................................................ 5.507
District Commander ....................................................................................................... 5.507
Domestic vessels, inspection requirements ................................................................... 2.01-10
Drawings ......................................................................................................................... 2.90
Drill ship MODU ........................................................................................................... 2.10-25

E

Eastport, ME .................................................................................................................... 7.10
Employees of vessels controlled by Army or Navy as witnesses .................................. 4.11-1
Enforcement ..................................................................................................................... 5.307
Equipment or material required to be approved ........................................................... 2.95-10
Evidence ......................................................................................................................... 5.537, 5.566
Evidence of criminal liability ......................................................................................... 5.69
Excursion permit ............................................................................................................. 2.01-45
Exemptions ..................................................................................................................... 2.10-5
Existing vessel ............................................................................................................... 1.03-10(b)(2)(c)
Explosives ....................................................................................................................... 6.15
Extra compensation for overtime services:
  Application form ........................................................................................................... 9.15
  Assessment and collection fees ................................................................................... 9.14
  Billing for services ...................................................................................................... 9.16
  Broken periods ............................................................................................................ 9.8
  Congressional appropriation necessary ....................................................................... 9.13
Subchapter A Index

Coast Guard civilian personnel................................................................. 9.1
Night, Sunday, and holiday defined....................................................... 9.5
Overtime earnings not basis for overtime under Federal Employees Pay Act of 1945......................................................... 9.3
Payment although no actual service performed.................................. 9.2
Proration of charges.............................................................................. 9.11
Protests.................................................................................................. 9.17
Rate for night service........................................................................ 9.6
Travel status overtime........................................................................ 9.12
Waiting time ....................................................................................... 9.10
Waiting time; actual report for duties.................................................. 9.4

F
Failure of respondent to appear at hearing......................................... 5.515
Federal Employees Pay Act of 1945...................................................... 9.3
Federal law ........................................................................................... 5.541(a)(1)
Fees ...................................................................................................... 2.10
Annual inspection fee........................................................................ 2.10-101
Applicability....................................................................................... 2.10-1
Changes in vessel service................................................................. 2.10-115
Definitions........................................................................................ 2.10-25
Exemptions......................................................................................... 2.10-5
For examination of foreign mobile offshore drilling units............. 2.10-130
For examination of foreign tankships............................................. 2.10-125
Overseas inspection and examination fees...................................... 2.10-120
Penalties............................................................................................. 2.10-135
Prepayment of annual vessel inspection fees.................................. 2.10-105
Waivers.............................................................................................. 2.10-10
Ferry.................................................................................................... 2.10-25
Fire prevention equipment.............................................................. 2.20-50
Fishing vessels.................................................................................. 2.01-50
Florida................................................................................................. 7.85, 7.90, 7.95
Florida Reefs and Keys..................................................................... 7.100
Folly Island, SC.................................................................................. 7.70
Foreign Mobile Offshore Drilling Units............................................ 2.10-130
Foreign tankships......................................................................... 2.10-125
Foreign Units of Coast Guard, investigations by......................... 4.07-45
Foreign vessel, inspection requirements...................................... 2.10-13
Freight barge.................................................................................... 2.10-25
Freight ship....................................................................................... 2.10-25
Freight vessel.................................................................................... 2.10-25

G
General.............................................................................................. 1.03-15, 5.501
Flow of functions.............................................................................. 1.03-15
Purpose of boundary lines.............................................................. 7.1
Requirements.................................................................................. 2.10-20, 2.90-1
Georgia.............................................................................................. 7.75, 7.85
Governmental organizations......................................................... 5.541(a)(3)
Gross tons......................................................................................... 8.100
Gulf Coast......................................................................................... 7.105

H
Handling and shipping, specimen....................................................... 4.06-40
Haro Strait, WA................................................................................ 7.145
Hawaii .................................................................................................................. 7.110
Hazardous materials, incidents involving ......................................................... 4.05-30
Hazardous ship's stores ...................................................................................... 2.75-60
Hearings:
Administrative Law Judge's findings and conclusions ........................................ 5.563
Admissibility of respondent's Coast Guard records prior to entry of
findings and conclusions .................................................................................. 5.549
Answer .................................................................................................................. 5.527
Appearances .......................................................................................................... 5.513
Argument ............................................................................................................... 5.535
Burden of Proof ..................................................................................................... 5.539
Certification of extracts from shipping articles, logbooks, etc ......................... 5.543
Continuance of a hearing ...................................................................................... 5.511
Corrections or amendments of charges and/or specifications ......................... 5.525
Delivery of decision ............................................................................................. 5.571
Disqualification of Administrative Law Judge .................................................. 5.507
Evidence ............................................................................................................. 5.537
Failure of respondent to appear at hearing ......................................................... 5.515
General .................................................................................................................. 5.501
Medical examination of respondent .................................................................... 5.557
Modification of Administrative Law Judge's decision and order ...................... 5.577
Motions or objections .......................................................................................... 5.523
Notification of right of appeal ............................................................................ 5.573
Official notice by Commandant and Administrative Law Judge ...................... 5.541
Opening statement by or on behalf of the respondent ....................................... 5.531
Opening the hearing ............................................................................................ 5.509
Order ..................................................................................................................... 5.567
Presentation of case where there is an admission or no contest answer .......... 5.533
Public access to hearings ..................................................................................... 5.505
Record of the hearing ........................................................................................ 5.503
Rights of respondent .......................................................................................... 5.519
Selection of an appropriate order ........................................................................ 5.569
Submission of prior record and evidence in aggravation or mitigation ......... 5.565
Submission of proposed findings and conclusion ............................................. 5.561
Testimony by deposition ..................................................................................... 5.553
Treatises ............................................................................................................... 5.555
Use of judgement of conviction ......................................................................... 5.547
Verification of license, certificate, or document ............................................... 5.521
Witnesses excluded from hearing room ............................................................. 5.517
Hilton Head Island, SC ........................................................................................ 7.70
Holiday defined .................................................................................................... 9.5

I

Incidents involving hazardous materials ............................................................. 4.05-30
Incompetence ........................................................................................................ 5.31, 5.61(a)(9)
Incorporated by reference .................................................................................... 8.110
Individual directly involved in a serious marine incident ............................... 4.05-4
Industrial vessel .................................................................................................. 2.10-25
Information to be furnished Marine Board of Investigation ......................... 4.07-55
Initiating suspension and revocation proceedings ........................................... 5.53
Inspections:
Applications ......................................................................................................... 2.01-1
Application of regulations to vessel or tankships on an international
voyage .................................................................................................................. 2.01-8
Subchapter A Index

Certificates issued to foreign vessels ............................................................. 2.01-6
Certificates of inspection .............................................................................. 2.01-5
Classes of vessels (including motorboats) examined or inspected and certificated ....................................................................................... 2.01-7
Delegation of OCMI signature authority ..................................................... 2.01-30
Excursion permit ......................................................................................... 2.01-45
International Convention for Safety of Life at Sea, 1974 ............................. 2.01-35
Notification of inspection ............................................................................. 2.01-3
Overtime compensation ............................................................................... 2.01-60
Passengers or persons in addition to crew on cargo or tank vessels ............. 2.01-40
Persons other than crew on towing, oyster, or fishing steam vessels ............. 2.01-50
Requirements for:
Domestic vessels .......................................................................................... 2.01-10
Foreign vessels .............................................................................................. 2.01-13
Revocation of certificates of inspection ...................................................... 2.01-20
Right of appeal ............................................................................................... 2.01-70
Vessel inspections in Alaska ........................................................................ 2.01-80
Vessel repairs ................................................................................................. 2.01-15

Interference with master, ship's officers, or government officials in performance of official duties ............................................................... 5.61(a)(10)
International Convention for Safety of Life at Sea, 1974 ............................. 2.01-25
International voyage ..................................................................................... 2.01-8
Investigations ................................................................................................. 4.07
Commandant or District Commander to order investigation ......................... 4.7-1
Counsel for witnesses and parties in interest ............................................... 4.07-35
Foreign Units of Coast Guard, investigations by ......................................... 4.07-45
Information to be furnished Marine Board of Investigation ........................ 4.07-55
Investigating officers, powers of ................................................................... 4.07-5
Opening statement .......................................................................................... 4.07-7
Recommendations, action on ........................................................................ 4.07-15
Report of investigation .................................................................................. 4.07-10
Testimony of witnesses in other districts, depositions .................................. 4.07-25
Testimony of witnesses under oath ............................................................... 4.07-30
Transfer of jurisdiction .................................................................................. 4.07-20
Investigating officer ...................................................................................... 4.03-30, 5.15
Issuance of subpoenas ................................................................................. 5.301

J
Judgement .................................................................................................... 5.547
Judicial review ................................................................................................. 1.01-30
Jurisdiction .................................................................................................... 4.07-20

K
Kenai Peninsula, AK ....................................................................................... 7.165
Kodiak Island, AK ......................................................................................... 7.165
Kotzebue Sound, AK ..................................................................................... 7.180

L
Law enforcement officer .................................................................................. 4.03-55
Letter of Compliance .................................................................................... 2.10-125(a), 2.10-130(a)(b)
Letter of designation ..................................................................................... 3.05-1
License ........................................................................................................ 5.57, 5.61, 5.205, 5.521, 5.707, 5.715
Lifesaving equipment ...................................................................................... 2.20-50
Liquefied gas tankship ................................................................................. 2.10-25
Little Talbot Island, FL ................................................................. 7.85
Load lines, assignment of .................................................. 2.85-2, 2.85-1
Logbooks .................................................................................... 5.943
Long Island Sound, NY ............................................................. 7.20

M

Major marine casualty ................................................................. 4.40-5(d)
Mamala Bay, HI ........................................................................... 7.110
Mandatory chemical testing ............................................................ 4.06
   Responsibilities of individuals involved in serious marine inci-
   dents .................................................................................... 4.06-5
   Responsibilities of the marine employer ................................ 4.06-1
   Required specimens ............................................................ 4.06-10
   Specimen analysis and follow-up procedures .................... 4.06-50
   Specimen collection in incidents involving fatalities ........... 4.06-30
   Specimen collection requirements .................................... 4.06-20
   Specimen handling and shipping ........................................ 4.06-40
   Submission of reports and test results ............................... 4.06-60
   Maritime labor disputes .......................................................... 5.71
   Marine Board of Investigation ............................................... 4.07-55, 4.09, 4.09-5
   Marine casualty investigation by the Board ....................... 4.40-15
   Marine casualty or accident ................................................ 4.03-1, 4.05-1, 4.05-5, 4.05-10
   Marine employer .................................................................... 4.03-45, 4.06-1
   Marine Safety Center ............................................................ 1.03-30
   Marine type, portable fire extinguishers ............................... 2.75-25
   MARPOL 73/78 ...................................................................... 8.100
   Marquesas Keys, FL ............................................................... 7.110
   Massachusetts Bay, MA ......................................................... 7.15
   Medical examination of respondent ................................... 5.557
   Medical facility ........................................................................ 4.03-5
   Medical personnel ................................................................. 4.03-6
   Mental incompetence ............................................................. 5.201
   Merchant mariners document .............................................. 5.57, 5.206, 5.521
   Merchant Vessel Location Filing System ............................. 4.04-3
   Mexican border ..................................................................... 7.120
   Miami, FL ................................................................. 7.100
   Military installations ............................................................ 6.15
   Military Sealift Command .................................................... 6.06
   Minimum standards for a recognized classification society 8.290
   Misconduct .............................................................................. 5.27
   Resulting in loss of life or serious injury ............................... 5.61(a)(2)
   Mobile Offshore Drilling Units ............................................. 2.10-25, 2.10-130
   Modification of Administrative Law Judge's decision and order 5.577
   Montauk Point, NY ............................................................... 7.20
   Motions of objections .......................................................... 5.523
   Murder or attempted murder ................................................ 5.61(a)(4)
   Mutiny .................................................................................... 5.61(a)(5)

N

Nantucket Sound ................................................................. 7.20
Narragansett Bay, MA ............................................................ 7.20
Nautical school vessel ............................................................. 2.10-25
Navy ......................................................................................... 4.11-1
Negligence .............................................................................. 5.29
New vessel ............................................................................... 1.03-10(b)
New York Harbor ................................................................. 7.20
## Subchapter A Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Section Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night defined</td>
<td>9.5</td>
</tr>
<tr>
<td>No contest</td>
<td>5.63, 5.527, 5.529, 5.533</td>
</tr>
<tr>
<td>Non-profit organization</td>
<td>2.10-25</td>
</tr>
<tr>
<td>Notice of marine casualty</td>
<td>4.05-1</td>
</tr>
<tr>
<td>Alcohol or drug use by individuals directly involved in casualties</td>
<td>4.05-12</td>
</tr>
<tr>
<td>Incidents involving hazardous materials</td>
<td>4.05-30</td>
</tr>
<tr>
<td>Report of accident to aid to navigation</td>
<td>4.05-1</td>
</tr>
<tr>
<td>Reports when state of war exists</td>
<td>4.05-25</td>
</tr>
<tr>
<td>Substance of marine casualty notice</td>
<td>4.05-5</td>
</tr>
<tr>
<td>Voyage records, retention of</td>
<td>4.05-15</td>
</tr>
<tr>
<td>Written report of marine casualty</td>
<td>4.05-10</td>
</tr>
<tr>
<td>Notification of inspection</td>
<td>2.01-3</td>
</tr>
<tr>
<td>Notification of right to appeal</td>
<td>5.573</td>
</tr>
<tr>
<td>Nuclear vessel</td>
<td>4.03-35</td>
</tr>
<tr>
<td>Nunivak, AK</td>
<td>7.175</td>
</tr>
<tr>
<td>OMB control numbers (assigned pursuant to the Paperwork Reduction</td>
<td>1.01-35</td>
</tr>
<tr>
<td>Opening statement</td>
<td>4.07-7</td>
</tr>
<tr>
<td>Opening statement by or on behalf of the respondent</td>
<td>5.531</td>
</tr>
<tr>
<td>Opening statement of investigating officer</td>
<td>5.529</td>
</tr>
<tr>
<td>Opening the hearing</td>
<td>5.599</td>
</tr>
<tr>
<td>Order</td>
<td>5.567</td>
</tr>
<tr>
<td>Oregon</td>
<td>7.135, 7.140</td>
</tr>
<tr>
<td>Organization, Coast Guard Marine Safety:</td>
<td></td>
</tr>
<tr>
<td>Districts</td>
<td>1.01-15</td>
</tr>
<tr>
<td>Headquarters</td>
<td>1.01-10</td>
</tr>
<tr>
<td>Overseas inspection and examination fees</td>
<td>2.10-120</td>
</tr>
<tr>
<td>Overtime compensation</td>
<td>2.01-60</td>
</tr>
<tr>
<td>Overtime earnings not basis for overtime under Federal Employees Pay</td>
<td>9.3</td>
</tr>
<tr>
<td>Act of 1945</td>
<td></td>
</tr>
<tr>
<td>Oceanographic vessels</td>
<td>2.01-15(a)(6), 2.01-15(b)(6), 2.10-25</td>
</tr>
<tr>
<td>OCM1</td>
<td>1.03-20, 2.01-30</td>
</tr>
<tr>
<td>Officer in Charge, Marine Inspection (OCMI)</td>
<td>8.100</td>
</tr>
<tr>
<td>Official notice by Commandant and Administrative Law Judge</td>
<td>5.541</td>
</tr>
<tr>
<td>Offshore supply vessel</td>
<td>2.10-25</td>
</tr>
<tr>
<td>Notice of marine casualty notice</td>
<td>4.05-1</td>
</tr>
<tr>
<td>Notice of marine casualty notice</td>
<td>4.05-12</td>
</tr>
<tr>
<td>Notice of right to appeal</td>
<td>5.573</td>
</tr>
<tr>
<td>Nuclear vessel</td>
<td>4.03-35</td>
</tr>
<tr>
<td>Nunivak, AK</td>
<td>7.175</td>
</tr>
</tbody>
</table>

## P

<table>
<thead>
<tr>
<th>Topic</th>
<th>Section Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Coast</td>
<td>7.110</td>
</tr>
<tr>
<td>Paperwork Reduction Act</td>
<td>1.01-35</td>
</tr>
<tr>
<td>Party in interest</td>
<td>4.03-10, 4.07-35</td>
</tr>
<tr>
<td>Passenger barge</td>
<td>2.10-25</td>
</tr>
<tr>
<td>Passengers or persons in addition to crew on cargo or tank vessels</td>
<td>2.01-40</td>
</tr>
<tr>
<td>Passenger vessels</td>
<td>2.01-15(a)(1), 2.01-15(b)(1), 2.10-25</td>
</tr>
<tr>
<td>Payment although no actual service performed</td>
<td>9.2</td>
</tr>
<tr>
<td>Payment of witness fees and allowances</td>
<td>4.09-10, 5.401</td>
</tr>
<tr>
<td>Permits</td>
<td>2.10-135, 2.50, 2.50-1</td>
</tr>
<tr>
<td>Permits for commercial vessels handling explosives at military installations</td>
<td>6.15</td>
</tr>
<tr>
<td>Permits for excursion</td>
<td>2.01-45</td>
</tr>
<tr>
<td>Persons other than crew on towing, oyster, or fishing vessels</td>
<td>2.01-50</td>
</tr>
<tr>
<td>Perversion</td>
<td>5.61(a)(6)</td>
</tr>
<tr>
<td>Petition to reopen hearing</td>
<td></td>
</tr>
<tr>
<td>Physical incompetence hearing</td>
<td>5.201</td>
</tr>
</tbody>
</table>
Physician-patient privilege ................................................................. 5.67
Plans, drawings, or blueprints ............................................................. 2.90
Point Conception, CA ............................................................... 7.125, 7.130
Point Fermin, CA ........................................................................ 7.120
Point Sur, CA .............................................................................. 7.130, 7.135
Point Vincente, CA ..................................................................... 7.125
Point Whitshed, AK ...................................................................... 7.160
Political subdivision .................................................................. 2.10-25
Portable fire extinguishers ............................................................. 2.75-25
Potential vessel casualty ............................................................... 4.04
Powers of:
   Investigating officer ............................................................... 5.103
   Marine Board of Investigation .................................................. 4.09-5
   Preferment of charges .......................................................... 4.09-35
   Preliminary Investigation by Board ........................................... 4.40-10
   Preparations and service of charges and specifications .......... 5.107
   Prepayment of annual vessel inspection fees ....................... 2.10-105
   Presentation of case (where there is an admission or no contest an-
      swer) .................................................................................... 5.533
   Prior record ............................................................................. 5.565
   Proceedings, record of .......................................................... 4.09-20
   Procedures for appeal ............................................................ 5.703
   Procedures for Coast Guard investigation .............................. 4.40-30
   Procedures for designating oceanographic research vessels ..... 3.10-1
   Procedures for effecting individual waivers of navigation and vessel in-
      spection laws and regulations ............................................... 6.01
   Procedures for obtaining approvals ........................................ 2.75-10
   Procedures for submitting petition ......................................... 5.603
   Proof of service ..................................................................... 5.309
   Proration of charges ............................................................. 9.11
   Proof, standard of .............................................................. 5.63
   Protests ............................................................................... 5.17
   Public access to hearings ...................................................... 5.505
   Public availability of records .................................................. 4.13-1
   Public nautical schoolships ..................................................... 2.01-15(a)(5), 2.01-15(b)(5)
   Public vessel ....................................................................... 2.10-25, 4.03-40, 4.40-5(e)

Q
Qualifications for construction personnel .................................. 2.75
Qualified medical personnel ...................................................... 4.03-6
Quashing a subpoena ............................................................... 5.305

R
Rate for night service ................................................................. 9.6
Rate for Sunday or holiday services ........................................ 9.7
Reciprocity ............................................................................. 8.120
Recognition of a classification society ....................................... 8.220
Recognized classification society ......................................... 1.03-10(a), 8.100
Recognized laboratory ............................................................ 2.75-25(c)(3)
Recommendations, action on ................................................... 4.07-15
Record, availability of ............................................................ 4.13-1
Record of hearing .................................................................... 5.503
Record of proceedings .......................................................... 4.09-20
Record of the Coast Guard and the Board .............................. 4.09-35
Recreational vessels ............................................................... 4.03-50
Regulations, authority and scope ............................................ 4.01
Rehabilitation program ............................................................ 5.205

98
Subchapter A Index

Relationship of the National Transportation Safety Board to the Coast Guard ......................................................... 4.40-3
Renewal of letter of designation ................................................................................................................. 3.30-5
Reparis or alteration in lifesaving or fire protection equipment ........................................................................ 2.20-50
Reporting exclusion ........................................................................................................................................ 4.01-3
Report of accident to aid to navigation ........................................................................................................ 4.05-20
Report of Chief engineer ............................................................................................................................. 2.20-40
Report of investigation .................................................................................................................................. 4.07-10
Report of lack of vessel communication ......................................................................................................... 4.04-3
Report of potential vessel casualty ................................................................................................................ 1.04-1
Reports and forms ......................................................................................................................................... 2.20
Reports when state of war exists ................................................................................................................... 4.05-25
Required specimens ........................................................................................................................................ 4.06-10
Requirements and test, safety equipment .................................................................................................... 2.75-15
Rescue Coordination Center (RCC) ............................................................................................................. 4.04-1(a)
Respondent .................................................................................................................................................... 5.303, 5.515, 5.519, 5.531, 5.549, 5.557, 5.565
Responsibilities of individuals directly involved in serious marine incidents .................................................. 4.06-5
Responsibilities of the marine employer ....................................................................................................... 4.06-1
Retention of records by the public ................................................................................................................ 2.95
Revocation ...................................................................................................................................................... 1.01-20, 2.01-20, 5.567
Revocation of a classification society recognition .......................................................................................... 8.260
Right of appeal ................................................................................................................................................ 2.01-70, 3.10-10
Rights of the respondent .............................................................................................................................. 5.519
Rio Grande, TX ............................................................................................................................................. 7.105
Rules for establishing boundary lines ........................................................................................................... 7.5
Sabotage ......................................................................................................................................................... 5.61(a)(7)
Sailing school vessel ........................................................................................................................................ 2.10-25
Sandy Hook, NJ .............................................................................................................................................. 7.35
Santa Catalina Island, CA ............................................................................................................................... 7.115, 7.130
Savannah River .............................................................................................................................................. 7.75
Scope of regulations ....................................................................................................................................... 4.01-1
Sea-going towing vessel .................................................................................................................................... 2.10-25
Selection of an appropriate order ..................................................................................................................... 5.569
Self-elevating MODU ...................................................................................................................................... 2.10-25
Semi-submersible MODU ............................................................................................................................... 2.10-25
Serious marine incident ................................................................................................................................. 4.03-2
Sessions to be public ...................................................................................................................................... 4.09-17
Shipping articles ............................................................................................................................................ 5.525, 5.543
Small passenger vessels ................................................................................................................................. 2.01-15(a)(2), 2.01-15(b)(2), 2.10-25
Smuggling of aliens ........................................................................................................................................ 5.61(a)(8)
SOLAS ............................................................................................................................................................ 8.100
Specification ................................................................................................................................................... 5.25
Specimen analysis and follow-up procedures ................................................................................................. 4.06-53
Specimen collection in incidents involving fatalities ...................................................................................... 4.60-30
Specimen collection requirements ................................................................................................................ 4.06-20
Specimen handling and shipping .................................................................................................................. 4.06-40
St. Johns Point, FL ......................................................................................................................................... 7.95
St. Johns River, FL ......................................................................................................................................... 7.90
St. Simons Island, GA .................................................................................................................................... 7.80, 7.85
Standard of proof ......................................................................................................................................... 5.63
State .............................................................................................................................................................. 2.10-25
State law ......................................................................................................................................................... 5.541(a)(2)
Stay of effect of decision and order of Administrative Law Judge on appeal to the Commandant; temporary license, certificate, or document .................................................................................... 5.707
Stay of effect of decision of the Commandant on Appeal; temporary document and/or license pending appeal to the National Transportation Safety Board .......................................................... 5.715
Stay of effect of decision of the Commandant on Appeal; temporary document and/or license pending appeal to the National Transportation Safety Board, United States supplement to class rules .......................................................... 8.430
Suspension of approved safety equipment .................................................. 2.75-40
Suspension of approval ............................................................................... 2.75-40
Suspension and revocation proceedings ...................................................... 1.01-20
Suspension of proposed findings and conclusions ........................................ 5.563
Suspension of reports and test results .......................................................... 4.06-60
Subpoenas enforcement .............................................................................. 5.307
Subpoenas issuance of ................................................................................. 5.301
Subpoenas proof of service .......................................................................... 5.309
Subpoenas quashing .................................................................................... 5.305
Subpoenas service of on behalf of the respondent ......................................... 5.303
Subpoenas service of on behalf of the respondent ......................................... 5.303
Subpoenas service of on behalf of the respondent ......................................... 5.303
Subpoenas service of on behalf of the respondent ......................................... 5.303
Subpoenas service of on behalf of the respondent ......................................... 5.303
Submission of prior record and evidence in aggravation or mitigation .......... 5.565
Submission of reports and test results .......................................................... 4.06-60
Testimony of witnesses in other districts, depositions ................................... 4.07-25
Testimony by interrogatories ...................................................................... 4.12
Testimony by deposition .............................................................................. 4.12
Testimony under oath .................................................................................. 4.07-30
Tests, for approval of safety equipment ...................................................... 2.75-15
Termination of classification society authority ............................................ 8.430
Transfer of jurisdiction .............................................................................. 4.07-20
Travel status overtime .................................................................................. 9.12
Treatises ...................................................................................................... 5.555
Tybee Island, GA .......................................................................................... 7.80
Two hours between broken periods ........................................................... 9.9


U

United States border .................................................................................... 7.120, 7.150
U.S. Attorney ................................................................................................ 4.09-25
U.S. supplement to class rules ..................................................................... 8.430
Use of judgement of conviction .................................................................. 5.547
User fee anniversary date ............................................................................ 2.10-25
User fees ...................................................................................................... Table 2.10-101

V

Verification of license, certificate or document ........................................... 5.521
Vessel enrollment in Alternative Compliance Program .................................. 8.420
Vessel identification number (VIN) ............................................................ 2.10-25
Vessel inspections ....................................................................................... 2.10-80
Subchapter A Index

Vessel of the United States............................................................. 4.40-5(f)
Vessel repairs................................................................................. 2.01-15
Vessels:
- Oceanographic research vessels.................................................. 3.03-1
- Operated by or chartered to Military Sealift Command.............. 6.06
- Requisitioned by the United States for emergency evacuation ... 6.04
- Subject to the requirements; Vineyard Sound, MA................... 7.20
Violation of law or regulation....................................................... 5.33
Voluntary deposits in event of mental or physical incompetence..... 5.201
Voluntary surrender to avoid hearing............................................ 5.203
Voyage records, retention of......................................................... 4.05-15

W
Waiting time.................................................................................. 9.10, 9.4
Waiting time; actual report for duties......................................... 9.4
Waivers .................................................................................. 2.10-10
Waivers of navigation and vessel inspection laws..................... 2.45
- Authority for and limitations on issuance................................ 2.45-1
Welding procedures and performance qualifications............... 2.75-70
Warning .................................................................................. 5.105(e), 5.565
Withdrawals or terminations of approvals and appeals............... 2.75-50
Witnesses .................................................................................. 5.535
Witnesses excluded from the hearing room............................... 5.517
Witnesses fees......................................................................... 4.11, 4.11-10
Witnesses; payment of............................................................... 4.09-10, 5.401
Written report of marine casualty............................................. 4.05-10
Wrongful destruction of ship's property................................... 5.61(a)(11)

Y
Youth .................................................................................. 2.10-25
SUBCHAPTER B—MERCHANT MARINE OFFICERS AND SEAMEN

PART 10—LICENSING OF MARITIME PERSONNEL

Subpart A—General

Sec.
10.101 Purpose of regulations.
10.102 Incorporation by reference.
10.103 Definitions of terms used in this part.
10.105 Regional examination centers.
10.107 Paperwork approval.
10.109 Fees.
10.110 Fee payment procedures.
10.111 Penalties.
10.112 No-fee license for certain applicants.

Subpart B—General Requirements for All Licenses and Certificates of Registry

10.201 Eligibility for licenses and certificates of registry, general.
10.202 Issuance of licenses, certificates of registry, and STCW certificates or endorsements.
10.203 Quick reference table for license and certificate of registry requirements.
10.204 Right of appeal.
10.205 Requirements for original licenses, certificates of registry, and STCW certificates and endorsements.
10.207 Requirements for raises of grades of licenses.
10.209 Requirements for renewal of licenses, certificates of registry, and STCW certificates and endorsements.
10.211 Creditable service and equivalents for licensing purposes.
10.213 Sea service as a member of the Armed Forces of the United States and on vessels owned by the United States as qualifying experience.
10.215 Modification or removal of limitations.
10.217 Examination procedures and denial of licenses.
10.219 Issuance of duplicate license or certificate of registry.
10.221 Parting with license.
10.223 Suspension and revocation of licenses.

Subpart C—Training Schools With Approved Courses

10.301 Applicability.
10.302 Course approval.
10.303 General standards.
10.304 Substitution of training for required service, and use of training-record books.
10.305 Radar-Observer certificates and qualifying courses.
10.306 Radar-Operation course and certificate.
10.307 Training schools with approved radar observer courses.
10.309 Coast Guard-accepted training other than approved courses.

Subpart D—Professional Requirements for Deck Officers’ Licenses

10.401 Ocean and near coastal licenses.
10.402 Tonnage requirements for ocean or near coastal licenses for vessels of over 1600 gross tons.
10.403 Deck license structure.
10.404 Service requirements for master of ocean or near coastal steam or motor vessels of any gross tons.
10.405 Service requirements for chief mate of ocean or near coastal steam or motor vessels of any gross tons.
10.406 Service requirements for second mate of ocean or near coastal steam or motor vessels of any gross tons.
10.407 Service requirements for third mate of ocean or near coastal steam or motor vessels of any gross tons.
10.409 Service requirements for master of ocean or near coastal steam or motor vessels of not more than 1600 gross tons.
10.410 Requirements for deck licenses for vessels of not more than 1600 gross tons.
10.412 Service requirements for master of ocean or near coastal steam or motor vessels of not more than 1600 gross tons.
10.414 Service requirements for mate of ocean steam or motor vessels of not more than 1600 gross tons.
10.416 Service requirements for mate of near coastal steam or motor vessels of not more than 1600 gross tons.
10.418 Service requirements for master of ocean or near coastal steam or motor vessels of not more than 500 gross tons.
10.420 Service requirements for mate of ocean steam or motor vessels of not more than 500 gross tons.
10.421 Service requirements for mate of near coastal steam or motor vessels of not more than 500 gross tons.
10.422 Tonnage limitations and qualifying requirements for licenses as master or mate of vessels of not more than 200 gross tons.
10.424 Service requirements for master of ocean steam or motor vessels of not more than 200 gross tons.
10.426 Service requirements for master of near coastal steam or motor vessels of not more than 200 gross tons.
10.427 Service requirements for mate of near coastal steam or motor vessels of not more than 200 gross tons.
Coast Guard, DOT

10.428 Service requirements for master of near coastal steam or motor vessels of not more than 100 gross tons.
10.429 Service requirements for limited master of near coastal steam or motor vessels of not more than 100 gross tons.
10.430 Licenses for the Great Lakes and inland waters.
10.431 Tonnage requirements for Great Lakes and inland licenses for vessels of over 1600 gross tons.
10.433 Service requirements for master of Great Lakes and inland steam or motor vessels of any gross tons.
10.435 Service requirements for master of inland steam or motor vessels of any gross tons.
10.437 Service requirements for mate of Great Lakes and inland steam or motor vessels of any gross tons.
10.442 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons.
10.444 Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons.
10.446 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 500 gross tons.
10.448 Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 500 gross tons.
10.450 Tonnage limitations and qualifying requirements for licenses as master or mate of Great Lakes and inland vessels of not more than 200 gross tons.
10.452 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 200 gross tons.
10.454 Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 200 gross tons.
10.455 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 100 gross tons.
10.456 Service requirements for limited master of Great Lakes and inland steam or motor vessels of not more than 100 gross tons.
10.457 Service requirements for master of inland steam or motor vessels of not more than 100 gross tons.
10.459 Service requirements for master or mate of rivers.
10.462 Licenses for master or mate of uninspected fishing industry vessels.
10.464 Licenses for operator of uninspected towing vessels.
10.466 Licenses for operator of uninspected passenger vessels.
10.468 Licenses for mobile offshore drilling units.
10.470 Licenses for offshore installation manager.
10.472 License for barge supervisor.
10.474 License for ballast control operator.
10.476 Acknowledgments of service and temporary licenses for mobile offshore drilling units.
10.480 Radar observer.
10.482 Assistance towing.
10.491 Licenses for service on offshore supply vessels.
10.493 Master (OSV).
10.495 Chief Mate (OSV).
10.497 Mate (OSV).

Subpart E—Professional Requirements for Engineer Officers’ Licenses

10.501 Grade and type of engineer licenses issued.
10.502 Additional requirements for engineer licenses.
10.503 Horsepower limitations.
10.504 Application of deck service for limited engineer licenses.
10.506 Engineer license structure.
10.510 Service requirements for chief engineer of steam and/or motor vessels.
10.512 Service requirements for first assistant engineer of steam and/or motor vessels.
10.514 Service requirements for second assistant engineer of steam and/or motor vessels.
10.516 Service requirements for third assistant engineer of steam and/or motor vessels.
10.518 Service requirements for first engineer (limited-oceans) of steam and/or motor vessels.
10.520 Service requirements for chief engineer (limited-near coastal) of steam and/or motor vessels.
10.522 Service requirements for assistant engineer (limited-oceans) of steam and/or motor vessels.
10.524 Service requirements for designated duty engineer of steam and/or motor vessels.
10.530 Licenses for engineers of uninspected fishing industry vessels.
10.540 Licenses for engineers of mobile offshore drilling units.
10.542 License for chief engineer (MODU).
10.544 License for assistant engineer (MODU).
10.551 Licenses for service on offshore supply vessels.
10.553 Chief Engineer (OSV).
10.555 Engineer (OSV).

Subpart F—Licensing of Radio Officers

10.601 Applicability.
10.603 Requirements for radio officers’ licenses, and STCW certificates or endorsements for GMDSS radio operators.
§ 10.101  Purpose of regulations.

(a) The purposes of the regulations in this part are to provide—

(1) A comprehensive means of determining the qualifications an applicant must possess to be eligible for a license as a deck officer, engineer, pilot, radio officer, or radio operator on merchant vessels, or for a license to operate uninspected towing vessels or uninspected passenger vessels, or for a certificate of registry as a staff officer; and

(2) A means of determining that an applicant is competent to serve as a master, chief mate, officer in charge of a navigational watch, chief engineer officer, second engineer officer (first assistant engineer), officer in charge of an engineering watch, designated duty engineer, or radio operator, in accordance with the provisions of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended in 1995 (STCW), and other laws, and to receive the appropriate certificate or endorsement as required by STCW.

(b) With few exceptions, these regulations do not specify or restrict licenses to particular types of service such as tankships, freight vessels or passenger vessels. However, all licensed personnel shall become familiar with the relevant characteristics of each vessel prior to assuming their duties. As appropriate, these characteristics include but are not limited to: general arrangement of the vessel; maneuvering characteristics; proper operation of the installed navigation equipment; fire-fighting and lifesaving equipment; stability and loading characteristics; emergency duties; and main propulsion and auxiliary machinery, including steering gear systems and controls.

(c) The regulations in subpart C of this part prescribe the requirements applicable to—

(1) Each approved training course, if the training course is to be acceptable as a partial substitute for service or for a required examination, or as training required for a particular license or license endorsement; and

(2) All training and assessment associated with meeting the standards of competence established by STCW.

[CGD 81-059, 52 FR 39823, Oct. 16, 1987 (interim) and CGD 81-059, 54 FR 132, Jan. 4, 1989 (final), unless otherwise noted.]

Subpart A—General

§ 10.101  Purpose of regulations.

(1) The purposes of the regulations in this part arc to provide—
§ 10.103 Definitions of terms used in this part.

Approved means approved by the Coast Guard in accordance with §10.302.

Assistant engineer means a qualified officer in the engine department.

Assistance towing means towing a disabled vessel for consideration.

Ballast control operator (BCO) is a licensed officer restricted to service on MODUs. The duties involve the operation of the complex ballast system found on many MODUs. A ballast control operator, when assigned to a MODU, is the equivalent of a conventionally licensed mate.

Barge supervisor (BS) is a licensed officer restricted to service on MODUs. The duties involve support to the OIM in marine related matters including, but not limited to, maintaining watertight integrity, inspecting and maintaining mooring and towing components, and the maintenance of emergency and other marine related equipment. A barge supervisor, when assigned to a MODU is the equivalent of a conventionally licensed mate.

Boatswain means the leading seaman and immediate supervisor of unlicensed deck personnel who supervises the maintenance of deck gear.

Chief engineer means any person responsible for the mechanical propulsion of a vessel and who is the holder of a valid license as chief engineer.

Chief mate means the deck officer next in seniority to the master and upon whom the command of the vessel will fall in the event of the incapacity of the master.

Coast Guard-accepted means that the Coast Guard has officially acknowledged in writing that the material or process at issue meets the applicable requirements; that the Coast Guard has issued an official policy statement listing or describing the material or process as meeting the applicable requirements; or that an entity acting on behalf of the Coast Guard under a Memorandum of Agreement has determined that the material or process meets the applicable requirements.

Conviction means the applicant for a license or certificate of registry has been found guilty by judgment or plea by a court of record of the United States, the District of Columbia or any State or territory of the United States of a criminal felony or misdemeanor or of an offense described in section 205 of the National Driver Register Act of 1982 (49 U.S.C. 30304). Conviction of more than one offense at a single trial will be considered to be multiple convictions. If an applicant pleads guilty or no contest, is granted deferred adjudication, or is required by the court to attend classes, make contributions of time or money, receive treatment, submit to any manner of probation or supervision, or forego appeal of a trial court’s conviction, then the applicant will be considered to have received a conviction. A later expungement of the conviction will not negate a conviction unless it is proved to the OCMI that the expungement is based upon a showing that the court’s earlier conviction was in error.

Day means, for the purpose of complying with the service requirements of this part, eight hours of watchstanding.
or day-working not to include overtime. On vessels where a 12 hour working day is authorized and practiced, such as on a six-on, six-off watch schedule, each work day may be creditable as one and one half days of service. On vessels where a 12 hour working day is authorized and practiced, such as on a six-on, six-off watch schedule, each work day may be creditable as one and one half days of service. On vessels of less than 100 gross tons, a day is considered as eight hours unless the Officer in Charge, Marine Inspection determines that the vessel’s operating schedule makes this criteria inappropriate, in no case will this period be less than four hours.

Designated duty engineer means a qualified engineer, who may be the sole engineer on vessels with a periodically unattended engine room.

Designated examiner means a person who has been trained or instructed in techniques of training or assessment and is otherwise qualified to evaluate whether a candidate for a license, document, or endorsement has achieved the level of competence required to hold the license, document, or endorsement. This person may be designated by the Coast Guard or by a Coast Guard-approved or accepted program of training or assessment. A faculty member employed or instructing in a navigation or engineering course at the U.S. Merchant Marine Academy or at a State maritime academy operated in accordance with regulations in 46 CFR part 310 is qualified to serve as a designated examiner in his or her area(s) of specialization without individual evaluation by the Coast Guard.

Employment assigned to is the total period a person is assigned to work on MODUs, including time spent ashore as part of normal crew rotation.

Endorsement means a provision added to a license which alters its scope or application. An example of an endorsement is a tonnage limitation increase within a general tonnage category, a pilot license route addition, or a radar observer qualification.

Evaluation means processing an application, from the point of receipt to approval or rejection of the application, including review of all documents and records submitted with an application as well as those obtained from public records and databases.

Fails a chemical test for dangerous drugs means that the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as “positive” for the presence of dangerous drugs or drug metabolites in an individual’s system by a Medical Review Officer in accordance with that part.

First assistant engineer means the engineer officer next in seniority to the chief engineer and upon whom the responsibility for the mechanical propulsion of the vessel will fall in the event of the incapacity of the chief engineer.

Great Lakes means the Great Lakes and their connecting and tributary waters including the Calumet River as far as the Thomas J. O’Brien Lock and Controlling Works (between mile 326 and 327), the Chicago River as far as the east side of the Ashland Avenue Bridge (between mile 321 and 322), and the Saint Lawrence River as far east as the lower exit of Saint Lambert Lock.

Horsepower means, for the purpose of this part, the total maximum continuous shaft horsepower of all the vessel’s main propulsion machinery.

Inland Waters means the navigable waters of the United States shoreward of the Boundary Lines as described in 46 CFR part 7, excluding the Great Lakes. For the purposes of establishing sea service credit, the waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska, are considered as inland.

Lower level means a category of deck and engineer licenses established for assessment of fees. Lower level licenses are all licenses, other than those defined as upper level, for which the requirements are listed in subparts D, E, and G of this part.

Master means the officer having command of a vessel.

Mate means a qualified officer in the deck department other than the master.

Mobile offshore drilling unit (MODU) means a vessel capable of engaging in drilling operations for the exploration for or exploitation of subsea resources. MODU designs include:

(a) Bottom bearing units which include:

(1) Self-elevating (or jack-up) units with moveable, bottom bearing legs capable of raising the hull above the surface of the sea; and,

(2) Submersible units of ship shape, barge type or novel hull design, other
than a self-elevating unit, intended for operating while bottom bearing.

(b) Surface units with a ship shape or barge type displacement hull of single or multiple hull construction intended for operating in a floating condition, including semi-submersibles and drillships.

Month means 30 days, for the purpose of complying with the service requirements of this part.

National Driver Register (NDR) means the nationwide repository of information on drivers maintained by the National Highway Traffic Safety Administration as provided under 49 U.S.C. Chapter 303.

NDR listed convictions means a conviction of any of the following motor vehicle-related offenses or comparable offenses:

(a) Operating a motor vehicle while under the influence of, or impaired by, alcohol or a controlled substance; or

(b) A traffic violation arising in connection with a fatal traffic accident, reckless driving, or racing on the highways.

Near coastal means ocean waters not more than 200 miles offshore.

Oceans means the waters seaward of the Boundary Lines as described in 46 CFR part 7. For the purposes of establishing sea service credit, the waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska, are not considered oceans.

Officer in Charge, Marine Inspection (OCMI) for the purposes of part 10 means the officer or individual so designated at one of the locations of the regional examination centers listed in §10.105.

Offshore installation manager (OIM) is a licensed officer restricted to service on MODUs. An assigned offshore installation manager is equivalent to a conventionally licensed master and is the person designated by the owner or operator to be in complete and ultimate command of the unit.

On location means that a mobile offshore drilling unit is bottom bearing or moored with anchors placed in the drilling configuration.

Operator means an individual licensed to operate certain uninspected vessels.

Orally assisted examination means a license examination as described in subpart I of this part verbally administered and documented by an examiner.

Original license means the first deck, engineer or radio officer license issued to any person by the Coast Guard.

Passes a chemical test for dangerous drugs means the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as "negative" by a Medical Review Officer in accordance with that part.

Practical demonstration means the performance of an activity under the direct observation of a designated examiner for the purpose of establishing that the performer is sufficiently proficient in a practical skill to meet a specified standard of competence or other objective criterion.

Qualified instructor means a person who has been trained or instructed in instructional techniques and is otherwise qualified to provide required training to candidates for licenses, documents, and endorsements. A faculty member employed at a State maritime academy or the U.S. Merchant Marine Academy operated in accordance with 46 CFR part 310 and instructing in a navigation or engineering course is qualified to serve as a qualified instructor in his or her area(s) of specialization without individual evaluation by the Coast Guard.

Raise of grade means an increase in the level of authority and responsibility associated with a license.

Rivers means any river, canal, or other similar body of water designated by the Officer in Charge, Marine Inspection.

Senior company official means the president, vice president, vice president for personnel, personnel director, or similarly titled or responsible individual, or a lower level employee designated in writing by one of the aforementioned for the purpose of certifying employment and whose signature is on file at the REC at which application is made.

Service as when computing the required service for MODU licenses, is the time period, in days, a person is assigned to work on MODUs, excluding time spent ashore as part of crew rotation. A day, for the purposes of this...
definition, is a minimum of four hours, and no additional credit is received for periods served over eight hours. Standard of competence means the level of proficiency to be achieved for the proper performance of duties on board vessels in accordance with national and international criteria. STCW means the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended in 1995. STCW Code means the Seafarer’s Training, Certification and Watchkeeping Code. STCW endorsement means a certificate or endorsement issued in accordance with STCW. An STCW endorsement issued by the Officer in Charge, Marine Inspection (OCMI), will be valid only when accompanied by the appropriate U.S. license or document; and, if the license or document is revoked, then the associated STCW endorsement is no longer valid for any purpose. References to STCW placed on a U.S. license or merchant mariner’s document will suffice as STCW endorsements for the mariner serving on a vessel operating exclusively on a domestic voyage (i.e., to and from U.S. ports or places subject to U.S. jurisdiction). Underway means that a mobile offshore drilling unit is not in an on location or laid up status. Underway includes that period of time when the MODU is deploying or recovering its mooring system. Undocumented vessel means a vessel not required to have a document issued under the laws of the United States. Upper level means a category of deck and engineer licenses established for assessment of fees. Upper level licenses are those licenses for which the requirements are listed in §§10.404 to 10.407 of subpart D of this part and §§10.510, 10.512, 10.514, and 10.516 of subpart E of this part. Western Rivers means the Mississippi River, its tributaries, South Pass, and Southwest Pass, to the navigational demarcation lines dividing the high seas from harbors, rivers, and other inland waters of the United States, and the Port Allen-Morgan City Alternate Route, and that part of the Atchafalaya River above its junction with the Port Allen-Morgan City Alternate Route including the Old River and the Red River, and those waters specified in 33 CFR 89.25. Year means 360 days, for the purpose of complying with the service requirements of this part.

§ 10.105 Regional examination centers.

Licensing and certification functions are performed only by the Officer in Charge, Marine Inspection, at the following locations:

Boston, MA
New York, NY
Baltimore, MD
Charleston, SC
Miami, FL
New Orleans, LA
Houston, TX
Memphis, TN
St. Louis, MO

§ 10.107 Paperwork approval.

(a) This section lists the control numbers assigned by the Office of Management and Budget under the Paperwork Reduction Act of 1980 (Pub. L. 96–511) for the reporting and record keeping requirements in this part.

(b) The following control numbers have been assigned to the sections indicated:


(2) OMB 2115–0111—46 CFR 10.302, 10.303, 10.304, 10.480.

(3) OMB 2115–0624—46 CFR 10.304 and 10.309.

§ 10.109 Fees.

Use table 10.109 to determine the fees that you must pay for license and certificate of registry activities in this part.
### § 10.109 Fees

The following fees are required for license and registration activities in this part:

1. For licenses,
   1. Upper level:
      1. For evaluation for an original license, $100.
      2. For evaluation for a license other than an original, including a raise in grade for a license, $95.
   2. Lower level:
      1. For evaluation for an original license, $100.
      2. For evaluation for a license other than an original, including a raise in grade for a license, $95.

2. For endorsements, except the radar observer endorsement, subsequent to the issuance of the license,
   1. For evaluation for single or multiple endorsements, $65.
   2. For administration of examinations, including allowable retakes, $65.

3. For renewal of a license,
   1. For evaluation for a license other than an original license, $35.
   2. For issuance of an existing license, $35.
   3. For renewal of a license, $35.

4. For STCW Certification,
   1. For evaluation for a license other than an original license, $35.
   2. For issuance of a renewed license, $35.

5. For administration of a limited examination required under subpart D of this part, including allowable retests, $55.

6. For issuance of a renewed license, without evaluation or examination, for continuity purposes only, $35.

7. For certificates of registry, $5.

8. For application for a license, $110.

9. For issuance of a license, $35.

10. For renewal of a license, $35.

11. For STCW Certification, $35.

12. For issuance of a renewed license, without evaluation or examination, for continuity purposes only, $35.

13. For certificates of registry, $5.
§ 10.110

(i) For evaluation of an unlicensed applicant for a certificate of registry, $62.
(ii) For evaluation of an applicant who holds a license or certificate of registry issued under this part, $45.
(iii) For issuance of a certificate of registry, $35.
(2) For Junior Assistant Purser, Medical Doctor, and Professional Nurse:
(i) For evaluation of an unlicensed applicant for a certificate of registry, $17.
(ii) For evaluation of an applicant who holds a license or certificate of registry issued under this part, no fee.
(iii) For issuance of a certificate of registry, $35.
(3) For renewal of a Certificate of Registry:
(i) For evaluation for renewal of a certificate of registry, no fee.
(ii) For issuance of a renewed certificate of registry, $35.
(e) For reissue of a license or certificate or registry issued in this part where a fee is required in §10.219, $35.
(f) For endorsements to existing license, a raise in grade of a license, an additional license, or certificate of registry where further evaluations are not required, no evaluation fee.
(g) For endorsements to an existing license, a raise in grade of a license, or an additional license where further examinations are not required, no examination fee.

§ 10.110 Fee payment procedures.

(a) You may pay—
(1) All fees required by this section when you submit your application; or
(2) A fee for each phase at the following times:
   (i) An evaluation fee when you submit your application.
   (ii) An examination fee before you take the first examination section.
   (iii) An issuance fee before you receive your license or certificate of registry.
   (b) If you take your examination someplace other than a Regional Examination Center (REC), you must pay the examination fee to the REC at least one week before your scheduled examination date.
   (c) Unless the REC provides additional payment options, your fees may be paid as follows:
      (1) Your fee payment must be for the exact amount.
      (2) Make your check or money order payable to the U.S. Coast Guard, and write your social security number on the front of each check or money order.
   (3) If you pay by mail, you must use either a check or money order.
   (4) If you pay in person, you may pay with cash, check, or money order at Coast Guard units where Regional Examination Centers are located.
   (d) Unless otherwise specified in this part, when two or more documents are processed on the same application—
      (1) Evaluation fees. If a certificate of registry transaction is processed on the same application as a license transaction, only the license evaluation fee will be charged; and
      (2) Issuance fees. A separate issuance fee will be charged for each document issued.

[EFFECTIVE DATE NOTE: By USCG-1997-2799, 64 FR 42815, Aug. 5, 1999]

§ 10.110 Fee payment procedures.

(a) Unless otherwise directed, the prescribed fee must be paid as follows:
   (1) If an evaluation fee, at the time of application.
   (2) If an examination fee, prior to taking the first examination section.
   (3) If an issuance fee, prior to receiving the license or certificate of registry.
   (b) For examinations administered at locations other than a Regional Examination Center, the examination fee must be received by the Regional Examination Center at least one week in advance of the scheduled examination date, unless otherwise directed.
   (c) Prescribed fees must be paid by one of the following options:
      (1) Mail-in. Payment by check or money order only, made payable to one of the following:
         (i) U.S. Coast Guard;
         (ii) U.S. Government;
         (iii) U.S. Treasury;
         (iv) U.S. Department of Transportation.
      Fee payment by check or money order must have the applicant's (payor’s) social security number included thereon.
   (2) In-person. Fee payment will be accepted by cash, check, or money order at Coast Guard units where Regional Examination Centers are located. Where an applicant makes payment by cash, payment must be in the exact amount. A check or money order must be payable as specified in paragraph (c)(1) of this section.

[CGD 91-002, 58 FR 15237, Mar. 19, 1993]
§ 10.111 Penalties.

(a) Anyone who fails to pay a fee or charge established under this subpart is liable to the United States Government for a civil penalty of not more than $5,000 for each violation.

(b) The Coast Guard may assess additional charges to anyone to recover collection and enforcement costs associated with delinquent payments of, or failure to pay, a fee. Coast Guard licensing services may also be withheld from anyone pending payment of outstanding fees owed to the Coast Guard for services already provided by Regional Examination Centers.

[CGD 91-002, 58 FR 15237, Mar. 19, 1993]

§ 10.112 No-fee license for certain applicants.

(a) For the purpose of this section, a no-fee license applicant is a person who is a volunteer, or part-time or full-time employee of an organization which is:

(1) Charitable in nature;
(2) Not for profit; and
(3) Youth oriented.

(b) An organization may submit a written request to Commandant (G-MOC), 2100 Second Street SW., Washington, DC 20593-0001 in order to be considered an eligible organization under the criteria set forth in paragraph (a) of this section. With the written request, the organization must provide evidence of its status as a youth oriented, not for profit, charitable organization.

NOTE: The following organizations are accepted by the Coast Guard as meeting the requirements of paragraph (a) of this section and need not submit evidence of their status:

Boy Scouts of America, Sea Explorer Association, Girl Scouts of the United States of America, and Young Men’s Christian Association of the United States of America.

(c) A letter from an organization determined eligible under paragraph (b) of this section must also accompany the person’s license application to the Coast Guard. The letter must state that the purpose of the person’s application is solely to further the conduct of the organization’s maritime activities. The applicant then is eligible under this section to obtain a no-fee license if other requirements for the license are met.

(d) A marine license issued to a person under this section is endorsed restricting its use to vessels owned or operated by the sponsoring organization.

(e) The holder of a no-fee license issued under this section may have the restriction removed by paying the appropriate evaluation, examination, and issuance fees that would have otherwise applied.


Subpart B—General Requirements for All Licenses and Certificates of Registry

§ 10.201 Eligibility for licenses and certificates of registry, general.

(a) Each applicant shall establish to the satisfaction of the OCMI that he or she possesses all of the qualifications necessary (such as age, experience, character references and recommendations, physical health or competence and test for dangerous drugs, citizenship, approved training, passage of a professional examination, as appropriate, and, when required by this part, a practical demonstration of skills) before the OCMI will issue a license or certificate of registry.

(b) No person who has been convicted by a court of record of a violation of the dangerous drug laws of the United States, the District of Columbia, or any State or territory of the United States is eligible for a license or certificate of registry, except as provided by the provisions of paragraph (h) of this section. No person who has ever been the user of, or addicted to the use of, a dangerous drug, or has ever been convicted of an offense described in section 205 of the National Driver Register Act of 1982 (49 U.S.C. 30304) due to the addiction or abuse of alcohol is eligible for a license or certificate of registry unless he or she furnishes satisfactory evidence of suitability for service in the merchant marine as provided in paragraph (j) of this section.

(c) Except as provided in §10.464(i) of the part, an applicant for a license must demonstrate an ability to speak and understand English as found in the navigation rules, aids to navigation...
§ 10.201  

publications, emergency equipment instructions, machinery instructions, and radiotelephone communications instructions.  

(d) An applicant for a license must meet the requirements for recent service specified in §10.202(e).  

(e) No license or certificate of registry may be issued to any person who is not a citizen of the United States with the exception of operator of uninspected passenger vessels limited to vessels not documented under the laws of the United States.  

(f) Except as specified in this paragraph, no license or certificate of registry may be issued to a person who has not attained the age of 21 years.  

(1) A license as master of near coastal, Great Lakes and inland, inland, or river vessels of 25–200 gross tons, third mate, third assistant engineer, mate of vessels of 200–1600 gross tons, ballast control operator, assistant engineer (MODU), assistant engineer of fishing industry vessels, second-class operator of uninspected towing vessel, radio officer, assistant engineer (limited-oceans), or designated duty engineer of vessels of not more than 1000 horsepower may be granted to an applicant who has reached the age of 19 years.  

(2) A license as limited master of near coastal vessels of not more than 100 gross tons, limited master of Great Lakes and inland vessels of not more than 100 gross tons, mate of Great Lakes and inland vessels of 25–200 gross tons, mate of near coastal vessels of 25–200 gross tons, operator of uninspected passenger vessels, or designated duty engineer of vessels of not more than 1000 horsepower, may be granted to an applicant who has reached the age of 18 years.  

(g) Persons serving or intending to serve in the merchant marine service are recommended to take the earliest opportunity of ascertaining, through examination, whether their visual acuity, and color vision where required, are such as to qualify them for service in that profession. Any physical impairment or medical condition which would render an applicant incompetent to perform the ordinary duties of an officer at sea is cause for denial of a license.  

(h) Criminal Record Review. The OCMI may review the criminal record of an applicant for the issuance of a license or certificate of registry issued as an original or reissued with a new expiration date. An applicant conducting simultaneous merchant mariner’s credential transactions shall undergo only one criminal record check. Applicants must provide written disclosure of all prior convictions at the time of application.  

(1) If the applicant is advised that a criminal record check is required by the OCMI, applicants shall provide their fingerprints at the time of application. The fingerprints will be used to determine whether the applicant has a record of a criminal conviction. An application may be disapproved if a criminal record review leads the OCMI to determine that the applicant’s habits of life and character are such that the applicant cannot be entrusted with the duties and responsibilities of the license or certificate of registry for which application is made. If an application is disapproved, the OCMI will notify the applicant in writing of the reason(s) for disapproval and advise the applicant that the reconsideration and appeal procedures in §1.03 of this chapter apply. No examination will be given pending decision on appeal.  

(2) The OCMI may use table 10.201(h) to evaluate applicants for licenses and certificates of registry who have criminal convictions. The table lists major categories of criminal activity and is not to be construed as an all-inclusive list. If an applicant is convicted of an offense that does not appear on the list, the OCMI will establish an appropriate assessment period using the list as a guide. The assessment period commences when an applicant is no longer incarcerated. The applicant must establish proof of the time incarcerated and periods of probation and parole to the satisfaction of the OCMI. The assessment period may include supervised or unsupervised probation or parole. A conviction for a drug offense more than 10 years prior to the date of application will not alone be grounds for denial.  

(3) When an applicant has convictions for more than one offense, the minimum assessment period will be the
longest minimum in table 10.201(h) and table 10.201(i) based upon the applicant’s convictions; the maximum assessment period will be the longest shown in table 10.201(h) and table 10.201(i) based upon the applicant’s convictions.

(4) If a person with a criminal conviction applies for a license or certificate of registry before the minimum assessment period shown in table 10.201(h), or established by the OCMI under paragraph (h)(2) of this section has elapsed, then the applicant must provide evidence of suitability for service in the merchant marine. Factors which are evidence of suitability for service in the merchant marine are listed in paragraph (j) of this section. The OCMI will consider the applicant’s evidence and may issue the license or certificate of registry in less than the listed minimum assessment period if the OCMI is satisfied that the applicant is suitable to hold the license or certificate of registry for which he or she has applied. If an applicant does not provide evidence of suitability for service in the merchant marine, then the application will be considered incomplete and will not be processed by the OCMI.

(5) If a person with a criminal conviction applies for a license or certificate of registry during the time between the minimum and maximum assessment periods shown in table 10.201(h) or established by the OCMI under paragraph (h)(2) of this section, the OCMI will consider the conviction and, unless there are offsetting factors, may grant the applicant the license or certificate of registry for which he or she has applied. Offsetting factors include multiple convictions, failure to comply with court orders (e.g., child support orders), previous failures at rehabilitation or reform, inability to maintain steady employment, or any connection between the crime and the safe operation of a vessel. If the OCMI considers the applicant unsuitable for service in the merchant marine at the time of application, the OCMI will disapprove the application.

(6) If a person with a criminal conviction applies for a license or certificate of registry after the maximum assessment period shown in table 10.201(h) or established by the OCMI under paragraph (h)(2) of this section has elapsed, then the OCMI will grant the applicant the license or certificate of registry for which he or she has applied unless the OCMI has reason to believe the applicant is still unsuitable for service in the merchant marine. If the OCMI disapproves an application based upon a conviction older than the maximum assessment period, the OCMI will notify the applicant in writing of the reason(s) for the disapproval. The OCMI will also inform the applicant, in writing, that the reconsideration and appeal procedures contained in §1.03 of this chapter apply.

### Table 10.201(h)—Guidelines for Evaluating Applicants for Licenses and Certificates of Registry Who Have Criminal Convictions

<table>
<thead>
<tr>
<th>Crime 1</th>
<th>Assessment periods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td><strong>Crimes Against Persons</strong></td>
<td></td>
</tr>
<tr>
<td>Homicide (intentional)</td>
<td>7 years</td>
</tr>
<tr>
<td>Homicide (unintentional)</td>
<td>5 years</td>
</tr>
<tr>
<td>Assault (aggravated)</td>
<td>5 years</td>
</tr>
<tr>
<td>Assault (simple)</td>
<td>1 year</td>
</tr>
<tr>
<td>Sexual Assault (rape, child molestation)</td>
<td>5 years</td>
</tr>
<tr>
<td>Robbery</td>
<td>5 years</td>
</tr>
<tr>
<td>Other crimes against persons 2.</td>
<td></td>
</tr>
</tbody>
</table>

| **Crimes Against Property** |
| Burglary | 3 years          | 10 years.     |
| Larceny (embezzlement) | 3 years          | 5 years.      |
| Other crimes against property 2. |                |               |

113
\( \text{§ 10.201} \)  

46 CFR Ch. I (10–1–99 Edition)  

TABLE 10.201(h)—GUIDELINES FOR EVALUATING APPLICANTS FOR LICENSES AND CERTIFICATES OF REGISTRY WHO HAVE CRIMINAL CONVICTIONS—Continued  

<table>
<thead>
<tr>
<th>Crime</th>
<th>Assessment periods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td><strong>Vehicular Crimes</strong></td>
<td></td>
</tr>
<tr>
<td>Conviction involving fatality</td>
<td>1 year</td>
</tr>
<tr>
<td>Racing on the Highways</td>
<td>1 year</td>
</tr>
<tr>
<td>Other vehicular crimes**</td>
<td></td>
</tr>
<tr>
<td><strong>Crimes Against Public Safety</strong></td>
<td></td>
</tr>
<tr>
<td>Destruction of Property</td>
<td>5 years</td>
</tr>
<tr>
<td>Other crimes against public safety**</td>
<td></td>
</tr>
<tr>
<td><strong>Crimes Involving National Security</strong></td>
<td></td>
</tr>
<tr>
<td>Terrorism, Acts of Sabotage, Espionage and related offenses</td>
<td>7 years</td>
</tr>
<tr>
<td><strong>Criminal Violations of Environmental Laws</strong></td>
<td></td>
</tr>
<tr>
<td>Criminal violations of environmental laws involving improper handling of pollutants or hazardous materials</td>
<td>1 year</td>
</tr>
<tr>
<td><strong>Dangerous Drug Offenses</strong></td>
<td></td>
</tr>
<tr>
<td>Trafficking (sale, distribution, transfer)</td>
<td>5 years</td>
</tr>
<tr>
<td>Dangerous drugs (Use or possession)</td>
<td>1 year</td>
</tr>
<tr>
<td>Other dangerous drug convictions**</td>
<td></td>
</tr>
</tbody>
</table>

**Conviction of attempt, solicitation, aiding and abetting, accessory after the fact, and conspiracy to commit the criminal conduct listed in this table carry the same minimum and maximum assessment periods provided in the table.

**Other crimes are to be reviewed by the OCMI to determine the minimum and maximum assessment periods depending on the nature of the crime.

**Applicable only to original applications for licenses or CORs. Any applicant who has ever been the user of, or addicted to the use of, a dangerous drug shall meet the requirements of paragraph (b) of this section. Note: Applicants for reissue of a license or COR with a new expiration date including a renewal or a raise of grade, may have their applications withheld until appropriate action has been completed by the OCMI under the regulations which appear in 46 CFR part 5 governing administrative actions against merchant mariner credentials.

**The OCMI may consider dangerous drug convictions more than 10 years old only if there has been a dangerous drug conviction within the past 10 years.

**Applicants must demonstrate rehabilitation under paragraph (j) of this section, including applicants with dangerous drug use convictions more than ten years old.

**Other dangerous drug convictions are to be reviewed by the Officer in Charge, Marine Inspection on a case by case basis to determine the appropriate assessment periods depending on the nature of the offense.

(i) National Driver Register. A license or certificate of registry will not be issued as an original or reissued with a new expiration date unless the applicant consents to a check of the NDR for offenses described in section 205(a)3(A) or (B) of the NDR Act (i.e., operation of a motor vehicle while under the influence of, or impaired by, alcohol or a controlled substance; and any traffic violations arising in connection with a fatal traffic accident, reckless driving, or racing on the highways). The OCMI will not consider NDR listed civil convictions that are more than 3 years old from the date of request unless that information relates to the current suspension or revocation of the applicant’s license to operate a motor vehicle. The OCMI may determine minimum and maximum assessment periods for NDR listed criminal convictions using table 10.201(h). An applicant conducting simultaneous merchant mariner's credential transactions is subject to only one NDR check.

(1) Any application may be disapproved if information from the NDR check leads the OCMI to determine that the applicant cannot be entrusted with the duties and responsibilities of the license or certificate of registry for
which the application is made. If an application is disapproved, the OCMI will notify the applicant in writing of the reason(s) for disapproval and advise the applicant that the appeal procedures in §1.03 of this chapter apply. No examination will be given pending decision on appeal.

(2) Prior to disapproving an application because of information received from the NDR, the OCMI will make the information available to the applicant for review and written comment. The applicant may submit records from the applicable State concerning driving record and convictions to the Coast Guard Regional Examination Center (REC) processing the application. The REC will hold an application with NDR listed convictions pending the completion of the evaluation and delivery by the individual of the underlying State records.

(3) The guidelines in table 10.201(i) will be used by the OCMI in evaluating applicants for licenses and certificates of registry who have drug or alcohol related NDR listed convictions. Non-drug or alcohol related NDR listed convictions will be evaluated by the OCMI under table 10.201(h) as applicable.

(4) An applicant may request an NDR file check for personal use in accordance with the Federal Privacy Act of 1974 (Pub. L. 93-579) by contacting the NDR at the following address: National Driver Register, Nassif Building, 400 7th Street, SW., Washington, DC 20590.

(i) Applicants should request Form NDR-PRV or provide the following information on a notarized letter:
   (A) Full legal name;
   (B) Other names used;
   (C) Complete mailing address;
   (D) Driver license number;
   (E) Eye color;
   (F) Social security number;
   (G) Height;
   (H) Weight; and
   (I) Sex.

(ii) The NDR will respond to every valid inquiry including requests which produce no record(s) on the NDR file. Records can be made available, within a reasonable amount of time after the request, for personal inspection and copying during regular working hours at 7:45 a.m. to 4:15 p.m., each day except Federal holidays.

Table 10.201(i)—Guidelines for Evaluating Applicants for Licenses and Certificates of Registry Who Have NDR Motor Vehicle Convictions Involving Dangerous Drugs or Alcohol

<table>
<thead>
<tr>
<th>No. of convictions</th>
<th>Date of conviction</th>
<th>Assessment period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 or more</td>
<td>Less than 1 year</td>
<td>1 year from date of conviction.</td>
</tr>
<tr>
<td></td>
<td>More than 1, less than 3 years</td>
<td>Application will be processed, unless suspension or revocation is still in effect.</td>
</tr>
<tr>
<td></td>
<td>More than 3 years old</td>
<td>Not necessary unless suspension or revocation is still in effect.</td>
</tr>
<tr>
<td>2 or more</td>
<td>Any less than 3 years old</td>
<td>1 year since last conviction and at least 3 years from 2nd most recent conviction, unless suspension or revocation is still in effect.</td>
</tr>
<tr>
<td>2 or more</td>
<td>All more than 3 years old</td>
<td>Application will be processed unless suspension or revocation is still in effect.</td>
</tr>
</tbody>
</table>

1 Any applicant who has ever been the user of, or addicted to the use of, a dangerous drug shall meet the requirements of paragraph (b) of this section.

2 Suspension or revocation, when referred to in table 10.201(i), means a State suspension or revocation of a motor vehicle operator’s license.

(j) If an applicant has one or more alcohol or dangerous drug related criminal or NDR listed convictions; if the applicant has ever been the user of, or addicted to the use of, a dangerous drug; or if the applicant applies before the minimum assessment period for his or her conviction has elapsed; the OCMI may consider the following factors, as applicable, in assessing the applicant’s suitability to hold a license or certificate of registry. This list is intended as a guide for the OCMI. The OCMI may consider other factors which he or she judges appropriate to a particular applicant, such as:

(1) Proof of completion of an accredited alcohol- or drug-abuse rehabilitation program.
§ 10.202  Issuance of licenses, certificates of registry, and STCW certificates or endorsements.

(a) Applications for original licenses, original certificates of registry, raises of grade, extensions of route, or endorsements must be current and up-to-date with respect to service and the physical examination, as appropriate. Physical examinations and approved applications are valid for 12 months.

(b) Any person who is found qualified under the requirements set forth in this part is issued an appropriate license or certificate of registry valid for a term of 5 years from date of issuance. Any license or certificate of registry which is renewed or upgraded prior to its expiration date automatically becomes void upon issuance of the replacement license or certificate of registry.

(c) A license or certificate of registry is not valid until signed by the applicant and the OCMI (or the OCMI’s designated representative).

(d) Every person who receives an original license or certificate of registry shall take an oath before a designated Coast Guard official that he or she will faithfully and honestly, according to his or her best skill and judgment, without concealment or reservation, perform all the duties required by law and obey all lawful orders of superior officers. Such an oath remains binding for all subsequent licenses or certificates of registry issued to that person unless specifically renounced in writing.

(e) The applicant for any original license, endorsement, or raise of grade of license must have at least three months’ qualifying service on vessels of appropriate tonnage or horsepower within the three years immediately preceding the date of application.

(f) Any applicant whose uncorrected vision exceeds 20/40 in either eye for deck licenses or 20/50 in either eye for engineer, radio officer, offshore installation manager, barge supervisor, or ballast control operator licenses may not serve under the authority of the license unless corrective lenses are worn and spare lenses are carried on board a vessel while serving. (Not applicable to staff officers).

(g) If an Officer in Charge, Marine Inspection, refuses to grant an applicant the license or certificate of registry for which applied, the OCMI will furnish the applicant, if requested, a written statement setting forth the cause of denial.

(h) The Officer in Charge, Marine Inspection, may modify the service and examination requirements in this part to satisfy the unique qualification requirements of an applicant. The Officer in Charge, Marine Inspection, may also lower the age requirement for operator of uninspected passenger vessel license applicants. The authority granted by a license will be restricted on its face to reflect any modifications made under the authority of this paragraph. Such restrictions shall not be removed without the approval of the OCMI issuing the license.

(i) To obtain an original issuance or a renewal of a license or a certificate of registry, a raise in grade of a license, or a higher grade of certificate of registry each applicant shall produce evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in §16.220 of this subchapter. An applicant who fails a chemical test for dangerous drugs will not be issued a license or certificate of registry.

(j) When an original license is issued, renewed, upgraded, or otherwise modified, the OCMI will determine whether the holder of the license needs to hold an STCW certificate or endorsement for service on a seagoing vessel and then, if the holder is qualified, will
issue the appropriate certificate or endorsement. The OCMI will also issue an STCW certificate or endorsement at other times, if circumstances so require and if the holder of the license is qualified to hold the certificate or endorsement.

(k) Notwithstanding §10.205 (l), (m), (n), (o), and (p), §10.304, and §10.901, each mariner found qualified to hold any of the following licenses will also be entitled to hold an STCW certificate or endorsement corresponding to the service or other limitations on the license, because the vessels concerned are not subject to further obligation under STCW, on account of their special operating conditions as small vessels engaged in domestic voyages:

(1) Master’s, mate’s, or engineer’s license for service on small passenger vessels that are subject to subchapter T or K of title 46, Code of Federal Regulations (CFR), and that operate beyond the boundary line.

(2) Master’s, mate’s, or engineer’s license for service on seagoing vessels of less than 200 gross register tons (GRT), other than passenger vessels subject to subchapter H of title 46, CFR.

(l) Neither any person serving on any of the following vessels, nor any owner or operator of any of these vessels, need hold STCW certificates or endorsements, because they are exempt from application of STCW:

(1) Uninspected passenger vessels as defined in 46 U.S.C. 2101(42).

(2) Fishing vessels as defined in 46 U.S.C. 2101(11)(a).

(3) Fishing vessels used as fish-tender vessels as defined in 46 U.S.C. 2101(11)(c).

(4) Barges as defined in 46 U.S.C. 2101(2), including non-self-propelled mobile offshore-drilling units.

(5) Vessels operating exclusively on the Great Lakes or the inland waters of the U.S. in the straits of Juan de Fuca inside passage.

§ 10.203 Quick reference table for license and certificate of registry requirements.

Table 10.203 provides a guide to the requirements for various licenses and certificates of registry. Provisions in the reference section are controlling.
<table>
<thead>
<tr>
<th>License category</th>
<th>Minimum age</th>
<th>Citizenship requirement</th>
<th>Physical required</th>
<th>Experience requirements</th>
<th>Recommendations and character check</th>
<th>Firefighting certificate</th>
<th>Professional exam requirements</th>
<th>Recency of Service</th>
<th>First aid and CPR requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters/mates and operators of uninspected passenger vessels (original license)</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.201(e); Note: exceptions.</td>
<td>Yes, 10.205(d); Yes, 10.205(e); subpart D.</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Note: exceptions.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>Yes, 10.205(h).</td>
<td></td>
</tr>
<tr>
<td>Engineers (original license)</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.205(d); Yes, 10.205(e); subpart D.</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Note: exceptions.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>Yes, 10.205(h).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All raises of grade</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.207(e); Yes, 10.207(c); subparts D &amp; E.</td>
<td>N/A Yes, Note: 10.207(f).</td>
<td>Yes, 10.207(g); Yes, 10.207(h); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>Yes, 10.205(h).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>License renewals</td>
<td>N/A; Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COR renewals</td>
<td>N/A; Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g)</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pilot</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uninspected fishing industry vessels.</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uninspected towing vessels</td>
<td>Operator 21; 2/c operator 19.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radio officer</td>
<td>19; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staff officer</td>
<td>21; 10.201(f); Note: exceptions.</td>
<td>Yes, 10.209(d); No, 10.709</td>
<td>Yes, 10.205(f); Yes, 10.205(g); Yes, 10.205(i).</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.910; Note: 10.903(b); 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 10.205(j); Yes, 10.205(k); 10.920; 10.910; 10.910; 10.910; 10.910; 10.910.</td>
<td>Yes, 3 months in past 36 months.</td>
<td>N/A.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
§ 10.204 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88-033, 54 FR 50379, Dec. 6, 1989]

§ 10.205 Requirements for original licenses, certificates of registry, and STCW certificates and endorsements.

(a) General. The applicant for an original license or certificate of registry shall present satisfactory documentary evidence of eligibility in respect to the requirements of this section. Each applicant shall make written application on a Coast Guard furnished form and, unless exempted under §10.112, submit the evaluation fee set out in table 10.109 in §10.109.

(b) Minimum age. The applicant shall present satisfactory proof of age as prescribed in §10.201(f). This evidence may be any of the items submitted to establish citizenship.

(c) Citizenship.

(i) The OCMI may reject any evidence of citizenship that is not believed to be authentic. Acceptable evidence of citizenship may be an original or certified copy of the following:

(a) Birth certificate or birth registration.
(b) Certificate of naturalization (original must be presented; photocopies are unlawful).
(c) Baptismal certificate or parish record recorded within one year after birth.
(d) Statement of a practicing physician certifying attendance at the birth and who possesses a record showing the date and location at which it occurred.
(e) State Department passport.
(f) A merchant mariner’s document issued by the Coast Guard which shows the holder as a United States citizen.
(g) Delayed certificate of birth issued under a state seal in the absence of any collateral facts indicating fraud in its procurement.
(h) Certificate of Citizenship issued by the United States Immigration and Naturalization Service.

(ii) If none of the requirements set forth in paragraphs (c)(1)(i) through (c)(1)(viii) of this section can be met by the applicant, the individual shall make a statement to that effect, and may submit data of the following character for consideration:

(a) Report of the Census Bureau showing the earliest available record of age or birth. Request for such information should be addressed to the Personal Census Service Branch, Bureau of the Census, Pittsburgh, KS 66762. In making such request, the use of Form BC-600, Application for Search of Census Records, furnished by the Bureau is required.
(b) Affidavits of parents, relative, or two or more responsible citizens of the United States stating citizenship.
(c) School records, immigration records, or insurance policies.

(d) Physical examination.

(1) All applicants for an original license must pass an examination given by a licensed physician or a licensed physician assistant and present to the OCMI a completed Coast Guard physical examination form, or the equivalent, executed by the physician. This form must provide information on the applicant’s acuity of vision, color sense, and general physical condition. This examination must have been completed prior to submission of the application and not more than 12 months prior to issuance of the license. (Physical examinations are not required for staff officers.)

(2) For an original license as master, mate, pilot, or operator, the applicant must have vision correctable to at least 20/40 in each eye and uncorrected vision of at least 20/200 in each eye. The color sense must be determined to be satisfactory when tested by any of the following methods, without the use of color sensing lenses:

(a) Pseudoisochromatic Plates (Dvorine, 2nd Edition; AOC; revised edition or AOC-HRR; Ishihara 16-, 24-, or 38-plate editions).
(b) Eldridge—Green Color Perception Lantern.
(c) Farnsworth Lantern.
(d) Keystone Orthoscope.
(e) Keystone Telebinocular.
(f) SAMCTT (School of Aviation Medicine Color Threshold Tester).
(g) Titmus Optical Vision Tester.
(h) Williams Lantern.

(3) For an original license as engineer, radio officer, offshore installation
§ 10.205

manager, barge supervisor or ballast control operator, the applicant must have correctable vision of at least 20/50 in each eye and uncorrected vision of at least 20/200 in each eye. Applicants need only to have the ability to distinguish the colors red, green, blue and yellow.

(4) Where an applicant does not possess the vision, hearing, or general physical condition necessary, the OCMI, after consultation with the examining physician or physician's assistant, may recommend a waiver to the Commandant if extenuating circumstances warrant special consideration. Applicants may submit to the OCMI, additional correspondence, records and reports in support of this request. In this regard, recommendations from agencies of the Federal Government operating government vessels, as well as owners and operators of private vessels, made in behalf of their employees, will be given full consideration. Waivers are not normally granted to an applicant whose corrected vision in the better eye is not at least 20/40 for deck licenses or 20/50 for engineer licenses.

(e) Experience or training. (1) All applicants for original licenses and certificates of registry shall present to the OCMI, letters, discharges, or other documents certifying the amount and character of their experience and the names, tonnage and horsepower of the vessels on which acquired. The OCMI must be satisfied as to the authenticity and acceptability of all evidence of experience or training presented. Certificates of discharge are returned to the applicant. The OCMI shall note on the application that service represented by these documents has been verified. All other documentary evidence of service, or authentic copies thereof, are filed with the application. A license is not considered as satisfactory evidence of any qualifying experience.

(2) No original license or certificate of registry may be issued to any naturalized citizen on less experience in any grade or capacity than would have been required of a citizen of the United States by birth.

(3) Experience and service acquired on foreign vessels is creditable for establishing eligibility for an original license, subject to evaluation by the OCMI to determine that it is a fair and reasonable equivalent to service acquired on merchant vessels of the United States, with respect to grade, tonnage, horsepower, waters, and operating conditions. An applicant who has obtained qualifying experience on foreign vessels shall submit satisfactory documentary evidence of such service (including any necessary translation into English) in the forms prescribed by paragraph (e)(1) of this section.

(4) No applicant for an original license who is a naturalized citizen, and who has obtained experience on foreign vessels, will be given an original license in a grade higher than that upon which he or she has actually served while acting under the authority of a foreign license.

(f) Character check and references. (1) Each applicant for an original license shall submit written recommendations concerning the applicant's suitability for duty from a master and two other licensed officers of vessels on which the applicant has served. For a license as engineer or as pilot, at least one of the recommendations must be from the chief engineer or licensed pilot, respectively, of a vessel on which the applicant has served. For a license as engineer where service was obtained on vessels not carrying a licensed engineer and for a license as operator of uninspected towing vessels, the recommendations may be by recent marine employers with at least one recommendation from a master, operator, or person in charge of a vessel upon which the applicant has served. For a license as offshore installation manager, barge supervisor, or ballast control operator, at least one recommendation must be from an offshore installation manager of a unit on which the applicant has served. Where an applicant qualifies for a license through an approved training school, one of the character references must be an official of that school. For a license for which no commercial experience may be required, such as: Master or mate 25-200 gross tons, operator of uninspected passenger vessels, radio officer or certificate of registry, the applicant may have the written recommendations of three persons who
Coast Guard, DOT § 10.205

have knowledge of the applicant’s suitability for duty.

(2) The OCMI may review the criminal record check of each applicant for an original license or certificate of registry according to the procedures set forth in §10.201(h).

(3) A person may apply for an original license, or license of a different type, while on probation as a result of administrative action under part 5 of this chapter. The offense for which the applicant was placed on probation will be considered in determining his or her fitness to hold the license applied for. A license issued to an applicant on probation will be subject to the same probationary conditions as were imposed against the applicant’s other license or mariner’s document. An applicant may not take an examination for a license during any period when a suspension without probation or a revocation is effective against the applicant’s currently held license or mariner’s document, or while an appeal from these actions is pending.

(4) In the event a license or certificate of registry has already been issued when information about the applicant’s habits of life and character is brought to the attention of the OCMI, if such information warrants the belief that the applicant cannot be entrusted with the duties and responsibilities of the license or certificate of registry issued, or if such information indicates that the application for the license or certificate of registry was false or incomplete, the OCMI may notify the holder in writing that the license or certificate of registry is considered null and void, direct the holder to return it to the OCMI, and advise the holder that, upon return of the license or certificate of registry, the appeal procedures of §10.204 of this part apply.

(g) Firefighting certificate. Applicants for the licenses in the following categories must present a certificate of completion from a firefighting course of instruction which has been approved by the Commandant. The course must meet both the basic and advanced sections of the International Maritime Organization’s (IMO) Resolution A.437 (XI) Training of Crews in Firefighting. The course must have been completed within five years before the date of application for the license requested.

(1) Master’s license for service on vessels of 200 gross tons or less in ocean service.

(2) All master or mate’s licenses for over 200 gross tons.

(3) All operators of uninspected towing vessels, oceans (domestic trade).

(4) All licenses on mobile offshore drilling units.

(5) All engineer’s licenses.

(h) First aid and cardiopulmonary resuscitation (CPR) course certificates. All applicants for an original license or certificate of registry, except as provided in §§10.429, 10.456, and 10.466 of this part, must present to the OCMI:

(1) A certificate indicating completion of a first aid course within the past 12 months from:

(i) The American National Red Cross Standard First Aid and Emergency Care or Multi-media Standard First Aid course;

(ii) A Coast Guard approved first aid training course; or,

(iii) A course the OCMI determines meets or exceeds the standards of the American Red Cross courses; and,

(2) A currently valid certificate of completion of a CPR course from:

(i) The American National Red Cross;

(ii) The American Heart Association;

(iii) A Coast Guard approved CPR training course; or,

(iv) A course the OCMI determines meets or exceeds the standards of the American Red Cross or American Heart Association courses.

(i) Professional Examination. (1) When the OCMI finds the applicant’s experience and training to be satisfactory and the applicant is eligible in all other respects, the OCMI will authorize the examination in accordance with the following requirements:

(i) Any applicant for a deck or engineer license limited to vessels not exceeding 500 gross tons, or a license limited to uninspected fishing-industry vessels, may request an oral-assisted examination in lieu of any written or other textual examination. If there are textual questions that the applicant has difficulty reading and understanding, the OCMI will offer the oral-assisted examination. Each license based on an oral-assisted examination
§ 10.205 46 CFR Ch. I (10–1–99 Edition)

is limited to the specific route and type of vessel upon which the applicant obtained the majority of service.

(ii) The general instructions for administration of examinations and the lists of subjects for all licenses appear in Subpart I of this part. The OCMI will place in the applicant’s file a record indicating the subjects covered.

(2) When the license application of any person has been approved, the applicant should take the required examination as soon as practicable. If the applicant cannot be examined without delay at the office where the application is made, the applicant may request that the examination be given at another office.

(3) The qualification requirements for radar observer are contained in §10.480.

(4) An examination is not required for a license as radio officer or a certificate of registry.

(j) Chemical testing for dangerous drugs. To obtain a license or certificate of registry each applicant shall produce evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in §16.220 of this subchapter. An applicant who fails a chemical test for dangerous drugs will not be issued a license or certificate of registry.

(k) National Driver Register. Each applicant for an original license or certificate of registry shall consent to an NDR check under §10.201(i).

(l) Basic safety training or instruction. After January 31, 1997, except as provided in §10.202, an STCW certificate or endorsement valid for any period on or after February 1, 2002, will be issued only when the candidate provides evidence of having achieved or, if training has been completed, having maintained the minimum standards of competence for the following 4 areas of basic safety within the previous 5 years upon assessment of a practical demonstration of skills and abilities:

(1) Personal survival techniques as set out in table A–VI/I–1 of the STCW Code.

(2) Fire prevention and fire-fighting as set out in table A–VI/I–2 of the STCW Code.

(3) Elementary first aid as set out in table A–VI/I–3 of the STCW Code.

(4) Personal safety and social responsibilities as set out in table A–VI/I–4 of the STCW Code.

(m) Competence in the use of Automatic Radar-Plotting Aids (ARPA). (1) Subject to paragraph (m)(2) of this section, and except as otherwise provided in §10.202, each candidate for an STCW certificate or endorsement as master or mate, to be valid on or after February 1, 2002, for service on vessels in ocean or near-coastal service, shall present a certificate of completion from an approved course or from accepted training on an ARPA simulator. The course or training must be sufficient to establish that the applicant is competent to maintain safe navigation through the proper use of ARPA, by correctly interpreting and analyzing the information obtained from that device and taking into account both the limitations of the equipment and the prevailing circumstances and conditions. The simulator used in the course or training must meet or exceed the performance standards established under STCW Regulation I/12 of the 1995 Amendments.

(2) Training and assessment in the use of ARPA are not required for mariners serving exclusively on vessels not fitted with ARPA. However, when any mariner so serving has not completed it, his or her STCW certificate or endorsement will be endorsed to indicate this limitation.

(n) Certificate for operator of radio in the Global Maritime Distress and Safety System (GMDSS). (1) Subject to paragraph (n)(2) of this section, and except as otherwise provided by §10.202, each candidate for an STCW certificate or endorsement as master or mate, to be valid on or after February 1, 2002, for service in vessels in ocean or near-coastal service, shall present—

(i) A certificate for operator of radio in the GMDSS issued by the Federal Communication Commission (FCC); and

(ii) A certificate of completion from a Coast Guard-approved or accepted course for operator of radio in the GMDSS or from another approved or accepted program of training and assessment covering the same areas of competence. The course or program must be sufficient to establish that the
§ 10.207 Requirements for raises of grades of licenses.

(a) General. Before any person is issued a raise of grade of license, the applicant shall present satisfactory documentary evidence of eligibility. Each applicant shall make written application on a Coast Guard furnished form and, unless exempted under § 10.112, submit the evaluation fee set out in table 10.109 in § 10.109.

(b) Surrendering old license. Upon the issuance of a new license for raise of grade, the applicant shall surrender the old license to the OCMI. If requested, the old license is returned to the applicant after cancellation.

(c) Age, experience, training, and assessment. (1) Each applicant for a raise of grade of license shall establish that he or she possesses the age, experience, and training necessary, and has been examined and otherwise assessed as may be required by this part to establish competence to hold the particular license requested, before he or she is entitled to a raise in grade of license.

(2) Applicants for raise of grade of license shall present to the OCMI at a Regional Examination Center, letters, discharges, or other official documents certifying to the amount and character of their experience and the names of the vessels on which acquired. Certificates of discharge are returned to the applicant after review by the OCMI. All other documentary evidence of service,
or copies thereof, are filed with the application.

(3) Sea service acquired prior to the issuance of the license held is generally not accepted as any part of the service required for raise of grade of that license. However, service acquired prior to issuance of a license will be accepted for certain crossovers, endorsements or increases in scope of a license, as appropriate. In the limited tonnage categories for deck licenses, total accumulated service is a necessary criterion for most raises in grade; service acquired prior to the issuance of such licenses will, therefore, be accepted.

(4) No raise of grade of license may be issued to any naturalized citizen on less experience in any grade than would have been required of a citizen of the United States by birth.

(5) Experience and service acquired on foreign vessels while holding a valid U. S. license is creditable for establishing eligibility for a raise of grade, subject to evaluation by the OCMI to determine that it is a fair and reasonable equivalent to service acquired on merchant vessels of the United States, with respect to grade, tonnage, horsepower, waters and operating conditions. An applicant who has obtained the qualifying experience on foreign vessels shall submit satisfactory documentary evidence of such service (including any necessary translations into English) in the forms prescribed by paragraph (c)(2) of this section.

(6) An applicant remains eligible for a raise of grade of license while on probation as a result of action under part 5 of this chapter. A raise of grade of license issued to a person on probation will be subject to the same probationary conditions imposed against the applicant’s other certificates or licenses. The offense for which he or she was placed on probation will be considered on the merits of the case in determining fitness to hold the license applied for. No applicant will be examined for a raise of grade of license during any period when a suspension without probation or a revocation imposed under part 5 of this chapter is effective against the applicant’s license or certificate or while an appeal from these actions is pending.

(d) Professional Examination. (1)(i) When the OCMI finds an applicant’s experience and training for raise of grade to be satisfactory and the applicant is eligible in all other respects, the OCMI will authorize the examination. Oral-assisted examinations may be administered in accordance with §10.205(i)(1). The OCMI will place in the applicant’s file a record indicating the subjects covered.

(ii) The general instructions for administration of examinations and the lists of subjects for all licenses appear in Subpart I of this part.

(2) The qualification requirements for radar observer are contained in §10.480.

(e) Physical requirements. (1) An applicant for raise of grade of a license who has not had a physical examination for an original license or renewal of license within three years must submit a certification by a licensed physician or physician assistant that he or she is in good health and has no physical impairment or medical condition which would render him or her incompetent to perform the ordinary duties of the license applied for.

(2) If the OCMI has reason to believe that an applicant for raise of grade of license suffers from some physical impairment or medical condition which would render the applicant incompetent to perform the ordinary duties of that license, the applicant may be required to submit the results of an examination by a licensed physician or physician assistant that meets the requirements for an original license.

(3) An applicant who has lost the sight of one eye may obtain a raise of grade of license, provided that the applicant is qualified in all other respects and that the visual acuity in the one remaining eye passes the test required under §10.205(d).

(f) Firefighting certificate. Applicants for raise of grade of license who have not previously met the requirements in §10.205(g), must do so.

(g) Chemical testing for dangerous drugs. To obtain a raise of grade of a license each applicant shall produce evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in §16.220 of this subchapter.
§ 10.209 Requirements for renewal of licenses, certificates of registry, and STCW certificates and endorsements.

(a) General. Except as provided in paragraph (g) of this section, an applicant for renewal of a license or certificate of registry shall establish possession of all of the necessary qualifications before the license or certificate of registry is issued.

(1) Each application must be on a Coast Guard furnished form and be accompanied by the evaluation fee set out in table 10.109 in §10.109. An approved application is valid for 12 months.

(2) The applicant may apply in person at any Regional Examination Center listed in §10.105 or may renew the license or certificate of registry by mail under paragraph (e)(3) of this section.

(3) The applicant shall submit the original or a photocopy of the license or certificate of registry to be renewed. A photocopy will include the back and all attachments. If requested, the old license or certificate of registry will be returned to the applicant.

(b) Fitness. No license or certificate of registry will be renewed if it has been suspended without probation or revoked as a result of action under part 15 of this chapter, or facts that would render a renewal improper have come to the attention of the Coast Guard.

(c) Professional requirements. (1) In order to renew a license as master, mate, engineer, pilot, or operator, the applicant shall:

(i) Present evidence of at least 1 year of sea service during the past 5 years;

(ii) Pass a comprehensive, open-book exercise covering the general subject matter contained in appropriate sections of subpart I of this part;

(iii) Complete an approved refresher training course; or

(iv) Present evidence of employment in a position closely related to the operation, construction or repair of vessels (either deck or engineer as appropriate) for at least 3 years during the past 5 years. An applicant for a deck license with this type of employment must also demonstrate knowledge on an applicable Rules of the Road exercise.

(2) The qualification requirements for renewal of radar observer endorsement are in §10.480.

(3) Additional qualification requirements for renewal of a license as pilot are contained in §10.713.

(4) An applicant for renewal of a radio officer’s license shall, in addition to meeting the requirements of paragraphs (a) and (b) of this section, present a currently valid license as first- or second-class radiotelegraph operator issued by the Federal Communications Commission. This license will be returned to the applicant.

(5) An applicant for renewal of a medical doctor or professional nurse certificate of registry shall, in addition to meeting the requirements of paragraphs (a) and (b) of this section, present evidence that he or she holds a currently valid appropriate license as physician, surgeon, or registered nurse issued under the authority of a state or territory of the United States, the Commonwealth of Puerto Rico, or the District of Columbia.

(d) Physical requirements. (1) An applicant for renewal of a license shall submit a certification by a licensed physician or physician assistant that he or she is in good health and has no physical impairment or medical condition which would render him or her incompetent to perform the ordinary duties of that license. This certification must address visual acuity and hearing in...
addition to general physical condition and must have been completed within 12 months of the date of application.

(2) If the OCMI has reason to believe that an applicant for renewal of a license suffers from some physical impairment or medical condition which would render the applicant incompetent to perform the ordinary duties of that license, the applicant may be required to submit the results of an examination by a licensed physician or physician assistant that meets the requirements for original license.

(3) An applicant who has lost the sight of one eye may obtain a renewal of license, provided that the applicant is qualified in all other respects and that the visual acuity in the one remaining eye passes the test required under §10.205(d).

(4) Physical examinations are not required for renewal of certificates of registry.

(e) Special circumstances—(1) Period of grace. Except as provided herein, a license may not be renewed more than 12 months after it has expired. To obtain a reissuance of the license, an applicant must comply with the requirements of paragraph (f) of this section. When an applicant’s license expires during a time of service with the Armed Forces and there is no reasonable opportunity for renewal, including by mail, this period may be extended. The period of military service following the date of license expiration which precluded renewal may be added to the 12 month period of grace. The 12 month period of grace, and any extension, do not affect the expiration date of the license. A license is not valid for use after the expiration date.

(2) Renewal in advance. A license or certificate of registry may not be renewed more than 12 months before expiration unless it is being renewed in conjunction with a merchant mariner’s document which is either due for renewal or being endorsed, or unless the OCMI is satisfied that special circumstances exist to justify renewal.

(3) Renewal by mail. (i) Applications for renewal by mail of licenses or certificates of registry may be sent to the Coast Guard office that issued the license or certificate of registry or holds the applicant’s file. The following documents must be submitted:

(A) A properly completed application on a Coast Guard furnished form and the evaluation fee required by table 10.109 in §10.109.

(B) The expired license or certificate of registry to be renewed; or, if it has not expired, a photocopy of the license or certificate, including the back and all attachments.

(C) A certification from a licensed physician or physician assistant in accordance with paragraph (d) of this section for the renewal of a license.

(D) If the applicant desires to renew a license with a radar observer endorsement, either the radar observer certificate or a certified copy.

(E) Evidence of, or acceptable substitute for, sea service for the renewal of a license.

(F) For a certificate of registry as a medical doctor or professional nurse, evidence that he or she holds a currently valid, appropriate license as physician, surgeon, or registered nurse, issued under the authority of a state or territory of the United States, the Commonwealth of Puerto Rico, or the District of Columbia.

(ii) The open-book exercise, if required, may be administered through the mail.

(iii) Upon receipt of the renewed license or certificate of registry, the applicant shall sign it in order to validate the license or certificate.

(4) Concurrent renewal of licenses, certificates of registry, and merchant mariner’s documents. An applicant for concurrent renewal of more than one merchant mariner credential shall satisfy the individual renewal requirements and pay the applicable fees required by the tables in §§10.109 and 12.02-18 of this chapter for each license, certificate of registry, or merchant mariner’s document being renewed.

(f) Reissuance of expired license or certificate of registry. (1) Whenever an applicant applies for reissuance of a license more than 12 months after expiration, in lieu of the requirements of paragraph (c) of this section, the applicant shall demonstrate continued professional knowledge by completing a course approved for this purpose, or by passing the complete examination for
that license. The examination may be oral-assisted if the expired license was awarded on an oral exam. The fees listed in table 10.109 in §10.109 apply to these examinations. In the case of an expired radio officer's license, the license may be issued upon presentation of a valid first- or second-class radiotelegraph operator license issued by the Federal Communications Commission.

(2) A certificate of registry that has been expired for more than 12 months shall be renewed in the same way as a current certificate of registry. There are no additional requirements for reissuing certificates of registry that have been expired for more than 12 months.

(g) Inactive license renewal. (1) Applicants for renewal of licenses who are unwilling or otherwise unable to meet the requirements of paragraphs (c) or (d) of this section may renew their licenses, with the following restrictive endorsement placed on the back of the license: “License renewed for continuity purposes only; service under the authority of this license is prohibited.” Holders of licenses with this continuity endorsement may have the prohibition rescinded at any time by satisfying the renewal requirements in paragraphs (c), (d), and (h) of this section.

(2) Applications for renewal of a license with the continuity endorsement must include:

(i) The license to be renewed, or, if it is unexpired, a photocopy of the license including the back and all attachments; and,

(ii) A signed statement from the applicant attesting to an awareness of the restriction to be placed on the renewed license, and of the requirements for rescinding the continuity endorsement.

(h) Chemical testing for dangerous drugs. Except for applicants requesting an inactive license renewal under paragraph (g) of this section, each applicant for the renewal of a license or of a certificate of registry shall produce evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in §16.220 of this subchapter. An applicant who fails a chemical test for dangerous drugs will not be issued a license or certificate of registry.

(i) Each applicant for a renewal may be required to consent to a criminal record check under §10.201(h).

(j) Each applicant for renewal of a license or certificate of registry shall consent to an NDR check under §10.201(i).

(k) Except as otherwise provided by §10.202, each candidate for a renewal of an STCW certificate or endorsement as master, mate, operator, or engineer, to be valid on or after February 1, 2002, for service on any vessel in ocean or near-coastal service, shall meet the applicable requirements of paragraphs (l), (m), (n), and (o) in §10.205 and shall meet the requirements of Section A-VII/2, paragraph 1 to 4 of the STCW Code.

§ 10.211 Creditable service and equivalents for licensing purposes.

(a) Sea service may be documented for licensing purposes in various forms such as certificates of discharge, pilotage service and billing forms, and letters or other official documents from marine companies signed by appropriate officials or licensed masters. For service on vessels of under 200 gross tons, owners of vessels may attest to their own service; however, those who do not own a vessel must obtain letters or other evidence from licensed personnel or the owners of the vessels listed. The documentary evidence produced by the applicant must contain the amount and nature (e.g. chief mate, assistant engineer, etc.) of the applicant’s experience, the vessel name, gross tonnage, shaft horsepower and official numbers, the routes upon which the experience was acquired, and approximate dates of service.
§ 10.213  Sea service as a member of the Armed Forces of the United States and on vessels owned by the United States as qualifying experience.

(a) Sea service as a member of the Armed Forces of the United States will be accepted as qualifying experience for an original, raise of grade, or increase in scope of all licenses. In most cases, military sea service will have been performed upon ocean waters; however, inland service, as may be the case on smaller vessels, will be credited in the same manner as conventional evaluations. The applicant must submit an official transcript of sea service as verification of the service claimed when the application is submitted. The applicant must also provide the Officer in Charge, Marine Inspection other necessary information as to tonnage, routes, horsepower, percentage of time underway, and assigned duties upon the vessels which he or she served. Such service will be evaluated by the OCMI and forwarded to the Commandant for a determination of its equivalence to sea service acquired on merchant vessels and the appropriate grade, class, and limit of license for which the applicant is eligible. Normally, 60 percent of the total time on board is considered equivalent underway service; however, the periods of operation of each vessel may be evaluated separately. In order to be eligible for a master’s or chief engineer’s unlimited license, the applicant must have acquired military service in the capacity of commanding officer or engineer officer, respectively.

(b) Service in deck ratings on military vessels such as seaman apprentice, seaman, boatswain’s mate, quartermaster, or radarman are considered deck service for licensing purposes. Service in other ratings may be considered if the applicant establishes that his or her duties required a watchstanding presence on or about the bridge of a vessel. Service in engineer ratings on military vessels such as fireman apprentice, fireman, engineman, machinists, mate, machinery technician or boiler tender are considered engineer service for licensing purposes. There are also other ratings such as electrician, hull technician, or damage controlman which may be
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§ 10.217 Examination procedures and denial of licenses.

(a)(1) The examinations for all deck and engineer unlimited licenses are administered at periodic intervals. The examination fee set out in table 10.109 in § 10.109 must be paid before the applicant may take the first examination section. If an applicant fails three or more sections of the examination, a complete reexamination must be taken, but may be taken during any of the scheduled exam periods. On the subsequent exam, if the applicant again fails three or more sections, at least 3 months must lapse before another complete examination is attempted, and a new examination fee is required. If an applicant fails one or two sections of an examination, the applicant may be retested twice on these sections during the next 3 months. If the applicant does not successfully complete these sections within the 3 month period, complete reexamination must be taken after a lapse of at least 3 months from the date of the last retest, and a new examination fee is required. The 3 month retest period may be extended by the OCMI if the applicant presents discharges documenting sea time which prevented the taking of a retest during the 3 month period. The retest period may not be extended beyond 7 months from the initial examination.

(2) The scheduling of all other deck and engineer license examinations will be at the discretion of the OCMI. The examination fee set out in table 10.109 in § 10.109 must be paid before the applicant may take the first examination section. In the event of a failure, the applicant may be retested twice whenever the examination can be rescheduled with the OCMI. The applicant...
must be examined in all of the unsatisfactory sections of the preceding examination. If the applicant does not successfully complete all parts of the examination during a 3-month period from the initial test date, a complete reexamination must be taken after a lapse of at least 2 months from the date of the last retest, and a new examination fee is required.

(b) If the OCMI refuses to grant an applicant the license for which applied due to failing to pass a required examination, the applicant is furnished a written statement setting forth the portions of the examination which must be retaken and the date by which the examination must be completed.


§ 10.219 Issuance of duplicate license or certificate of registry.

(a) Whenever a person to whom a license or certificate of registry has been issued loses the license or certificate, that person shall report the loss to any OCMI. A duplicate license or certificate may be issued by an OCMI listed in the note following §1.05(b) of this part after receiving an application with an affidavit describing the circumstances of the loss from the applicant and verification of the license or certificate record from the Regional Examination Center where it was issued or from the Commandant. The duplicate will be prepared in the same format and wording as the license or certificate being replaced. A duplicate license is issued for the unexpired term of the lost license. Duplicate licenses and certificates of registry bear the following statement: “This license (or certificate) replaces License (or Certificate) Number __/emlowln/emlowln/wdspc issued at __/emlowln/emlowln/wdspc on __/emlowln/emlowln/wdspc.”

(b) If a person loses a license or certificate of registry by shipwreck or other casualty, a reissue of that license or registry will be supplied free of charge. Other casualties include any damage to a ship caused by collision, explosion, tornado, wreck, flooding, beaching, grounding, or fire.

(c) If a person loses a license or certificate of registry otherwise than by shipwreck or other casualty and applies for a reissue, the appropriate fee set out in table 10.109 in §10.109 is required.


Effective Date Note: By USCG-1997-2799, 64 FR 42815, Aug. 5, 1999, in §10.219, paragraph (c) was amended by removing “§10.109” and adding “table 10.109 in §10.109”, effective Oct. 4, 1999.

§ 10.221 Parting with license.

The holder of a license shall not voluntarily part with it or place it beyond his or her personal control by pledging or depositing it with any other person for any purpose. If the holder violates this section, he or she may be proceeded against in accordance with the provisions of part 5 of this chapter, looking to a suspension or revocation of the license.

§ 10.223 Suspension and revocation of licenses.

(a) When the license of any individual is revoked, it is no longer valid for any purpose and any license of the same type subsequently requested must be applied for as an original license, except as to number of issue.

(b) No person whose license is suspended without probation or has been revoked may be issued another license without approval of the Commandant.

(c) When a license which is about to expire is suspended, the renewal of such license will be withheld until expiration of the period of suspension.

Subpart C—Training Schools with Approved Courses

§ 10.301 Applicability.

This subpart prescribes the general requirements applicable to all approved courses which may be accepted in lieu of service experience or examination required by the Coast Guard, or which satisfy course completion requirements.
§ 10.302 Course approval.

(a) The Coast Guard approves courses satisfying regulatory requirements and those that substitute for a Coast Guard examination or a portion of a sea service requirement. The owner or operator of a training school desiring to have a course approved by the Coast Guard shall submit a written request to the Commanding Officer, National Maritime Center, NMC-4B, 4200 Wilson Boulevard, Suite 510, Arlington, VA 22203-1804, that contains:

1. A list of the curriculum including a description and the number of classroom hours required in each subject;
2. A description of the facility and equipment;
3. A list of instructors including the experience, background, and the qualifications of each; and
4. Specify the Coast Guard training requirements the course is intended to satisfy.

(b) The Coast Guard notifies each applicant in writing whether or not an approval is granted. If a request for approval is denied, the Coast Guard informs the applicant the reasons for the denial and describes what corrections are required for an approval.

(c) Unless sooner surrendered, suspended or withdrawn, an approval for a course at a training school that meets Coast Guard standards expires 24 months after the month in which it is issued, when the school closes, when the school gives notice that it will no longer offer the course, or on the date of any change in the ownership of the school for which it was issued, whichever occurs first.

(d) If the owner or operator of a training school desires to have a course approval renewed, they shall submit a written request to the address listed in paragraph (a) of this section. For the request to be approved, the Coast Guard must be satisfied that the content and quality of instruction remain satisfactory. Unless sooner surrendered, suspended or withdrawn, a renewal of the approval expires 60 months after the month it is issued, when the school closes, when the school gives notice that it will no longer offer the course, or on the date of any change in ownership of the school for which it is issued, whichever occurs first.

(e) Suspension of approval. If the Coast Guard determines that a specific course does not comply with the provisions of 46 CFR parts 10, 12, 13 or 15, or the requirements specified in the course approval; or substantially deviates from the course curriculum package as submitted for approval; or if the course is being presented in a manner that is insufficient to achieve learning objectives; the cognizant OCMI may suspend the approval, may require the holder to surrender the certificate of approval, if any, and may direct the holder to cease claiming the course is Coast Guard approved. The Cognizant OCMI will notify the approval holder in writing of its intention to suspend the approval and the reasons for suspension. If the approval holder fails to correct the reasons for suspension, the course will be suspended and the matter referred to the Commanding Officer, National Maritime Center. The Commanding Officer, National Maritime Center, will notify the approval holder that the specific course fails to meet applicable requirements, and explain how those deficiencies can be corrected. The Commanding Officer, National Maritime Center, may grant the approval holder up to 60 days in which to correct the deficiencies.

(f) Withdrawal of approval. (1) The Commanding Officer, National Maritime Center, may withdraw approval for any course when the approval holder fails to correct the deficiency(ies) of a suspended course within a time period allowed under paragraph (e) of this section.

(2) The Commanding Officer, National Maritime Center, may withdraw approval of any or all courses by an approval holder upon a determination that the approval holder has demonstrated a pattern or history of:

(i) Failing to comply with the applicable regulations or the requirements of course approvals;
(ii) Substantial deviations from their approved course curricula; or
(iii) Presenting courses in a manner that is insufficient to achieve learning objectives.

(g) Appeals of suspension or withdrawal of approval. Anyone directly affected
§ 10.303 General standards.

Each school with an approved course must:

(a) Have a well maintained facility that accommodates the students in a safe and comfortable environment conducive to learning.

(b) Have visual aids for realism, including simulators where appropriate, which are modern and well maintained and sufficient for the number of students to be accommodated.

(c) Give appropriate written or practical examinations in the course material to each student of such a degree of difficulty that a student who successfully completes them could reasonably assume that he or she would pass, on the first attempt, an examination prepared by the Coast Guard based upon knowledge requirements of the position or endorsement for which the student is being trained.

(d) Keep for at least one year after the end of each student’s enrollment:

1. Each written examination, or in the case of a practical test, a report of such test; and

2. A record of each student’s classroom attendance.

(e) Not change its approved curriculum unless approved, in writing, after the request for change has been submitted in writing to the Commanding Officer, National Maritime Center (NMC-4B).

(f) At any time the Officer in Charge, Marine Inspection shall direct, allow the Coast Guard to:

1. Inspect its facilities, equipment, and records, including scholastic records;

2. Conduct interviews and surveys of students to aid in course evaluation and improvement;

3. Assign personnel to observe or participate in the course of instruction; and

4. Supervise or administer the required examinations or practical demonstrations.

§ 10.304 Substitution of training for required service, and use of training-record books.

(a) Satisfactory completion of certain training courses approved by the Commandant may be substituted for a portion of the required service for many deck and engineer licenses and for qualified ratings of unlicensed personnel. The list of all currently approved courses of instruction including the equivalent service and applicable licenses and ratings is maintained by the Commanding Officer, National Maritime Center, NMC-4B. Satisfactory completion of an approved training course may be substituted for not more than two-thirds of the required service on deck or in the engine department for deck or engineer licenses, respectively, and for qualified ratings.

(b) Service time gained at an approved training course does not satisfy recent service requirements nor does training on a simulator; however, any underway service at an approved course may be used for this purpose. An applicant who had met the recent service requirement before entering school will not be penalized by attending the approved training course.

(c) Training obtained prior to receiving a license may not be used for subsequent raises of grade.

(d) Simulator training in combination with a Coast Guard approved training course may be submitted to the Commanding Officer, National Maritime Center, for evaluation and determination of equivalency to required sea service. Simulator training cannot be substituted for recency requirements, but may substitute for a maximum of 25 percent of the required service for any license transaction.

(e) Except as provided in §10.202, when a candidate both applies for an STCW certificate or endorsement as an officer in charge of a navigational watch, on the basis of training or sea
service commencing on or after August 1, 1998, and uses completion of approved training to substitute for required service, then not less than 1 year of the remaining service must be part of approved training that meets the appropriate requirements of Chapter II of STCW and the requirements of subpart C of this part. The training of a candidate must be documented in a Coast Guard-accepted training-record book.

(f) Except as provided in §10.202, each candidate who applies for an STCW certificate or endorsement and has a designated duty engineer upon completion of approved training that meets the appropriate requirements of Chapter II of STCW and the requirements of subpart C of this part. The training of a candidate must be documented in a Coast Guard-accepted training-record book.

(g) The training-record book referred to in paragraphs (e) and (f) of this section must contain at least the following:

1. The identity of the candidate.
2. The tasks to be performed or the skills to be demonstrated, with reference to the standards of competence set forth in the tables of the appropriate sections in part A of the STCW Code.
3. The criteria to be used in determining that the tasks or skills have been performed properly, again with reference to the standards of competence set forth in the tables of the appropriate sections in part A of the STCW Code.
4. A place for a qualified instructor to indicate by his or her initials that the candidate has received training in the proper performance of the task or skill.
5. A place for a designated examiner to indicate by his or her initials that the candidate has successfully completed a practical demonstration and has proved competent in the task or skill under the criteria, when assessment of competence is to be documented in the record books.
6. The identity of each qualified instructor, including any Coast Guard license or document held, and the instructor’s signature.
7. The identity of each designated examiner, when any assessment of competence is recorded, including any Coast Guard license or document held, and the examiner’s signature confirming that he or she has witnessed the practical demonstration of a particular task or skill by the candidate.

(h) The training-record book referred to in paragraphs (e) and (f) of this section may be maintained electronically, if the electronic record meets Coast Guard-accepted standards for accuracy, integrity, and availability.

§10.305 Radar-Observer certificates and qualifying courses.

(a) A student who takes an approved course of training, which includes passing both a radar-theory examination and a practical demonstration on a simulator, and who meets the requirements of this section is entitled to an appropriate Radar-Observer certificate—

1. In a form prescribed by the school and acceptable to the Coast Guard; and
2. Signed by the head of the school.

(b) The following Radar-Observer certificates are issued under this section:

1. Radar Observer (Unlimited).
2. Radar Observer (Inland Waters and Gulf-Intracoastal Waterway [GIWW]).
5. Radar Observer (Inland Waters and GIWW: Renewal).

(c) A school with an approved Radar-Observer course may issue a certificate listed in paragraph (b) of this section after the student has successfully completed the appropriate curriculum as follows:

1. Radar Observer (Unlimited). Classroom instruction—including demonstration and practical exercises using simulators—and examination, in the following subjects:
§ 10.305

(i) Fundamentals of radar:
(A) How radar works.
(B) Factors affecting the performance and accuracy of marine radar.
(C) Purposes and functions of the main components that constitute a typical marine-radar system.

(ii) Operation and use of radar:
(A) Purpose and adjustment of controls.
(B) Detection of malfunctions, false and indirect echoes, and other radar phenomena.
(C) Effects of sea return, weather, and other environmental conditions.
(D) Limitations of radar resulting from design factors.
(E) Safety precautions associated with use and maintenance of marine radar.

(f) Measurement of ranges and bearings.
(G) Effect of size, shape, composition, and distance of vessels and terrestrial targets on echo.

(iii) Interpretation and analysis of radar information:
(A) Radar navigation (including visual techniques)—determining positions, and detecting changes in the relative motion, of other vessels.
(B) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
(C) Determining the course and speed of another vessel.
(D) Determining the time and distance of closest point of approach of a crossing, meeting, overtaking, or overtaken vessel.
(E) Detecting changes of course or speed of another vessel after its initial course and speed have been established.
(F) Applying the Navigational Rules, Chapters 30 and 34 of Title 33 U.S. Code [Commandant Instruction M 16672.C, as amended, or equivalent], and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.
(G) Use of radar in maintaining situational awareness.

(iv) Plotting (by any graphically-correct method):
(A) Principles and methods of plotting relative and true motion.
(B) Practical-plotting problems.

(2) Radar Observer (Inland Waters and GIWW). Classroom instruction—with emphasis on situations and problems encountered on inland waters and the GIWW, including demonstration and practical exercises using simulators—and examination, in the following subjects:

(i) Fundamentals of radar:
(A) How radar works.
(B) Factors affecting the performance and accuracy of marine radar.
(C) Purpose and functions of the main components that constitute a typical marine-radar system.

(iii) Operation and use of radar:
(A) Purpose and adjustment of controls.
(B) Detection of malfunctions, false and indirect echoes, and other radar phenomena.
(C) Effects of sea return, weather, and other environmental conditions.
(D) Limitations of radar resulting from design factors.
(E) Safety precautions associated with use and maintenance of marine radar.

(F) Measurement of ranges and bearings.
(G) Effect of size, shape, composition, and distance of vessels and terrestrial targets on echo.

(iii) Interpretation and analysis of radar information:
(A) Radar navigation (including visual techniques)—determining positions, and detecting changes in the relative motion, of other vessels.
(B) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
(C) Determining the course and speed of another vessel.
(D) Determining the time and distance of closest point of approach of a crossing, meeting, overtaking, or overtaken vessel.
(E) Detecting changes of course or speed of another vessel after its initial course and speed have been established.
(F) Applying the Navigational Rules, and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.
(G) Use of radar in maintaining situational awareness.
(3) Radar Observer (Rivers). Classroom instruction—with emphasis on situations and problems encountered on rivers, including demonstration and practical exercises using simulators—and examination, in the following subjects:
   (i) Fundamentals of radar:
      (A) How radar works.
      (B) Factors affecting the performance and accuracy of marine radar.
      (C) Purpose and functions of the main components that constitute a typical marine-radar system.
   (ii) Operation and use of radar:
      (A) Purpose and adjustment of controls.
      (B) Detection of malfunctions, false and indirect echoes, and other radar phenomena.
      (C) Effects of sea return, weather, and other environmental conditions.
      (D) Limitations of radar resulting from design factors.
      (E) Safety precautions associated with use and maintenance of marine radar.
      (F) Measurement of ranges and bearings, recognizing limited use of radar bearings in curving, narrow channels.
      (G) Effect of size, shape, composition, and distance of vessels and terrestrial targets on echo.
   (iii) Interpretation and analysis of radar information:
      (A) Radar navigation (including visual techniques)—determining positions, and detecting changes in the relative motion, of other vessels.
      (B) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
      (C) Determining the course and speed of another vessel.
      (D) Determining the time and distance of closest point of approach of a crossing, meeting, overtaking, or overtaken vessel.
      (E) Detecting changes of course or speed of another vessel after its initial course and speed have been established.
      (F) Applying the Navigational Rules, and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.
      (G) Use of radar in maintaining situational awareness.
   (iv) Plotting (by any graphically-correct method):
      (A) Principles and methods of plotting relative and true motion.
      (B) Practical-plotting problems.
(5) Radar Observer (Inland Waters and GIWW: Renewal). Classroom instruction—including demonstration and practical exercises using simulators—and examination, in the interpretation and analysis of radar information, including:
   (i) Radar navigation (including visual techniques)—determining positions, and detecting changes in the relative motion, of other vessels.
   (ii) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
   (iii) Determining the course and speed of another vessel.
   (iv) Determining the time and distance of closest point of approach of a crossing, meeting, overtaking, or overtaken vessel.
   (v) Detecting changes of course or speed of another vessel after its initial course and speed have been established.
   (vi) Applying the Navigational Rules, and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.
   (vii) Use of radar in maintaining situational awareness.
§ 10.306 Radar-Operation course and certificate.

(a) A certificate of training from a Radar-Operation course may, as provided by 46 CFR 15.815(c)(2), suffice instead of a Radar-Observer endorsement. It is valid until the holder’s license is renewed or upgraded, or expires, whichever occurs first.

(b) Each Radar-Operation course must contain at least 4 hours of instruction on the following subjects:

(1) Fundamentals of radar:
   (i) How radar works.
   (ii) Factors affecting the performance and accuracy of marine radar.
   (iii) Purpose and functions of the main components that constitute a typical marine-radar system.

(2) Operation and use of radar:
   (i) Purpose and adjustment of controls.
   (ii) Detection of malfunctions, false and indirect echoes, and other radar phenomena.
   (iii) Effects of sea return, weather, and other environmental conditions.
   (iv) Limitations of radar resulting from design factors.
   (v) Safety precautions associated with use and maintenance of marine radar.
   (vi) Measurement of ranges and bearings.
   (vii) Effect of size, shape, composition, and distance of vessels and terrestrial targets on echo.

(3) Interpretation and analysis of radar information:
   (i) Radar navigation—determining the position and direction of movements of a vessel.
   (ii) Collision-avoidance, including visual techniques, appropriate to the circumstances and the equipment in use.
   (iii) Applying the Navigational Rules, Chapters 30 and 34 of Title 33 U.S. Code [Commandant Instruction M16672.2C or equivalent, as amended], and other factors to consider when determining changes of course or speed of a vessel to prevent collisions on the basis of radar observation.

(c) Each Radar-Operation course must be conducted by a person who possesses the knowledge and skills taught in the course, with at least one year of experience in their practical application, except that—

(1) A marine instructor or company official may substitute a currently valid certificate from an approved Radar-Observer course (Unlimited, or Inland Waters and GIWW) for the one year of experience; and

(2) An instructor of any approved Radar-Observer course may teach a Radar-Operation course without further seagoing experience.

(d) When a holder of the Radar-Operation certificate seeks a Radar-Observer endorsement, he or she is an applicant for an original endorsement rather than for renewal of an endorsement.

§ 10.307 Training schools with approved radar observer courses.

The Commanding Officer, National Maritime Center, NMC–48B, 4200 Wilson Boulevard, Suite 510, Arlington, VA 22203–1804 maintains the list of approved schools and specific courses. This information is available upon request by writing the aforementioned address or calling (703) 235–1300.

§ 10.309 Coast Guard-accepted training other than approved courses.

(a) When the training and assessment of competence required by this part are not subject to Coast Guard approval under § 10.302, but are used to qualify to hold an STCW certificate or endorsement for service on or after February 1, 2002, such training and assessment must meet the following requirements:

(1) The training and assessment must have written, clearly defined objectives that emphasize specific knowledge, skills, and abilities, and that include criteria to be used in establishing a student's successful achievement of the training objectives.

(2) The training must be set out in a written syllabus that conforms to a Coast Guard-accepted outline for such training and includes—

(i) The sequence of subjects to be covered;

(ii) The number of hours to be devoted to instruction in relevant areas of knowledge;

(iii) The identity and professional qualifications of the instructor(s) to be conducting the training or providing instruction;

(iv) The identification of other media or facilities to be used in conducting training; and

(v) Measurements at appropriate intervals of each candidate's progress toward acquisition of the specific knowledge, skills, and abilities stated in the training objectives.

(3) Except as provided in paragraph (a)(4) of this section, documentary evidence must be readily available to establish that all instructors—

(i) Have experience, training, or instruction in effective instructional techniques;

(ii) Are qualified in the task for which the training is being conducted; and

(iii) Hold the level of license, endorsement, or other professional credential required of those who would apply on board a vessel the relevant level of knowledge, skills, and abilities described in the training objectives.

(4) Neither a specialist in a particular field of nonmaritime education, such as mathematics or first aid, nor a person with at least 3 years of service as a member of the Armed Forces of the United States, specializing in the field in which he or she is to conduct training, need hold a maritime license or document to conduct training in that field.

(5) A simulator may be used in training if—

(i) The simulator meets applicable performance standards;

(ii) The instructor has gained practical operational experience on the particular type of simulator being used; and

(iii) The instructor has received appropriate guidance in instructional techniques involving the use of simulators.

(6) Essential equipment and instructional materials must afford all students adequate opportunity to participate in exercises and acquire practice in performing required skills.

(7) A process for routinely assessing the effectiveness of the instructors, including the use of confidential evaluations by students, is in place.

(8) Documentary evidence is readily available to establish that any evaluation of whether a student is competent in accordance with standards, methods, and criteria set out in part A of the STCW Code is conducted by a designated examiner who has experience, training, or instruction in assessment techniques.

(9) Records of the student's performance are maintained for at least 1 year by the offeror of the training and assessment.

(10) To ensure that the training is meeting its objectives, and the requirements of paragraphs (a)(1) through (9) of this section, the offeror must either—

(i) Be regulated as a maritime academy or marine academy pursuant to 46 CFR part 310; or

(ii) Monitor the training in accordance with a Coast Guard-accepted QSS, which must include the following features:

(A) The training must be provisionally certified, on the basis of an initial independent evaluation conducted under a Coast Guard-accepted QSS, as being capable of meeting its objective.

(B) The training must be periodically monitored in accordance with the
§ 10.401 Ocean and near coastal licenses.

(a) Any license issued for service as master or mate on ocean waters qualifies the licensee to serve in the same grade on any waters, subject to the limitations of the license, without additional endorsement.

(b) A license issued for service as master or mate on near coastal waters qualifies the licensee to serve in the same grade on near coastal, Great Lakes, and inland waters, subject to the limitations of the license, without additional endorsement.

(c) Near coastal licenses of any gross tons require the same number of years
of service as the ocean unlimited licenses. The primary differences in these licenses are the nature of the service and the professional examination as explained in subpart I of this part.

(d) A licensee having a master or mate near coastal license obtained with ocean service may have the license endorsed for ocean service by completing the appropriate examination deficiencies, provided that the additional service requirements of paragraph (e) of this section do not apply.

(e) Master or third mate near coastal unlimited licenses may be obtained by completing the prescribed examination in subpart I of this part and satisfying the requirements of paragraph (g) while holding a license as unlimited master or mate, respectively, upon Great Lakes and inland waters. To have a near coastal unlimited license obtained in this manner endorsed for ocean service, the licensee must obtain 12 months of service as a deck watch officer or higher on ocean waters on vessels of 1600 gross tons or over, in addition to completing the examination topics.

(f) Masters and mates licenses for service on vessels of over 200 gross tons may be endorsed for sail or auxiliary sail as appropriate. The applicant must present the equivalent total qualifying service required for conventional licenses including at least one year of deck experience on that specific type of vessel. For example, for a license as master of vessels of not more than 1600 gross tons endorsed for auxiliary sail, the applicant must meet the total experience requirements for the conventional license, including time as mate, and the proper tonnage experience, including at least one year of deck service on appropriately sized auxiliary sail vessels. For license endorsement for service on vessels of 200 gross tons or less see individual license requirements.

(g) In order to obtain a master or mate license with a tonnage limit above 200 gross tons, or a license for 200 gross tons or less with an ocean route, whether an original, raise in grade, or increase in the scope of license authority to a higher tonnage category, the applicant must successfully complete the following training and examination requirements:

1. Approved firefighting course;
2. Approved radar observer course; and,
3. Qualification as an able seaman unlimited or able seaman limited (able seaman special or able seaman offshore supply vessels satisfy the able seaman requirement for licenses permitting service on vessels of 1600 gross tons and less).

(h) Each applicant for a deck license which authorizes service on vessels above 1600 gross tons on ocean or near coastal waters, whether original or raise of grade, must pass a practical signaling examination (flashing light). A license applicant who fails in practical signaling, but passes every other part of the examination, may be issued a license with a 1600 gross ton limitation. The tonnage limitation can be removed upon successful completion of the signaling examination.


§10.402 Tonnage requirements for ocean or near coastal licenses for vessels of over 1600 gross tons.

(a) To qualify for an ocean or near coastal license for vessels of any gross tons, all the required experience must be obtained on vessels of over 200 gross tons. At least one-half of the required experience must be obtained on vessels of over 1600 gross tons.

(b) If the applicant for an original or raise of grade of a license as master or mate does not have the service on vessels over 1600 gross tons required by paragraph (a) of this section, or is qualifying for third mate under the provisions of paragraph §10.407(c) of this subpart, a tonnage limitation is placed on the license based on the applicant’s qualifying experience. The license is limited to the maximum tonnage on which at least 25 percent of the required experience was obtained, or 150 percent of the maximum tonnage on which at least 50 percent of the service was obtained, whichever is higher. Limitations are in multiples of 1000 gross tons, using the next higher figure when an intermediate tonnage is
§ 10.403 Deck license structure.

46 CFR Ch. I (10–1–99 Edition)

calculated. When the calculated limitation equals or exceeds 10,000 gross tons, the applicant is issued an unlimited tonnage license.

(c) Tonnage limitations imposed under paragraph (b) of this section may be raised or removed in the following manner:

(1) When the applicant has six months of service on vessels of over 1600 gross tons in the highest grade licensed, all tonnage limitations are removed.

(2) When the applicant has a total of six months of service on vessels of over 1600 gross tons in any licensed capacity other than the highest grade for which licensed, all tonnage limitations for the grade in which the service is performed are removed and the next higher grade license is raised to the tonnage of the vessel on which the majority of the service was performed. The total cumulative service before and after issuance of the limited license may be considered in removing all tonnage limitations.

(3) When the applicant has 12 months of service as able seaman on vessels over 1600 gross tons while holding a license as third mate, all tonnage limitations on the third mate's license are removed.

(d) Individuals holding licenses as master or mate of vessels of not more than 1600 gross tons, not more than 500 gross tons, or not more than 25–200 gross tons are prohibited from using the provisions of paragraph (c) of this section to increase the tonnages of their licenses.

§ 10.404 Service requirements for master of ocean or near coastal steam or motor vessels of any gross tons.

The minimum service required to qualify an applicant for license as master of ocean or near coastal steam or motor vessels of any gross tons is:

(a) One year of service as chief mate on ocean steam or motor vessels; or,

(b) One year of service on ocean steam or motor vessels while holding a license as chief mate of ocean steam or motor vessels as follows:

(1) A minimum of six months of service as chief mate; and,

(2) Service as officer in charge of a navigational watch accepted on a two-for-one basis (12 months as second or third mate equals six months of creditable service).

§ 10.405 Service requirements for chief mate of ocean or near coastal steam or motor vessels of any gross tons.

The minimum service required to qualify an applicant for license as chief mate of ocean or near coastal steam or motor vessels of any gross tons is one year of service as officer in charge of a navigational watch on ocean steam or motor vessels while holding a license as second mate.

§ 10.406 Service requirements for second mate of ocean or near coastal steam or motor vessels of any gross tons.

The minimum service required to qualify an applicant for license as second mate of ocean or near coastal steam or motor vessels of any gross tons is:

(a) One year of service as chief mate in charge of a navigational watch on ocean steam or motor vessels while holding a license as third mate; or,

(b) One year of service as second mate of ocean steam or motor vessels of any gross tons, 12 months of service on deck as follows:

(1) A minimum of six months service as officer in charge of a deck watch on ocean steam or motor vessels; in combination with,

(2) Service on ocean steam or motor vessels as boatswain, able seaman, or quartermaster while holding a certificate as able seaman, which may be accepted on a two-for-one basis to a maximum allowable substitution of six months (12 months of experience equals 6 months of creditable service); or,

(c) A licensed master of Great Lakes and inland steam or motor vessels of any gross tons or master of inland steam or motor vessels of any gross tons, may obtain a license as second mate of ocean or near coastal steam or motor vessels of any gross tons by completing the prescribed examination in subpart I of this part.


§ 10.407 Service requirements for third mate of ocean or near coastal steam or motor vessels of any gross tons.

(a) The minimum service or training required to qualify an applicant for license as third mate of ocean or near coastal steam or motor vessels of any gross tons is:

(1) Three years of service in the deck department on ocean steam or motor vessels, six months of which shall have been as able seaman, boatswain, or quartermaster, while holding a certificate as able seaman. Experience gained in the engine department on vessels of appropriate tonnage may be creditable for up to three months of the service requirements for this license; or,

(2) Graduation from:

(i) The U.S. Merchant Marine Academy (deck curriculum);

(ii) The U.S. Coast Guard Academy and qualification as an underway officer in charge of a navigational watch;

(iii) The U.S. Naval Academy and qualification as an underway officer in charge of a navigational watch; or,

(iv) The deck class of a maritime academy approved by and conducted under rules prescribed by the Maritime Administrator and listed in part 310 of this title, except the deck class of the Great Lakes Maritime Academy; or,

(3) Satisfactory completion of a three year apprentice mate training program approved by the Commandant.

(b) Graduation from the deck class of the Great Lakes Maritime Academy will qualify the graduate to be examined for a license as third mate near coastal steam or motor vessels of any gross tons.
Coast Guard, DOT

§ 10.416

(c) While holding a license as master of ocean or near coastal steam or motor vessels of not more than 1,600 gross tons, one year of service as master on vessels of over 200 gross tons operating on ocean or near coastal waters will qualify the applicant for a license as third mate of ocean or near coastal steam or motor vessels of any gross tons.

§ 10.410 Requirements for deck licenses for vessels of not more than 1600 gross tons.

(a) Licenses as master and mate of vessels of not more than 1600 gross tons are issued in the following tonnage categories:

(1) Not more than 1,600 gross tons;
(2) Not more than 500 gross tons; or,
(3) Between 25-200 gross tons in 50 ton increments and with appropriate mode of propulsion such as steam or motor, sail, or auxiliary sail.

(b) Experience gained in the engine department on vessels of appropriate tonnage may be creditable for up to 25 percent of the service requirements for any mate license in this category.

(c) A license in this category obtained with an orally-assisted examination will be limited to 500 gross tons. In order to raise that tonnage limit to 1,600 gross tons, the written examination and service requirements must be satisfied.


§ 10.412 Service requirements for master of ocean or near coastal steam or motor vessels of not more than 1600 gross tons.

The minimum service required to qualify an applicant for a license as master of ocean or near coastal steam or motor vessels of not more than 1600 gross tons is:

(a) Four years total service on ocean or near coastal waters. Service on Great Lakes and inland waters may substitute for up to two years of the required service. Two years of the required service must have been on vessels of over 100 gross tons. Two years of the required service must have been as a master, mate, or equivalent supervisory position while holding a license as master, mate, operator of uninspected towing vessels, or operator of uninspected passenger vessels. One year of the service as master, mate, or equivalent supervisory position must have been on vessels of over 100 gross tons; or,

(b) An applicant holding a license as chief mate or second mate of ocean or near coastal steam or motor vessels of over 1600 gross tons is eligible for this license upon completion of a limited examination.


§ 10.414 Service requirements for mate of ocean steam or motor vessels of not more than 1600 gross tons.

The minimum service required to qualify an applicant for a license as mate of ocean steam or motor vessels of not more than 1600 gross tons is:

(a) Three years total service in the deck department of ocean or near coastal steam or motor, sail, or auxiliary sail vessels. Service on Great Lakes and inland waters may substitute for up to 18 months of the required service. One year of the required service must have been on vessels of over 100 gross tons. One year of the required service must have been as a master, mate, or equivalent supervisory position while holding a license as master, mate, operator of uninspected towing vessels, or operator of uninspected passenger vessels. Six months of the required service as master, mate, or equivalent supervisory position must have been on vessels of over 100 gross tons; or,

(b) Three years total service in the deck department on ocean or near coastal steam or motor, sail, or auxiliary sail vessels of over 200 gross tons. Six months of the required service must have been as able seaman.

[CGD 81-059, 54 FR 138, Jan. 4, 1989]

§ 10.416 Service requirements for mate of near coastal steam or motor vessels of not more than 1600 gross tons.

The minimum service required to qualify an applicant for a license as mate of near coastal steam or motor vessels of not more than 1600 gross tons is two years total service in the deck department of ocean or near coastal
§ 10.418  Service requirements for master of ocean or near coastal steam or motor vessels of not more than 500 gross tons.

The minimum service required to qualify an applicant for a license as master of ocean or near coastal steam or motor vessels of not more than 500 gross tons is:

(a) Three years total service on ocean or near coastal waters. Service on Great Lakes and inland waters may substitute for up to 18 months of the required service. Two years of the required service must have been as a master, mate, or equivalent supervisory position while holding a license as master, mate, or operator of uninspected passenger vessels. One year of the required service as master, mate, or equivalent supervisory position must have been on vessels of over 50 gross tons.

(b) An applicant holding a license as operator of uninspected towing vessels authorizing service on ocean or near coastal waters is eligible for this license after six months of service as operator of uninspected towing vessels on ocean or near coastal waters and completion of a limited examination. This requires three and one-half years of service. Two years of this service must have been served while holding a license as operator, second-class operator, or mate.

[CGD 81-059, 54 FR 138, J an. 4, 1989]

§ 10.420  Service requirements for mate of ocean steam or motor vessels of not more than 500 gross tons.

The minimum service required to qualify an applicant for a license as mate of ocean steam and motor vessels of not more than 500 gross tons is two years total service in the deck department of ocean or near coastal steam or motor, sail, or auxiliary sail vessels. Service on Great Lakes and inland waters may substitute for up to one year of the required service. One year of the required service must have been as a master, mate, or equivalent supervisory position while holding a license as master, mate, operator of uninspected towing vessels, or operator of uninspected passenger vessels. Six months of the required service as master, mate, or equivalent supervisory position must have been on vessels of over 50 gross tons.

[CGD 81-059, 54 FR 138, J an. 4, 1989]
next higher figure when an intermediate tonnage is calculated.

(b) The tonnage limitation on these licenses may be raised upon completion of:

1. At least 45 days of additional service on deck on a vessel of a higher tonnage for a tonnage increase on a mate's license; or,

2. At least 90 days of additional service on deck on a vessel of a higher tonnage for a tonnage increase on a master's license; or,

3. Additional service, which, when combined with all previously accumulated service, will qualify the applicant for a higher tonnage license under the basic formula; or,

4. Six months additional service in the deck department on vessels within the highest tonnage increment on the license. In this case, the tonnage limitation may be raised one increment.

(c) When the service is obtained on vessels upon which licensed personnel are not required, the OCMI must be satisfied that the nature of this qualifying service (i.e., size of vessel, route, equipment, etc.) is a reasonable equivalent to the duties performed on vessels which are required to engage licensed individuals.

d) Service gained in the engineroom on vessels of not more than 200 gross tons may be creditable for up to 25 percent of the deck service requirements for mate.

e) When the qualifying service is obtained upon vessels of five gross tons or less, the license will be limited to vessels of not more than 25 gross tons.

[CGD 81±059, 52 FR 38623, Oct. 16, 1987, as amended by CGD 81±059, 54 FR 139, Jan. 4, 1989]

§ 10.426 Service requirements for master of near coastal steam or motor vessels of not more than 200 gross tons.

(a) The minimum service required to qualify an applicant for a license as master of near coastal steam or motor vessels of not more than 200 gross tons is:

1. Two years total service as a licensed operator or second-class operator of ocean or near coastal uninspected towing vessels. Completion of a limited examination is also required.

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of 12 months of service on sail or auxiliary sail vessels. The required 12 months of service may have been obtained prior to issuance of the master's license.

(c) In addition to any required examination, the applicant must comply with the requirements listed in § 10.401(g) of this subpart.

[CGD 81±059, 54 FR 139, Jan. 4, 1989]

§ 10.424 Service requirements for master of ocean steam or motor vessels of not more than 200 gross tons.

(a) The minimum service required to qualify an applicant for a license as master of ocean steam or motor vessels of not more than 200 gross tons is:

1. Three years total service on ocean or near coastal waters. Service on Great Lakes and inland waters may substitute for up to 18 months of the required service. Two years of the required service must have been as master, mate, or equivalent supervisory position while holding a license as master, as mate, or as operator of uninspected passenger vessels; or,

2. Two years total service as a licensed operator or second-class operator of ocean or near coastal uninspected towing vessels. Completion of a limited examination is also required.

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of 12 months of service on sail or auxiliary sail vessels. The required 12 months of service may have been obtained prior to issuance of the master's license.

[CGD 81±059, 54 FR 139, Jan. 4, 1989]
§ 10.427 Service requirements for mate of near coastal steam or motor vessels of not more than 200 gross tons.

(a) The minimum service required to qualify an applicant for a license as mate of near coastal steam or motor vessels of not more than 200 gross tons is:

(1) Twelve months total service in the deck department of ocean or near coastal steam or motor, sail, or auxiliary sail vessels. Service on Great Lakes and inland waters may substitute for up to six months of the required service; or,

(2) Three months of service in the deck department of steam or motor vessels operating on ocean, near coastal, Great Lakes or inland waters while holding a license as master of inland steam or motor, sail or auxiliary sail vessels of not more than 200 gross tons.

(b) The holder of a license as operator of uninspected passenger vessels with a near coastal route endorsement may obtain this license by successfully completing an examination on rules and regulations for small passenger vessels.

(c) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of six months of service on sail or auxiliary sail vessels. The required 12 months of service may have been obtained prior to issuance of the license.


§ 10.428 Service requirements for master of near coastal steam or motor vessels of not more than 100 gross tons.

(a) The minimum service required to qualify an applicant for a license as master of near coastal steam or motor vessels of not more than 100 gross tons is two years total service in the deck department of steam or motor, sail, or auxiliary sail vessels on ocean or near coastal waters. Service on Great Lakes and inland waters may substitute for up to one year of the required service.

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of 12 months of service on sail or auxiliary sail vessels. The required 12 months of service may have been obtained prior to issuance of the license.

[CGD 81-059, 54 FR 139, Jan. 4, 1989]

§ 10.429 Service requirements for limited master of near coastal steam or motor vessels of not more than 100 gross tons.

(a) Limited masters' licenses for near coastal vessels of not more than 100 gross tons may be issued to applicants to be employed by organizations such as yacht clubs, marinas, formal camps and educational institutions. A license issued under this section is limited to the specific activity and the locality of the yacht club, marina or camp. In order to obtain this restricted license, an applicant must:

(1) Have four months of service on any waters in the operation of the type of vessel for which the license is requested;

(2) Satisfactorily complete a safe boating course approved by the National Association of State Boating Law Administrators, or a safe boating course conducted by the U.S. Power Squadron or the American Red Cross, or a Coast Guard approved course. This course must have been completed within five years before the date of application; and,

(3) Pass a limited examination appropriate for the activity to be conducted and the route authorized.

(b) The first aid and cardiopulmonary resuscitation (CPR) course certificates required by § 10.201(h) of this part will only be required when, in the opinion of the OCMI, the geographic area over which service is authorized precludes obtaining medical services within a reasonable time.

(c) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of four months of service on sail or auxiliary sail vessels. The required four months of service may have been...
§ 10.430 Licenses for the Great Lakes and inland waters.
Any license issued for service on the Great Lakes and inland waters is valid on all of the inland waters of the United States as defined in this part. Any license issued for service on inland waters is valid for the inland waters of the United States, excluding the Great Lakes. Licenses with either a Great Lakes and inland or an inland route are valid for service on the sheltered waters of the Inside Passage between Puget Sound and Cape Spencer, Alaska. As these licenses authorize service on waters seaward of the International Regulations for Preventing Collisions at Sea (COLREGS) demarcation line as defined in 33 CFR part 80, the applicant must complete an examination on the COLREGS or the license must be endorsed with an exclusion from such waters.

§ 10.431 Tonnage requirements for Great Lakes and inland licenses for vessels of over 1600 gross tons.
(a) All required experience for Great Lakes and inland unlimited licenses must be obtained on vessels of over 200 gross tons. At least one-half of the required experience must be obtained on vessels of 1600 gross tons or over.
(b) Tonnage limitations may be imposed on these licenses in accordance with §10.402 (b) and (c).

§ 10.433 Service requirements for master of Great Lakes and inland steam or motor vessels of any gross tons.
The minimum service required to qualify an applicant for license as master of Great Lakes and inland steam or motor vessels of any gross tons is:
(a) One year of service as mate or first class pilot while acting in the capacity of first mate of Great Lakes steam or motor vessels of more than 1600 gross tons; or,
(b) Two years of service as master of inland (excluding the Great Lakes) steam or motor vessels of more than 1600 gross tons; or,
(c) One year of service upon Great Lakes waters while holding a license as mate or first class pilot of Great Lakes and inland steam or motor vessels of more than 1600 gross tons. A minimum of six months of this service must have been in the capacity of first mate. Service as second mate is accepted for the remainder on a two-for-one basis to a maximum of six months (12 months of service equals six months of creditable service).

§ 10.435 Service requirements for master of inland steam or motor vessels of any gross tons.
The minimum service required to qualify an applicant for license as master of inland (excluding the Great Lakes) steam or motor vessels of any gross tons is:
(a) One year of service as first class pilot (of other than canal and small lakes routes) or mate of Great Lakes or inland steam or motor vessels of more than 1,600 gross tons; or,
(b) Two years of service as wheelsman or quartermaster while holding a mate/first class pilot license.

§ 10.437 Service requirements for mate of Great Lakes and inland steam or motor vessels of any gross tons.
(a) The minimum service required to qualify an applicant for license as mate of Great Lakes and inland steam or motor vessels of any gross tons is:
(1) Three years of service in the deck department of steam or motor vessels, at least three months of which must have been on vessels on inland waters and at least six months of which must have been as able seaman, inland mate, boatswain, wheelsman, quartermaster, or equivalent position;
(2) Graduation from the deck class of the Great Lakes Maritime Academy; or,
(3) While holding a license as master of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons, one year service as master on vessels of over 200 gross tons.
(b) Service gained in the engine department on vessels of appropriate tonnage may be creditable for up to six months of the service requirements under paragraph (a)(1) of this section.
§ 10.442 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons.

The minimum service required to qualify an applicant for a license as master of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons is:

(a) Three years total service on vessels. Eighteen months of the required service must have been on vessels of over 100 gross tons. One year of the required service must have been as a master, mate, or equivalent supervisory position on vessels of over 100 gross tons while holding a license as master, as mate, or as operator of uninspected towing vessels; or,

(b) Six months of service as operator on vessels of over 100 gross tons while holding a license as operator of uninspected towing vessels.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]

§ 10.444 Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons.

The minimum service required to qualify an applicant for license as mate of Great Lakes and inland steam or motor vessels of not more than 1600 gross tons is:

(a) Two years total service in the deck department of steam or motor, sail, or auxiliary sail vessels. One year of the required service must have been on vessels of over 100 gross tons. Six months of the required service must have been as able seaman, boatswain, quartermaster, or equivalent position on vessels of over 100 gross tons while holding a certificate as able seaman; or,

(b) One year total service as master of steam or motor, sail, or auxiliary sail vessels, or operator of uninspected passenger vessels, of over 50 gross tons while holding a license as master steam or motor, sail, or auxiliary sail vessels. One year of the required service must have been on vessels of over 50 gross tons or operator of uninspected passenger vessels; or,

(c) Six months total service as second-class operator of uninspected towing vessels on vessels of over 100 gross tons.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]

§ 10.446 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 500 gross tons.

The minimum service required to qualify an applicant for license as master of Great Lakes and inland steam or motor vessels of not more than 500 gross tons is:

(a) Three years total service on vessels. One year of the required service must have been as a master, mate, or equivalent supervisory position on vessels of over 50 gross tons while holding a license as master, as mate, or as operator of uninspected towing vessels; or,

(b) Six months of service as operator on vessels of over 100 gross tons while holding a license as operator of uninspected towing vessels.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]

§ 10.448 Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 500 gross tons.

The minimum service required to qualify an applicant for a license as mate of Great Lakes and inland steam or motor vessels of not more than 500 gross tons is two years total service in the deck department of steam or motor, sail, or auxiliary sail vessels. One year of the required service must have been on vessels of over 100 gross tons. Three months of the required service must have been as able seaman, boatswain, quartermaster, or equivalent position on vessels of over 50 gross tons while holding a certificate as able seaman.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]
§ 10.450  Tonnage limitations and qualifying requirements for licenses as master or mate of Great Lakes and inland vessels of not more than 200 gross tons.

(a) Except as noted in subparagraph (d), all licenses issued for master or mate of vessels of not more than 200 gross tons are issued in 50 ton increments based on the applicants' qualifying experience in accordance with the provisions of §10.422. See the tonnage and qualifying service discussion in §10.422 for further clarification.

(b) Service gained in the engineroom on vessels of not more than 200 gross tons may be creditable for up to 25 percent of the deck service requirements for mate.

(c) When the service is obtained on vessels upon which licensed personnel are not required, the OCMI must be satisfied that the nature of this qualifying service (i.e., size of vessel, route, equipment, etc.) is a reasonable equivalent to the duties performed on vessels which are required to engage licensed individuals.

(d) When the qualifying service is obtained on vessels of five gross tons or less, the license will be limited to vessels of not more than 25 gross tons.

§ 10.452  Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 200 gross tons.

(a) The minimum service required to qualify an applicant for a license as master of Great Lakes and inland steam or motor vessels of not more than 200 gross tons is one year of service on vessels. Six months of the required service must have been as master, mate, or equivalent supervisory position while holding a license as master, mate, operator or second-class operator of uninspected towing vessels, or operator of uninspected passenger vessels. To obtain authority to serve on the Great Lakes, three months of the required service must have been on Great Lakes waters, otherwise the license will be limited to the inland waters of the United States (excluding the Great Lakes).

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must have six months of service on sail or auxiliary sail vessels. The required six months of service may have been obtained prior to issuance of the master's license.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]

§ 10.454  Service requirements for mate of Great Lakes and inland steam or motor vessels of not more than 200 gross tons.

(a) The minimum service required to qualify an applicant for a license as mate of Great Lakes and inland steam or motor vessels of not more than 200 gross tons is six months of service in the deck department of steam or motor, sail, or auxiliary sail vessels. To obtain authority to serve on the Great Lakes, three months of the required service must have been on Great Lakes waters, otherwise the license will be limited to the inland waters of the United States (excluding the Great Lakes).

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of three months of service on sail or auxiliary sail vessels.

(c) A license as master of steam or motor vessels may be endorsed as mate of sail or auxiliary sail vessels upon presentation of three months service on sail or auxiliary sail vessels.

(d) The holder of a license as operator of inland uninspected passenger vessels may obtain this license by successfully completing an examination on rules and regulations for small passenger vessels. To obtain authority to serve on the Great Lakes, three months of the required service must have been on Great Lakes waters, otherwise the license will be limited to the inland waters of the United States (excluding the Great Lakes).

(e) In order to obtain a tonnage endorsement of over 100 gross tons, the applicant must complete the additional examination topics indicated in subpart I of this part.

§ 10.455 Service requirements for master of Great Lakes and inland steam or motor vessels of not more than 100 gross tons.

(a) The minimum service required to qualify an applicant for a license as master of Great Lakes and inland steam or motor vessels of not more than 100 gross tons is one year of total service in the deck department of steam or motor, sail, or auxiliary sail vessels. To obtain authority to serve on the Great Lakes, three months of the required service must have been on Great Lakes waters, otherwise the license will be limited to the inland waters of the United States (excluding the Great Lakes).

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of six months of service on sail or auxiliary sail vessels. The required six months of service may have been obtained prior to issuance of the license.

[CGD 81-059, 54 FR 140, Jan. 4, 1989]

§ 10.456 Service requirements for limited master of Great Lakes and inland steam or motor vessels of not more than 100 gross tons.

Limited masters’ licenses for vessels of not more than 100 gross tons upon Great Lakes and inland waters may be issued to applicants to be employed by organizations such as formal camps, educational institutions, yacht clubs, and marinas with reduced service requirements. A license issued under this paragraph is limited to the specific activity and the locality of the camp, yacht club or marina. In order to obtain this restricted license, an applicant must:

(a) Have four months of service in the operation of the type of vessel for which the license is requested; and,

(b) Satisfactorily complete a safe boating course approved by the National Association of State Boating Law Administrators, a public education course conducted by the U.S. Power Squadron or the American Red Cross, or a Coast Guard approved course. This course must have been completed within five years before the date of application; and,

(c) Pass a limited examination appropriate for the activity to be conducted and the route authorized.

(d) The first aid and cardiopulmonary resuscitation (CPR) course certificates required by § 10.201(h) of this part will only be required when, in the opinion of the OCMI, the geographic area over which service is authorized precludes obtaining medical services within a reasonable time.


§ 10.457 Service requirements for master of inland steam or motor vessels of not more than 100 gross tons.

(a) An applicant for a license as master of inland steam or motor vessels of not more than 100 gross tons must present one year of service on any waters. In order to raise the tonnage limitation over 100 gross tons, the examination topics indicated in subpart I of this part must be completed in addition to satisfying the experience requirements of § 10.452(a).

(b) In order to obtain an endorsement on this license for sail or auxiliary sail vessels, the applicant must submit evidence of six months of service on sail or auxiliary sail vessels. The required six months of service may have been obtained prior to issuance of the license.


§ 10.459 Service requirements for master or mate of rivers.

(a) An applicant for a license as master of river steam or motor vessels of any gross tons must meet the same service requirements as master of inland steam or motor vessels of any gross tons.

(b) An applicant for a license as master or mate of river steam or motor vessels, with a limitation of 25-1600 gross tons, must meet the same service requirements as those required by this subpart for the corresponding tonnage Great Lakes and inland steam or motor license. Service on the Great Lakes is not, however, required.

[CGD 81-059, 54 FR 141, Jan. 4, 1989]
§ 10.462 Licenses for master or mate of uninspected fishing industry vessels.

(a) This section applies to licenses for masters and mates of all vessels, however propelled, navigating the high seas, which are documented to engage in the fishing industry, with the exception of:
   (1) Wooden ships of primitive build;
   (2) Unrigged vessels; and,
   (3) Vessels of less than 200 gross tons.

(b) Licenses as master or mate of uninspected fishing industry vessels are issued for either ocean or near coastal routes, depending on the examination completed. To qualify for an uninspected fishing industry vessel license, the applicant must satisfy the training and examination requirements of §10.401(g) of this subpart.

(c) An applicant for a license as master of uninspected fishing industry vessels must have four years of total service on ocean or near coastal routes. Service on Great Lakes or inland waters may substitute for up to two years of the required service. One year of the required service must have been as licensed master, as unlicensed master, or as licensed mate or equivalent supervisory position while holding a license as master, mate, operator of uninspected towing vessels, or operator of uninspected passenger vessels.
   (1) To qualify for a license of not more than 500 gross tons, at least two years of the required service, including the one year as master, mate or equivalent, must have been on vessels of over 50 gross tons.
   (2) To qualify for a license of not more than 1600 gross tons, at least two years of the required service, including the one year as master, mate or equivalent, must have been on vessels of over 100 gross tons.
   (3) To qualify for a license of over 1600 gross tons, but not more than 5000 gross tons, the vessel tonnage upon which the four years of required service was obtained will be used to compute the tonnage. The license is limited to the maximum tonnage on which at least 25 percent of the required service was obtained, or 150 percent of the maximum tonnage on which at least 50 percent of the service was obtained, whichever is higher. Limitations are in multiples of 1000 gross tons, using the next higher figure when an intermediate tonnage is calculated. A license as master of uninspected fishing industry vessels authorizing service on vessels over 1600 gross tons also requires one year as master, mate or equivalent on vessels over 100 gross tons.
   (4) The tonnage limitation on this license may be raised using one of the following methods, but cannot exceed 5000 gross tons. Limitations are in multiples of 1000 gross tons, using the next higher figure when an intermediate tonnage is calculated.
      (i) Three months service as master on a vessel results in a limitation in that capacity equal to the tonnage of that vessel rounded up to the next multiple of 1000 gross tons;
      (ii) Six months service as master on a vessel results in a limitation in that capacity equal to 150% of the tonnage of that vessel;
      (iii) Six months service as master on vessels over 1600 gross tons results in raising the limitation to 5000 gross tons;
      (iv) Six months service as mate on vessels over 1600 gross tons results in raising the limitation for master to the tonnage on which at least 50 percent of the service was obtained;
      (v) Two years service as a deckhand on a vessel while holding a license as master results in a limitation in the master’s license equal to 150% of the tonnage of that vessel up to 5000 gross tons; or,
      (vi) One year of service as deckhand on a vessel while holding a license as master results in a limitation on the master’s license equal to the tonnage of that vessel.

(d) An applicant for a license as mate of uninspected fishing industry vessels must have three years of total service on ocean or near coastal routes. Service on Great Lakes or inland waters may substitute for up to 18 months of the required service.
   (1) To qualify for a license of not more than 500 gross tons, at least one year of the required service must have been on vessels of over 50 gross tons.
   (2) To qualify for a license of not more than 1600 gross tons, at least one
(3) To qualify for a license of over 1600 gross tons, but not more than 5000 gross tons, the vessel tonnage upon which the three years of required service was obtained will be used to compute the tonnage. The license is limited to the maximum tonnage on which at least 25 percent of the required service was obtained, or 150 percent of the maximum tonnage on which at least 50 percent of the service was obtained, whichever is higher. Limitations are in multiples of 1000 gross tons, using the next higher figure when an intermediate tonnage is calculated.

(4) The tonnage limitation on this license may be raised using one of the following methods, but cannot exceed 5000 gross tons. Limitations are in multiples of 1000 gross tons, using the next higher figure when an intermediate tonnage is calculated.

(i) Three months service as mate on a vessel results in a limitation in that capacity equal to the tonnage of that vessel rounded up to the next multiple of 1000 gross tons;

(ii) Six months service as mate on a vessel results in a limitation in that capacity equal to 150% of the tonnage of that vessel;

(iii) Six months service as mate on vessels over 1600 gross tons results in raising the limitation to 5000 gross tons;

(iv) One year of service as deckhand on vessels over 1600 gross tons while holding a license as mate, results in raising the limitation on the mate's license to 5000 gross tons;

(v) Two years service as a deckhand on a vessel while holding a license as mate results in a limitation on the mate's license equal to 150% of the tonnage of that vessel up to 5000 gross tons; or,

(vi) One year of service as deckhand on a vessel while holding a license as mate results in a limitation on the mate's license equal to the tonnage of that vessel.

(e) Applicants may request an oral examination on the subjects listed in subpart I of this part.

three months of service in each par-

ticular geographic area for which en-
dorsement for the license is requested; or,

(2) At least six months of service on
towing vessels while holding a mer-
chant mariner’s document endorsed as
able seaman unlimited, able seaman lim-
ited, or able seaman special. The service
must include three months in each par-
ticular geographic area for which an
endorsement is requested, and either
two months of training or duty in the
wheelhouse or one month training or
duty in the wheelhouse combined with
successful completion of a towboat op-
erator course of training approved by
the Commanding Officer, National
Maritime Center under subpart C.

(e) In order to obtain an operator or
second-class operator license for ocean
(domestic trade) waters, whether an
original, raise in grade, or increase in
scope, the applicant must complete the
following training and examination re-
quirements:

(1) Approved firefighting course;
(2) Approved radar observer course; and,
(3) Qualification as able seaman un-
limited, able seaman limited, able sea-
man special, or able seaman offshore
supply vessels.

(f) The examination for a license as
operator of uninspected towing vessels
endorsed for a local limited area is
modified by deleting inappropriate
questions.

(g) A person holding a license as sec-
ond-class operator of uninspected tow-
ing vessels who is 21 years old and pos-
sesses the service required in para-
graph (c) of this section may be issued
a license as operator without further
examination.

(h) A person holding a license as op-
erator of uninspected towing vessels
may have that license endorsed as sec-
ond-class operator for a geographic
area on which he or she has no oper-
ating experience, upon passing an ex-
amination for that area. Upon comple-
tion of three months of experience in
that geographic area, the second-class
restriction may be removed.

(i) An applicant for a license as oper-
ator or second-class operator of un-
inspected towing vessels who intends
to serve only in the vicinity of Puerto
Rico, and who speaks Spanish only,
may be issued a license restricted to
the navigable waters of the United
States in the vicinity of Puerto Rico.

[CGD 81-059, 52 FR 38623, Oct. 16, 1987, as
amended by CGD 81-059, 54 FR 342, Jan. 4,
1989; CGD 95-072, 60 FR 50460, Sept. 29, 1995;

§ 10.466 Licenses for operators

of uninspected passenger vessels.

(a) This section applies to all appli-
cants for the license to operate an
uninspected vessel of less than 100
gross tons, equipped with propulsion
machinery of any type, carrying six or
less passengers.

(b) Operator of uninspected passenger
vessels licenses issued for ocean waters
will be limited to near coastal waters
not more than 100 miles offshore. Li-
censes issued for inland waters will in-
clude all inland waters, except Great
Lakes. Licenses may be issued for a
particular local area under paragraph
(f) of this section.

(c) For a license as operator of an
uninspected passenger vessel with a
near coastal endorsement, an applicant
must have a minimum of 12 months ex-
perience in the operation of vessels, in-
cluding at least three months service
on vessels operating on ocean or near
coastal waters.

(d) For a license as operator of an
uninspected passenger vessel with a
Great Lakes and inland waters en-
dorsement, an applicant must have 12
months service on Great Lakes or in-
land waters, including at least three
months service operating vessels on
Great Lakes waters.

(e) For a license as operator of an
uninspected passenger vessel with an
inland endorsement, an applicant must
have a minimum of 12 months experi-
ence in the operation of vessels.

(f) An operator of uninspected pas-
senger vessels license, limited on its
face to undocumented vessels, may be
issued to a person who is not a citizen
of the United States.

(g) Limited operator of uninspected
passenger vessel licenses may be issued
to applicants to be employed by organi-
zations such as formal camps, yacht
clubs, educational institutions, and
marinas. A license issued under this
§ 10.468 Licenses for mobile offshore drilling units.

Licenses for service on mobile offshore drilling units (MODUs) authorize service on units of any gross tons upon ocean waters while on location or while underway, as restricted on the license, except when moving independently under their own power.

[CGD 81-059a, 55 FR 14799, Apr. 18, 1990]

§ 10.470 Licenses for offshore installation manager.

(a) Licenses as offshore installation manager (OIM) are endorsed as:

(1) OIM Unrestricted;
(2) OIM Surface Units on Location;
(3) OIM Surface Units Underway;
(4) OIM Bottom Bearing Units on Location;
(5) OIM Bottom Bearing Units Underway.

(b) To qualify for a license or endorsement as OIM Unrestricted, an applicant must:

(1) Present evidence of the following experience:

(i) Four years of employment assigned to MODUs including at least one year of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator or equivalent supervisory position on MODUs, with a minimum of 14 days of that supervisory service on surface units; or

(ii) A degree from a program in engineering or engineering technology which is accredited by the Accreditation Board for Engineering and Technology (ABET), Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least 168 days of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator, or equivalent supervisory position on MODUs, with a minimum of 14 days of that supervisory service on surface units;

(2) Present evidence of training course completion as follows:

(i) A certificate from a Coast Guard approved stability course approved for an OIM Unrestricted license or endorsement;

(ii) A certificate from a Coast Guard approved survival suit and survival craft training course;

(iii) A certificate from a U.S. Minerals Management Service approved blowout prevention and well control training program for the driller, toolpusher, or operator representative position;

(iv) A certificate from a firefighting training course as required by §10.205(g) of this part; and

(3) Provide a recommendation signed by a senior company official which:

(i) Provides a description of the applicant’s experience and qualifications;
(ii) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, two rig moves each of surface units and of bottom bearing units; and

(iii) Certifies that one of the rig moves required under paragraph (b)(3)(ii) of this section was completed within one year preceding date of application.

(c) An applicant for an endorsement as OIM Unrestricted who holds an unlimited license as master or chief mate must satisfy the requirements in paragraphs (b)(2) and (b)(3) of this section and have at least 84 days of service on surface units and at least 28 days of service on bottom bearing units.

(d) To qualify for a license or endorsement as OIM Surface Units on Location, and applicant must:

(1) Present evidence of the following experience:

(i) Four years of employment assigned to MODUs including at least one year of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator or equivalent supervisory position on MODUs, with a minimum of 14 days of that supervisory service on surface units; or

(ii) A degree from a program in engineering or engineering technology which is accredited by the Accreditation Board for Engineering and Technology (ABET). Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least 168 days of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator or equivalent supervisory position on MODUs, with a minimum of 14 days of that supervisory service on surface units; and

(ii) A certificate from a Coast Guard approved survival suit and survival craft training course;

(iii) A certificate from a U.S. Minerals Management Service approved blowout prevention and well control training program for the driller, toolpusher, or operator representative position; and

(iv) A certificate from a firefighting training course as required by §10.205(g) of this part.

(e) An applicant for an endorsement as OIM Surface Units on Location who holds an unlimited license as master or chief mate must satisfy the requirements of paragraph (d)(2) of this section and have at least 84 days of service on surface units.

(f) To qualify for a license as OIM Surface Units Underway, an applicant must:

(1) Provide the following:

(i) Evidence of the experience described in paragraph (d)(1) of this section and a recommendation signed by a senior company official which:

(A) Provides a description of the applicant's experience and qualifications;

(B) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, three rig moves of surface units; and

(C) Certifies that one of the rig moves required under paragraph (f)(1)(i)(B) of this section was completed within one year preceding date of application; or

(ii) A recommendation signed by a senior company official which:

(A) Provides a description of the applicant's experience and company qualifications program completed;

(B) Certifies that the applicant has witnessed ten rig moves either as an observer in training or as a rig mover under supervision;

(C) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, five rig moves of surface units; and

(D) Certifies that one of the rig moves required under paragraph (f)(1)(i)(C) of this section was completed within one year preceding date of application; and
§ 10.470

(2) Present evidence of training course completion as follows:
   (i) A certificate from a Coast Guard approved stability course approved for an OIM Surface Units license or endorsement;
   (ii) A certificate from a Coast Guard approved survival suit and survival craft training course; and
   (iii) A certificate from a firefighting training course as required by §10.205(g) of this part.

(g) An applicant for endorsement as OIM Surface Units Underway who holds an unlimited license as master or chief mate must satisfy the requirements in paragraph (f)(2) of this section and provide a company recommendation signed by a senior company official which:
   (1) Provides a description of the applicant's experience and qualifications;
   (2) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, three rig moves on surface units; and
   (3) Certifies that one of the rig moves required under paragraph (g)(2) of this section was completed within one year preceding date of application.

(h) To qualify for a license or endorsement as OIM Bottom Bearing Units on Location, an applicant must:
   (1) Present evidence of the following experience:
      (i) Four years of employment assigned to MODUs including at least one year of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator or equivalent supervisory position on MODUs; or
      (ii) A degree from a program in engineering or engineering technology which is accredited by the Accreditation Board for Engineering and Technology (ABET). Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least 168 days of service as driller, assistant driller, toolpusher, assistant toolpusher, barge supervisor, mechanical supervisor, electrician, crane operator, ballast control operator or equivalent supervisory position on MODUs; and
   (2) Present evidence of training course completion as follows:
      (i) A certificate from a Coast Guard approved survival suit and survival craft training course;
      (ii) A certificate from a U.S. Minerals Management Service approved blowout prevention and well control training program for the driller, toolpusher, or operator representative position; and
      (iii) A certificate from a firefighting training course as required by §10.205(g) of this part.

(i) An applicant for an endorsement as OIM Bottom Bearing Units on Location who holds an unlimited license as master or chief mate must satisfy paragraph (h)(2) of this section and have at least 28 days of service on bottom bearing units.

(j) To qualify for a license or endorsement as OIM Bottom Bearing Units Underway, an applicant must:
   (1) Provide the following:
      (i) Evidence of the experience described in paragraph (h)(1) of this section with a recommendation signed by a senior company official which:
         (A) Provides a description of the applicant's experience and qualifications;
         (B) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, three rig moves of bottom bearing units; and
         (C) Certifies that one of the rig moves required under paragraph (j)(1)(i)(B) of this section was completed within one year preceding date of application; or
      (ii) A recommendation signed by a senior company official which:
         (A) Provides a description of the applicant's experience and company qualifications program completed;
         (B) Certifies that the applicant has witnessed ten rig moves either as an observer in training or as a rig mover under supervision;
         (C) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, five rig moves of bottom bearing units; and
(D) Certifies that one of the rig moves required under paragraph (j)(1)(ii)(C) of this section was completed within one year preceding date of application; and

(2) Present evidence of training course completion as follows:
   (i) A certificate from a Coast Guard approved stability course approved for OIM Bottom Bearing Units license or endorsement;
   (ii) A certificate from a Coast Guard approved survival suit and survival craft training course; and
   (iii) A certificate from a firefighting training course as required by §10.205(g) of this part;

(k) An applicant for endorsement as OIM Bottom Bearing Units Underway who holds an unlimited license as master or chief mate must satisfy the requirements in paragraph (j)(2) of this section and provide a company recommendation signed by a senior company official which:
   (1) Provides a description of the applicant’s experience and qualifications;
   (2) Certifies that the individual has successfully directed, while under the supervision of an experienced rig mover, three rig moves of bottom bearing units; and
   (3) Certifies that one of the rig moves required under paragraph (k)(2) of this section was completed within one year preceding date of application.

§ 10.474 License for ballast control operator.

(a) To qualify for a license or endorsement as ballast control operator (BCO), an applicant must:
   (1) Present evidence of the following experience:
      (i) Three years of employment assigned to MODUs including at least 168 days of service as driller, assistant driller, toolpusher, assistant toolpusher, mechanic, electrician, crane operator, subsea specialist, ballast control operator or equivalent supervisory position on MODUs. At least 84 days of that service shall have been as a ballast control operator or barge supervisor trainee.
      (ii) A degree from a program in engineering or engineering technology which is accredited by the Accreditation Board for Engineering and Technology (ABET). Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least 168 days of service as driller, assistant driller, toolpusher, assistant toolpusher, mechanic, electrician, crane operator, subsea specialist, ballast control operator or equivalent supervisory position on MODUs. At least 84 days of that service shall have been as a ballast control operator or barge supervisor trainee; and
   (2) Present evidence of training course completion as follows:
      (i) A certificate from a Coast Guard approved stability course approved for a barge supervisor license or endorsement;
      (ii) A certificate from a Coast Guard approved survival suit and survival craft training course; and
      (iii) A certificate from a firefighting training course as required by §10.205(g) of this part.

(b) An applicant for endorsement as B5 who holds an unlimited license as master or mate must satisfy the requirements in paragraph (a)(2) of this section and have at least 84 days of service as ballast control operator or barge supervisor trainee.

§ 10.472 License for barge supervisor.

(a) To qualify for a license or endorsement as barge supervisor (BS), an applicant must:
   (1) Present evidence of the following experience:
      (i) One year of employment assigned to MODUs including at least 28 days of service as a trainee under the supervision of a licensed ballast control operator; or
      (ii) A degree from a program in engineering or engineering technology

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which is accredited by the Accreditation Board for Engineering and Technology (ABET). Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least 28 days of service as a trainee under the supervision of a licensed ballast control operator; and

(2) Present evidence of training course completion as follows:

(i) A certificate from a Coast Guard approved stability course approved for a barge supervisor or ballast control operator license or endorsement;

(ii) A certificate from a Coast Guard approved survival suit and survival craft training course; and

(iii) A certificate from a firefighting training course as required by §10.205(g) of this part.

(b) An applicant for an endorsement as BCO who holds an unlimited license as master, mate, chief engineer, or assistant engineer must satisfy the requirements in paragraph (a)(2) of this section and have at least 28 days of service as a trainee under the supervision of a licensed ballast control operator.


§ 10.476 Acknowledgments of service and temporary licenses for mobile offshore drilling units.

(a) Prior to January 1, 1991, unlicensed individuals who served in positions on MODUs equivalent to OIM, B5, or BCO may make application for a Coast Guard acknowledgment of service or a temporary license, both of which authorize a continuation of service in that position. To be eligible, these individuals must have served in that position between July 1, 1987 and June 30, 1990, and meet the following requirements:

(1) Coast Guard acknowledgment of service.

(1) To obtain a Coast Guard acknowledgment of service, the applicant must provide a letter from a senior company official of the company worked for. This letter must provide:

(A) Name of vessel(s) served on;

(B) MODU license which the individual's position is equivalent to; and

(C) Period of service.

(2) Temporary license.

(i) To obtain a temporary license, the applicant must:

(A) Provide a letter from a senior company official of the company worked for. This letter must provide:

(1) Name of vessel(s) served on;

(2) MODU license which the individual's position is equivalent to; and

(3) Period of service; and

(B) Provide evidence of 120 days of service in a position equivalent to the license endorsement sought.

(ii) A temporary license is valid for five years and is not renewable.

(b) Acknowledgments or temporary licenses obtained using the provisions of this section will restrict service authority to vessels operated by the company which has certified service.

[CGD 81-059a, 55 FR 14802, Apr. 18, 1990]

§ 10.480 Radar observer.

(a) This section contains the requirements that an applicant must meet to qualify as a radar observer. (Part 15 of this chapter specifies who must qualify as a radar observer.)

(b) If an applicant meets the requirements of this section, one of the following Radar-Observer endorsements will be added to his or her deck officer's license:

(1) Radar Observer (Unlimited).

(2) Radar Observer (Inland Waters and GIWW).

(3) Radar Observer (Rivers).

(c) Endorsement as Radar Observer (Unlimited) is valid on all waters. Endorsement as Radar Observer (Inland Waters and GIWW) is valid only for those waters other than the Great Lakes covered by the Inland Navigational Rules. Endorsement as Radar Observer (Rivers) is valid only on any river, canal, or similar body of water designated by the OCMI, but not beyond the boundary line.
(d) Except as provided by paragraphs (e) and (f) of this section, each applicant for a Radar-Observer endorsement or for renewal of an endorsement must complete the appropriate course approved by the Coast Guard, receive the appropriate certificate of training, and present the certificate to the OCMI.

(e) An applicant who possesses a Radar-Observer endorsement, resides in a remote geographic area, and can substantiate to the satisfaction of the OCMI that the applicant’s absence will disrupt normal movement of commerce, or that the applicant cannot attend an approved Radar-Observer renewal course, may have his or her endorsement renewed upon successful completion of an examination administered by the Coast Guard, or by a third party acceptable to the Coast Guard.

(f) Except as provided by paragraph (k) of this section, a Radar-Observer endorsement issued under this section is valid for 5 years after the month of issuance of the certificate of training from a course approved by the Coast Guard. It is not terminated by the issuance of a new license during these 5 years.

(g) The month and year of the expiration of the Radar-Observer endorsement are printed on the license.

(h) A Radar-Observer endorsement may be renewed at any time.

(i) An applicant for renewal of a license that does not need a Radar-Observer endorsement may renew the license without meeting the requirements for the endorsement.

(j) An applicant seeking to raise the grade of a license or increase its scope, where the increased grade or scope requires a Radar-Observer certificate, may use an expired certificate to fulfill that requirement.

(k) The renewal date of a Radar-Observer endorsement may be extended beyond the normal 5-year duration to coincide with the renewal date of the license to which it pertains. This extension may not exceed 2 years and will be necessary only once, to synchronize the two renewal dates.

[CGD 94-041, 62 FR 13305, Mar. 11, 1997]

§ 10.482 Assistance towing.

(a) This section contains the requirements to qualify for an endorsement authorizing an individual to engage in assistance towing. The endorsement is applicable to all licenses except operator of uninspected towing vessels and master or mate licenses authorizing service on inspected vessels over 200 gross tons. Holders of these licenses are authorized to engage in assistance towing without endorsement on any vessel within the scope of the license.

(b) An applicant for an assistance towing endorsement shall pass a written examination demonstrating his or her knowledge of assistance towing safety, equipment, and procedures.

(c) An assistance towing endorsement on a license as master, mate, or operator authorizes the holder to engage in assistance towing on any vessel within the scope of the license.

(d) The period of validity of the endorsement is the same as the license on which it is endorsed, and it may be renewed with the license.

[CGD 87-017, 53 FR 18562, May 24, 1988]

§ 10.491 Licenses for service on offshore supply vessels.

Each license for service on offshore supply vessels (OSVs) authorizes service on OSVs as defined in 46 U.S.C. 2101(19) and as interpreted under 46 U.S.C. 14104(b), subject to any restrictions placed on the license.


§ 10.493 Master (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Master (OSV), an applicant shall present evidence that he or she meets the appropriate requirements of STCW Regulation II/2.

(b) The OCMI may exempt an applicant from meeting any requirement under STCW Regulation II/2 if the OCMI determines to be inappropriate or unnecessary for service on an OSV, or that the applicant meets under the equivalency provisions of Article IX of STCW.


§ 10.495 Chief Mate (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Chief Mate (OSV), an applicant shall present evidence that he or
§ 10.497 Mate (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Mate (OSV), an applicant shall present evidence that he or she meets the appropriate requirements of STCW Regulation II/2.

(b) The OCMI may exempt an applicant from meeting any requirement under STCW Regulation II/2 that the OCMI determines to be inappropriate or unnecessary for service on an OSV, or that the applicant meets under the equivalency provisions of Article IX of STCW.


§ 10.497 Mate (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Mate (OSV), an applicant shall present evidence that he or she meets the appropriate requirements of STCW Regulation II/1.

(b) The OCMI may exempt an applicant from meeting any requirement under STCW Regulation II/1 that the OCMI determines to be inappropriate or unnecessary for service on an OSV, or that the applicant meets under the equivalency provisions of Article IX of STCW.


Subpart E—Professional Requirements for Engineer Officers’ Licenses

§ 10.501 Grade and type of engineer licenses issued.

(a) Licenses are issued in the grades of:

1. Chief engineer;
2. First assistant engineer;
3. Second assistant engineer;
4. Third assistant engineer;
5. Chief engineer (limited);
6. Assistant engineer (limited);
7. Designated duty engineer;
8. Chief engineer uninspected fishing industry vessels; and,
9. Assistant engineer uninspected fishing industry vessels.

(b) Engineer licenses issued in the grades of chief engineer (limited) and assistant engineer (limited) of steam and/or motor vessels allow the holder to serve within any horsepower limitations on vessels of any gross tons in the following manner:

1. Assistant engineer (limited—oceans) may serve on ocean waters;
2. Chief engineer (limited—near coastal) may serve on near coastal waters; and,
3. Chief engineer (limited-oceans) may serve on ocean waters.

(c) Engineer licenses issued in the grades of designated duty engineer of steam and/or motor vessels allow the holder to serve within stated horsepower limitations on vessels of not more than 500 gross tons in the following manner:

1. Designated duty engineers limited to vessels of not more than 1000 horsepower or 4000 horsepower may serve only on near coastal or inland waters;
2. Designated duty engineers with no horsepower limitations may serve on any waters.

(d) Engineer licenses are endorsed to authorize service on either steam or motor vessels or may be endorsed for both modes of propulsion.

(e) A person holding an engineer license which is restricted to near coastal waters may serve within the limitations of the license upon near coastal, Great Lakes, and inland waters.


§ 10.502 Additional requirements for engineer licenses.

(a) For all original and raise of grade of engineer licenses, at least one-third of the minimum service requirements must have been obtained on the particular mode of propulsion for which applied.

(b) If a licensed applicant desires to obtain an endorsement on an engineer license in the other propulsion mode (steam or motor), the following alternative methods, while holding a license in that grade, are acceptable:

1. Four months of service as an observer in the same licensed capacity on vessels of the other propulsion mode;
2. Four months of service as a licensed officer at a lower license level on vessels of the other propulsion mode;
3. Six months of service as oiler, watertender, or junior engineer on vessels of the other propulsion mode; or,
Coast Guard, DOT § 10.505

(4) Completion of a Coast Guard approved training course for this endorsement.

(c) Applicants for an original, raise in grade, or increase in the scope, of an engineer license, other than an increase in horsepower limitation, who have not previously done so must meet the requirements of §10.205(g) of this part.


§ 10.503 Horsepower limitations.

(a) Engineer licenses of all grades and types may be subject to horsepower limitations. Other than as provided in §10.524 for the designated duty engineer license, the horsepower limitation placed on a license is based on the applicant's qualifying experience considering the total shaft horsepower of each vessel on which the applicant has served.

(b) When an applicant for an original or raise of grade of an engineer license, other than a designated duty engineer license, has not obtained at least 50 percent of the required qualifying experience on vessels of 4,000 or more horsepower, a horsepower limitation is placed on the license based on the applicant's qualifying experience. The license is limited to the maximum horsepower on which at least 25 percent of the required experience was obtained, or 150 percent of the maximum horsepower on which at least 50 percent of the service was obtained, whichever is higher. Limitations are in multiples of 1000 horsepower, using the next higher figure when an intermediate horsepower is calculated. When the limitation as calculated equals or exceeds 10,000 horsepower, an unlimited horsepower license is issued.

(c) The following service on vessels of 4,000 horsepower or over will be considered qualifying for the raising or removing of horsepower limitations placed on engineer licenses:

(1) Six months of service in the highest grade licensed; removal of all horsepower limitations.

(2) Six months of service in any licensed capacity other than the highest grade for which licensed: Removal of all horsepower limitations for the grade in which service is performed and raise the next higher grade license to the horsepower of the vessel on which service was performed. The total cumulative service before and after issuance of the limited license may be considered in removing all horsepower limitations.

(3) Twelve months of service as oiler or junior engineer while holding a license as third assistant engineer or assistant engineer (limited-oceans): removal of all horsepower limitations on the grade in which service is performed and raise the next higher grade license to the horsepower of the vessel on which service was performed. The total cumulative service before and after issuance of the limited license may be considered in removing all horsepower limitations.

(d) Raising or removing horsepower limitations based on service required by paragraph (c) of this section may be granted without further written examination providing the Officer in Charge, Marine Inspection who issued the applicant's license, considers further examination unnecessary.

§ 10.504 Application of deck service for limited engineer licenses.

Service gained in the deck department on vessels of appropriate tonnage may substitute for up to 25 percent or 6 months, whichever is less, of the service requirement for a license as chief engineer (limited), assistant engineer (limited), or designated duty engineer.

[CGD 81-059, 54 FR 142, Jan. 4, 1989]

§ 10.505 Engineer license structure.

The following diagram illustrates the engineering license structure including cross over points. The section numbers on the diagram refer to the specific requirements applicable.
FIGURE 10.505 ENGINEER LICENSE STRUCTURE

§ 10.510 Service requirements for chief engineer of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as chief engineer of steam and/or motor vessels is:

(a) One year of service as first assistant engineer; or,

(b) One year of service while holding a license as first assistant engineer. A minimum of six months of this service must have been as first assistant engineer. Service as an assistant engineer is accepted on a two-for-one basis to a maximum of six months (12 months of service as a second or third assistant engineer equals six months of creditable service).

§ 10.512 Service requirements for first assistant engineer of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as first assistant engineer of steam and/or motor vessels is one year of service as an assistant engineer, while holding a license as second assistant engineer.

§ 10.514 Service requirements for second assistant engineer of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as second assistant engineer of steam and/or motor vessels is:

(a) One year of service as an assistant engineer, while holding a license as third assistant engineer; or,

(b) One year of service while holding a license as third assistant engineer which includes:

(1) A minimum of six months of service as third assistant engineer; and,

(2) Additional service as a qualified member of the engine department, calculated on a two-for-one basis; or,

(c) One year of service as chief engineer (limited-oceans) of steam or motor vessels, and completing the appropriate examination described in subpart I of this part.

§ 10.516 Service requirements for third assistant engineer of steam and/or motor vessels.

(a) The minimum service required to qualify an applicant for license as third assistant engineer of steam and/or motor vessels is:

(1) Three years of service in the engine room of vessels, two years of which must have been as a qualified member of the engine department;

(2) Three years of service as an apprentice to the machinist trade engaged in the construction or repair of marine, locomotive, or stationary engines, together with one year service in the engine room as oiler, watertender, or junior engineer;

(3) Graduation from:

(i) The U.S. Merchant Marine Academy (engineering curriculum);

(ii) The U.S. Coast Guard Academy and completion of an on-board engineer officer qualification program required by the service;

(iii) The U.S. Naval Academy and completion of an on-board engineer officer qualification program required by the service;

(iv) The engineering class of a Maritime Academy approved by and conducted under the rules prescribed by the Maritime Administrator and listed in part 310 of this title;

(4) Graduation from the marine engineering course of a school of technology accredited by the Accreditation Board for Engineering and Technology, together with three months of service in the engine department of steam or motor vessels;

(5) Graduation from the mechanical or electrical engineering course of a school of technology accredited by the Accreditation Board for Engineering and Technology, together with six months of service in the engine department of steam or motor vessels;

(6) Satisfactory completion of a three year apprentice engineers training program approved by the Commanding Officer, National Maritime Center; or,

(7) One year of service as chief engineer (limited-near coastal) of steam or motor vessels and completing the appropriate examination described in subpart I of this part.

(b) Experience gained in the deck department on vessels of 100 gross tons or over can be credited for up to three
§ 10.518 Service requirements for chief engineer (limited-oceans) of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as chief engineer (limited-oceans) of steam and/or motor vessels is five years total service in the engineroom of vessels. Two years of this service must have been as a licensed engineer. Thirty months of the service must have been as a qualified member of the engine department or equivalent supervisory position.

§ 10.520 Service requirements for chief engineer (limited-near coastal) of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as chief engineer (limited-near coastal) of steam and/or motor vessels is four years total service in the engineroom of vessels. One year of this service must have been as a licensed engineer. Two years of the service must have been as a qualified member of the engine department or equivalent supervisory position.

§ 10.522 Service requirements for assistant engineer (limited-oceans) of steam and/or motor vessels.

The minimum service required to qualify an applicant for license as assistant engineer (limited-oceans) of steam and/or motor vessels is three years of service in the engineroom of vessels. Eighteen months of this service must have been as a qualified member of the engine department or equivalent supervisory position.

§ 10.524 Service requirements for designated duty engineer of steam and/or motor vessels.

(a) Designated duty engineer licenses are issued in three levels of horsepower limitations dependent upon the total service of the applicant and completion of appropriate examination. These licenses are limited to vessels of not more than 500 gross tons on certain waters as specified in §10.501.

(b) The service requirements for licenses as designated duty engineer are:

(1) For designated duty engineer of steam and/or motor vessels of any horsepower, the applicant must have three years of service in the engineroom. Eighteen months of this service must have been as a qualified member of the engine department or equivalent supervisory position.

(2) For designated duty engineer of steam and/or motor vessels of not more than 4,000 horsepower, the applicant must have two years of service in the engineroom. Six months of this service must have been as a qualified member of the engine department or equivalent supervisory position.

(3) For designated duty engineer of steam and/or motor vessels of not more than 1,000 horsepower, the applicant must have one year of service in the engineroom. Six months of this service must have been as a qualified member of the engine department or equivalent supervisory position.

§ 10.530 Licenses for engineers of uninspected fishing industry vessels.

(a) This section applies to licenses for chief and assistant engineers of all vessels, however propelled, navigating the high seas, which are documented to engage in the fishing industry, with the exception of:

(1) Wooden ships of primitive build;

(2) Unrigged vessels; and,

(3) Vessels of less than 200 gross tons.

(b) Licenses as chief engineer and assistant engineer of uninspected fishing industry vessels are issued for ocean waters and with horsepower limitations in accordance with the provisions of §10.503.

(c) For a license as chief engineer, the applicant must have served four years in the engineroom of vessels. One year of this service must have been as a licensed assistant engineer or equivalent supervisory position.

(d) For a license as assistant engineer, an applicant must have served three years in the engineroom of vessels.
(e) Two-thirds of the service required under this section must have been on motor vessels.

(f) Applicants may request an orally assisted examination on the subjects listed in subpart I of this part.

§ 10.540 Licenses for engineers of mobile offshore drilling units.

Licenses as chief engineer (MODU) or assistant engineer (MODU) authorize service on certain self-propelled or non-self-propelled units of any horsepower where authorized by the vessel’s certificate of inspection.

[CGD 81-059a, 55 FR 14802, Apr. 18, 1990]

§ 10.542 License for chief engineer (MODU).

To qualify for a license as chief engineer (MODU) an applicant must:

(a) Present evidence of the following experience:

(1) Six years of employment assigned to MODUs including three years of employment as mechanic, motorman, subsea engineer, electrician, barge engineer, toolpusher, unit superintendent, crane operator or equivalent. Eighteen months of that employment must have been assigned to self-propelled or propulsion assisted units; or

(2) Two years of employment assigned to MODUs as an assistant engineer (MODU). Twelve months of that employment must have been assigned to self-propelled or propulsion assisted units; and

(b) Present evidence of completion of a firefighting training course as required by § 10.205(g) of this part.

(c) If an applicant successfully completes a modified examination and possesses the total required sea service for a license as chief engineer (MODU), but does not possess the required sea service on board self-propelled or propulsion assisted units, the OCMI may issue the applicant a license limited to non-self-propelled units. The OCMI may remove the limitation upon presentation of satisfactory evidence of the required self-propelled sea service and completion of any additional required examination.

[CGD 81-059a, 55 FR 14802, Apr. 18, 1990, as amended by CGD 81-059a, 59 FR 10756, Mar. 8, 1994]

§ 10.544 License for assistant engineer (MODU).

To qualify for a license as assistant engineer (MODU) an applicant must:

(a) Present evidence of the following experience:

(1) Three years of employment assigned to MODUs including 18 months of employment as mechanic, motorman, subsea engineer, electrician, barge engineer, toolpusher, unit superintendent, crane operator or equivalent. Nine months of that employment must have been assigned to self-propelled or propulsion assisted units;

(2) Three years of employment in the machinist trade engaged in the construction or repair of diesel engines and one year of employment assigned to MODUs in the capacity of mechanic, motorman, oiler, or equivalent. Nine months of that employment must have been assigned to self-propelled or propulsion assisted units; or

(3) A degree from a program in marine, mechanical, or electrical engineering technology which is accredited by the Accreditation Board for Engineering and Technology (ABET). Commanding Officer, National Maritime Center will give consideration to accepting education credentials from programs having other than ABET accreditation. An applicant qualifying through a degree program must also have at least six months of employment in any of the capacities listed in paragraph (a)(1) of this section aboard self-propelled or propulsion assisted units; and

(b) Present evidence of completion of a firefighting training course as required by § 10.205(g) of this part.

(c) If an applicant successfully completes a modified examination and possesses the total required sea service for a license as an assistant engineer (MODU), but does not possess the required sea service on board self-propelled or propulsion assisted units, the OCMI may issue the applicant a license limited to non-self-propelled units. The OCMI may remove the limitation upon presentation of the satisfactory evidence of the required self-propelled sea
§ 10.551 Licenses for service on offshore supply vessels.

Each license for service on OSVs as Chief Engineer (OSV) or Engineer (OSV) authorizes service on OSVs as defined in 46 U.S.C. 2101(19) and as interpreted under 46 U.S.C. 14104(b), subject to any restrictions placed on the license.

§ 10.553 Chief Engineer (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Chief engineer (OSV) or Engineer (OSV) authorizes service on OSVs and as interpreted under 46 U.S.C. 14104(b), subject to any restrictions placed on the license.

§ 10.555 Engineer (OSV).

(a) Except as provided by paragraph (b) of this section, to qualify for a license as Engineer (OSV), an applicant shall present evidence that he or she meets the requirements of STCW Regulation III/2.

(b) The OCMl may exempt an applicant from meeting any requirement under STCW Regulation III/2 that the OCMl determines to be unnecessary or unnecessary for service on an OSV, or that the applicant meets under the equivalency provisions of Article IX of STCW.

§ 10.601 Applicability.

This subpart provides for the licensing of radio officers for employment on vessels, and for the issue of STCW certificates or endorsements for those qualified to serve as radiotelegraph operators on vessels subject to the provisions on the Global Maritime Distress and Safety System (GMDSS) of Chapter IV of SOLAS.

§ 10.603 Requirements for radio officers' licenses, and STCW certificates or endorsements for GMDSS radio operators.

(a) Each applicant for an original license or renewal of license shall present a current first or second class radiotelegraph operator license issued by the Federal Communications Commission. The applicant shall enter on the license application form the number, class, and date of issuance of his or her Federal Communications Commission license.

(b) An applicant for license as radio officer shall apply for a merchant mariner's document under part 12. This document will be endorsed as Radio Officer.

(c) Each applicant who furnishes evidence that he or she meets the standard of competence set out in STCW Regulation IV/2, including the competence to transmit and receive information using subsystems of GMDSS, to fulfill the functional requirements of GMDSS, and to provide radio services in emergencies is entitled to hold an STCW certificate suitably endorsed for performing duties associated with GMDSS.

(d) Evidence required by paragraph (c) of this section must include a certificate—

1. For operator of radio in the GMDSS issued by the Federal Communications Commission (FCC); and

2. Of completion from a Coast Guard-approved course for operator of radio in the GMDSS, or other approved
programs of training and assessment covering the same areas of competence.


Subpart G—Professional Requirements for Pilot Licenses

SOURCE: CGD 81-059b, 52 FR 38659, Oct. 16, 1987 unless otherwise noted.

§ 10.701 Scope of pilot licenses and endorsements.

(a) An applicant for a license as first class pilot need not hold any other license issued under this part. An individual holding a license as master, mate, or operator of uninspected towing vessels may apply for an endorsement as first class pilot for a specific route or routes in lieu of applying for a first class pilot’s license.

(b) The issuance of a license or endorsement as first class pilot to an individual qualifies that individual to serve as pilot over the route(s) specified on the license, subject to any limitations imposed under paragraph (c) of this section.

(c) The Officer in Charge, Marine Inspection, issuing a license or endorsement as first class pilot to an individual qualifies that individual to serve as pilot over the route(s) specified on the license, subject to any limitations imposed under paragraph (c) of this section.

(d) The issuance of a license or endorsement as first class pilot to an individual qualifies that individual to serve as pilot over the route(s) specified on the license, subject to any limitations imposed under paragraph (c) of this section.

§ 10.703 Service requirements.

(a) The minimum service required to qualify an applicant for a license as first class pilot, or for an endorsement as first class pilot on a license as master, mate, or operator of uninspected towing vessels, is predicated upon the nature of the waters for which pilotage is desired.

1. General routes (routes not restricted to rivers, canals and small lakes). The applicant must have at least 36 months service in the deck department of steam or motor vessels navigating on oceans, coastwise, Great Lakes, or bays, sounds, and lakes other than the Great Lakes, as follows:

   (i) 18 months of the 36 months service must be as quartermaster, wheelsman, able seaman, apprentice pilot, or in an equivalent capacity, standing regular watches at the wheel or in the pilothouse as part of routine duties.

   (ii) At least 12 months of the 18 months service required in paragraph (a)(1)(i) of this section must be on vessels operating on the class of waters for which pilotage is desired.

2. River routes. The applicant must have at least 324 months service in the deck department of any vessel including at least 12 months service on vessels operating on the waters of rivers while the applicant is serving in the capacity of quartermaster, wheelsman, apprentice pilot, or deckhand who stands watches at the wheel as part of routine duties.

3. Canal and small lakes routes. The applicant must have at least 24 months service in the deck department of any vessel including at least 8 months service on vessels operating on canals or small lakes.

(b) A graduate of the Great Lakes Maritime Academy in the deck class meets the service requirements of this section for a license as first class pilot on the Great Lakes.

(c) Completion of a course of pilot training approved by the Commanding Officer, National Maritime Center, under subpart C of this part may be substituted for a portion of the service requirements of this section in accordance with §10.304. Additionally, round trips made during this training may apply toward the route familiarization requirements of §10.705. An individual using substituted service must have at least nine months of shipboard service.

(d) An individual holding a license as master or mate of inspected steam or motor vessels of over 1,600 gross tons meets the service requirements of this section.
§ 10.705 Route familiarization requirements.

(a) The Officer in Charge, Marine Inspection having jurisdiction determines, within the range limitations specified in this section, the number of round trips required to qualify an applicant for a particular route, considering the following:

1. The geographic configuration of the waterway;
2. The type and size of vessels using the waterway;
3. The abundance or absence of aids to navigation;
4. The background lighting effects;
5. The known hazards involved, including waterway obstructions or constrictions such as bridges, narrow channels, or sharp turns; and,
6. Any other factors unique to the route that the OCMI deems appropriate.

(b) An applicant for an original license as first class pilot shall furnish evidence of having completed a minimum number of round trips, while serving as quartermaster, wheelsman, able seaman, apprentice pilot, or in an equivalent capacity, standing regular watches at the wheel or in the pilot house as part of routine duties, over the route sought. Evidence of having completed a minimum number of round trips while serving as an observer, properly certified by the master and/or pilot of the vessel, is also acceptable. The range of round trips for an initial license is a minimum of 12 round trips and a maximum of 20 round trips. An applicant may have additional routes added to the first class pilot license by meeting the requirements for obtaining an endorsement.

(c) An applicant for an endorsement as first class pilot for a particular route shall furnish evidence of having completed the number of round trips over the route, specified by the Officer In Charge, Marine Inspection, within the range limitations of this paragraph, for the particular grade of existing license held. The range of round trips for an endorsement is a minimum of 8 round trips and a maximum of 15 round trips.

(d) Unless determined impracticable by the OCMI, 25% of the round trips required by the OCMI under this section must be made during the hours of darkness.

(e) One of the round trips required by the OCMI under this section must be made over the route within the six months immediately preceding the date of application.

§ 10.707 Examination requirements.

(a) An applicant for a license as first class pilot is required to pass the examination described in subpart I of this part.

(b) An applicant for an extension of route, or a licensed master or mate authorized to serve on vessels of over 1,600 gross tons seeking an endorsement as first class pilot, is required to pass those portions of the examination described in subpart I of this part that concern the specific route for which endorsement is sought.

§ 10.709 Annual physical examination requirements.

(a) This section applies only to an individual who pilots a vessel of 1,600 gross tons and over.

(b) Every person holding a license or endorsement as first class pilot shall have a thorough physical examination each year while holding the license or endorsement.

(c) Each annual physical examination must meet the requirements specified in §10.205(d) except that the record of examination need not be submitted to the Coast Guard except as provided for in paragraph (e) of this section.

(d) An individual's first class pilot license or endorsement becomes invalid on the first day of the month following the first anniversary of the individual's most recent physical examination satisfactorily completed; the individual may not operate under the authority of that license or endorsement until a physical examination has been satisfactorily completed.
Coast Guard, DOT
§10.805

(e) Upon request, a first class pilot shall provide the Coast Guard with a copy of his or her most recent physical examination.

§10.711 Tonnage requirements.
(a) In order to obtain a first class pilot license or endorsement authorizing service on vessels of any gross tons over a particular route, the applicant must have sufficient experience on vessels of over 1,600 gross tons.
(b) If an applicant does not have sufficient experience on vessels of over 1,600 gross tons, the license or endorsement will be for a limited tonnage until the applicant completes a number of additional round trips, as determined by the OCMI, within the range contained in §10.705 (b) or (c), as appropriate, on vessels of over 1,600 gross tons.

(c) For purposes of this section, an applicant is considered to have sufficient experience if the applicant has 18 months experience as master, mate, quartermaster, wheelsman, able seaman, apprentice pilot, or in an equivalent capacity, standing regular watches at the wheel or in the pilothouse as part of routine duties, on vessels of 1,600 gross tons or over, and two-thirds of the minimum number of round trips required for the route have been on vessels of 1,600 gross tons or over.

(d) For purposes of this section, for experience with respect to tonnage on towing vessels, the combined gross tonnage of the towing vessel and the vessel(s) towed will be considered. However, the OCMI may require that all or a portion of the required number of round trips be obtained on self-propelled vessels of 1,600 gross tons or over, when the OCMI determines that due to the nature of the waters and the overall experience of the applicant, self-propelled vessel experience is necessary to obtain a first class pilot license or endorsement that is not restricted to tug and barge combinations.

§10.713 Requirements for maintaining current knowledge of waters to be navigated.
(a) If a first class pilot has not served over a particular route within the past 60 months, that person's license or endorsement is invalid for that route, and remains invalid until the individual has made one re-familiarization round trip over that route, except as provided in paragraph (b) of this section. Whether this requirement is satisfied or not has no effect on the renewal of a license or endorsement. Round trips made within the 90 day period preceding renewal will be valid for the duration of the renewed license or endorsement.

(b) For certain long or extended routes, the OCMI may, at his discretion, allow the re-familiarization requirement to be satisfied by reviewing appropriate navigation charts, coast pilots tide and current tables, local Notice to Mariners, and any other materials which would provide the pilot with current knowledge of the route. Persons using this method of re-familiarization shall certify, when applying for renewal of their license or endorsement, the material they have reviewed and the dates on which this was accomplished. Review within the 90 day period preceding renewal is valid for the duration of the renewed license or endorsement.

Subpart H—Registration of Staff Officers
§10.801 Applicability.
This subpart provides for the registration of staff officers for employment on vessels documented or numbered under the laws of the United States. Staff officers must be registered if serving on most vessels in ocean service or on the Great Lakes.

§10.803 Grades of certificates issued.
Staff officers are registered in the following grades:
(a) Chief purser.
(b) Purser.
(c) Senior assistant purser.
(d) Junior assistant purser.
(e) Medical doctor.
(f) Professional nurse.

§10.805 General requirements.
(a) The applicant for a certificate of registry as staff officer is not required to take any examination; however, the applicant shall present to the Officer in
§ 10.807 Charge, Marine Inspection a letter justifying the need for the certificate of registry.

(b) The applicant must hold or apply for a merchant mariner’s document.

(c) Endorsements for a higher grade are not made on certificates of registry. An applicant for a higher grade in the staff department shall apply in the same manner as for an original certificate of registry and shall surrender the certificate upon issuance of the new certificate of registry. A person holding a certificate of registry as staff officer may serve in a lower grade of a service for which he or she is registered.

(d) Title 46 U.S.C. 8302 addresses uniforms for staff officers who are members of the Naval Reserve.

(e) A duplicate certificate of registry may be issued by the Officer in Charge, Marine Inspection. (See § 10.219.)

(f) A certificate of registry is valid for a term of 5 years from the date of issuance. Procedures for renewing certificates of registry are found in § 10.209. The expiration date of a certificate of registry issued without an expiration date shall be determined in accordance with § 10.811.

(g) Each applicant for an original certificate of registry or a higher grade of certificate of registry, as described by paragraph (c) of this section, shall produce evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in § 16.220 of this subchapter. An applicant who fails a chemical test for dangerous drugs will not be issued a certificate of registry.

§ 10.809 Experience requirements for ratings endorsed on certificate of registry.

(a) An applicant for rating to be endorsed on a certificate of registry shall submit evidence of experience as follows:

(1) Marine physician assistant. Successful completion of an accredited course of instruction for a physician’s assistant or nurse practitioner program.

(2) Hospital corpsman. A rating of at least hospital corpsman or health services technician, first class in the U.S. Navy, U.S. Coast Guard, U.S. Marine Corps, or an equivalent rating in the
§ 10.901 General provisions.

(a) Each applicant for any license listed in this part shall pass examinations on the appropriate subjects listed in this subpart, except as noted in §10.903(b).

(b) If the license is to be limited in a manner which would render any of the subject matter unnecessary or inappropriate, the examination may be amended accordingly by the Officer in Charge, Marine Inspection. Limitations which may affect the examination content are:

(1) Restricted routes for reduced service licenses (master or mate of vessels of not more than 200 gross tons, operator of uninspected passenger vessels or uninspected towing vessels); or,

(2) Engineer licenses with horsepower restrictions.

(c) Except as provided in §§10.202 and 10.209, each applicant for an STCW certificate or endorsement, to be valid for service on or after February 1, 2002, in the following capacities on vessels that operate beyond the Boundary Line shall also furnish sufficient documentary evidence that he or she has made a practical demonstration(s) of competence as set out under the appropriate STCW Regulations:

(i) Officer in charge of the navigational watch on a seagoing vessel of 500 gross tons (GT) or more.

(ii) Officer in charge of the navigational watch on a seagoing vessel of less than 500 GT not engaged on a near-coastal voyage.

(iii) Officer in charge of the navigational watch on a seagoing vessel of less than 500 GT engaged on a near-coastal voyage.

(iv) Master and chief mate on a seagoing vessel of 3,000 GT or more.

(v) Master and chief mate on a seagoing vessel of between 500 and 3,000 GT.

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The expiration year of a certificate of registry issued without an expiration date is calculated by adding 5-year increments to the issuance date of the certificate of registry, up to first applicable year falling between 1995 and 1999, inclusive. The day and month of expiration are the same as that of issuance. Table 10.811 is provided as an aid for calculating the expiration date of a certificate of registry issued without an expiration date. A certificate of registry is not valid for use after the expiration date calculated under this section, but may be renewed in accordance with the requirements of §10.209.

### Table 10.811—Expiration of Certificates of Registry Issued With No Expiration Date

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1 Find the year in which the certificate of registry was issued (Issue Year), then move up the column to find the Expiration Year. Month and day of expiration correspond to the month and day of issue.

[CGD 91-211, 59 FR 49300, Sept. 27, 1994; CGD 91-211, 59 FR 50964, Oct. 6, 1994]
§ 10.903 Licenses requiring examinations.

(a) The following licenses require examinations for issuance:

(1) Master ocean/near coastal any gross tons;¹

(2) Chief mate ocean/near coastal any gross tons;¹

(3) Second mate ocean/near coastal any gross tons;¹

(4) Third mate ocean/near coastal any gross tons;¹

(5) Master ocean/near coastal not more than 500 or 1600 gross tons;¹

(6) Mate ocean/near coastal not more than 500 or 1600 gross tons;¹

(7) Mate near coastal not more than 200 gross tons;

(8) Master near coastal not more than 100 gross tons;

(9) Master Great Lakes and inland any gross tons;

(10) Mate Great Lakes and inland any gross tons;

(11) Master inland any gross tons;

(12) Master river any gross tons;

(13) Master Great Lakes and inland/river not more than 500 or 1600 gross tons;¹

(14) Mate Great Lakes and inland/river not more than 500 or 1600 gross tons;¹

(15) Mate Great Lakes and inland/inland/river not more than 200 gross tons;¹

(16) Master Great Lakes and inland/inland/river not more than 100 gross tons;¹

(17) First class pilot;

(18) Operator or second-class operator uninspected towing vessels;

(19) Operator uninspected passenger vessels;

(20) Master uninspected fishing industry vessels;

(21) Mate uninspected fishing industry vessels;

(22) Chief engineer steam/motor vessels;

(23) First assistant engineer steam/motor vessels;

(24) Second assistant engineer steam/motor vessels;

(25) Third assistant engineer steam/motor vessels;

(26) Chief engineer (limited) steam/motor vessels;

(27) Assistant engineer (limited) steam/motor vessels;

(28) Designated duty engineer steam/motor vessels;

(29) Chief engineer uninspected fishing industry vessels;

(30) Assistant engineer uninspected fishing industry vessels.

(b) The following licenses do not require examinations:

(1) Chief engineer steam/motor vessels;

(2) Second assistant engineer steam/motor vessels;

(3) Third assistant engineer steam/motor vessels;

(4) Master engine steam/motor vessels;

(5) Chief engineer (limited) steam/motor vessels;

(6) Assistant engineer (limited) steam/motor vessels;

(7) Designated duty engineer steam/motor vessels;

(8) Chief engineer uninspected fishing industry vessels;

(9) Assistant engineer uninspected fishing industry vessels.

¹Examination will vary depending upon route desired.
(1) Master, oceans and near coastal, any gross tons.
(2) Chief mate, oceans and near coastal, any gross tons.
(3) Master, oceans and near coastal, 500 to 1600 gross tons.
(4) Second mate, oceans and near coastal, any gross tons.
(5) Third mate, oceans and near coastal, any gross tons.
(6) Mate, oceans and near coastal, 500 to 1600 gross tons.
(7) Operator, uninspected towing vessel of over 200 gross tons, oceans (domestic trade) and near coastal.
(8) Master (OSV).
(9) Chief mate (OSV).
(10) Mate (OSV).
(11) Chief engineer, unlimited.
(12) 1st Assistant engineer, unlimited.
(13) 2nd Assistant engineer, unlimited.
(14) 3rd Assistant engineer, unlimited.
(15) Chief engineer, limited—oceans.
(16) Assistant engineer, limited—oceans.
(17) Chief engineer, limited—near coastal.
(18) Chief engineer (OSV).
(19) Engineer (OSV).

Table 10.903-1

| STCW CODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| II/1      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| II/2, p. 1 & 2 |   |   |   |   |   |   | X | X |   |    |    |    |    |    |    |    |    |    |
| II/2, p. 3 & 4 |   |   |   |   |   |   | X |   |   |    |    |    |    |    |    |    |    |    |
| III/1     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
| III/2     |   |   |   |   |   |   |   |   | X |    |    |    |    |    |    |    |    |    |
| III/3     |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |

(d) After July 31, 1998, any candidate for a license listed in paragraph (c) of this section, who meets the requirements of the appropriate regulations and standards of competence in STCW and part A of the STCW Code, as indicated in table 10.903-1, need not comply with § 10.910, or 10.950, of this part.

§ 10.910 Subjects for deck licenses.

Table 10.910-1 gives the codes used in table 10.910-2 for all deck licenses. Table 10.910-2 indicates the examination subjects for each license, by code number. Figures in the body of the table, in place of the letter “x”, refer to notes.
TABLE 10.910-1 CODES FOR DECK LICENSES

Deck Licenses:

1. Master, Oceans/near coastal, any gross tons.
2. Chief mate, oceans/near coastal, any gross tons.
3. Master, oceans/near coastal, 500/1,600 gross tons.
4. Second mate, oceans/near coastal, any gross tons.
5. Third mate, oceans/near coastal, any gross tons.
6. Mate, oceans/near coastal, 500/1,600 gross tons.
7. Master, oceans/near coastal, and mate, near coastal, 200 gross tons (includes master, near coastal, 100 gross tons).
8. Operator, uninspected passenger vessels, near coastal.
10. Operator, uninspected towing vessels, oceans (domestic trade)/near coastal.
11. Operator, uninspected towing vessels, Great Lakes/inland.
12. Operator, uninspected towing vessels, Western rivers.
13. Master, Great Lakes/inland, or master, inland, any gross tons.
14. Mate, Great Lakes/inland, any gross tons.
15. Master, Great Lakes/inland, 500/1,600 gross tons.
16. Mate, Great Lakes/inland, 500/1,600 gross tons.
17. Master or mate, Great Lakes/inland, 200 gross tons (includes master, Great Lakes/inland, 100 gross tons).
18. Master, rivers, any gross tons.
19. Master, rivers, 500/1,600 gross tons.
20. Mate, rivers, 500/1,600 gross tons.
21. Master or mate, rivers, 200 gross tons (includes master, rivers, 100 gross tons).
22. Master, uninspected fishing Industry vessels, oceans/near coastal.
23. Mate, uninspected fishing Industry vessels, oceans/near coastal.
24. First class pilot.

TABLE 10.910-2—LICENSE CODES

| Examination topics                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Navigation and position determination:         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Ocean Track Plotting:                          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Middle Latitude Sailing                        | 1 | 1 | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Mercator Sailing                               | X | X | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Great Circle Sailing                           | 1 | 1 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Parallel Sailing                              | X | X | 1 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ETA                                           | X | X | X |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Piloting:                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Distance Off                                   | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bearing Problems                               | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Fix or Running Fix                             | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Chart Navigation                              | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Dead Reckoning                                 | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Celestial Observations:                       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Special Cases (hilo Alt., Backsight)           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Latitude by Polaris                            | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lat. by Meridian Transit (Sun Only)            | X | X | X | X | 1 | 1 | 1 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Fix or Running Fix (Any Body)                  | X | X | X | X | 1 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Star Identification                           | 1 | 1 |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Star Selection                                 | X | X | X | X | X |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Times of Celestial Phenomena:                  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Time of Meridian Transit                       | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Time of Meridian Transit (Sun Only)            | X | X | X | X | X | 1 | 1 |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Second Estimate Meridian Transit               | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Zone Time Sun Rise/Set/Twilight                | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Zone Time Moon Rise/Set                        | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed by RPM                                   | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Fuel Conservation                              | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Electronic Navigation                          | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Instruments and Accessories                    | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Aids To Navigation                             | X | X | X | X | X | X | X | X | X |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

174
| Examination topics                                                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Charts, Navigation Publications, and Notices to Mariners                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Nautical Astronomy & Navigation Definitions                                                        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Chart Sketch                                                                                       | 4 |
| Seamanship                                                                                         |
| Marlinspike Seamanship                                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Purchases, Blocks and Tackle                                                                        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Small Boat Handling Under Oars or Sail                                                               | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Watchkeeping                                                                                       |
| COLREGS                                                                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Inland Navigational Rules                                                                           | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Basic Principles, Watchkeeping                                                                        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Navigation Safety Regs. (33 CFR 164)                                                                 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Radar Equipment                                                                                     |
| Radar Observer Certificate                                                                          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Compass-Magnetic and Gyro                                                                             |
| Principles of Gyro Compass                                                                           | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Magnetic Compass Adjustment                                                                           | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Magnetic Compass Error/Correction                                                                     | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Determination of Compass Error:                                                                       | X | X | 1 |
| Azimuth (Any Body)                                                                                   | X | X | 1 |
| Azimuth (Sun Only)                                                                                   | 1 |
| Amplitude (Any Body)                                                                                 | X |
| Amplitude (Sun Only)                                                                                 | X | X | 1 |
| Deviation Table Construction                                                                         | X | X | 1 |
| Terrestrial Observation                                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Gyro Controlled Systems                                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Meteorology and Oceanography                                                                          |
| Characteristics of Weather Systems                                                                    | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ocean Current Systems                                                                               | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Weather Charts and Reports                                                                           | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Tides and Tidal Currents                                                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Extensive Tidal Effects                                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Publications                                                                                         | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Calculations                                                                                         | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ship Maneuvering and Handling                                                                         |
| Approaching Pilot Vessel or Station                                                                  | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Shiphandling in Rivers, Estuaries                                                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Maneuvering in Shallow Water                                                                         | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Interaction with Bank/Passing Ship                                                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Berthing and Unberthing                                                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Draggling, Clearing Fouled Anchors                                                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Drydocking, with & without Prior Damage                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Heavy Weather Operations                                                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Maneuvering for Launching of Lifeboats and Liferafts in Heavy Weather                               | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Receiving Survivors From Lifts/Liferafts                                                           | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| General: Turn Circle, Pivot Point, Advance and Transfer                                             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Determine Maneuvering Characteristics of Major Vessel Types                                         | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Wake Reduction                                                                                       | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ice Operations/Ice Navigation                                                                       | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Towing Operations                                                                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ship Stability, Construction, and Damage Control                                                    |
| Principles of Ship Construction                                                                    | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Trim and Stability                                                                                   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Damage Trim and Stability                                                                            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Stability, Trim, and Stress Calculation                                                              | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Vessel Structural Members                                                                            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| IMO Ship Stability Recommendations                                                                 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Damage Control                                                                                       | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
§ 10.910

46 CFR Ch. I (10–1–99 Edition)
TABLE 10.910–2—LICENSE CODES—Continued

Examination topics

1

Change in Draft Due to Density ...........
Ship Power Plants:
Marine Power Plant Operating Principles .................................................
Ships’ Auxiliary Machinery ....................
Marine Engineering Terms ...................
Small Engine Operations and Maintenance .................................................
Cargo Handling and Stowage:
Cargo Stowage and Security, Including
Cargo Gear ........................................
Loading and Discharging Operations ...
International Regulations for Cargoes,
Especially IMDG ................................
Dangerous/Hazardous Cargo Regulations ...................................................
Tank Vessel Safety ...............................
Cargo Piping and Pumping Systems ....
Cargo Oil Terms and Definitions ..........
Ballasting, Tank Clean., & Gas Free
Ops ....................................................
Load on Top Procedures ......................
Barge Regulations (Operations) ...........
Fire Prevention and Firefighting Appliances:
Organization of Fire Drills .....................
Classes and Chemistry of Fire .............
Firefighting Systems .............................
Firefighting Equip. and Regulations ......
Firefighting Equip. & Regs. for T-Boats
Basic Firefighting and Prevention .........
Emergency Procedures:
Ship Beaching Precautions ...................
Actions Prior To/After Grounding ..........
Refloating a Grounded Ship .................
Collision .................................................
Temporary Repairs ...............................
Passenger/Crew Safety in Emergency
Fire or Explosion ...................................
Abandon Ship Procedures ....................
Emergency Steering .............................
Rescuing Surv. From Ship/Airc. in Dist
Man Overboard Procedures .................
Emergency Towing ...............................
Medical Care:
Knowledge and use of:
Int’l. Medical Guide for Ships ........
Ship Med. Chest and Med. Aid at
Sea .............................................
Medical Sec., Inter. Code of Signals .............................................
1st Aid Guide: Accidents with Dangerous Goods .............................
First Aid ..........................................
Maritime Law:
International Maritime Law:
Int’l. Convention on Load Lines .....
SOLAS ...........................................
MARPOL 73/78 ..............................
International Health Regulations ...
Other International Instruments for
Ship/Pass./Crew/Cargo Safety ...
National Maritime Law:
Load Lines .....................................
Cert. and Documentation of Vessels .............................................
Rules & Regs. for Inspected Vessels .............................................
Rules & Regs. for Inspected TBoats ..........................................
Rules and Regs for Uninsp. Vessels .............................................
Pollution Prevention Regulations ...

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### Table 10.910–2—License Codes—Continued

| Examination topics | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Pilotage         | X | X | X | x | x | x | x | x | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Licensing & Certification of Seamen | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Shipment and Discharge, Manning | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Title 46 U.S. Code | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Captain of the Port Regulations, Vessel Traffic Service Procedures for the Route Desired | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Shipboard Management and Training: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Personnel Management | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Shipboard Organization | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Required Crew Training | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ship Sanitation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Vessel Alteration/Repair—Hot Work | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Safety | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Ship's Business: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charters | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lien, Salvage | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Insurance | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Entry, Clearance | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Certificates and Documents Required | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Communications: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flashing Light | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Radiotelephone Communications | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Radiotelegraphy Emerg. Dist. Signals | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Signals: Storm/Wreck Dist./Special | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| International Code of Signals | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lifesaving: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Survival at Sea | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lifesaving Appliance Regulations | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lifesaving Appliance Regs. for T-Boats | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lifesaving Appliance Operation | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Lifesaving Appliance Ops. for T-Boats | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Search and Rescue: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Search and Rescue Procedures | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| AMVER | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SAIL/AUXILIARY SAIL VESSELS ADDENDUM (8): | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Any other subject considered necessary to establish the applicant's proficiency | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

1—For ocean routes only.
2—River chart navigation only.
3—Topic covered only on Great Lakes specific module(s) taken for "Great Lakes and inland" routes.
4—including recommended courses, distances, prominent aids to navigation, depths of waters in channels and over hazardous shoals, other important features of the route, such as character of the bottom. The OCMI may accept chart sketching of only a portion or portions of the route for long or extended routes.
5—Take COLREGS if license not limited to non-COLREG waters.
6—for licenses over 1600 gross tons.
7—for licenses over 100 gross tons.
8—Sail vessel safety precautions, rules of the road, operations, heavy weather procedures, navigation, maneuvering, and sailing terminology. Applicants for sail/auxiliary sail endorsements to master, mate or operator of uninspected passenger vessels licenses are also tested in the subjects contained in this addendum.

[CGD 81–059a, 55 FR 14802, Apr. 18, 1990]

§ 10.920 Subjects for MODU licenses.

Table 10.920-1 gives the codes used in Table 10.920-2 for MODU licenses. Table 10.920-2 indicates the examination subjects for each license by the code number.

Table 10.920-1 Codes for MODU Licenses

<table>
<thead>
<tr>
<th>Code</th>
<th>License Type</th>
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<tbody>
<tr>
<td>OIM/Unrestricted</td>
<td>1</td>
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<tr>
<td>OIM/Surface Units Underway</td>
<td>2</td>
</tr>
<tr>
<td>OIM/Surface Units on Location</td>
<td>3</td>
</tr>
<tr>
<td>OIM/Bottom Bearing Units Underway</td>
<td>4</td>
</tr>
<tr>
<td>OIM/Bottom Bearing Units on Location</td>
<td>5</td>
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<tr>
<td>Barge Supervisor</td>
<td>6</td>
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<tr>
<td>Ballast Control Operator</td>
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Table 10.920-2—Subjects for MODU Licenses

<table>
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<th>Examination topics</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<tr>
<td>Watchkeeping</td>
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<td>COLREGS</td>
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<td>&quot;Basic Principles for Navigational Watch&quot;</td>
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<tr>
<th>Examination topics</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<td>MODU obstruction lights</td>
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<td>Characteristics of weather systems</td>
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<td>Stability, ballasting, construction and damage control: Principles of ship construction, structural members</td>
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**TABLE 10.920—SUBJECTS FOR MODU LICENSES—Continued**

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Coast Guard, DOT § 10.950

TABLE 10.920–2.—SUBJECTS FOR MODU LICENSES—Continued

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Lifesaving/Survival:
Lifesaving appliance operation (launching, boat handling): X X X X X X
Procedures/rules for lifeboats, survival suits, PFDs, life rafts and emergency signals: X X X X X X
Emergency radio transmissions: X X X X X X
Survival at sea: X X X X X X

[CGD 81–059a, 55 FR 14802, Apr. 18, 1990]

§ 10.950 Subjects for engineer licenses.
## Table 10.950.—Subjects for Engineer Licenses

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Coast Guard, DOT § 10.950
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Notes:
P=Practical Knowledge.
T=Theoretical Knowledge.

Subpart J—Ro-Ro Passenger Ships

§ 10.1001 Purpose of regulations.
The purpose of the regulations in this subpart is to establish requirements for officers serving on roll-on/roll-off (Ro-Ro) passenger ships.

§ 10.1003 Definition.
Roll-on/roll-off (Ro-Ro) passenger ship means a passenger ship with Ro-Ro cargo spaces or special-category spaces as defined in the Convention for the Safety of Life at Sea, 1974, as amended (SOLAS), to which a SOLAS certificate is issued.

§ 10.1005 General requirement for license-holders.
To serve on a Ro-Ro passenger ship after January 31, 1997, a person licensed as master, chief mate, licensed mate, chief engineer, or licensed engineer shall meet the appropriate requirements of STCW Regulation V/2 and Section A-V/2 of the STCW Code and shall hold documentary evidence to show his or her meeting these requirements.

PART 12—CERTIFICATION OF SEAMEN

Subpart 12.01—General

Sec.
12.01-1 Purposes of regulations.
12.01-3 Incorporation by reference.
12.01-6 Definitions of terms used in this part.
12.01-7 Regional Examination Centers.
12.01-9 Paperwork approval.

Subpart 12.02—General Requirements for Certification

12.02-3 Where documents are issued.
12.02-4 Basis for denial of documents.
12.02-5 Form in which documents are issued.
12.02-7 When documents are required.
12.02-9 Application for documents.
12.02-10 Applications for documents from aliens.
12.02-11 General provisions respecting merchant mariners' documents.
12.02-13 Citizenship requirements.
12.02-14 Nationality of aliens.
12.02-15 Oath requirement.
12.02-17 Rules for the preparation and issuance of documents.
12.02-18 Fees.
12.02-19 Suspension or revocation of documents.
12.02-21 Issuance of documents after revocation.
12.02-23 Issuance of duplicate documents.
12.02-24 Reporting loss or recovery of continuous discharge book, merchant mariner's document, or certificate of discharge.
12.02-25 Right of appeal.
12.02-27 Requirements for renewal of a merchant mariner's document.
12.02-29 Expiration of existing merchant mariner's documents.

Subpart 12.03—Approved and Accepted Training

12.03-1 Coast Guard-accepted training other than approved courses.

Subpart 12.05—Able Seamen

12.05-1 Certification required.
12.05-3 General requirements.
12.05-5 Physical requirements.
12.05-7 Service or training requirements.
12.05-9 Examination and demonstration of ability.
12.05-11 General provisions respecting merchant mariner's document endorsed for service as able seamen.

Subpart 12.07 [Reserved]

Subpart 12.10—Lifeboatman

12.10-1 Certification required.
12.10-3 General requirements.
12.10-5 Examination and demonstration of ability.
12.10-7 General provisions respecting merchant mariner's document endorsed as lifeboatman.
12.10-9 Certificates of proficiency in fast rescue boats.

Subpart 12.13—Persons Designated To Provide Medical Care on Board Ship

12.13-1 Documentary evidence required.
12.13-3 Basis of documentary evidence.

Subpart 12.15—Qualified Member of the Engine Department

12.15-1 Certification required.
12.15-3 General requirements.
12.15-5 Physical requirements.
12.15-7 Service or training requirements.
12.15-9 Examination requirements.
12.15-11 General provisions respecting merchant mariner's documents endorsed as qualified member of the engine department.
§ 12.01—General

12.01-1 Purposes of regulations.

(a) The purposes of the regulations in this part are to provide—

(1) A comprehensive and adequate means of determining the identity or the qualifications an applicant must possess to be eligible for certification to serve on merchant vessels of the United States; and

(2) A means of determining that an applicant is competent to serve as a “rating forming part of a navigational watch” or a “rating forming part of an engine-room watch”, or is otherwise “designated to perform duties in a periodically unmanned engine-room”, on a seagoing ship, in accordance with the provisions of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as amended (STCW), and to receive the certificate or endorsement required by STCW.

(b) The regulations in subpart 12.03 of this part prescribe the requirements applicable to all training and assessment associated with meeting the standards of competence established by STCW.


§ 12.01–3 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the FEDERAL REGISTER and must ensure that the material is available to the public. All approved material is available for inspection at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC, and at the U.S. Coast Guard, Office of Operating and Environmental Standards, 2100 Second Street SW., Washington, DC 20593–0001, and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are as follows:

International Maritime Organization (IMO)

4 Albert Embankment, London, SE1 7SR, England


§ 12.01–6 Definitions of terms used in this part.

Approved means approved by the Coast Guard in accordance with 46 CFR 10.302.

Coast Guard-accepted means that the Coast Guard has officially acknowledged in writing that the material or process at issue meets the applicable requirements; that the Coast Guard has issued an official policy statement listing or describing the material or process as meeting the applicable requirements; or that an entity acting on behalf of the Coast Guard under a
Memorandum of Agreement has determined that the material or process meets the applicable requirements.

Conviction means the applicant for a merchant mariner's document has been found guilty by judgment or plea by a court of record of the United States, the District of Columbia or any State or territory of the United States of a criminal felony or misdemeanor or of an offense described in section 205 of the National Driver Register Act of 1982 (49 U.S.C. 30304). If an applicant pleads guilty or no contest, is granted deferred adjudication, or is required by the court to attend classes, make contributions of time or money, receive treatment, submit to any manner of probation or supervision, or forego appeal of a trial court's conviction, then the applicant will be considered to have received a conviction. A later expungement of the conviction will not negate a conviction unless it is proved to the OCMI that the expungement is based upon a showing that the court's earlier conviction was in error.

Designated examiner means a person who has been trained or instructed in techniques of training or assessment and is otherwise qualified to evaluate whether a candidate for a license, document, or endorsement has achieved the level of competence required to hold the license, document, or endorsement. This person may be designated by the Coast Guard, or by a Coast Guard-approved or accepted program of training or assessment. A faculty member employed at a State maritime academy or the U.S. Merchant Marine Academy operated in accordance with regulations in 46 CFR part 310 and instructing in a navigation or engineering course is qualified to serve as a designated examiner in his or her area(s) of specialization without individual evaluation by the Coast Guard.

Evaluation means processing an application, from the point of receipt to approval or rejection of the application, including review of all documents and records submitted with an application as well as those obtained from public records and databases.

Fails a chemical test for dangerous drugs means that the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as “positive” for the presence of dangerous drugs or drug metabolites in an individual's system by a Medical Review Officer in accordance with that part.

National Driver Register (NDR) means the nationwide repository of information on drivers maintained by the National Highway Traffic Safety Administration as provided under 49 U.S.C. Chapter 303.

NDR listed convictions means a conviction of any of the following motor vehicle-related offenses or comparable offenses:

(a) Operating a motor vehicle while under the influence of, or impaired by, alcohol or a controlled substance; or
(b) A traffic violation arising in connection with a fatal traffic accident, reckless driving, or racing on the highways.

Original document means the first merchant mariner's document issued to any person by the Coast Guard.

Passes a chemical test for dangerous drugs means the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as “negative” by a Medical Review Officer in accordance with that part.

Practical demonstration means the performance of an activity under the direct observation of a designated examiner for the purpose of establishing that the performer is sufficiently proficient in a practical skill to meet a specified standard of competence or other objective criterion.

Qualified instructor means a person who has been trained or instructed in instructional techniques and is otherwise qualified to provide required training to candidates for licenses, documents, and endorsements. A faculty member employed or at a State maritime academy or the U.S. Merchant Marine Academy operated in accordance with 46 CFR part 310 and instructing in a navigation or engineering course is qualified to serve as a qualified instructor in his or her area(s) of specialization without individual evaluation by the Coast Guard.

Qualified rating means various categories of Able Seaman, Qualified Member of the Engine Department, Lifeboatman, or Tankerman endorsements on merchant mariner's documents.
§ 12.01–7 Standard of competence means the level of proficiency to be achieved for the proper performance of duties on board vessels in accordance with national and international criteria.


STCW Code means the Seafarer’s Training, Certification and Watchkeeping Code.

STCW endorsement means a certificate or endorsement issued in accordance with STCW. An STCW endorsement issued by the Officer in Charge, Marine Inspection (OCMI), will be valid only when accompanied by the appropriate U.S. license or document; and, if the license or document is revoked, then the associated STCW endorsement will no longer be valid for any purpose. References to STCW placed on a U.S. license or merchant mariner’s document will suffice as STCW endorsements for the mariner serving on a vessel operating exclusively on a domestic voyage (i.e., to and from U.S. ports or places subject to U.S. jurisdiction).

§ 12.01–9 Paperwork approval.

(a) This section lists the control numbers assigned by the Office of Management and Budget under the Paperwork Reduction Act of 1980 (Pub. L. 96–511) for the reporting and record keeping requirements in this part.

(b) The following control numbers have been assigned to the sections indicated:

(1) OMB 2115–0624—46 CFR 12.02–17 and 12.03–1.

(2) [Reserved]

§ 12.02–3 Where documents are issued.

(a) Certificates of identification, certificates of service, certificates of efficiency, and continuous discharge books are issued to applicants qualifying therefor at any Marine Inspection Office of the Coast Guard during usual business hours.

(b)(1) Coast Guard Merchant Marine Details abroad are authorized to conduct examinations for upgrading of seamen, but are not prepared to conduct the physical examination where required. Merchant Marine Details will therefore not issue regular certificates, but temporary permits in lieu thereof. Merchant Marine Details will instruct the recipient of each temporary permit to present it to the Officer in Charge, Marine Inspection, upon arrival in the first port in the United States in which a Marine Inspection Office is located in order to exchange it for a permanent certificate.

(2) The temporary permit shall be accepted in a Marine Inspection Office as proof that the bearer has complied with the rules and regulations governing the issuance of certificates, except as noted in the body of the temporary permit. The requirements noted in the exceptions will be complied with as in the case of other applicants.

(3) The written examinations are forwarded to the Commanding Officer, National Maritime Center by Merchant Marine Details, and any Marine Inspection Office at which an applicant with a temporary permit appears may request and obtain the examination in

§ 12.01–7 Regional Examination Centers.

Licensing and Certification functions are performed only by the Officer in Charge, Marine Inspection, at the following locations:

<table>
<thead>
<tr>
<th>Location</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston, MA</td>
<td>Toledo, OH</td>
</tr>
<tr>
<td>New York, NY</td>
<td>Long Beach, CA</td>
</tr>
<tr>
<td>Baltimore, MD</td>
<td>San Francisco, CA</td>
</tr>
<tr>
<td>Charleston, SC</td>
<td>Seattle, WA</td>
</tr>
<tr>
<td>Miami, FL</td>
<td>Anchorage, AK</td>
</tr>
<tr>
<td>New Orleans, LA</td>
<td>Juneau, AK</td>
</tr>
<tr>
<td>Houston, TX</td>
<td>Honolulu, HI</td>
</tr>
<tr>
<td>Memphis, TN</td>
<td>Portland, OR</td>
</tr>
<tr>
<td>St. Louis, MO</td>
<td></td>
</tr>
</tbody>
</table>

Where the term Officer in Charge, Marine Inspection, or Marine Inspection Office is used within the context of this part it is to mean that Officer or Office at one of the above listed locations.

[CGD 82–033, 47 FR 28679, July 1, 1982, as amended by CGD 91–002, 58 FR 15239, Mar. 19, 1993]
§ 12.02-4 Basis for denial of documents.

(a) No person who has been convicted by a court of record of a violation of the dangerous drug laws of the United States, the District of Columbia, or any State or territory of the United States is eligible for an original merchant mariner’s document, except as provided by the provisions of paragraph (c) of this section. No person who has ever been the user of, or addicted to the use of, a dangerous drug, or has ever been convicted of an offense described in section 205 of the National Driver Register Act of 1982 (49 U.S.C. 30304) due to the addiction or abuse of alcohol is eligible for a merchant mariner’s document unless he or she furnishes satisfactory evidence of suitability for service in the merchant marine as provided in paragraph (e) of this section.

(b) An applicant who fails a chemical test for dangerous drugs required by §12.02-9 will not be issued a merchant mariner’s document.

(c) Criminal Record Review. The Officer in Charge, Marine Inspection, may require a criminal record check of an applicant for a merchant mariner’s document issued as an original or reissued with a new expiration date. An applicant conducting simultaneous merchant mariner’s credential transactions shall undergo only one criminal record check. Applicants must provide written disclosure of all prior convictions at the time of application.

(1) If a criminal record check is required by the Officer in Charge, Marine Inspection, applicants shall provide fingerprints at the time of application. The fingerprints will be used to determine whether the applicant has a record of a criminal conviction. An application may be disapproved if the individual’s criminal record leads the Officer in Charge, Marine Inspection to determine that the applicant cannot be entrusted with the duties and responsibilities of the merchant mariner’s document for which application is made. If an application is disapproved, the Officer in Charge, Marine Inspection will notify the applicant in writing of the reason(s) for disapproval and advise the applicant that the appeal procedures in §1.03 of this chapter apply. No examination will be given pending decision on appeal.

(2) The Officer in Charge, Marine Inspection will use table 12.02-4(c) to evaluate applicants for merchant mariner’s documents who have criminal convictions. The table lists major categories of criminal activity and is not to be construed as an all-inclusive list. If an applicant is convicted of an offense that does not appear on the list, the Officer in Charge, Marine Inspection will establish an appropriate assessment period using the list as a guide. The assessment period commences when an applicant is no longer incarcerated. The applicant must establish proof of the time incarcerated and periods of probation and parole to the satisfaction of the Officer in Charge, Marine Inspection. The assessment period may include supervised or unsupervised probation or parole. A conviction for a drug offense more than 10 years prior to the date of application will not alone be grounds for denial.

(3) When an applicant has convictions for more than one offense, the minimum assessment period will be the longest minimum in table 12.02-4(c) and table 12.02-4(d) based upon the applicant’s convictions; the maximum assessment period will be the longest shown in table 12.02-4(c) and table 12.02-4(d) based upon the applicant’s convictions.

(4) If a person with a criminal conviction applies for a merchant mariner’s document before the minimum assessment period shown in table 12.02-4(c), or established by the Officer in Charge, Marine Inspection under paragraph (c)(2) of this section has elapsed, then the applicant must provide, as part of
the application package, evidence of suitability for service in the merchant marine. Factors which are evidence of suitability for service in the merchant marine are listed in paragraph (e) of this section. The Officer in Charge, Marine Inspection will consider the applicant’s evidence submitted with the application and may issue the merchant mariner’s document in less than the listed minimum assessment period if the Officer in Charge, Marine Inspection is satisfied that the applicant is suitable to hold the merchant mariner’s document for which he or she has applied. If an application filed before the minimum assessment period has elapsed does not include evidence of suitability for service in the merchant marine, then the application will be considered incomplete and will not be processed by the Officer in Charge, Marine Inspection until the applicant provides the necessary evidence as set forth in paragraph (e) of this section.

(5) If a person with a criminal conviction applies for a merchant mariner’s document during the time between the minimum and maximum assessment periods shown in table 12.02-4(c) or established by the Officer in Charge, Marine Inspection under paragraph (c)(2) of this section, then the Officer in Charge, Marine Inspection shall consider the conviction and, unless there are offsetting factors, shall grant the applicant the merchant mariner’s document for which he or she has applied. The Officer in Charge, Marine Inspection may disapprove the application.

(6) If a person with a criminal conviction applies for a merchant mariner’s document after the maximum assessment period shown in table 12.02-4(c) or established by the Officer in Charge, Marine Inspection under paragraph (c)(2) of this section has elapsed, then the Officer in Charge, Marine Inspection will grant the applicant the merchant mariner’s document for which he or she has applied unless the Officer in Charge, Marine Inspection considers the applicant still unsuitable for service in the merchant marine. If the Officer in Charge, Marine Inspection disapproves an applicant with a conviction older than the maximum assessment period listed in table 12.02-4(c), the Officer in Charge, Marine Inspection will notify the applicant in writing of the reason(s) for the disapproval including the Officer in Charge, Marine Inspection’s reason(s) for considering a conviction older than the maximum assessment period listed in table 12.02-4(c). The Officer in Charge, Marine Inspection will also inform the applicant, in writing, that the reconsideration and appeal procedures contained in §1.03 of this chapter apply.

<table>
<thead>
<tr>
<th>Crime 1</th>
<th>Assessment periods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
</tr>
<tr>
<td>Crimes Against Persons</td>
<td></td>
</tr>
<tr>
<td>Homicide (intentional)</td>
<td>7 years</td>
</tr>
<tr>
<td>Homicide (unintentional)</td>
<td>5 years</td>
</tr>
<tr>
<td>Assault (aggravated)</td>
<td>5 years</td>
</tr>
<tr>
<td>Assault (simple)</td>
<td>1 year</td>
</tr>
<tr>
<td>Sexual Assault (rape, child molestation)</td>
<td>5 years</td>
</tr>
<tr>
<td>Other crimes against persons2.</td>
<td></td>
</tr>
<tr>
<td>Vehicular Crimes</td>
<td></td>
</tr>
<tr>
<td>Conviction involving fatality</td>
<td>1 year</td>
</tr>
<tr>
<td>Reckless Driving</td>
<td>1 year</td>
</tr>
<tr>
<td>Racing on the Highway</td>
<td>1 year</td>
</tr>
</tbody>
</table>
TABLE 12.02-4(C)—GUIDELINES FOR EVALUATING APPLICANTS FOR MERCHANT MARINER’S DOCUMENTS WHO HAVE CRIMINAL CONVICTIONS—Continued

<table>
<thead>
<tr>
<th>Crime 1</th>
<th>Assessment periods</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other vehicular crimes 2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crimes Against Public Safety</td>
<td>Destruction of Property</td>
<td>5 years</td>
<td>10 years.</td>
</tr>
<tr>
<td>Other crimes against public safety 2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crimes Involving National Security</td>
<td>Terrorism, Acts of Sabotage, Espionage and related offenses</td>
<td>7 years</td>
<td>20 years.</td>
</tr>
<tr>
<td>Dangerous Drug Offenses 3,4,5</td>
<td>Trafficking (sale, distribution, transfer)</td>
<td>5 years</td>
<td>10 years.</td>
</tr>
<tr>
<td>Dangerous drugs (Use or possession)</td>
<td>1 year</td>
<td>10 years.</td>
<td></td>
</tr>
<tr>
<td>Other dangerous drug convictions 4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Conviction of attempts, solicitations, aiding and abetting, accessory after the fact, and conspiracies to commit the criminal conduct listed in this table carry the same minimum and maximum assessment periods provided in the table.
2 Other crimes are to be reviewed by the Officer in Charge, Marine Inspection to determine the minimum and maximum assessment periods depending on the nature of the crime.
3 Applicable to original applications only. Any applicant who has ever been the user of, or addicted to the use of, a dangerous drug shall meet the requirements of paragraph (a) of this section. Note: Applicants for reissue of a merchant mariner’s document with a new expiration date including a renewal or additional endorsement(s), who have been convicted of a dangerous drug offense while holding a merchant mariner’s document, may have their application withheld until appropriate action has been completed by the Officer in Charge, Marine Inspection under the regulations which appear in 46 CFR part 5 governing the administrative actions against merchant mariner credentials.
4 The OCMI may consider dangerous drug convictions more than 10 years old only if there has been a dangerous drug conviction within the past 10 years.
5 Applicants must demonstrate rehabilitation under paragraph (e) of this section, including applicants with dangerous drug use convictions more than ten years old.
6 Other dangerous drug convictions are to be reviewed by the Officer in Charge, Marine Inspection on a case by case basis to determine the appropriate assessment period depending on the nature of the offense.

(d) National Driver Register. A merchant mariner’s document will not be issued or reissued with a new expiration date unless the applicant consents to a check of the NDR for offenses described in section 205(a)(3)(A) or (B) of the NDR Act (i.e., operation of a motor vehicle while under the influence of, or impaired by, alcohol or a controlled substance; and any traffic violations arising in connection with a fatal traffic accident, reckless driving, or racing on the highways). The Officer in Charge, Marine Inspection will not consider NDR listed civil convictions that are more than 3 years old from the date of request unless that information relates to the current suspension or revocation of the applicant’s license to operate a motor vehicle. The Officer in Charge Marine Inspection may determine minimum and maximum assessment periods for NDR listed criminal convictions using table 12.02-4(c). An applicant conducting simultaneous merchant mariner’s credential transactions is subject to only one NDR check.

1 Conviction of attempts, solicitations, aiding and abetting, accessory after the fact, and conspiracies to commit the criminal conduct listed in this table carry the same minimum and maximum assessment periods provided in the table.
2 Other crimes are to be reviewed by the Officer in Charge, Marine Inspection to determine the minimum and maximum assessment periods depending on the nature of the crime.
3 Applicable to original applications only. Any applicant who has ever been the user of, or addicted to the use of, a dangerous drug shall meet the requirements of paragraph (a) of this section. Note: Applicants for reissue of a merchant mariner’s document with a new expiration date including a renewal or additional endorsement(s), who have been convicted of a dangerous drug offense while holding a merchant mariner’s document, may have their application withheld until appropriate action has been completed by the Officer in Charge, Marine Inspection under the regulations which appear in 46 CFR part 5 governing the administrative actions against merchant mariner credentials.
4 The OCMI may consider dangerous drug convictions more than 10 years old only if there has been a dangerous drug conviction within the past 10 years.
5 Applicants must demonstrate rehabilitation under paragraph (e) of this section, including applicants with dangerous drug use convictions more than ten years old.
6 Other dangerous drug convictions are to be reviewed by the Officer in Charge, Marine Inspection on a case by case basis to determine the appropriate assessment period depending on the nature of the offense.
applicable State concerning driving record and convictions to the Coast Guard Regional Examination Center (REC) processing the application. The REC will hold an application with NDR listed convictions pending the completion of the evaluation and delivery by the individual of the underlying State records.

(3) The guidelines in table 12.02-4(d) will be used by the Officer in Charge, Marine Inspection when evaluating applicants for merchant mariner’s documents who have drug or alcohol related NDR listed convictions. Non-drug or alcohol related NDR listed convictions will be evaluated by the Officer in Charge, Marine Inspection under table 12.02-4(c) as applicable.

(4) An applicant may request an NDR file check for personal use in accordance with the Federal Privacy Act of 1974 (Pub. L. 93-579) by contacting the NDR at the following address: National Driver Register, Nassif Building, 400 7th Street SW., Washington, DC 20590.

(i) Applicants should request Form NDR-PRV or provide the following information on a notarized letter:
(A) Full legal name;
(B) Other names used;
(C) Complete mailing address;
(D) Driver license number;
(E) Eye color;
(F) Social security number;
(G) Height;
(H) Weight; and
(I) Sex.

(ii) The NDR will respond to every valid inquiry including requests which produce no record(s) on the NDR file. Records can be made available, within a reasonable amount of time after the request, for personal inspection and copying during regular working hours at 7:45 a.m. to 4:15 p.m., each day except Federal holidays.

<table>
<thead>
<tr>
<th>No. of convictions</th>
<th>Date of conviction</th>
<th>Assessment period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Less than 1 year</td>
<td>1 year from date of conviction.</td>
</tr>
<tr>
<td>1</td>
<td>More than 1, less than 3 years</td>
<td>Application will be processed, unless suspension, or revocation is still in effect.</td>
</tr>
<tr>
<td>1</td>
<td>More than 3 years old</td>
<td>Not necessary unless suspension or revocation is still in effect.</td>
</tr>
<tr>
<td>2 or more</td>
<td>Any less than 3 years old</td>
<td>1 year since last conviction and at least 3 years from 2nd most recent conviction, unless suspension or revocation is still in effect.</td>
</tr>
<tr>
<td>2 or more</td>
<td>All more than 3 years old</td>
<td>Application will be processed unless suspension or revocation is still in effect.</td>
</tr>
</tbody>
</table>

1 Any applicant who has ever been the user of, or addicted to the use of, a dangerous drug shall meet the requirements of paragraph (a) of this section.
2 Suspension or revocation, when referred to in table 12.02-4(d), means a State suspension or revocation of a motor vehicle operator’s license.

(e) If an applicant for an original merchant mariner’s document has one or more alcohol or dangerous drug related criminal or NDR listed convictions; if the applicant has ever been the user of, or addicted to the use of, a dangerous drug; or if the applicant applies before the minimum assessment period for his or her conviction has elapsed; the Officer in Charge, Marine Inspection may consider the following factors, as applicable, in assessing the applicant’s suitability to hold a merchant mariner’s document. This list is intended as a guideline. The Officer in Charge, Marine Inspection may consider other factors which he or she judges appropriate, such as:

(1) Proof of completion of an accredited alcohol- or drug-abuse rehabilitation program.
(2) Active membership in a rehabilitation or counseling group, such as Alcoholics or Narcotics Anonymous.
(3) Character references from persons who can attest to the applicant’s sobriety, reliability, and suitability for employment in the merchant marine including parole or probation officers.
(4) Steady employment.
(5) Successful completion of all conditions of parole or probation.

§ 12.02–7 When documents are required.

(a) Every seaman employed on any merchant vessel of the United States of 100 gross tons or upward, except vessels employed exclusively in trade on the navigable rivers of the United States, shall be issued, at the option of the seaman, a continuous discharge book, a certificate of identification, or merchant mariner's document representing such certificate, which shall be retained by him. This book or certificate of identification or merchant mariner's document will bear a number, and this same number shall be shown on all certificates of service or efficiency issued to the holder of the book or certificate or document. Provisions of this section are not applicable to unrigged vessels except seagoing barges and certain tank barges.

(b) Every seaman, as referred to in paragraph (a) of this section, shall produce a continuous discharge book or certificate of identification or merchant mariner's document representing such a certificate to the United States shipping commissioner before signing Articles of Agreement, and where the seaman is not signed on before a shipping commissioner, one of these documents shall be exhibited to the master of the vessel at the time of his employment. Seamen who do not possess one of these documents may be employed at a foreign port or place.

(c)(1) Every person employed on any merchant vessel of the United States of 100 gross tons and upward, except those navigating rivers exclusively and the smaller inland lakes, below the rank of licensed officer and registered staff officer, shall possess a valid certificate of service, or merchant mariner's document representing such certificate, issued by an Officer in Charge, Marine Inspection.

(2) No certificate of service or efficiency is required of any person below the rank of licensed officer employed on any unrigged vessel except seagoing barges and certain tank barges.

(3) No certificate of service or efficiency is required of any person below the rank of licensed officer employed on any sail vessel of less than 500 net tons while not carrying passengers for hire and while not operating outside the line dividing inland waters from the high seas, as defined in section 2 of the act of February 19, 1895, as amended (33 U.S.C. 151) and in 33 CFR part 82.

(d) After January 31, 1997, each person serving as a rating forming part of a navigational watch on a seagoing ship of 500 gross tons or more shall hold an STCW endorsement certifying him or her as qualified to perform the navigational function at the support level, in accordance with STCW.

(e) After January 31, 2002, each person serving as a rating forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room, on a seagoing ship driven by main propulsion machinery of 750 kW [1,000 hp] of propulsion power or more, shall hold an STCW endorsement certifying him or her as qualified to perform the marine-engineering function at the support level, in accordance with STCW.

(f) Notwithstanding any other rule in this part, no unlicensed person serving on any of the following vessels needs hold an STCW endorsement, either because he or she is exempt from application of the STCW, or because the vessels are not subject to further obligation under STCW, on account of their special operating conditions as small vessels engaged in domestic voyages:

(1) Small passenger vessels subject to subchapter T or K of title 46, CFR.
§ 12.02–9 Application for documents.

(a) An applicant for a certificate of service, certificate of efficiency, certificate of identification, continuous discharge book, or merchant mariner’s document, shall make written application, in duplicate, on Coast Guard Form CG–719–b and shall appear in person before an Officer in Charge, Marine Inspection, or other person authorized to issue documents. This application may be for the certificates or the rating endorsement for which the seaman believes he is qualified. In the case of a seaman applying for his first certificate, other than certificate of identification, the application shall include a request for either a continuous discharge book or a merchant mariner’s document representing a certificate of identification, at the option of the applicant.

(b)(1) When the application is submitted for a certificate of identification, the application shall include a request for either a continuous discharge book or a merchant mariner’s document representing a certificate of identification, at the option of the applicant.

(b)(2) When the application requests a continuous discharge book in addition to a certificate of service or certificate of efficiency or merchant mariner’s document, one additional photograph shall be furnished.

(b)(3) When the application is submitted for a certificate of service or certificate of efficiency, the applicant shall furnish three unmounted dull finish photographs of passport type (2 inches by 1½ inches) taken within one year and showing the full face at least one inch in height with head uncovered.

(c) An applicant for a document where sea service is required shall produce with his application discharges or other documentary evidence of his service, indicating the name of the vessels and dates on which he has had service, in what capacity and on what waters.

(d) If the applicant possesses a continuous discharge book, certificate of identification, or merchant mariner’s document representing such certificate, it shall be exhibited at the time of making application for any other document.

(e) Approved applications are valid for 12 months.

(f) Except for applicants requesting an inactive merchant mariner’s document renewal under §12.02–27(g) of this part, to obtain an original issuance of a merchant mariner’s document, the first endorsement as an able seaman, lifeboatman, qualified member of the engine department, or tankerman, or a reissuance of a merchant mariner’s document with a new expiration date, each applicant shall present evidence of having passed a chemical test for dangerous drugs or of qualifying for an exception from testing in §16.220 of this subchapter.

(g) Each applicant for an original merchant mariner’s document may be required to submit to a criminal record check as required by §12.02–4(c).

(h) Each applicant for an original merchant mariner’s document or a merchant mariner’s document reissued with a new expiration date shall comply with the NDR requirements in §12.02–4(d).

§ 12.02–10 Applications for documents from aliens.

(a) No application from an alien for a certificate of service, certificate of efficiency, certificate of identification, continuous discharge book, or merchant mariner’s document shall be accepted unless the alien presents acceptable documentary evidence from the United States Immigration and Naturalization Service that he is lawfully
Coast Guard, DOT § 12.02-11

General provisions respecting merchant mariners’ documents.

(a) As provided in §12.02-5, every certificate of service, certificate of efficiency, or certificate of identification issued or reissued shall be in the form of a merchant mariner’s document, Coast Guard Form CG-2838.

(b) Any licensed officer or unlicensed seaman currently holding, in a valid status, any of the documents listed in paragraph (a) of this section may, upon request and without examination, be issued a merchant mariner’s document.

(c) A merchant mariner’s document shall be a certificate of service authorizing the holder to serve in any rating endorsed thereon, or in any lower rating in the same department, or in any rating covered by a general endorsement thereon.

(d)(1) A merchant mariner’s document issued to a licensed deck officer will be endorsed for any unlicensed rating in the deck department except able seaman, and will be a certificate of service authorizing the holder to serve in any unlicensed capacity in the deck department except able seaman without being required to present his license. If a licensed deck officer qualifies as able seaman the merchant mariner’s document will be endorsed, any unlicensed rating in the deck department including able seaman, and such endorsement will be deemed to include a certificate of efficiency as lifeboatman.

(2) A merchant mariner’s document issued to an engineer officer licensed for inspected vessels of over 2,000 horsepower will be endorsed for any unlicensed rating in the engine department, and will be a certificate of service authorizing the holder to serve in any unlicensed capacity in the engine department without being required to present his license. If a licensed engineer qualifies as a lifeboatman, the further endorsement, lifeboatman, will be placed on the merchant mariner’s document. A merchant mariner’s document issued to a licensed radio officer will be endorsed as follows: See License as Radio Officer. If a licensed radio operator qualifies as a lifeboatman, the further endorsement, Lifeboatman, will be placed on the merchant mariner’s document. Qualifications for other ratings for which a radio officer is eligible may also be endorsed on the document.

(e)(1) A merchant mariner’s document issued to a staff officer will be endorsed as follows: See Certificate of Registry. The holder of a certificate of registry as chief purser, purser, senior assistant purser, or junior assistant purser may also serve in any capacity in the staff department not requiring a certificate of registry without obtaining an additional endorsement on his merchant mariner’s document.

(2) The authorized holder of any valid merchant mariner’s document, however endorsed, may serve in any capacity in the staff department of a vessel, except in those capacities requiring registered staff officers: Provided, That whenever such service includes the handling of food no person may be so employed unless his document bears the food handler’s endorsement “(F.H.).”

(f) A merchant mariner’s document endorsed as able seaman or as lifeboatman shall be a certificate of efficiency as lifeboatman.

(g) Every merchant mariner’s document shall be a certificate of identification unless the holder also holds a continuous discharge book. The holder of a certificate of identification in the form issued before November 1, 1945, shall surrender that certificate before he is issued a merchant mariner’s document.

(h) When a merchant mariner’s document is issued, renewed, or endorsed, the Officer in Charge, Marine Inspection, will determine whether the holder of the document is required to hold an STCW endorsement for service on a seagoing vessel, and then, if the holder is qualified, the Officer in Charge, Marine Inspection will issue the appropriate endorsement. The Officer in Charge, Marine Inspection will also
§ 12.02-13 Citizenship requirements.

(a) Any person making application for a continuous discharge book or a certificate of identification or a merchant mariner's document representing a certificate of identification and claiming to be a citizen of the United States shall present acceptable evidence of such citizenship at the time of making application. No original document shall be issued to any person claiming to be a citizen of the United States until such citizenship is established by acceptable evidence.

(b) Any person who has been issued a continuous discharge book or certificate of identification or merchant mariner's document showing question marks prior to the effective date of this section may at any time produce additional evidence of citizenship to a shipping commissioner or Officer in Charge, Marine Inspection. If the additional evidence produced satisfies the shipping commissioner or the Officer in Charge, Marine Inspection, to whom it is presented that the same is acceptable evidence of the citizenship of the person, such official may draw lines through the question marks and note the citizenship of the person in the space provided therefor, attesting the change, or reissue the certificate or document. Whenever such changes are made the official making the change shall immediately thereafter notify the Commanding Officer, National Maritime Center.

(c) Acceptable evidence of citizenship is set forth in §10.02-5 of this subchapter.

§ 12.02-14 Nationality of aliens.

(a) Any alien making application for a continuous discharge book or certificate of identification or merchant mariner's document representing a certificate of identification shall present acceptable evidence of nationality at the time of making application. No original document shall be issued to any alien until nationality is established by acceptable evidence.

(b) Any document of an official character showing the country of which the alien is a citizen or subject may be accepted as acceptable evidence of an alien's nationality. The following are examples of such a document:

(1) Declaration of intention to become a citizen of the United States made by the alien after 1929.

(2) A travel document in the nature of a passport issued by the government of the country of which the alien is a citizen or subject.

(3) A certificate issued by the consular representative of the country of which the alien is a citizen or subject.

(c) Should any doubt arise as to whether or not the document presented may be considered as acceptable evidence of the alien's nationality, the
§ 12.02–15 Oath requirement.

Applicants for a merchant mariner’s document for any rating shall take an oath before an Officer in Charge, Marine Inspection, or other official authorized to give such oath, or a commissioned officer of the Coast Guard authorized to administer oaths under 10 U.S.C. 936 or 14 U.S.C. 636, that they will faithfully and honestly perform all the duties required of them by law and carry out all lawful orders of superior officers on shipboard. Such an oath remains binding for all subsequent merchant mariner’s documents issued to a person until the document is surrendered to the Officer in Charge, Marine Inspection.

[CGD 91–211, 59 FR 49300, Sept. 27, 1994]

§ 12.02–17 Rules for the preparation and issuance of documents.

(a) Upon application of a person for a merchant mariner’s document, any required examination will be given as soon as practicable.

(b) Upon determining that the applicant satisfactorily meets all requirements for the document and any endorsements requested, the Officer in Charge, Marine Inspection, shall issue the appropriate document to the applicant. A merchant mariner’s document is valid for a term of 5 years from the date of issuance. Any document which is renewed or reissued prior to its expiration date automatically becomes void upon issuance of the replacement document.

(c) When a seaman applies for a merchant mariner’s document, he must:

(1) Sign the document; and

(2) Impress his left thumbprint on the document; or

(3) Impress his right thumbprint on the document if his left thumb is missing.

(d) A seaman’s social security number is placed on his document and is his official identification number for record purposes.

(e) After July 31, 1998, an applicant for a merchant mariner’s document who will be serving on a seagoing vessel of 200 GRT or more shall provide a document issued by a qualified medical practitioner attesting the applicant’s medical fitness to perform the functions for which the document is issued.

(f) An applicant for a certificate of service or efficiency who has been duly examined and refused a certificate by an Officer in Charge, Marine Inspection may come before the same Officer in Charge, Marine Inspection for reexamination at any time after the date of the initial examination. The Officer in Charge, Marine Inspection sets the time of reexamination based on the applicant’s performance on the initial examination. However, the maximum waiting period after the initial failure will be 30 days, and the maximum waiting period after a second or subsequent failure will be 90 days.

(g) An applicant who has been examined and refused a certificate by an Officer in Charge, Marine Inspection may not make application for examination to any other Officer in Charge, Marine Inspection until 30 days after the applicant’s last failure of an examination or reexamination. However, an applicant may apply for examination by another Officer in Charge, Marine Inspection before the expiration of the 30 day period if sanctioned by the Officer in Charge, Marine Inspection who refused the applicant.


§ 12.02–18 Fees.

(a) Use table 12.02–18 to determine the fees that you must pay for merchant mariner document activities in this part.

(b) Unless otherwise specified in this part, when two documents are processed on the same application—

(1) Evaluation fees. If a merchant mariner document transaction is processed on the same application as a license or certificate of registry transaction, only the license or certificate of registry evaluation fee will be charged;
(2) Examination fees. If a license examination under part 10 also fulfills the examination requirements in this part for a merchant mariner document, only the fee for the license examination is charged; and

(3) Issuance fees. A separate issuance fee will be charged for each document issued.

(c) You may pay—

(1) All fees required by this section when you submit your application; or

(2) A fee for each phase at the following times:

(i) An evaluation fee when you submit your application.

(ii) An examination fee before you take the first examination section.

(iii) An issuance fee before you receive your merchant mariner document.

(d) If you take your examination someplace other than a Regional Examination Center (REC), you must pay the examination fee to the REC at least one week before your scheduled examination date.

(e) Unless the REC provides additional payment options, your fees may be paid as follows:

(1) Your fee payment must be for the exact amount.

(2) Make your check or money order payable to the U.S. Coast Guard, and write your social security number on the front of each check or money order.

(3) If you pay by mail, you must use either a check or money order.

(4) If you pay in person, you may pay with cash, check, or money order at Coast Guard units where Regional Examination Centers are located.

(f) The Coast Guard may assess charges for collecting delinquent payments or returned checks. The Coast Guard will not provide documentation services to a mariner who owes money for documentation services previously provided.

### Table 12.02-18—Fees

<table>
<thead>
<tr>
<th>If you apply for—</th>
<th>And you need—</th>
<th>Evaluation—Then the fee is—</th>
<th>Examination—Then the fee is—</th>
<th>Issuance—Then the fee is—</th>
</tr>
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<tr>
<td>Merchant Mariner Document:</td>
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<tr>
<td>Original:</td>
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<td></td>
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<tr>
<td>Without endorsement</td>
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<td>n/a</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>With endorsement</td>
<td>$95</td>
<td>$140</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Endorsement for qualified rating</td>
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<td>$140</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Upgrade or Raise in Grade</td>
<td>$95</td>
<td>$140</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Renewal without endorsement</td>
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<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Renewal for qualified rating</td>
<td>$50</td>
<td>$45</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Renewal for continuity purposes</td>
<td>n/a</td>
<td>n/a</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>Reissue, Replacement, and Duplicate</td>
<td>n/a</td>
<td>n/a</td>
<td>$45.</td>
<td></td>
</tr>
<tr>
<td>STCW Certification:</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Original</td>
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<td>No fee</td>
<td>No fee.</td>
<td></td>
</tr>
<tr>
<td>Renewal</td>
<td>No fee</td>
<td>No fee</td>
<td>No fee.</td>
<td></td>
</tr>
<tr>
<td>Other Transactions:</td>
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<td></td>
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<td>Duplicate Continuous Discharge Book</td>
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<td>$10.</td>
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<tr>
<td>Duplicate record of sea service</td>
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<td>n/a</td>
<td>$10.</td>
<td></td>
</tr>
<tr>
<td>Copy of certificate of discharge</td>
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<td>n/a</td>
<td>$10.</td>
<td></td>
</tr>
</tbody>
</table>

1. Duplicate for document lost as result of marine casualty—No Fee.

Effective Date Note: By USCG–1997–2799, 64 FR 42815, Aug. 5, 1999; 64 FR 53231, Oct. 1, 1999, the table was corrected. For the convenience of the user, the superseded text is set forth follows:

§ 12.02–18 Fees.

(a) The following fees are required for merchant mariner’s document activities in this part:

(1) For evaluation for an original document, (does not apply if applicant holds a license or certificate of registry issued under part 10 of this chapter), $17.

(2) For evaluation for a merchant mariner’s document endorsed with a qualified rating:

(i) For an original merchant mariner’s document, $77.

(ii) For a merchant mariner’s document other than original, $60.
Coast Guard, DOT

§ 12.02-21

(iii) Where further evaluation is not required, such as when a merchant mariner’s document is issued incident to a license transaction, no fee.

(3) For administration of examination, $40.

(4) For issuance of a document, $35.

(5) For duplicate of a merchant mariner’s document issued in this part where a fee is required in § 12.02-23, $35.

(6) For a duplicate continuous discharge book, record of sea service, or copies of certificates of discharge, $10.

(7) For renewal of a merchant mariner’s document:

(i) For evaluation for renewal of a merchant mariner’s document endorsed with a qualified rating, $45.

(ii) For evaluation for renewal of a merchant mariner’s document when submitted with a license where a renewal evaluation fee already applies, no fee.

(iii) For evaluation for renewal of a merchant mariner’s document without qualified rating endorsement, no fee.

(iv) For administration of open-book exercises required by § 12.02-27, $40.

(v) For administration of MMD open-book exercises when required in addition to license open-book exercises for concurrent renewal of these documents, only the license exercise fee in § 10.109(c)(2) will apply.

(vi) For issuance of a renewal of a merchant mariner’s document including those issued for continuity purposes only, $35.

(b) Unless otherwise directed, the prescribed fee must be paid as follows:

(1) If an evaluation fee, at the time of application.

(2) If an examination fee, prior to taking the first examination section at a Regional Examination Center. For examinations administered at locations other than a Regional Examination Center, the examination fee must be received by the Regional Examination Center at least one week in advance of the scheduled examination date.

(3) If an issuance fee, prior to receiving the document.

(c) Prescribed fees must be paid by one of the following options:

(1) Mail-in. Payment by check or money order only, made payable to one of the following:

(i) U.S. Coast Guard;

(ii) U.S. Government;

(iii) U.S. Treasury;

(iv) U.S. Department of Transportation.

Fee payment must be made by check or money order with the applicant’s (payor’s) social security number included thereon.

(2) In-person. Fee payment will be accepted by cash, check, or money order at Coast Guard units where Regional Examination Centers are located. Where an applicant makes payment by cash, payment must be in the exact amount. A check or money order must be payable as specified in paragraph (c)(1) of this section.

(d) The following applies to anyone failing to pay a fee or charge established under this subpart:

(1) Anyone who fails to pay a fee or charge established under this subpart is liable to the United States Government for a civil penalty of not more than $5,000 for each violation.

(2) The Coast Guard may assess additional charges to anyone to recover collection and enforcement costs associated with delinquent payments of, or failure to pay, a fee. Coast Guard merchant mariner’s document services may also be withheld from anyone pending payment of outstanding fees owed to the Coast Guard for services already provided by Regional Examination Centers.

[CGD 91-002, 58 FR 15239, Mar. 19, 1993, as amended by CGD 91-211, 59 FR 49301, Sept. 27, 1994]

§ 12.02-19 Suspension or revocation of documents.

Any certificate of service or of efficiency or merchant mariner’s document representing such certificate(s) is subject to suspension or revocation on the same grounds and in the same manner and with like procedure as is provided in the case of suspension or revocation of licenses of officers under the provisions of 46 U.S.C. Chapter 77.

§ 12.02–23 Issuance of duplicate documents.

(a) If a seaman loses his continuous discharge book, merchant mariner's document or certificate of discharge by shipwreck or other casualty, he shall be supplied with a reissue of such documents free of charge. The phrase or other casualty as used in this section is interpreted to mean any damage to a ship caused by collision, explosion, tornado, wreck or flooding of the ship, such as a tidal wave or a grounding of the ship on a sand bar, or a beaching of the ship on a shore or by fire or other causes in a category with these mentioned.

(b) If a seaman loses a continuous discharge book, merchant mariner's document, or certificate of discharge otherwise than by shipwreck or other casualty and applies for a reissue, the appropriate fee set out in table 12.02–18 in § 12.02–18 is required.

(c) A person entitled to a duplicate merchant mariner's document, duplicate continuous discharge book, copies of certificates of discharge, or record of sea service may obtain the documents by applying at any Regional Examination Center listed in § 12.01–7 by:

1. Completing the application form provided by the Coast Guard; and
2. Paying the fee set out in table 12.02–18 in § 12.02–18.

(d) Each person issued a document described in § 12.02–5, shall report to an Officer in Charge, Marine Inspection, its loss.

(e) If a seaman's document or service record is missing, he may obtain a duplicate by following the procedures in paragraph (c) of this section and by:

1. Signing an affidavit before the Officer in Charge, Marine Inspection, or his designated representative, that explains the loss of his document or service record; and
2. Submitting at least two photographs for each duplicate document.

(f) No application from an alien for a duplicate merchant mariner's document shall be accepted unless the alien complies with the requirements of § 12.02–10.


§ 12.02–24 Reporting loss or recovery of continuous discharge book, merchant mariner's document, or certificate of discharge.

 Whenever a continuous discharge book, merchant mariner's document, or certificate of discharge is reported to an Officer in Charge, Marine Inspection (OCMI), as having been stolen, lost, or destroyed, the OCMI shall immediately report the fact by letter to the Commanding Officer, National Maritime Center giving all the facts incident to its loss or destruction. By the same procedure the OCMI shall report the recovery of a continuous discharge book, merchant mariner's document or certificate of discharge with all the facts incident to its recovery, and shall forward the recovered book, document, or discharge to the Commanding Officer, National Maritime Center.


§ 12.02–25 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88–033, 54 FR 50379, Dec. 6, 1989]
§ 12.02-27 Requirements for renewal of a merchant mariner’s document.

(a) General. Except as provided in paragraph (g) of this section, an applicant for renewal of a merchant mariner’s document shall establish possession of all of the necessary qualifications before a merchant mariner’s document is issued.

(1) Each application must be on a Coast Guard furnished form and accompanied by the evaluation fee established in table 12.02-18 in §12.02-18. An approved application is valid for 12 months.

(2) The applicant may apply in person at any Regional Examination Center listed in §12.01-7 or may renew the merchant mariner’s document by mail under paragraph (e)(3) of this section.

(3) The applicant shall submit the original or a photocopy of the merchant mariner’s document to be renewed. A photocopy must include the front and back of the merchant mariner’s document. If requested, the old document will be returned to the applicant.

(4) The expiration date of a merchant mariner’s document that was issued without an expiration date is determined in accordance with §12.02-29.

(b) Fitness. No merchant mariner’s document will be renewed if it has been suspended without probation or revoked as a result of action under part 5 of this chapter, or facts which would render a renewal improper have come to the attention of the Coast Guard.

(c) Professional requirements. (1) In order to renew a merchant mariner’s document endorsed with a qualified rating, the applicant shall comply with one of the following:

(i) Present evidence of at least 1 year of sea service during the last 5 years;

(ii) Pass a comprehensive, open-book exercise covering the general subject matter required by this part for the applicable endorsement or pass an open-book license exercise that covers the same subject matter required for the MMD endorsement;

(iii) Complete an approved refresher training course;

(iv) Present evidence of employment in a position closely related to the operation, construction, or repair of vessels (either deck or engineer as appropriate for the endorsement) for at least 3 years during the past 5 years.

(2) There are no professional requirements for renewal of a merchant mariner’s document that is not endorsed with any qualified ratings.

(d) Physical requirements. (1) An applicant for renewal of a merchant mariner’s document endorsed with a qualified rating other than lifeboatman, shall submit a certification by a licensed physician or physician assistant that he or she is in good health and has no physical impairment or medical condition which would render him or her incompetent to perform the ordinary duties of that qualified rating(s). This certification must address visual acuity and hearing in addition to general physical condition, and must have been completed within the previous 12 months.

(2) If the Officer in Charge, Marine Inspection has reason to believe that an applicant suffers from some physical impairment or medical condition which would render the applicant incompetent to perform the duties of the qualified rating(s) (other than lifeboatman), the applicant may be required to submit the results of an examination by a licensed physician or physician assistant that meets the requirements for originally obtaining the rating(s).

(e) Special circumstances—(1) Reissuance after expiration, Period of grace. Except as provided in this paragraph, a merchant mariner’s document may not be renewed more than 12 months after it has expired. To obtain a reissuance of a merchant mariner’s document expired more than 12 months, an applicant shall comply with the requirements of paragraph (f) of this section. When an applicant’s merchant mariner’s document expires during a time of service with the
§ 12.02–27  
Armed Forces and there is no reasonable opportunity for renewal, including by mail, this 12-month period of grace may be extended. The period of military service following the date of merchant mariner’s document expiration which precluded renewal may be added to the 12 month period of grace. The 12 month period of grace, and any extension, do not affect the expiration date of the document. A merchant mariner’s document, and any endorsements that it contains, are not valid for use after the expiration date.  
(2) Renewal in advance. A merchant mariner’s document may not be renewed more than 12 months before expiration unless it is being renewed in conjunction with a license or certificate of registry which is either due for renewal or being upgraded, or unless the Officer in Charge, Marine Inspection is satisfied that special circumstances exist to justify renewal.  
(3) Renewal by mail. (i) Applications for renewal of merchant mariner’s documents by mail may be sent to any Coast Guard Regional Examination Center. The following documents must be submitted:  
(A) A properly completed application on a Coast Guard furnished form, and the evaluation fee required by table 12.02–18 in § 12.02–18.  
(B) The document to be renewed, or, if it has not expired, a photocopy of the document, including the back.  
(C) A certification from a licensed physician or physician assistant in accordance with paragraph (d) of this section.  
(D) Evidence of, or acceptable substitute for, sea service in accordance with paragraph (c) of this section.  
(ii) The open-book exercise, if required, may be administered through the mail.  
(4) Concurrent renewal of merchant mariner’s documents, and licenses, or certificates of registry. An applicant for concurrent renewal of more than one merchant mariner credential shall satisfy the individual renewal requirements and pay the applicable fees required by tables in §§ 12.02–18 and 10.109 of this chapter for each merchant mariner’s document, license, or certificate of registry being renewed.  
(f) Reissuance of expired merchant mariner’s documents. (1) Whenever an applicant applies for reissuance of a merchant mariner’s document endorsed with qualified rating(s) more than 12 months after expiration, in lieu of the requirements of paragraph (c) of this section the applicant shall demonstrate continued professional knowledge for each qualified rating for which reissuance is sought by completing a course approved for this purpose or, by passing the complete examination for each rating, or by passing the examination for a related license required by §10.209(f)(1) of this chapter. The fees listed in tables in §§ 12.02–18 and 10.109 apply to these examinations.  
(2) A merchant mariner’s document without any qualified rating endorsements that has been expired more than 12 months shall be reissued in the same manner as a current merchant mariner’s document. There are no additional requirements for reissuing merchant mariner’s documents without qualified ratings that have been expired more than 12 months.  
(g) Inactive document renewal. (1) Applicants for renewal of merchant mariner’s documents that are endorsed with qualified ratings, who are unwilling or otherwise unable to meet the requirements of paragraphs (c) or (d) of this section may renew the merchant mariner’s document, with the following restrictive endorsement placed on the document: “Continuity only; service under document prohibited.” Holders of merchant mariner’s documents with this continuity endorsement may have the prohibition rescinded at any time by satisfying the renewal requirements in paragraphs (c) and (d) of this section and §12.02–9(f) of this part.  
(2) Applications for renewal of a document with the continuity endorsement must include:  
(i) The document to be renewed, or, if it is unexpired, a photocopy of the document including the back and,  
(ii) A signed statement from the applicant attesting to an awareness of
§ 12.02-29 Expiration of existing merchant mariner's documents.

The expiration year of a merchant mariner's document issued without an expiration date is calculated by adding 5-year increments to the issuance date of the document, up to the first applicable year falling between 1995 and 1999, inclusive. The day and month of expiration are the same as that of issuance. Table 12.02-29 is provided as an aid for calculating the expiration date of a document issued without an expiration date. A merchant mariner's document is not valid for use after the expiration date calculated under this section, but may be renewed in accordance with the requirements of § 12.02-27.

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<td>1940</td>
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</table>

Note: For the year in which the merchant mariner's document was issued (Issue Year), move up the column to find the Expiration Year. Month and day of expiration correspond to the month and day of issue.

[CGD 91-211, 59 FR 49300, Sept. 27, 1994]
§ 12.03-1

(4) Neither a specialist in a particular field of non-maritime education, such as mathematics or first aid, nor a person with at least 3 years of service as a member of the Armed Forces of the United States, specializing in a particular field, need hold a maritime license or document to conduct training in that field.

(5) A simulator may be used in training if—

(i) The simulator meets applicable performance standards;

(ii) The instructor has gained practical operational experience on the particular type of simulator being used; and

(iii) The instructor has received appropriate guidance in instructional techniques involving the use of simulators.

(6) Essential equipment and instructional materials must afford each student adequate opportunity to participate in exercises and acquire practice in performing required skills.

(7) A process for routinely assessing the effectiveness of the instructors, including the use of confidential evaluations by students, is in place.

(8) Documentary evidence is readily available to establish that any evaluation of whether a student is competent in accordance with standards, methods, and criteria set out in part A of the STCW Code is conducted by a designated examiner who has experience, training, or instruction in assessment techniques.

(9) Records of the student’s performance are maintained for at least 1 year by the offeror of the training and assessment.

(10) To ensure that the training is meeting its objectives, and the requirements of paragraphs (a) (1) through (9) of this section, its offeror must either—

(i) Be regulated as a maritime academy or marine academy pursuant to 46 CFR part 310; or

(ii) Monitor it in accordance with a Coast Guard-accepted QSS, which must include the following features:

(A) The training must be provisionally certified, on the basis of an initial independent evaluation conducted under a Coast Guard-accepted QSS, as being capable of meeting its stated objective.

(B) The training must be periodically monitored in accordance with the schedule stipulated under the Coast Guard-accepted quality-standards system.

(C) Each person conducting the initial evaluation or the subsequent periodic monitoring of the training shall be knowledgeable about the subjects being evaluated or monitored and about the national and international requirements that apply to the training, and shall not himself or herself be involved in the training and assessment of students.

(D) Each person evaluating or monitoring the training shall enjoy convenient access to all appropriate documents and facilities, and opportunities both to observe all appropriate activities and to conduct confidential interviews when necessary.

(E) Arrangements must be such as to ensure that no person evaluating or monitoring the training is penalized or rewarded, directly or indirectly, by the sponsor of the training for making any particular observations or for reaching any particular conclusions.

(11) Each person conducting the initial evaluation under paragraph (a)(10)(ii)(A) of this section or the periodic monitoring of the training under paragraph (a)(10)(ii)(B) of this section shall communicate his or her conclusions to the Commanding Officer, National Maritime Center, NMC-4B, 4200 Wilson Boulevard, suite 510, Arlington, VA 22203-1804, within 1 month of the completion or the evaluation of the monitoring.

(12) Each offeror of the training shall let the Coast Guard or someone authorized by the Coast Guard observe the records of a student’s performance and records otherwise relating to paragraphs (a) (1) through (10) of this section.

(b) The Coast Guard will maintain a list of training each of whose offerors submits a certificate, initially not less than 45 calendar days before offering training under this section, and annually thereafter, signed by the offeror or its authorized representative, stating that the training fully complies with
Coast Guard, DOT

§ 12.05–3

requirements of this section, and identifying the Coast Guard-accepted QSS being used for independent monitoring. Training on this list will offer the training necessary for licenses and STCW endorsements under this part. The Coast Guard will update this list periodically and make it available to members of the public on request.

(c) If the Coast Guard determines, on the basis of observations or conclusions either of its own or of someone authorized by it to monitor the training, that particular training does not satisfy one or more of the conditions described in paragraph (a) of this section—

1. The Coast Guard will so notify the offeror of the training by letter, enclosing a report of the observations and conclusions;

2. The offeror may, within a period specified in the notice, either appeal the observations or conclusions to the Commandant (G–MS) or bring the training into compliance; and

3. If the appeal is denied—or the deficiency is not corrected in the allotted period judged by the Coast Guard to be appropriate, considering progress towards compliance—the Coast Guard will remove the training from the list maintained under paragraph (b) of this section until it can verify full compliance; and it may deny applications for licenses for STCW endorsement based in whole or in part on training not on the list, until additional training or assessment is documented.


Subpart 12.05—Able Seamen

§ 12.05–1 Certification required.

(a) Every person employed in a rating as able seaman on any United States vessel requiring certificated able seamen, before signing articles of agreement, shall present to the master, his or her certificate as able seaman (issued in the form of a merchant mariner’s document).

(b) No certificate as able seaman is required of any person employed on any tug or towboat on the bays and sounds connected directly with the seas, or on any unrigged vessel except seagoing barges or tank barges.

(c) The following categories of able seaman are established:

1. Able Seaman—Any Waters, Unlimited.


3. Able Seaman—Special.

4. Able Seaman—Special (OSV).

[CGD 80–131, 45 FR 69240, Oct. 20, 1980]

§ 12.05–3 General requirements.

(a) To qualify for certification as able seaman an applicant must:

1. Be at least 18 years of age;

2. Pass the prescribed physical examination;

3. Meet the sea service or training requirements set forth in this part;

4. Pass an examination demonstrating ability as an able seaman and lifeboatman; and,

5. Speak and understand the English language as would be required in performing the general duties of able seaman and during an emergency aboard ship.

(b) An STCW endorsement valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as an able seaman also produces satisfactory evidence, on the basis of assessment of a practical demonstration of skills and abilities, of having achieved or maintained within the previous 5 years the minimum standards of competence for the following 4 areas of basic safety:

1. Personal survival techniques as set out in table A–VI/1–1 of the STCW Code.

2. Fire prevention and fighting as set out in table A–VI/1–2 of the STCW Code.


4. Personal safety and social responsibilities as set out in table A–VI/1–4 of the STCW Code.

(c) An STCW endorsement valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as able seaman meets the requirements of STCW Regulation II/4 and of Section A–II/4 of the STCW Code, if the candidate will be serving as a rating forming part of
§ 12.05-5 Physical requirements.

(a) All applicants for a certificate of service as able seaman shall be required to pass a physical examination given by a medical officer of the United States Public Health Service and present to the Officer in Charge, Marine Inspection, a certificate executed by the Public Health Service Officer. Such certificate shall attest to the applicant's acuity of vision, color sense, hearing, and general physical condition. In exceptional cases where an applicant would be put to great inconvenience or expense to appear before a medical officer of the United States Public Health Service, the physical examination and certification may be made by any other reputable physician.

(b) The medical examination for an able seaman is the same as for an original license as a deck officer as set forth in § 10.205 of this subchapter. If the applicant is in possession of an unexpired deck license, the Officer in Charge, Marine Inspection, may waive the requirement for a physical examination.

§ 12.05-7 Service or training requirements.

(a) The minimum service required to qualify an applicant for the various categories of able seaman is as listed in this paragraph.

(1) Able Seaman—Any Waters, Unlimited. Three years service on deck on vessels operating on the oceans or the Great Lakes.

(2) Able Seaman—Limited. Eighteen months service on deck in vessels of 100 gross tons or over which operate in a service not exclusively confined to the rivers and smaller inland lakes of the United States.

(3) Able Seaman—Special. Twelve months service on deck on vessels operating on the oceans, or the navigable waters of the United States including the Great Lakes.

(4) Able Seaman—Special (OSV). Six months service on deck on vessels operating on the oceans, or the navigable waters of the United States including the Great Lakes.

(5) After July 31, 1998, to receive an STCW endorsement for service as a "rating forming part of a navigational watch" on a seagoing ship of 500 GT or more, the applicant’s seagoing service must include training and experience associated with navigational watchkeeping and involve the performance of duties carried out under the direct supervision of the master, the officer in charge of the navigational watch, or a qualified rating forming part of a navigational watch. The training and experience must be sufficient to establish that the candidate has achieved the standard of competence prescribed in table A-I/4 of the STCW Code, in accordance with the methods of demonstrating competence and the criteria for evaluating competence specified in that table.

NOTE: Employment considerations for the various categories of able seaman are contained in §157.20-15 of this chapter.

(b) Training programs approved by the Commanding Officer, National Maritime Center, may be substituted for the required periods of service on deck as follows:

(1) A graduate of a school ship may be rated as able seaman upon satisfactory completion of the course of instruction. For this purpose, school ship is interpreted to mean an institution which offers a complete course of instruction, including a period of at sea training, in the skills appropriate to the rating of able seaman.

(2) Training programs, other than those classified as a school ship, may be substituted for up to one third of the required service on deck. The service/training ratio for each program is determined by the Commanding Officer, National Maritime Center, who may allow a maximum of three days on deck service credit for each day of instruction.

(c) A certificate of service as Able Seaman, Great Lakes—18 months' service, is considered equivalent to a certificate of service as Able Seaman—Limited.
Coast Guard, DOT

§ 12.05–9 Examination and demonstration of ability.

(a) Before an applicant is certified as an able seaman, he or she shall prove to the satisfaction of the Coast Guard by oral or other means of examination, and by actual demonstration, his or her knowledge of seamanship and the ability to carry out effectively all the duties that may be required of an able seaman, including those of a lifeboatman. The applicant shall demonstrate that he or she:

(1) Has been trained in all the operations connected with the launching of lifeboats and liferafts, and in the use of oars;

(2) Is acquainted with the practical handling of boats; and

(3) Is capable of taking command of the boat's crew.

(b) The examination, whether administered orally or by other means, must be conducted only in the English language and must consist of questions regarding:

(1) Lifeboats and liferafts, the names of their essential parts, and a description of the required equipment;

(2) The clearing away, swinging out, and lowering of lifeboats and liferafts, and handling of lifeboats under oars and sails, including questions relative to the proper handling of a boat in a heavy sea;

(3) The operation and functions of commonly used types of davits;

(4) The applicant's knowledge of nautical terms; boxing the compass, either by degrees or points according to his experience; running lights, passing signals, and fog signals for vessels on the high seas, in inland waters, or on the Great Lakes depending upon the waters on which the applicant has had service; and distress signals; and,

(5) The applicant's knowledge of commands in handling the wheel by obeying orders passed to him as wheelsman, and knowledge of the use of engineroom telegraph or bell-pull signals.

(c) In the actual demonstration, the applicant shall show his ability by taking command of a boat and directing the operation of clearing away, swinging out, lowering the boat into the water, and acting as coxswain in charge of the boat under oars. He shall demonstrate his ability to row by actually pulling an oar in the boat. He shall also demonstrate knowledge of the principal knots, bends, splices, and hitches in common use by actually making them.

(c–1) The applicant must demonstrate to the satisfaction of the Officer in Charge, Marine Inspection, his knowledge of pollution laws and regulations, procedures for discharge containment and cleanup, and methods for disposal of sludge and waste material from cargo and fueling operations.

(d) Any person who is in valid possession of a certificate as able seaman endorsed, any waters—12 months and who can produce documentary evidence of sufficient service to qualify for a certificate as able seaman endorsed, any waters—unlimited, may be issued a new document bearing this endorsement without additional professional examination. The applicant shall surrender for cancellation the document bearing the limited endorsement. No physical examination will be required at the time of this exchange unless it is found that the applicant obviously suffers from some physical or mental infirmity to a degree that in the opinion of the Officer in Charge, Marine Inspection, would render him incompetent to
§ 12.05–11 General provisions respecting merchant mariner’s document endorsed for service as able seamen.

(a) The holder of a merchant mariner’s document endorsed for the rating of able seamen may serve in any unlicensed rating in the deck department without obtaining an additional endorsement; provided, however, that the holder shall hold the appropriate STCW endorsement when serving in a “rating forming part of a navigational watch” on a seagoing ship of 500 GT or more.

(b) A merchant mariner’s document endorsed as able seaman will also be considered a certificate of efficiency as lifeboatman without further endorsement.

(c) This type of document will describe clearly the type of able seaman certificate which it represents, e.g.: able seaman—any waters; able seaman—Great Lakes, 18 months; able seaman—on freight vessels, 500 gross tons or less on bays or sounds, and on tugs, towboats, and barges on any waters.

§ 12.10–1 Certification required.

Every person employed in a rating as lifeboatman on any United States vessel requiring certificated lifeboatmen shall produce a certificate as lifeboatman or merchant mariner’s document endorsed as lifeboatman or able seaman to the shipping commissioner, United States collector or deputy collector of customs, or master before signing articles of agreement. No certificate of efficiency as lifeboatman is required of any person employed on any unrigged vessel, except on a sea-going barge and on a tank barge navigating waters other than rivers and/or canals.

§ 12.10–3 General requirements.

(a) An applicant to be eligible for certification as lifeboatman must meet one of the following requirements:

(1) At least 1 year’s sea service in the deck department, or at least 2 years’ sea service in the other departments of ocean, coastwise, Great Lakes, and other lakes, bays, or sounds vessels.

(2) Graduation from a schoolship approved by and conducted under rules prescribed by the Commanding Officer, National Maritime Center.

(3) Satisfactory completion of basic training by a Cadet of the United States Merchant Marine Cadet Corps.

(4) Satisfactory completion of 3 years’ training at the U.S. Naval Academy or the U.S. Coast Guard Academy including two training cruises.

(5) Satisfactory completion of a course of training approved by the Commanding Officer, National Maritime Center, and served aboard a training vessel.

(6) Successful completion of a training course, approved by the Commanding Officer, National Maritime Center, such course to include a minimum of 30 hours’ actual lifeboat training; provided, however, that the applicant produces satisfactory evidence of having served a minimum of 6 months at sea board ocean or coastwise vessels.

(b) An applicant, to be eligible for certification as lifeboatman, shall be able to speak and understand the English language as would be required in the rating of lifeboatman and in an emergency aboard ship.

(c) An applicant shall be 18 years old to be certified as proficient in survival craft under STCW Regulation VI/2.
§ 12.10–5 Examination and demonstration of ability.

(a) Before an applicant is certified as a lifeboatman, he or she shall prove to the satisfaction of the Coast Guard by oral or other means of examination, and by actual demonstration, his or her knowledge of seamanship and the ability to carry out effectively all the duties that may be required of a lifeboatman. The applicant shall demonstrate that he or she:

(1) Has been trained in all the operations connected with the launching of lifeboats and liferafts, and in the use of oars;
(2) Is acquainted with the practical handling of boats; and
(3) Is capable of taking command of the boat’s crew.

(b) The examination, whether administered orally or by other means, must be conducted only in the English language and must consist of questions regarding:

(1) Lifeboats and liferafts, the names of their essential parts, and a description of the required equipment;
(2) The clearing away, swinging out, and lowering of lifeboats and liferafts, the handling of lifeboats under oars and sails, including questions relative to the proper handling of a boat in a heavy sea; and,
(3) The operation and functions of commonly used types of davits.

(c) The practical examination shall consist of a demonstration of the applicant’s ability to carry out the orders incident to launching lifeboats, and the use of the boat’s sail, and to row.

(d) After July 31, 1998, each applicant for a lifeboatman’s certificate endorsed for proficiency in survival craft and rescue boats shall be not less than 18 years old and shall produce satisfactory evidence that he or she has met the requirements for training and competence of STCW Regulation VI/2, paragraph 2, and the appropriate provisions of Section A–VI/2 of the STCW Code.

§ 12.10–7 General provisions respecting merchant mariner’s document endorsed as lifeboatman.

A merchant mariner’s document endorsed as able seaman is the equivalent of a certificate as lifeboatman or of an endorsement as lifeboatman and will be accepted as either of these wherever either is required by law; provided, however, that, when the holder documented as an able seaman has to be certified as either proficient in survival craft and rescue boats or proficient in fast rescue boats, he or she shall hold an STCW endorsement.

§ 12.10–9 Certificates of proficiency in fast rescue boats.

(a) After July 31, 1998, each person engaged or employed as a lifeboatman proficient in fast rescue boats shall hold either a certificate of proficiency in these boats or a merchant mariner’s document endorsed for proficiency in them.

(b) To be eligible for either a certificate of proficiency in fast rescue boats or a merchant mariner’s document endorsed for proficiency in them, an applicant shall—

(1) Be qualified as a lifeboatman with proficiency in survival craft and fast rescue boats under this subpart;
(2) Furnish satisfactory proof that he or she has met the requirements for training and competence of STCW Regulation VI/2, paragraph 2, and the appropriate requirements of Section A–VI/2 of the STCW Code.

§ 12.13–1 Documentary evidence required.

After July 31, 1998, each person designated to provide medical first aid on board ship, or to take charge of medical care on board ship, shall hold documentary evidence attesting that the

The Officer in Charge, Marine Inspection will issue such documentary evidence to the person, or endorse his or her license or document, on being satisfied that the training required under section 12.13–1 of this section establishes that he or she meets the standards of competence set out in STCW Regulation VI/4 and Section A–VI/4 of the STCW Code.

Subpart 12.15—Qualified Member of the Engine Department

§ 12.15–1 Certification required.

(a) Every person employed in a rating as qualified member of the engine department on any United States vessel requiring certificated qualified members of the engine department shall produce a certificate as qualified member of the engine department to the shipping commissioner, United States Collector or Deputy Collector of Customs, or master before signing articles of agreement.

(b) No certificate as qualified member of the engine department is required of any person employed on any unrigged vessel, except seagoing barges.

§ 12.15–3 General requirements.

(a) A qualified member of the engine department is any person below the rating of licensed officer and above the rating of coal passer or wiper, who holds a certificate of service as such qualified member of the engine department issued by the Coast Guard or predecessor authority.

(b) For purposes of administering this part the rating of assistant electrician is considered a rating not above that of coal passer or wiper, but equal thereto.

(c) An applicant, to be eligible for certification as qualified member of the engine department, shall be able to speak and understand the English language as would be required in the rating of qualified member of the engine department and in an emergency aboard ship.

(d) After July 31, 1998, an STCW endorsement valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as a qualified member of the engine department also produces satisfactory evidence, on the basis of assessment of a practical demonstration of skills and abilities, of having achieved or maintained within the previous 5 years the minimum standards of competence for the following 4 areas of basis safety:

1. Personal survival techniques as set out in table A–VI/1–1 of the STCW Code.
2. Fire prevention and fire-fighting as set out in table A–VI/1–2 of the STCW Code.
4. Personal safety and social responsibilities as set out in table A–VI/1–4 of the STCW Code.

(e) After July 31, 1998 an STCW endorsement that is valid for any period on or after February 1, 2002, will be issued or renewed only when the candidate for certification as a qualified member of the engine department meets the standards of competence set out in STCW Regulation III/4 and Section A–III/4 of the STCW Code, if the candidate will be serving as a rating forming part of a watch in a manned engine-room, or designated to perform duties in a periodically unmanned engine-room, on a seagoing ship driven by main propulsion machinery of 750 kW [1,000 hp] propulsion power or more.


§ 12.15–5 Physical requirements.

(a) An applicant for a certificate of service as a qualified member of the engine department shall present a certificate of a medical officer of the United States Public Health Service, or other reputable physician attesting that his eyesight, hearing, and physical condition are such that he can perform the duties required of a qualified member of the engine department.
(b) The medical examination for qualified member of the engine department is the same as for an original license as engineer, as set forth in § 10.205 of this subchapter. If the applicant is in possession of an unexpired license, the Officer in Charge, Marine Inspection, may waive the requirement for a physical examination.

(c) An applicant holding a certificate of service for a particular rating as qualified member of the engine department and desiring certification for another rating covered by this same form of certificate may qualify therefor without a physical examination unless the Officer in Charge, Marine Inspection, finds that the applicant obviously suffers from some physical or mental infirmity to a degree that would render him incompetent to perform the ordinary duties of a qualified member of the engine department. In this event the applicant shall be required to undergo an examination to determine his competency.


§ 12.15-7 Service or training requirements.

(a) An applicant for a certificate of service as qualified member of the engine department shall furnish the Coast Guard proof of qualification based on six months’ service in a rating at least equal to that of wiper or coal passer.

(b) Training programs approved by the Commanding Officer, National Maritime Center, may be substituted for the required service at sea in accordance with the following:

(1) A graduate of a school ship may be rated as qualified member of the engine department upon satisfactory completion of the course of instruction. For this purpose, school ship is interpreted to mean an institution which offers a complete course of instruction, including a period of sea training, in the skills appropriate to the rating of qualified member of the engine department.

(2) Training programs other than those classified as a school ship may be substituted for up to one-half of the required service at sea.

(c) To qualify to receive an STCW endorsement for service as a “rating forming part of a watch in a manned engine-room or designated to perform duties in a periodically unmanned engine-room” on a seagoing vessel driven by main propulsion machinery 750 kW [1,000 hp] propulsion power or more, an applicant shall prove seagoing service that includes training and experience associated with engine-room watchkeeping and involves the performance of duties carried out under the direct supervision of a qualified engine officer or a member of a qualified rating. The training must establish that the applicant has achieved the standard of competence prescribed in table A-1114 of the STCW Code, in accordance with the methods of demonstrating competence and the criteria for evaluating competence specified in that table.


§ 12.15-9 Examination requirements.

(a) Each applicant for certification as a qualified member of the engine department in the rating of oiler, watertender, fireman, deck engineer, refrigeration engineer, junior engineer, electrician, or machinist shall be examined orally or by other means and in the English language on the subjects listed in paragraph (b) of this section. The applicant’s general knowledge of the subjects must be sufficient to satisfy the examiner that he is qualified to perform the duties of the rating for which he makes application.

(b) List of subjects required:

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Machinist</th>
<th>Refrigeration engineer</th>
<th>Fireman/Watertender</th>
<th>Oiler</th>
<th>Electrician</th>
<th>Junior engineer</th>
<th>Deck engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Application, maintenance, and use of hand tools and measuring instruments</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>2. Uses of babbitt, copper, brass, steel, and other metals</td>
<td>X</td>
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<td>X</td>
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209
<table>
<thead>
<tr>
<th>Subjects</th>
<th>Machinist</th>
<th>Refrigeration engineer</th>
<th>Fireman/Water tender</th>
<th>Oiler</th>
<th>Electrician</th>
<th>Junior Engineer</th>
<th>Deck Engineer</th>
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</thead>
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<tr>
<td>3. Methods of measuring pipe, pipe fittings, sheet metal, machine bolts and nuts, packing, etc</td>
<td>X</td>
<td>X</td>
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<td>4. Operation and maintenance of mechanical remote control equipment</td>
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<tr>
<td>5. Precautions to be taken for the prevention of fire and the proper use of firefighting equipment</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>6. Principles of mechanical refrigeration; and functions, operation, and maintenance of various machines and parts of the systems</td>
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<td>7. Knowledge of piping systems as used in ammonia, freon, and CO₂, including testing for leaks, operation of bypasses, and making up of joints</td>
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<tr>
<td>8. Safety precautions to be observed in the operation of various refrigerating systems, including storage of refrigerants, and the use of gas masks and firefighting equipment</td>
<td>X</td>
<td>X</td>
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<td>9. Combustion of fuels; proper temperature, pressures, and atomization</td>
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<td>10. Operation of the fuel oil system on oil burning boilers, including the transfer and storage of fuel oil</td>
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<tr>
<td>11. Hazards involved and the precautions taken against accumulation of oil in furnaces, blies, floorplates, and tank tops; flarebacks, leaks in fuel oil heaters, clogged strainers and burner tips</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>12. Precautions necessary when filling empty boilers, starting up the fuel oil burning system, and raising steam from a cold boiler</td>
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<td>13. The function, operation, and maintenance of the various engineroom auxiliaries</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>14. Proper operation of the various types of lubricating systems</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>15. Safety precautions to be observed in connection with the operation of engineroom auxiliaries, electrical machinery, and switchboard equipment</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>16. The function, operation, and maintenance of the bilge, ballast, fire, freshwater, sanitary, and lubricating systems</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>17. Proper care of spare machine parts and idle equipment</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>18. The procedure in preparing a turbine, reciprocating, or Diesel engine for standby; also the procedure in securing</td>
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<td>19. Operation and maintenance of the equipment necessary for the supply of water to boilers, the dangers of high and low water and remedial action</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>20. Operation, location, and maintenance of the various boiler fittings and accessories</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>21. Application and solution of basic electrical calculations (Ohm’s law, power formula, etc.)</td>
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<td>22. Electrical wiring circuits of the various two-wire and three-wire D.C. systems and the various single-phase and polyphase A.C. systems</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>23. Application and characteristics of parallel and series circuits</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>24. Application and maintenance of electrical meters and instruments</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>25. The maintenance and installation of lighting and power wiring involving testing for, locating and correcting grounds, short circuits and open circuits, and making splices</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>26. The operation and maintenance of the various types of generators and motors, both A.C. and D.C.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>27. Operation, installation, and maintenance of the various types of electrical controls and safety devices</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>28. Testing and maintenance of special electrical equipment, such as telegraphs, telephones, alarm systems, fire-detecting systems, and rudder angle indicators</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>29. Rules and Regulations and requirements for installation, repair, and maintenance of electrical wiring and equipment installed aboard ships</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>29a. Pollution laws and regulations, procedures for discharge containment and cleanup, and methods for disposal of sludge and waste from cargo and fueling operations</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>30. Such further examination of a nonmathematical character as the Officer in Charge, Marine Inspection, may consider necessary to establish the applicant’s proficiency</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Coast Guard, DOT § 12.15-15

(c) Each applicant for certification as a qualified member of the engine department in the rating of pumpman shall, by oral or other examination, demonstrate sufficient knowledge of the subjects peculiar to that rating to satisfy the Officer in Charge, Marine Inspection, that he or she is qualified to perform the duties of that rating.

(d) Applicants for certification as qualified members of the engine department in the rating of deck engine mechanic or engineman, who have proved eligibility for such endorsement under either §12.15-13 or §12.15-15, will not be required to take a written or oral examination for such ratings.

§ 12.15-11 General provisions respecting merchant mariner's documents endorsed as qualified member of the engine department.

The holder of a merchant mariner's document endorsed with one or more qualified member of the engine department ratings may serve in any unqualified rating in the engine department without obtaining an additional endorsement. This does not mean that an endorsement of one qualified member of the engine department rating authorizes the holder to serve in all qualified member of the engine department ratings. Each qualified member of the engine department rating for which a holder of a merchant mariner's document is qualified must be endorsed separately. When, however, the applicant qualifies for all ratings covered by a certificate as a qualified member of the engine department, the certification may read QMED—any rating. The ratings are as follows:

(a) Refrigerating engineer.
(b) Oiler.
(c) Deck engineer.
(d) Fireman/Watertender.
(e) Junior engineer.
(f) Electrician.
(g) Machinist.
(h) Pumpman.
(i) Deck engine mechanic.
(j) Engineman.

§ 12.15-13 Deck engine mechanic.

(a) An applicant for a certificate as deck engine mechanic shall be a person holding a merchant mariner's document endorsed as junior engineer. The applicant shall be eligible for such certification upon furnishing one of the following:

1. Satisfactory documentary evidence of sea service of 6 months in the rating of junior engineer on steam vessels of 4,000 horsepower or over.

2. Documentary evidence from an operator of an automated vessel that he has completed satisfactorily at least 4 weeks indoctrination and training in the engine department of an automated steam vessel of 4,000 horsepower or over.

3. Satisfactory completion of a course of training for deck engine mechanic acceptable to the Commanding Officer, National Maritime Center.

(b) The Officer in Charge, Marine Inspection, who is satisfied that an applicant for the rating of deck engine mechanic meets the requirements specified in this section, will endorse this rating on the current merchant mariner's document held by the applicant.

(c) Any holder of a merchant mariner's document endorsed for any unlicensed rating in the engine department or QMED—any rating is qualified as a deck engine mechanic and that endorsement will not be entered on his document.

§ 12.15-15 Engineman.

(a) An applicant for a certificate as engineman shall be a person holding a merchant mariner's document endorsed as fireman/watertender and oiler, or junior engineer. The applicant shall be eligible for such certification upon furnishing one of the following:

1. Satisfactory documentary evidence of sea service of 6 months in any one or combination of junior engineer, fireman/watertender or oiler on steam vessels of 4,000 horsepower or over.
§ 12.25-1

(2) Documentary evidence from an operator of a partially automated steam vessel that he has completed satisfactorily at least 2 weeks indoctrination and training in the engine department of a partially automated steam vessel of 4,000 horsepower or over; or

(3) Satisfactory completion of a course of training for engineman acceptable to the Commanding Officer, National Maritime Center.

(b) The Officer in Charge, Marine Inspection, who is satisfied that an applicant for the rating of engineman meets the requirements specified in this section, will endorse this rating on the current merchant mariner’s document held by the applicant.

(c) Any holder of a merchant mariner’s document endorsed for any unlicensed rating in the engine department, QMED—any rating or deck engine mechanic is qualified as an engineman and that endorsement will not be entered on his document.

§ 12.25-10 General requirements.

(a) Merchant mariner’s documents shall be issued without professional examination to applicants for certificates of service as endorses on merchant mariner’s documents in capacities other than able seaman, lifeboatman, tankerman or qualified member of the engine department and shall be endorsed for one or more ratings. For example, ordinary seaman—wiper—steward’s document (F.H.). Holders of documents endorsed for service as ordinary seaman may serve in any unqualified rating in the deck department. Holders of documents endorsed for service as wiper may serve in any unqualified rating in the engine department. Documents endorsed for steward’s department (F.H.) will authorize the holder’s service in any capacity in the steward’s department. (See §12.02-11(e)(2) for unqualified ratings in the staff department.)

(b) When the holder of a merchant mariner’s document has qualified as a food handler, the endorsement of his rating will be followed by the further indorsement (F.H.).

§ 12.25-20 Food handler.

No applicant for a rating authorizing the handling of food will be certificated unless he produces a certificate from a medical officer of the United States Public Health Service, or other reputable physician stating that the applicant is free from communicable disease.

§ 12.25-25 Members of Merchant Marine Cadet Corps.

No ratings other than cadet (deck) or cadet (engine) as appropriate, and lifeboatman shall be shown on a merchant mariner’s document issued to a member of the U.S. Merchant Marine Cadet Corps. The merchant mariner’s document shall also be stamped Valid only while cadet in the U.S. Maritime Administration training program. The merchant mariner’s document thus prepared shall be surrendered upon the holder being certified in any other rating or being issued a license and the rating of cadet (deck) or cadet (engine) shall be omitted from any new merchant mariner’s document issued.

§ 12.25-30 Student observers.

Students in technical schools who are enrolled in courses in marine management and ship operations who present a letter or other documentary evidence that they are so enrolled shall be issued a merchant mariner’s document as student observers—any department and may be signed on ships as
§ 12.25-35 Apprentice engineers.
(a) Persons enrolled in an apprentice engineer training program approved by the Commanding Officer, National Maritime Center, and who present a letter or other documentary evidence that they are so enrolled may be issued a merchant mariner’s document as apprentice engineer and may be signed on ships as such. The endorsement apprentice engineer may be in addition to other endorsements. However, this endorsement of apprentice engineer does not authorize the holder to fill any of the regular ratings.
(b) Persons holding merchant mariner’s documents with the endorsement apprentice engineer shall be deemed to be seamen.

§ 12.25-40 Apprentice mate.
A person enrolled in an apprentice mate training program approved by the Commanding Officer, National Maritime Center who presents a letter or other documentary evidence that he is so enrolled may be issued a merchant mariner’s document as apprentice mate and may be signed on ships as apprentice mate. The endorsement apprentice mate may be in addition to other endorsements. However, this endorsement as apprentice mate does not authorize the holder to fill any of the regular ratings.

§ 12.25-45 GMDSS At-sea Maintainer.
An applicant is eligible to have his or her STCW certificate or endorsement include a statement of qualification as GMDSS At-sea Maintainer if he or she holds sufficient evidence of having completed a training program that covers at least the scope and content of training outlined in Section B-IV/2 of the STCW Code for training in maintenance of GMDSS installations on board vessels.

Subpart 12.30—Ro-Ro Passenger Ships

§ 12.30-1 Purpose of regulations.
The purpose of the regulations in this subpart is to establish requirements for certification of seamen serving on roll-on/roll-off (Ro-Ro) passenger ships.

§ 12.30-3 Definitions.
Roll-on/Roll-off (Ro-Ro) passenger ship means a passenger ship with Ro-Ro cargo spaces or special-category spaces as defined in the International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS), to which ship a SOLAS Certificate is issued.
MMD means merchant mariner’s document.

§ 12.30-5 General requirements.
To serve on a Ro-Ro passenger ship after January 31, 1997, a person holding an MMD and performing duties toward safety, cargo-handling, or care for passengers shall meet the appropriate requirements of STCW Regulation V/2 and of Section A-V/2 of the STCW Code, and hold documentary evidence to show his or her meeting these requirements.

PART 13—CERTIFICATION OF TANKERMEN

Subpart A—General

Sec.
13.101 Purpose.
13.103 Definitions.
13.105 Paperwork approval.
13.107 Tankerman endorsement: General.
13.111 Restricted endorsement.
13.113 Tankermen certified under prior regulations.
13.115 Licensed engineer: Endorsement as Tankerman-Engineer based on service on
§ 13.101

tankships or self-propelled tank vessels before March 31, 1996.

13.117 Any person: Endorsement as Tankerman-Assistant based on unlicensed deck service before March 31, 1996.

13.119 Expiration of endorsement.

13.120 Renewal of endorsement.

13.121 Courses for training tankerman.

13.123 Recency of service or experience for original tankerman endorsement.

13.125 Physical requirements.


13.129 Quick-reference table for tankerman.

Subpart B—Requirements for “Tankerman-PIC” Endorsement

13.201 Original application for “Tankerman-PIC” endorsement.


13.205 Proof of service for “Tankerman-PIC” endorsement.

13.207 Eligibility: Firefighting course.

13.209 Eligibility: Cargo course.

Subpart C—Requirements for “Tankerman-PIC (Barge)” Endorsement

13.301 Original application for “Tankerman-PIC (Barge)” endorsement.

13.303 Eligibility: Experience.

13.305 Proof of service for “Tankerman-PIC (Barge)” endorsement.

13.307 Eligibility: Firefighting course.

13.309 Eligibility: Cargo course.

Subpart D—Requirements for “Tankerman-Assistant” Endorsement

13.401 Original application for “Tankerman-Assistant” endorsement.

13.403 Eligibility: Experience.

13.405 Proof of service for “Tankerman-Assistant” endorsement.

13.407 Eligibility: Firefighting course.

13.409 Eligibility: Cargo course.

Subpart E—Requirements for “Tankerman-Engineer” Endorsement

13.501 Original application for “Tankerman-Engineer” endorsement.

13.503 Eligibility: Experience.

13.505 Proof of service for “Tankerman-Engineer” endorsement.

13.507 Eligibility: Firefighting course.

13.509 Eligibility: Cargo course.

AUTHORITY: 46 U.S.C. 3703, 7317, 8105, 8703, 9102; 49 CFR 1.46.

SOURCE: CGD 79-116, 60 FR 17142, Apr. 4, 1995, unless otherwise noted.

(a) If an applicant meets the requirements of subpart B of this part, the OCMl at an REC may endorse his or her MMD as “Tankerman-PIC” with the appropriate cargo classification or classifications. A person holding this endorsement and meeting the other requirements of 33 CFR 155.710(a) may act as a PIC of a transfer of fuel oil, of a transfer of liquid cargo in bulk, or of cargo-tank cleaning on any tank vessel. That person may also act as a

(a) Each tankerman endorsement described in §13.107 will expressly limit the holder’s service under it to transfers involving one or both of the following cargo classifications:

(1) Dangerous liquid (DL).

(2) Liquefied gas (LG).

(b) No tankerman endorsement is necessary to transfer the liquid cargoes in bulk listed in Table 2 of Part 153 of this chapter when those cargoes are carried on barges not certified for ocean service.

(c) A tankerman having qualified in one cargo classification and wishing to qualify in another shall apply at an REC listed in §10.105 of this chapter. If he or she meets all requirements for the other, the REC may issue a new MMD including the endorsement.

(d) If an applicant meets the requirements of §13.111, the OCMI at an REC may place on his or her MMD an endorsement as a “Tankerman-PIC restricted” according to the definitions of “restricted Tankerman endorsement” in §13.103.

(e) If an applicant meets the requirements of §13.111, the OCMI at an REC may place on his or her MMD an endorsement as a “Tankerman-PIC (Barge)” with the appropriate cargo classification or classifications. A person holding this endorsement and meeting the other requirements of 33 CFR 155.710(b) may act as a PIC of a transfer of liquid cargo in bulk only on a tank barge.

(f) A tankerman wishing to obtain an endorsement that he or she does not hold shall apply at an REC listed in §10.105 of this chapter. If he or she meets all requirements for the new endorsement, the REC may issue a new MMD including the endorsement.

(g) This section does not apply to any person solely by reason of his or her involvement in bunkering or fueling.


§ 13.110 Tankerman endorsement: Authorized cargoes.

(a) Each tankerman endorsement described in §13.107 will expressly limit the holder’s service under it to transfers involving one or both of the following cargo classifications:

(1) Dangerous liquid (DL).

(2) Liquefied gas (LG).

(b) No tankerman endorsement is necessary to transfer the liquid cargoes in bulk listed in Table 2 of Part 153 of this chapter when those cargoes are carried on barges not certified for ocean service.

(c) A tankerman having qualified in one cargo classification and wishing to qualify in another shall apply at an REC listed in §10.105 of this chapter. If he or she meets all requirements for the other, the REC may issue a new MMD including the endorsement.

§ 13.111 Restricted endorsement.

(a) An applicant may apply at an REC listed in 46 CFR 10.105 for a tankerman endorsement restricted to specific cargoes, specific vessels or groups of vessels (such as uninspected towing vessels and Oil Spill Response Vessels), specific facilities, specific employers, or otherwise as the OCMI deems appropriate. The OCMI will evaluate each application and may modify the applicable requirements for the endorsement, allowing for special circumstances and for whichever restrictions the endorsement will state.
§ 13.113 Tankermen certified under prior regulations.

(a) A person who holds a license issued under part 10 of this chapter, and who as a PIC transferred liquid cargoes in bulk before March 31, 1996, may continue to serve as a “Tankerman-PIC” under the license until the first renewal of his or her MMD under §12.02-27 of this chapter that occurs after March 31, 1997, or, if he or she holds no MMD, until the first renewal of his or her license that occurs after March 31, 1997, as follows:

(1) A person holding a current license issued under part 10 of this chapter may act as a “Tankerman-PIC” if he or she can produce a letter on company letterhead from the owner, operator, master, or chief engineer of the vessel that proves his or her qualifying service as required by paragraph (d)(1)(iii) of this section.

(2) A person that cannot produce a letter to prove his or her qualifying service may submit relevant evidence to an REC for evaluation. If the OCMI determines that the person does qualify under paragraph (a) of this section, the OCMI will issue a letter of acknowledgment as a substitute for a letter of service.

(b) A person who holds a current “Tankerman” endorsement issued before March 31, 1996, may continue to serve as a Tankerman-PIC (Barge) until the first renewal of his or her MMD under §12.02-27 of this chapter that occurs after March 31, 1997. If a person with such an endorsement qualifies for a non-tankerman endorsement that requires a new MMD, he or she may bring the tankerman endorsement forward onto the new MMD.

(c) A person who served as PIC for the transfer of liquid cargoes in bulk listed in subchapter O of this chapter but who did not require a tankerman endorsement, because the cargoes were non-flammable or non-combustible, may act as a “Tankerman-PIC...
§ 13.113

(Barge)’’ for those liquid cargoes until March 31, 2001, if he or she produces a letter—on company letterhead, from the owner or operator of a terminal or of a tank barge or from the owner, operator, or master of a self-propelled tank vessel—that proves his or her qualifying service as required by paragraph (e)(1)(iii) of this section.

(d) A person who qualifies under paragraph (a) of this section by holding a current license may apply for a “Tankerman-PIC” or a “Tankerman-PIC (Barge)” endorsement under this subpart.

(1) To qualify for a “Tankerman-PIC” endorsement, a licensed officer shall present—

(i) A certificate of completion from a course in shipboard firefighting approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437(XI), “Training of Crews in Fire Fighting,” or a certificate of completion from a firefighting course before March 31, 1996, that the OCMI finds in substantial compliance with that section;

(ii) Either—

(A) A certificate of completion from a liquid-cargo course in DL or LG approved by the Commandant, appropriate to the endorsement applied for, or a certificate of completion from a liquid-cargo course in DL or LG up to ten years before March 31, 1996, that the OCMI finds acceptable under § 13.121(d) and Table 13.121(f), appropriate to the endorsement applied for; or

(B) A letter on company letterhead from the applicant’s employer stating that the applicant received training in awareness of hazards due to flammability and in firefighting through a program, lecture, or seminar that included hands-on firefighting that the OCMI finds in substantial compliance with §13.121(g);

(iii) Evidence of service as follows:

(A) A letter on company letterhead from the owner, operator, master, or chief engineer of the vessel attesting that the applicant—

(1) Acted as the PIC of the transfer of DL or LG, appropriate to the endorsement applied for, on self-propelled tank vessels before March 31, 1996; acted as the PIC of the transfer of DL or LG, appropriate to the endorsement applied for within the last 5 years; and accumulated two transfers on self-propelled tank vessels within the last 10 years; and

(2) Served at least 90 days as a master or mate on self-propelled tank vessels certified to carry DL or LG, appropriate to the endorsement applied for, before March 31, 1996, and acted as a master or mate on self-propelled tank vessels certified to carry DL or LG within the last 10 years.

(B) Certificates of discharge proving at least 90 days of service as master or mate on self-propelled tank vessels certified to carry DL or LG, appropriate to the endorsement applied for, before March 31, 1996, with at least one discharge date within the last 5 years.

(2) To qualify for a “Tankerman-PIC (Barge)” endorsement, a licensed officer shall present—

(i) Either—

(A) A certificate of completion from a course in shipboard firefighting described in paragraph (d)(1)(i) of this section, or from a course in tank-barge firefighting approved by the Commandant; or

(B) A letter on company letterhead from the owner, operator, master, or chief engineer of a tank vessel attesting that before March 31, 1996, the applicant received training in awareness of hazards due to flammability and in firefighting through a program, lecture, or seminar that included hands-on firefighting that the OCMI finds in substantial compliance with §13.121(g);

(ii) Either—

(A) A certificate of completion from a liquid-cargo course in DL or LG for tankships or tank barges approved by the Commandant, appropriate to the endorsement applied for;

(B) A certificate of completion from a liquid-cargo course in DL or LG for tankships or tank barges up to 10 years before March 31, 1996, that the OCMI determines substantially covers the material required by Table 13.121(f); or

(C) A letter on company letterhead from the applicant’s employer stating that the applicant has successfully completed the approved training discussed in §13.121(i) or (j); and

(iii) Evidence either—

(A) Of service that satisfies paragraph (d)(1)(iii) of this section, except that for paragraphs (d)(1)(iii) (A)(2) and
(B) 60 days of service on any tank vessel are enough; or
(B) On company letterhead, from the owner or operator of a terminal, or of a tank barge, of service attesting that the applicant both acted as the PIC of the transfer of DL or LG, appropriate to the endorsement applied for, on tank barges, before March 31, 1996, and accumulated two transfers on tank barges within the last 10 years.
(3) To qualify for a restricted endorsement based on grades of cargo handled, a mariner shall—
(i) For a restricted “Tankerman-PIC” endorsement, meet paragraphs (d)(1)(i) and (iii) of this section; or
(ii) For a restricted “Tankerman-PIC (Barge)” endorsement, meet paragraphs (e)(1)(i) and (iii) of this section.
(e) A person who qualifies under paragraph (b) of this section by holding a current “Tankerman” endorsement or under paragraph (c) of this section by having served as PIC for the transfer of liquid cargoes in bulk that are listed in subchapter O but that did not require a tankerman endorsement may apply for a “Tankerman-PIC (Barge)” endorsement under this subpart.
(1) To qualify for a “Tankerman-PIC (Barge)” endorsement, an applicant shall present—
(i) Evidence of training in firefighting in the form of—
(A) A certificate of completion from a course in shipboard firefighting approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437 (XI), “Training of Crews in Fire Fighting”, or a certificate of completion from such a course before March 31, 1996, that the OCMI finds in substantial compliance with §13.121;
(B) A certificate of completion from a liquid-cargo course in DL or LG approved by the Commandant up to 10 years before March 31, 1996, appropriate to the endorsement applied for;
(C) A letter on company letterhead from the applicant’s employer stating that the applicant has successfully completed the approved training discussed in §13.121(i) or (j); and
(ii) Either—
(A) A certificate of completion from a liquid-cargo course in DL or LG up to 10 years before March 31, 1996, that the OCMI determines substantially covers the material required by Table 13.121(f); or
(B) A letter on company letterhead from the owner, operator, master, or chief engineer of the vessel, or from the owner or operator of a terminal or of a tank barge, of service attesting that the applicant both acted as the PIC of the transfer of DL or LG, appropriate to the endorsement applied for on self-propelled tank vessels or on tank barges, before March 31, 1996, and accumulated two transfers on self-propelled tank vessels or on tank barges within the last 10 years.
(2) To qualify for a restricted “Tankerman-PIC (Barge)” endorsement, based on his or her cargo-handling experience for the grades handled, an applicant shall meet all the requirements of paragraphs (e)(1)(i) and (iii) of this section.
(f) Each person qualifying under this section shall obtain a tankerman endorsement at the first renewal of his or her MMD under §12.02-27 of this chapter that occurs after March 31, 1997, except that each person qualifying under paragraph (c) of this section shall obtain the endorsement by March 31, 2001.
The following table relates the experience and training to the endorsement for tankerman certified under prior regulations. The section numbers on the table refer to the specific requirements applicable.
§ 13.115 Licensed engineer: Endorsement as Tankerman-Engineer based on service on tankships or self-propelled tank vessels before March 31, 1996.

A licensed person with at least 30 days of service as chief engineer, first assistant engineer, or cargo engineer on one or more tankships or self-propelled tank vessels before March 31, 1996, may, at any time until the first renewal of his or her MMD under § 12.02-27 of this chapter that occurs after March 31, 1997, apply for a “Tankerman-Engineer” endorsement under this subpart if he or she presents—

(a) Either—

(1) A letter on company letterhead from the owner, operator, master, or chief engineer of the vessel attesting that the applicant served at least 30 days as chief engineer, first assistant engineer, or cargo engineer on tankships or self-propelled tank vessels certified to carry DL or LG before March 31, 1996, and has so served within the last 5 years; or

(2) Certificates of Discharge proving at least 30 days of service as chief engineer, first assistant engineer, or cargo engineer on tankships or self-propelled tank vessels certified to carry DL or LG before March 31, 1996, and has so served within the last 5 years; and

(b) Either—

(1) A certificate of completion from a liquid-cargo course in DL or LG for tankships approved by the Commandant, appropriate to the endorsement applied for;

(2) A certificate of completion from a liquid-cargo course in DL or LG for tankships up to 10 years before March 31, 1996, that the OCMI determines substantially covers the material covered by Table 13.121(f); or

(3) A letter on company letterhead from the applicant’s employer stating that the applicant has successfully completed the approved training discussed in § 13.121(i) or (j).

§ 13.117 Any person: Endorsement as Tankerman-Assistant based on unlicensed deck service before March 31, 1996.

An applicant with unlicensed deck service on tankships or self-propelled tank vessels before March 31, 1996, may, at any time until the first renewal of his or her MMD under § 12.02-27 of this chapter that occurs after March 31, 1997, apply for a “Tankerman-Assistant” endorsement under this subpart if he or she presents either—
(a) A letter on company letterhead from the owner, operator, or master of the vessel attesting that the applicant performed at least 30 days of deck service or service as a pumpman of tankships or self-propelled tank vessels certified to carry DL or LG appropriate to the endorsement applied for before March 31, 1996, and has so performed within the last 5 years;

(b) Certificates of Discharge proving at least 30 days of deck service or of service as a pumpman on tankships or self-propelled tank vessels certified to carry DL or LG, appropriate to the endorsement applied for, before March 31, 1996, with a discharge date within the last 5 years; or

(c) A certificate of completion from a tanker-familiarization course approved by the Commandant.


§ 13.119 Expiration of endorsement.

An endorsement as tankerman is valid for the duration of the MMD.

§ 13.120 Renewal of endorsement.

An applicant wishing to renew a tankerman’s endorsement shall meet the requirements of § 12.02-27 of this chapter for renewing an MMD and prove either participation in at least two transfers within the last 5 years in accordance with § 13.127(b) or completion of an approved course as described in § 10.304.


§ 13.121 Courses for training tankerman.

(a) This section prescribes the requirements, beyond those in §§ 10.203 and 10.303 of this chapter, applicable to schools offering courses required for a tankerman endorsement and courses that are a substitute for experience with transfers of liquid cargo in bulk required for the endorsement.

(b) Upon satisfactory completion of an approved course, each student shall receive a certificate, signed by the head of the school offering the course or by a designated representative, indicating the title of the course, the duration, and, if appropriate, credit allowed towards meeting the transfer requirements of this part.

(c) A course that uses simulated transfers to train students in loading and discharging tank vessels may replace up to 2 loadings and 2 discharges, 1 commencement and 1 completion of loading, and 1 commencement and 1 completion of discharge required for a Tankerman-PIC or Tankerman-PIC (Barge) endorsement. The request for approval of the course must specify those segments of a transfer that the course will simulate. The letter from the Coast Guard approving the course will state the number and kind of segments that the course will replace.

(d) The course in liquid cargo required for an endorsement as—
   (1) “Tankerman-PIC DL” is Tankship: Dangerous Liquids;
   (2) “Tankerman-PIC (Barge) DL” is Tank Barge: Dangerous Liquids;
   (3) “Tankerman-PIC LG” is Tankship: Liquefied Gases;
   (4) “Tankerman-PIC (Barge) LG” is Tank Barge: Liquefied Gases;
   (5) “Tankerman-Assistant DL” is Familiarization with DL Tankship; and
   (6) “Tankerman-Assistant LG” is Familiarization with LG Tankship.

(e) The course in firefighting required for an endorsement as—
   (1) “Tankerman-PIC (Barge)” is Tank Barge: Firefighting; and
   (2) “Tankerman-PIC”, “Tankerman-Assistant”, and “Tankerman-Engineer” is a firefighting course that meets the basic firefighting section of the IMO’s Resolution A.437 (XI), “Training of Crews in Fire Fighting”.

(f) No school may issue a certificate unless the student has successfully completed an approved course with the appropriate curriculum outlined in Table 13.121(f) or § 13.121(h).

(g) An organization with a course in DL or LG or a course in tank-barge firefighting taught before March 31, 1996, that substantially covered the material required by Table 13.121(f) for liquid cargoes, Table 13.121(g) for firefighting, or § 13.121(h) for familiarization with tankships, may seek approval under § 10.302 of this chapter from the Coast Guard for any course taught up to ten years before March 31, 1996.

(h) The Coast Guard will evaluate the curricula of courses for Familiarization with DL and LG Tankships to ensure adequate coverage of the required
§ 13.121

subjects. Training may employ classroom instruction, demonstrations, or simulated or actual operations.

(1) The curricula of courses for Familiarization with DL Tankships must consist of the following:

(i) General characteristics, compatibility, reaction, firefighting, and safety precautions for bulk liquid cargoes defined as DL in this part.

(ii) Terminology of tankships carrying oil and other chemicals.

(iii) General arrangement and construction of cargo tanks, vapor control, and venting.

(iv) Cargo-piping systems and valves.

(v) General operation of cargo pumps.

(vi) General discussion of the following operations connected with the loading and discharging of cargo:

(A) Pre-transfer inspection and conference and Declaration of Inspection.

(B) Lining up of the cargo and vapor-control systems and starting of liquid flow.

(C) Connecting and disconnecting of cargo hoses and loading arms.

(D) Loading.

(E) Ballasting and de-ballasting.

(F) Discharging.

(G) Tank-gauging (open and closed).

(vii) Rules of the Coast Guard governing operations in general and prevention of pollution in particular.

(viii) Prevention and control of pollution.

(ix) Emergency procedures.

(x) Safety precautions relative to:

(A) Entering cargo tanks and pump room.

(B) Dangers of contact with skin.

(C) Inhalation of vapors.

(D) Protective clothing and equipment.

(E) Hot work.

(F) Precautions respecting electrical hazards, including hazards of static electricity.

(x) General discussion of the following operations connected with the loading and discharging of cargo:

(A) Pre-transfer inspection and conference and Declaration of Inspection.

(B) Lining up of the cargo and vapor-control systems and starting of liquid flow.

(C) Connecting and disconnecting of cargo hoses and loading arms.

(D) Loading.

(E) Ballasting and de-ballasting.

(F) Discharging.

(x) Disposal of boil-off.

(xii) Rules of the Coast Guard governing operations in general and prevention of pollution in particular.
Coast Guard, DOT

§ 13.121

(xiv) Principles and procedures of IGSs.
(xv) Tank-cleaning procedures and precautions.
(xvi) Principles and procedures of vapor-control systems.
(xvii) Cargo-hazard-information systems.

(i) A company that offers approved DL training for its employees shall ensure discussion of the following topics (further discussed in STCW Regulation V, Section A-V/1, paragraphs 22 through 34):
(1) Treaties and rules.
(2) Chemistry and physics.
(3) Health hazards.
(4) Cargo containment.
(5) Pollution.
(6) Cargo-handling systems.
(7) Ship operations.
(8) Safety practices and equipment.
(9) Emergency procedures.
(10) General principles of cargo operations.

<table>
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<tr>
<th>Course topics</th>
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<td>Physical phenomena of liquefied gas, including:</td>
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<td>Compressibility and expansion</td>
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<td>Mechanism of heat transfer</td>
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<td>Potential hazards of liquefied gas, including:</td>
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<td>Chemical and physical properties</td>
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<td>Control of flammability range with inert gas</td>
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<td>Hooking up of cargo hose, loading arms, and grounding-strap</td>
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<td>Cool-down and warm-up of cargo tanks</td>
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<td>x</td>
</tr>
<tr>
<td>Inhalation of vapors</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Electricity and static electricity—hazards and precautions</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Emergency procedures</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Federal regulations, national standards &amp; industry guidelines</td>
<td>x</td>
<td>x</td>
<td>x</td>
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</tbody>
</table>

TABLE 13.121-G—Continued

<table>
<thead>
<tr>
<th>Course topics</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
</table>
| Elements of fire (Fire triangle): | \begin{tabular}{l|l}
Fuel & x x \\
Source of ignition & x x \\
Ignition sources (general): & \begin{tabular}{l|l}
Chemical & x \\
Biological & x \\
Physical & x \\
\end{tabular} \\
Ignition sources applicable to barges: & x \\
Definitions of flammability and combustibility: & \begin{tabular}{l|l}
Flammability & x x \\
Ignition point & x x \\
Burning temperature & x x \\
Burning speed & x x \\
Thermal value & x x \\
Lower flammable limit & x x \\
Upper flammable limit & x x \\
Flammable range & x x \\
Inerting & x x \\
Static electricity & x x \\
Flash point & x x \\
Auto-ignition & x x \\
\end{tabular} \\
Spread of fire: & \begin{tabular}{l|l}
By radiation & x x \\
By convection & x x \\
By conduction & x x \\
Reactivity & x x \\
Fire classifications and applicable extinguishing agents & x x \\
Main causes of fires: & \begin{tabular}{l|l}
Oil leakage & x x \\
Smoking & x x \\
Overheating pumps & x x \\
Galley appliances & x x \\
Spontaneous ignition & x x \\
Hot work & x x \\
Electrical apparatus & x x \\
Reaction, self-heating, and auto-ignition & x x \\
\end{tabular} \\
Fire prevention: & \begin{tabular}{l|l}
General & x x \\
Fire hazards of DL and LG & x x \\
\end{tabular} \\
Fire detection: & \begin{tabular}{l|l}
Fire- and smoke-detection systems & x x \\
Automatic fire alarms & x x \\
\end{tabular} \\
\end{tabular} \\
| Firefighting equipment: | \begin{tabular}{l|l}
Fire mains, hydrants & x \\
International shore-connection & x \\
\end{tabular} \\
| Inert-gas system | x |

Emergency procedures:

<table>
<thead>
<tr>
<th>Course topics</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
</table>
| Firefighting equipment: | \begin{tabular}{l|l}
Fire mains, hydrants & x \\
International shore-connection & x \\
\end{tabular} \\
| Inert-gas system | x |

TABLE 13.121-H—Continued

<table>
<thead>
<tr>
<th>Course topics</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
</table>
| Firefighting equipment: | \begin{tabular}{l|l}
Fire mains, hydrants & x \\
International shore-connection & x \\
\end{tabular} \\
| Inert-gas system | x |
§ 13.123 Recency of service or experience for original tankerman endorsement.

An applicant for an original tankerman endorsement in subpart B, C, D, or E of this part shall have obtained at least 25% of the qualifying service and, if the endorsement requires transfers, at least two of the qualifying transfers, within five years of the date of application.

§ 13.125 Physical requirements.

Each applicant for an original tankerman endorsement shall meet the physical requirements of §10.205(d) of this chapter, excluding paragraph (d)(2) of that section.

§ 13.127 Service; General.

(a) A service letter must be signed by the owner, operator, master, or chief engineer of the vessel and must specify—

(1) The classification of cargo (DL, LG, or, for a restricted endorsement, a specific product) handled while the applicant accumulated the service;

(2) The dates, the number and kinds of transfers the applicant has participated in, and the number of transfers that involved commencement or completion; and

(3) That the applicant has demonstrated to the satisfaction of the signer that he or she is fully capable of supervising transfers of liquid cargo, including—

(i) Pre-transfer inspection;

(ii) Pre-transfer conference and execution of the Declaration of Inspection;

(iii) Connection of cargo hoses or loading-arms;

(iv) Line-up of the cargo system for loading and discharge;

(v) Start of liquid flow during loading;

(vi) Start of cargo pump and increase of pressure to normal discharge pressure;

(vii) Calculation of loading-rates;

(viii) Monitoring;

(ix) Topping-off of cargo tanks during loading;

(x) Stripping of cargo tanks;

(xi) Ballasting and deballasting, if appropriate;

(xii) Disconnection of the cargo hoses or loading-arms; and

(xiii) Securing of cargo systems.

(b) In determining the numbers and kinds of transfers that the applicant has participated in under paragraph (a)(2) of this section, the following rules apply:

(1) A transfer must involve the loading or discharge from at least one of the vessel’s cargo tanks to or from a shore facility or another vessel. A shift of cargo from one tank to another tank is not a transfer for this purpose.

(2) Regardless of how long the transfer lasts beyond four hours, it counts as only one transfer.

(3) A transfer must include both a commencement and a completion.

(4) Regardless of how many tanks or products are being loaded or discharged...
Coast Guard, DOT

§ 13.129

at the same time, a person may receive credit for only one transfer, one loading, and one discharge a watch.

(5) Credit for a transfer during a watch of less than four hours accrues only if the watch includes either the connection and the commencement of transfer or the completion of transfer and the disconnection.

(6) Credit for a commencement of loading accrues only if the applicant participates in the pre-transfer inspection, the pre-transfer conference including execution of the Declaration of Inspection, the connection of cargo hoses or loading-arms, the line-up of the cargo system for the loading, the start of liquid flow, and the calculation of loading-rates, where applicable.

(7) Credit for a commencement of discharge accrues only if the applicant participates in the pre-transfer inspection, the pre-transfer conference including execution of the Declaration of Inspection, the connection of cargo hoses or loading-arms, the line-up of the cargo system for the discharge, the start of the cargo pump or pumps and increase of pressure to normal pressure for discharge, and the monitoring of discharge rates.

(8) Credit for a completion of transfer, whether loading or discharge, accrues only if the applicant participates in the topping-off at the loading port, or in the stripping of cargo tanks and the commencement of ballasting, if required by the vessel’s transfer procedures, at the discharge port.

(9) Personnel desiring credit for transfers during off-duty hours may satisfy requirements of competence through incremental training periods that include segments of transfers. The cumulative number of transfers must equal the minimum specified in §13.203(b) or 13.303(b).


Table 13.129 provides a guide to the requirements for various tankerman endorsements. Provisions in the reference sections are controlling.
<table>
<thead>
<tr>
<th>Category</th>
<th>Minimum age</th>
<th>Physical required</th>
<th>Service</th>
<th>Recency of service</th>
<th>Proof of service</th>
<th>Certificate from firefighting course</th>
<th>Cargo course</th>
<th>English language</th>
</tr>
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<tr>
<td>Restricted Tankerman-PIC.</td>
<td>18; 13.111(b)</td>
<td>Yes; 13.111(b)</td>
<td>13.111(b)</td>
<td>13.111(b)</td>
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<td>13.111(b)</td>
<td>No</td>
<td>13.111(b)</td>
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<tr>
<td>Restricted Tankerman-PIC (Barge).</td>
<td>18; 13.111(c)</td>
<td>Yes; 13.111(c)</td>
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<td>13.111(c)</td>
<td>13.111(c)</td>
<td>13.111(c)</td>
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<td>13.111(c)</td>
</tr>
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</table>

Subpart B—Requirements for “Tankerman-PIC” Endorsement

§ 13.201 Original application for “Tankerman-PIC” endorsement.

Each applicant for an original “Tankerman-PIC” endorsement shall—
(a) Be at least 18 years old;
(b) Apply on a Coast Guard form;
(c) Present evidence of passing a physical examination in accordance with § 13.125;
(d) Present evidence of service on tankships in accordance with § 13.203;
(e) Meet the requirement of a course on firefighting in § 13.207;
(f) Meet the requirement of a course in DL or LG appropriate for the endorsement applied for in § 13.209; and
(g) Be capable of speaking and understanding, in English, all instructions needed to commence, conduct, and complete a transfer of cargo, and be capable of reading the English found in the Declaration of Inspection, vessel response plans, and Cargo Information Cards.


Each applicant for a “Tankerman-PIC” endorsement for DL or LG shall meet the requirements of either paragraphs (a) and (b) or paragraph (c) of this section.

(a) Each applicant shall present evidence of—
(1) At least 90 days of service as a licensed deck officer or a licensed engineering officer on one or more tankships or self-propelled tank vessels certified to carry DL or LG appropriate to the endorsement applied for;
(2) At least 90 days of unlicensed or cadet service on deck or in the engine department on one or more tankships or self-propelled tank vessels certified to carry DL or LG appropriate to the endorsement applied for; or
(3) A combination of the service in paragraphs (a) (1) and (2) of this section.

(b) Each applicant shall present evidence of participation, under the supervision of a “Tankerman-PIC,” in at least 10 transfers of liquid cargo in bulk of the classification desired on tankships or self-propelled tank vessels, including at least—
(1) Five loadings and five discharges;
(2) Two commencements of loading and two completions of loading; and
(3) Two commencements of discharge and two completions of discharge.
(c) Each applicant already holding an MMD endorsed “Tankerman-PIC” for DL and seeking an endorsement for LG, or the converse, shall—
(1) Provide evidence of at least half the service required by paragraph (a) of this section; and
(2) Comply with paragraph (b) of this section, except that he or she need provide evidence of only three loadings and three discharges along with evidence of compliance with paragraphs (b)(2) and (3) of this section.


§ 13.205 Proof of service for “Tankerman-PIC” endorsement.

Service must be proved by a letter on company letterhead from the owner, operator, or master of the vessel on which the applicant obtained the service. The letter must contain the information described in § 13.127(a).

§ 13.207 Eligibility: Firefighting course.

Each applicant for an original “Tankerman-PIC” endorsement shall present a certificate of successful completion from a course in shipboard firefighting, approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437 (XI), “Training of Crews in Fire Fighting,” completed within five years of the date of application for the endorsement, unless he or she has previously submitted such a certificate for a license or a tankerman endorsement.

§ 13.209 Eligibility: Cargo course.

Each applicant for an original “Tankerman-PIC” endorsement shall present a certificate of completion from a course in DL or LG appropriate for tankships and for the endorsement applied for, and approved by the Commandant. The date of the certificate may not be more than 5 years earlier than the date of application.

§ 13.301 Original application for “Tankerman-PIC (Barge)” endorsement.

Each applicant for a “Tankerman-PIC (Barge)” endorsement shall—

(a) Be at least 18 years old;
(b) Apply on a Coast Guard form;
(c) Present evidence of passing a physical examination in accordance with § 13.125;
(d) Present evidence of service on tank vessels in accordance with § 13.303;
(e) Meet the requirement of a firefighting course in § 13.307;
(f) Meet the requirement of a course in DL or LG appropriate for the endorsement applied for in § 13.309; and
(g) Be capable of speaking, and understanding, in English, all instructions needed to commence, conduct, and complete a transfer of cargo, and be capable of reading the English found in the Declaration of Inspection, vessel response plans, and Cargo Information Cards.

§ 13.303 Eligibility: Experience.

Each applicant for a “Tankerman-PIC (Barge)” endorsement for DL or LG shall meet the requirements of either paragraphs (a) and (b) or paragraph (c) of this section.

(a) Each applicant shall present evidence of—

(1) At least 60 days of service, whether by shore-based or by vessel-based personnel, on one or more tank vessels certified to carry DL or LG appropriate to the endorsement applied for; or
(2) At least 6 months of closely related service directly involved with tank barges appropriate to the endorsement applied for; and

(b) Participation, under the supervision of a “Tankerman-PIC” or “Tankerman-PIC (Barge),” in at least 10 transfers of liquid cargo in bulk of the classification desired on any tank vessel, including at least—

(1) Five loadings and five discharges;
(2) Two commencements of loading and two completions of loading; and
(3) Two commencements of discharge and two completions of discharge.

(c) Each applicant already holding an MMD endorsed “Tankerman-PIC (Barge)” for DL and seeking an endorsement for LG, or the converse, shall—

(1) Provide evidence of at least half the service required by paragraph (a) of this section; and
(2) Comply with paragraph (b) of this section, except that he or she shall provide evidence of only three loadings and three discharges along with evidence of compliance with paragraphs (b)(2) and (3) of this section.


§ 13.305 Proof of service for “Tankerman-PIC (Barge)” endorsement.

Service must be proved by a letter on company letterhead from the owner or operator of a terminal; the owner or operator of a tank barge; the owner, operator, or master of a tank vessel; or the employer of shore-based tankermen. The letter must contain the information required by § 13.127(a), excluding paragraph (a)(3)(vii).


§ 13.307 Eligibility: Firefighting course.

Each applicant for a “Tankerman-PIC (Barge)” endorsement shall present a certificate of successful completion from—

(a) A course in shipboard firefighting, approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437(XI), “Training of Crews in Firefighting,” completed 5 years or less before the date of application for the endorsement, unless he or she has previously submitted such a certificate for a license or a tankerman endorsement; or

(b) A course in tank-barge firefighting, approved by the Commandant and meeting § 13.121, completed within five years of the date of application for the endorsement.

§ 13.309 Eligibility: Cargo course.

Each applicant for an original “Tankerman-PIC (Barge)” endorsement shall present a certificate of completion from a course in DL or LG appropriate for tank barges and for Tankerman-PIC or Tankerman-PIC (Barge), and approved by the Commandant. The date of the certificate may not be more than 5 years earlier than the date of application.


Subpart D—Requirements for “Tankerman-Assistant” Endorsement

§ 13.401 Original application for “Tankerman-Assistant” endorsement.

Each applicant for a “Tankerman-Assistant” endorsement shall—
(a) Be at least 18 years old;
(b) Apply on a Coast Guard form;
(c) Present evidence of passing a physical examination in accordance with § 13.125;
(d) Meet the requirement of a firefighting course in §13.407;
(e) (1) Meet the requirement of a course in DL or LG appropriate for the endorsement applied for in §13.409; or
(2) Present evidence of service on tankships or self-propelled tank vessels in accordance with §13.403; and
(f) Be capable of speaking and understanding, in English, all instructions needed to commence, conduct, and complete a transfer of cargo.


§ 13.405 Proof of service for “Tankerman-Assistant” endorsement.

(a) Service must be proved by a letter on company letterhead from the owner, operator, or master of a tankship or self-propelled tank vessel. The letter must specify—
(1) The classification of cargo (DL or LG) carried while the applicant accumulated the service;
(2) The number of days of deck service the applicant accumulated on the tankship or self-propelled tank vessel; and
(3) That the applicant has demonstrated an understanding of cargo transfer and a sense of responsibility that, in the opinion of the signer, will allow the applicant to safely carry out duties respecting cargo transfer and transfer equipment assigned by the PIC of the transfer without direct supervision by the PIC; or
(b) Service must be proved by—
(1) Certificates of Discharge from tankships with the appropriate classification of cargo (DL, LG, or both); and
(2) A letter on company letterhead from the owner, operator, or master of one of the tankships or self-propelled tank vessel stating that he or she has demonstrated—
(i) An understanding of cargo transfer; and
(ii) A sense of responsibility that, in the opinion of the signer, will allow him or her to safely carry out duties respecting cargo and its equipment assigned by the PIC of the transfer without direct supervision by the PIC.


Each applicant for a “Tankerman-Assistant” endorsement shall present a certificate of successful completion from a course in shipboard firefighting, approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437 (XI), “Training of Crews in Fire Fighting”, completed within five years of the date of application for the endorsement, unless he or she has previously submitted such a certificate from one of these courses for a license or endorsement.

§ 13.409 Eligibility: Cargo course.

Each applicant for an original “Tankerman-Assistant” endorsement who has not presented the required service on tankships or self-propelled tank vessels shall present a certificate of completion from a course for Familiarization with DL or LG Tankships or from a tanker-familiarization course appropriate to the endorsement applied for, and approved by the Commandant. The date of the certificate may not be more than 5 years earlier than the date of application.

[CGD 79-116, 60 FR 25134, May 8, 1997]

Subpart E—Requirements for “Tankerman-Engineer” Endorsement

§ 13.501 Original application for “Tankerman-Engineer” endorsement.

Each applicant for a “Tankerman-Engineer” endorsement shall—
(a) Be at least 18 years old;
(b) Apply on a Coast Guard form;
(c) Present evidence of passing a physical examination in accordance with §13.125;
(d) Present evidence of service on tankships and self-propelled tank vessels in accordance with §13.503;
(e) Meet the requirement of a firefighting course in §13.507;
(f) Meet the requirement of a course in DL or LG appropriate for the endorsement applied for in §13.509; and
(g) Be capable of speaking and understanding, in English, all instructions needed to commence, conduct, and complete a transfer of cargo.


§ 13.503 Eligibility: Experience.

(a) Each applicant for a “Tankerman-Engineer” endorsement shall present evidence of at least—
(1) 90 days of service as a licensed engineering officer of tankships or self-propelled tank vessels certified to carry DL or LG appropriate to the endorsement applied for; or
(2) 90 days of unlicensed or cadet service in the engine department on tankships or self-propelled tank vessels certified to carry DL or LG appropriate to the endorsement applied for; or
(3) A combination of the service in paragraphs (a) (1) and (2) of this section.

(b) Each applicant already holding an MMD endorsed as Tankerman-Engineer for DL and seeking one for LG, or the converse, shall prove at least half the service required by paragraph (a) of this section.


§ 13.505 Proof of service for “Tankerman-Engineer” endorsement.

(a) Service must be proved by a letter on company letterhead from the owner, operator, master, or chief engineer of a tankship or self-propelled tank vessel. The letter must specify—
(1) The classification of cargo (DL, LG, or both) carried while the applicant accumulated the service; and
(2) The number of days of licensed and unlicensed service in the engine department on tankships or self-propelled tank vessels; or
(b) Service must be proved by certificates of discharge from tankships or self-propelled tank vessels with the appropriate classification of cargo (DL, LG, or both).

§ 13.507 Eligibility: Firefighting course.

Each applicant for a “Tankerman-Engineer” endorsement shall present a certificate of successful completion from a course in shipboard firefighting, approved by the Commandant and meeting the basic firefighting section of the IMO’s Resolution A.437 (X1), “Training of Crews in Fire Fighting”, completed within five years of the date of application for the endorsement, unless he or she has previously submitted such a certificate for a license or tankerman endorsement.

§ 13.509 Eligibility: Cargo course.

Each applicant for an original “Tankerman-Engineer” endorsement shall present a certificate of completion from a course in DL or LG, appropriate for tankships and the endorsement applied for, approved by the Commandant. The date of the certificate may not be more than 5 years earlier than the date of application.


PART 14—SHIPMENT AND DISCHARGE OF MERCHANT MARINERS

Subpart A—General

Sec.
14.101 Purpose of part.
14.103 Addresses of Coast Guard.
14.105 Disclosure and privacy.

Subpart B—Shipment of Merchant Mariners

14.201 Voyages upon which shipping articles are required.
14.203 Voyages upon which shipping articles are not required.
14.205 Production of credentials by merchant mariner signing shipping articles.
14.207 Content and form of shipping articles.
14.209 Preparation of shipping articles at beginning of voyage.
14.211 Posting of copy of shipping articles.

Subpart C—Discharge of Merchant Mariners

14.301 Paying off of merchant mariner during or after voyage upon which shipping articles are required.
14.303 Discharge of merchant mariner in foreign port.

§ 14.201 Voyages upon which shipping articles are required.

(a) Before proceeding either upon a foreign, intercoastal, or coastwise voyage (including a voyage on the Great Lakes) listed in paragraph (b) of this section or with the engagement or replacement of a merchant mariner for such a voyage, each master or individual in charge of a vessel or seagoing barge of the United States shall execute shipping articles however prepared, manually or electronically. The master or individual in charge and
§ 14.203  Voyages upon which shipping articles are not required.

Although they may be used for the voyage, shipping articles are not required for any voyage by—

(a) A yacht;

(b) A vessel engaged exclusively in fishing or whaling;

(c) A vessel aboard which the merchant mariners are by custom or agreement entitled to participate in the profits or results of a cruise or voyage;

(d) A vessel employed exclusively in trade on the navigable rivers of the United States; or

(e) A ferry, or a tug used in ferrying, if the vessel is employed exclusively in trade on the Great Lakes, other lakes, bays, sounds, bayous, canals, or harbors.

§ 14.205  Production of credentials by merchant mariner signing shipping articles.

On engagement for a voyage upon which shipping articles are required, each merchant mariner shall present to the master or individual in charge of the vessel every document, certificate, or license required by law for the service the mariner would perform.

§ 14.207  Content and form of shipping articles.

(a)(1) The content and form of shipping articles for each vessel of the United States of 100 gross tons or more upon a foreign or intercoastal voyage must conform to the present shipping articles, form CG-705A, which meets the requirements of 46 U.S.C. 10302, 10303, 10304, and 10305. The articles must identify the nature of the voyage and specify at least the name, the number of the license or merchant mariner's document, the capacity of service, the time due on board to begin work, and the name and address of the next of kin of, and the wages due to, each merchant mariner, either who was discharged or whose services were otherwise terminated during the month.

(b) The content and form of articles for each such vessel upon a coastwise voyage (including a voyage on the Great Lakes) must also conform to the present shipping articles, form CG-705A, which meet the requirements of 46 U.S.C. 10502. The articles must specify at least the matter identified by paragraph (a)(1) of this section, except that they must not specify the wages due to the mariner. The wages section of the form shall be left blank for coastwise voyages.

(b) Any shipping company that manually prepares the articles may, upon request, obtain Shipping Articles, Form CG-705A, from any Officer in Charge, Marine Inspection (OCMI), of the Coast Guard.

(c) Any company that electronically prepares the articles may, upon request submitted to either address in § 14.103, obtain a copy of software developed by the Coast Guard to produce articles in the proper format. Alternatively, a company may develop its own software or buy it off the shelf; but, in either of these cases, it must secure approval of the software from the National Maritime Center at either address in § 14.103.

§ 14.209  Preparation of shipping articles at beginning of voyage.

Each master or individual in charge of a vessel when shipping articles are required shall prepare an original and two copies of the articles. The original and one copy must be signed by the master or individual in charge and by each merchant mariner; but the second copy must not be signed by any of them.
§ 14.211 Posting of copy of shipping articles.

On commencement of a foreign, intercoastal, or coastwise voyage (including a voyage on the Great Lakes), each master or individual in charge of a vessel when shipping articles are required shall ensure that a legible copy of the articles, unsigned by the mariner, and without the next of kin information, is posted at a place accessible to the crew.


(a) When a vessel of the United States sails upon a foreign, intercoastal, or coastwise voyage (excluding a voyage on the Great Lakes), each master or individual in charge shall, at the commencement of the voyage, send one copy of shipping articles, signed by the master and by each merchant mariner, to the owner, charterer, or managing operator. The master shall keep the original throughout the voyage and enter in it all charges made to the crew during the voyage.

(b) (1) When a vessel of the United States sails exclusively on the Great Lakes, each master or individual in charge shall, at the commencement of the season, or once the vessel is put into service, whichever occurs earlier, send one copy of articles, signed by the master and by each mariner, to the owner, charterer, or managing operator. The master shall keep the original throughout the voyage and enter in it all charges made to the crew during the voyage.

(2) The master or individual in charge shall every 60 days send supplementary particulars of engagement covering each mariner engaged during this period, signed by the master and by each mariner, to the owner, charterer, or managing operator.

(3) The master of individual in charge shall, at the close of the season, or once the vessel is withdrawn from service, whichever occurs later, send articles, signed by the master and by each mariner, to the owner, charterer, or managing operator.

(4) When a vessel of the United States sails exclusively on bays or sounds, each master or individual in charge shall, at least every 60 days, send articles, signed by the master and by each mariner, to the owner, charterer, or managing operator.

(d) Any person who fails to comply with the requirements of this section is subject to a civil penalty of $5,000.

Subpart C—Discharge of Merchant Mariners

§ 14.301 Paying off of merchant mariner during or after voyage upon which shipping articles are required.

Each master or individual in charge of a vessel when shipping articles are required shall complete and sign, and each merchant mariner paid off during or after such a voyage shall sign the articles and otherwise comply with the requirements of this subpart. When signed by the master or individual in charge and by the mariner, the articles constitute a release from the duties to which they bound their parties.

§ 14.303 Discharge of merchant mariner in foreign port.

Upon the discharge of any mariner in a foreign port, the master shall make the required entries on the ship's articles. Upon the request of the master or a mariner, the consular officer shall discharge the mariner in accordance with the requirements of 46 U.S.C. 10318.


If the merchant mariner holds a continuous discharge book, the master or individual in charge of the vessel shall make the proper entries in it.

§ 14.307 Entries on certificate of discharge.

(a) Each master or individual in charge of a vessel shall, for each merchant mariner being discharged from the vessel, prepare a certificate of discharge and two copies; whether by writing or typing them on the prescribed form with permanent ink or generating them from computer in the prescribed format; and shall sign them with permanent ink. The prescribed format for a certificate of discharge is the same as the present form CG-719A (Rev. 8-80). The left portion of the form
§ 14.309 Entries in shipping articles at end of voyage.

(a) At the end of each voyage upon which shipping articles are required, the master or individual in charge of the vessel shall—

1. Complete the articles, conforming the pertinent entries in them to those on the certificate of discharge and its copies;
2. Note in the articles the execution of each Mutual Release;
3. Attach to the articles each Mutual Release and a copy of each certificate; and
4. Pay to each merchant mariner all wages due.

(b) When paid off, each mariner shall sign the articles.

§ 14.311 Report of discharge of merchant mariner.

(a) At the end of each foreign, intercoastal, and coastwise voyage by a vessel of the United States, or of each voyage by such a vessel that sails exclusively on bays or sounds (or by such a vessel at the close of the season on the Great Lakes, or once the vessel is withdrawn from service there, whichever occurs later), the shipping companies shall electronically transmit the data from the certificates of discharge via modem to an electronic address which the shipping company may request from the National Maritime Center.

(b) If the data is submitted manually, the shipping companies shall provide the data for foreign and intercoastal voyages at the end of each voyage. For coastwise voyages or of each voyage by such a vessel that sails exclusively on bays or sounds (or by such a vessel at the close of the season of the Great Lakes, or once the vessel is withdrawn from service there, whichever occurs later), the shipping companies shall submit a copy of each certificate of discharge to the address in §14.103(a) at least once per calendar month.

§ 14.313 Storage of shipping articles and of certificates of discharge.

(a) Each shipping company shall keep all original shipping articles and copies of all certificates of discharge for 3 years. After 3 years the shipping companies shall prepare the original shipping articles in alphabetical order by vessel name and send to the address in §14.103(a) for storage at the Federal Records Center at Suitland, Maryland. The company may dispose of the copies of certificates of discharge. The Coast Guard will dispose of copies of certificates submitted manually, once the data are entered into its sea-service database and are validated.

(b) Each shipping company that goes out of business or merges with another company shall send all original articles to the address in §14.103(a) within 30 days of the transaction.

(c) The shipping company must provide copies of shipping articles and certificates of discharge to the mariner and the Coast Guard upon request.

§ 14.401 General.

Unless otherwise provided by Title 46 United States Code, by any act amending or supplementing that Title, or by this subpart, that Title as far as it governs the employment of merchant mariners remains, and any act amending or supplementing that title becomes, applicable to oceanographic research vessels.
§ 14.403 Exemptions.

(a) Certain requirements of Title 46, United States Code do not apply to the employment of merchant mariners on oceanographic research vessels. These requirements are those concerned with, among other things, the shipment and discharge of mariners, their pay and allotments, and the adequacy of their clothing. 46 U.S.C. 2113(2) allows exemptions of oceanographic research vessels from certain requirements of parts B, C, F, or G of subtitle II of 46 U.S.C., upon such terms as the Secretary of the Department of Transportation deems suitable. The exemptions available under this subpart are subject to the following terms:

(1) No use of any exemption relieves the owner, charterer, managing operator, master, or individual in charge of the vessel of other statutory responsibilities for the protection of every mariner under his or her command.

(2) If it is presented at a reasonable time and in a reasonable manner, the master or individual in charge shall receive, consider, and appropriately address the legitimate complaint of any mariner.

(b) For any oceanographic research vessel sailing with any mariner employed by any firm, association, corporation, or educational or governmental body or agency, the Commandant may grant exemptions from—

(1) 46 U.S.C. 10301, Application;

(2) 46 U.S.C. 10302, Shipping articles (for foreign and intercoastal voyages);

(3) 46 U.S.C. 10307, Posting of articles;

(4) 46 U.S.C. 10308, Foreign engagements;

(5) 46 U.S.C. 10311, Certificates of discharge;

(6) 46 U.S.C. 10313 and 10504, Wages;

(7) 46 U.S.C. 10314 and 10505, Advances;

(8) 46 U.S.C. 10315, Allotments;

(9) 46 U.S.C. 10316 and 10506, Trusts;

(10) 46 U.S.C. 10321 and 10508, General penalties;

(11) 46 U.S.C. 10502, Shipping articles (for coastwise voyages); and

(12) 46 U.S.C. 10509, Penalty for failure to begin coastwise voyages.

§ 14.405 Procedures.

(a) Upon written request for the owner, charterer, managing operator, master, or individual in charge of the vessel to the OCMI of the Coast Guard in whose zone the vessel is located, the Commandant may grant an exemption of any oceanographic research vessel designated by 46 U.S.C. 2113(2) from any requirement of any section listed by § 14.403(b).

(b) The request must state—

(1) Any requirement of any section listed in § 14.403(b) from which the applicant wishes an exemption; and

(2) What business practices regarding, among other things, the shipment and discharge of merchant mariners, their pay and allotments, and the adequacy of their clothing would justify the exemption.

(c) The OCMI will forward the request, along with his or her recommendation, to the Commandant, who will determine whether to grant any exemption of any vessel from any requirement. The OCMI will issue a letter indicating any exemption granted. The master or individual in charge of the vessel shall keep the letter aboard the vessel.

(d) If operating conditions change, the owner, charterer, managing operator, master, or individual in charge of the vessel shall so advise the OCMI. The OCMI will forward pertinent information on how the conditions have changed, along with his or her recommendation, to the Commandant, who will determine whether any exemption should remain granted.

§ 14.407 Reports.

(a) The owner, charterer, managing operator, master, or individual in charge of each oceanographic research vessel of 100 gross tons or more shall maintain a record of the employment, discharge, or termination of service of every merchant mariner in the crew. At least every 6 months, the person maintaining this record shall transmit it to the Coast Guard, either manually, in the form of a copy of a certificate of discharge, or electronically.

(b) The owner, charterer, managing operator, master, or individual in charge of the vessel shall keep original shipping articles and a copy of each certificate ready for review by the Coast Guard or the concerned mariner upon request. After January 3, 1997, the
Coast Guard will no longer keep either original articles or copies of certificates; it will keep only electronic records of employment.

(c) The master or individual in charge of the vessel shall ensure that every entry made in the articles agrees with the corresponding entry made in a continuous discharge book, on a certificate, or in any other proof of sea service furnished to the mariner.

(d) Each oceanographic company shall keep all original articles and copies of all certificates for 3 years. After that each such company shall send all articles to the address in §14.103(a).

(e) Each oceanographic company that goes out of business or merges with another company shall send all original articles to the address in §14.103(a) within 30 days of the transaction.

PART 15—MANNING REQUIREMENTS

Subpart A—Purpose and Applicability

Sec.
15.101 Purpose of regulations.
15.102 Paperwork approval.
15.103 General.
15.105 Incorporation by reference.

Subpart B—Definition of Terms

15.301 Definitions of terms used in this part.

Subpart C—Manning Requirements; All Vessels

15.401 Employment and service within restrictions of license or document.
15.405 Familiarity with vessel characteristics.
15.410 Licensed individuals for assistance towing vessels.

Subpart D—Manning Requirements; Inspected Vessels

15.501 Certificate of inspection.
15.505 Changes in the certificate of inspection.
15.510 Right of appeal.
15.515 Compliance with certificate of inspection.
15.520 Mobile offshore drilling units.
15.525 Reference to other parts.

Subpart E—Manning Requirements; Uninspected Vessels

15.601 General.
15.605 Licensed operators for uninspected passenger vessels.
15.610 Licensed operators for uninspected towing vessels.

Subpart F—Limitations and Qualifying Factors

15.701 Officers Competency Certificates Convention, 1936.
15.705 Watches.
15.710 Working hours.
15.715 Automated vessels.
15.720 Use of non-U.S. licensed and/or documented personnel.
15.725 Sailing short.
15.730 Language requirements.

Subpart G—Computations

15.801 General.
15.805 Master.
15.810 Mates.
15.812 Pilots.
15.815 Radar observers.
15.820 Chief engineer.
15.825 Engineers.
15.830 Radio officers.
15.835 Staff officers.
15.840 Able seaman.
15.845 Lifeboatmen.
15.850 Lookouts.
15.855 Cabin watchmen and fire patrolmen.
15.860 Tankerman.

Subpart H—Equivalents

15.901 Inspected vessels of less than 100 gross tons.
15.905 Uninspected passenger vessels.
15.910 Uninspected towing vessels.
15.915 Engineer licenses.

Subpart I—Vessels in Foreign Trade

15.1001 General.
15.1010 California.
15.1020 Hawaii.
15.1030 New York and New Jersey.
15.1040 Massachusetts.
15.1050 North Carolina.

Subpart J—Vessels Subject to Requirements of STCW

15.1101 General.
15.1103 Employment and service within restrictions of license, document, and STCW endorsement.
15.1105 Familiarization and basic safety-training.
15.1107 Maintenance of merchant mariners' records by owner or operator.
15.1109 Watches.
15.1111 Work hours and rest periods.

AUTHORITY: 46 U.S.C. 2101, 2103, 3306, 3703, 8101, 8102, 8104, 8105, 8301, 8304, 8502, 8503, 8701.
§ 15.103 General.
(a) The regulations in this part apply to all vessels which are subject to the manning requirements contained in the navigation and shipping laws of the United States, including uninspected vessels (46 U.S.C. 7101–9308).
(b) The navigation and shipping laws state that a vessel may not be operated unless certain manning requirements are met. In addition to establishing a minimum of licensed individuals and members of the crew to be carried on board certain vessels, they establish minimum qualifications concerning licenses, citizenship, and conditions of employment. It is the responsibility of the owner, charterer, managing operator, master, or person in charge or command of the vessel to ensure that appropriate personnel are carried to meet the requirements of the applicable navigation and shipping laws and regulations.
(c) Inspected vessels are issued a certificate of inspection which indicates the minimum complement of licensed individuals and crew (including lifeboatmen) considered necessary for safe operation. The certificate of inspection complements the statutory requirements but does not supersede them.
(d) The regulations in subpart J of this part apply to seagoing vessels subject to the International Convention on Standards of Training, Certification and watchkeeping for Seafarers as amended in 1995 (STCW).
(e) Neither any person serving on any of the following vessels, nor any owner or operator of any of these vessels, need meet the requirements of subpart J, because the vessels are exempt from application of STCW:
(1) Uninspected passenger vessels as defined in 46 U.S.C. 2101(42).
(2) Fishing vessels as defined in 46 U.S.C. 2101(11)(a).
(3) Fishing vessels used as fish-tender vessels as defined in 46 U.S.C. 2101(11)(c).
(4) Barges as defined in 46 U.S.C. 2101(2), including non-self-propelled mobile offshore-drilling units.
(5) Vessels operating exclusively on the Great Lakes.
(f) Personnel serving on the following vessels, and the owners and operators of these vessels, are in compliance with subpart J and are not subject to further obligation for the purposes of STCW, on account of the vessels' special operating conditions as small vessels engaged in domestic voyages:
(1) Small passenger vessels subject to subchapter T or K of title 46, CFR.
(2) Vessels of less than 200 GRT (other than passenger vessels subject to subchapter H of title 46 CFR).
(g) Licensed personnel serving on vessels identified in paragraphs (e)(5), (f)(1), and (f)(2) of this section will be issued, without additional proof of qualification, an appropriate STCW certificate or endorsement when the Officer in Charge, Marine Inspection determines that such an endorsement is necessary to enable the vessel to engage in an international voyage. The
STCW certificate or endorsement will be expressly limited to service on the vessel or the class of vessels and will not establish qualification for any other purpose.


§ 15.105 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the Federal Register and must ensure that the material is available to the public. All approved material is available for inspection at the Office of the Federal Register, 800 North Capitol Street NW., Suite 700, Washington, DC, and at the U.S. Coast Guard, Office of Operating and Environmental Standards, 2100 Second Street SW., Washington, DC 20593-0001, and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are as follows:

International Maritime Organization (IMO)

4 Albert Embankment, London, SE1 7SR, England


Subpart B—Definition of Terms

§ 15.301 Definitions of terms used in this part.

(a) The following terms defined in this subpart apply only to the manning of vessels subject to the manning provisions in the navigation and shipping laws of the United States:

Assistance Towing means towing a disabled vessel for consideration.

Coastwise seagoing vessel means a vessel that is authorized by its Certificate of Inspection to proceed beyond the Boundary Line established in part 7 of this chapter.

Deck crew (excluding licensed individuals) means, as used in 46 U.S.C. 8702, only the following members of the deck department below the grade of licensed individual: Able seamen and ordinary seamen.

Designated areas means those areas within pilotage waters for which first class pilot’s licenses or endorsements are issued under part 10, subpart G, of this Chapter, by the Officer in Charge, Marine Inspection (OCMI). The areas for which first class pilot’s licenses or endorsements are issued within a particular Marine Inspection Zone and the specific requirements to obtain them may be obtained from the OCMI concerned.

Directly supervised means being in the direct line of sight of the person in charge or maintaining direct, two-way communications by a convenient, reliable means, such as a predetermined working frequency over a hand-held radio.

Officer in Charge, Marine Inspection (OCMI) for the purposes of part 15 means any person designated as such by the Commandant and who under the Coast Guard District Commander is in charge of an inspection zone.

Pilotage waters means the navigable waters of the United States, including all inland waters and offshore waters to a distance of three nautical miles from the baseline from which the Territorial Sea is measured.

Staff officer means a person who holds a certificate of registry in the staff department such as a purser, a medical doctor or professional nurse, which is issued by the Coast Guard.

Self-Propelled has the same meaning as the terms propelled by machinery and mechanically propelled. This term would also include vessels fitted with both sails and mechanical propulsion.

Tank barge means a non-self-propelled tank vessel.

Tank vessel means a vessel that is constructed or adapted to carry, or
that carries, oil or hazardous material in bulk as cargo or cargo residue. Tankship means any tank vessel constructed or adapted primarily to carry oil or hazardous material in bulk as cargo or cargo residue and propelled by power or sail.

Transfer means any movement of dangerous liquid or liquefied gas as cargo in bulk or as cargo residue to, from, or within a vessel by means of pumping, gravitation, or displacement. Section 13.127 of this chapter describes what qualifies as participation in a creditable transfer.

(b) The following categories of licensed individuals are established in part 10 of this chapter. When used in this part, the following terms mean an individual holding a valid license and/or endorsement to serve in that capacity issued under part 10 of this chapter:

(1) Master;
(2) Mate;
(3) Pilot;
(4) Engineer;
(5) Radio officer;
(6) Operator of uninspected towing vessels;
(7) Operator of uninspected passenger vessels;
(8) Offshore installation manager (OIM);
(9) Barge supervisor (BS);
(10) Ballast control operator (BCO); and
(11) GMDSS radio operator.

(c) The following ratings are established in part 12 of this chapter. When used in this part, terms for the ratings identify persons holding valid merchant mariners’ documents for service in the ratings issued under that part:

(1) Able seaman.
(2) Ordinary seaman.
(3) Qualified member of the engine department.
(4) Lifeboatman.
(5) Wiper.
(6) Steward’s department (F.H.).
(7) GMDSS At-sea Maintainer.

(d) The following ratings are established in part 13 of this chapter. When used in this part, the terms for the ratings identify persons holding valid merchant mariners’ documents for service in the ratings issued under that part:

(1) Tankerman-PIC (Barge).
(2) Restricted Tankerman-PIC.
(3) Tankerman-PIC (Barge).
(4) Tankerman-Assistant.
(5) Tankerman-Engineer.

Subpart C—Manning Requirements; All Vessels

§ 15.401 Employment and service within restrictions of license or document.

A person may not employ or engage an individual, and an individual may not serve, in a position in which an individual is required by law or regulation to hold a license, certificate of registry, or merchant mariner’s document, unless the individual holds a valid license, certificate of registry, or merchant mariner’s document, as appropriate, authorizing service in the capacity in which the individual is engaged or employed and the individual serves within any restrictions placed on the license, certificate of registry, or merchant mariner’s document.


§ 15.405 Familiarity with vessel characteristics.

Each licensed, registered, or certified individual must become familiar with the relevant characteristics of the vessel on which engaged prior to assuming his or her duties. As appropriate, these include but are not limited to: general arrangement of the vessel; maneuvering characteristics; proper operation of the installed navigation equipment; firefighting and lifesaving equipment; stability and loading characteristics; emergency duties; and main propulsion and auxiliary machinery, including steering gear systems and controls.
§ 15.410 Licensed individuals for assistance towing vessels.

Every assistance towing vessel must be under the direction and control of a licensed individual authorized to engage in assistance towing under the provisions of 46 CFR 10.482.

[CGD 87-017, 53 FR 18562, May 24, 1988]

Subpart D—Manning Requirements; Inspected Vessels

§ 15.501 Certificate of inspection.

(a) The certificate of inspection (COI) issued by an Officer in Charge, Marine Inspection (OCMI), to a vessel required to be inspected under 46 U.S.C. 3301 specifies the minimum complement of officers and crew necessary for the safe operation of the vessel.

(b) The manning requirements for a particular vessel are determined by the OCMI after consideration of the applicable laws, the regulations in this part, and all other factors involved, such as: Emergency situations, size and type of vessel, installed equipment, proposed routes of operation including frequency of port calls, cargo carried, type of service in which employed, degree of automation, use of labor saving devices, and the organizational structure of the vessel.


§ 15.505 Changes in the certificate of inspection.

All requests for changes in manning as indicated on the certificate of inspection must be made to the OCMI who last issued the certificate of inspection, unless the request is made in conjunction with an inspection for certification, in which case the request should be addressed to the OCMI conducting the inspection.

§ 15.510 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88-033, 54 FR 50380, Dec. 6, 1989]

§ 15.515 Compliance with certificate of inspection.

(a) Except as provided by § 15.725, no vessel may be operated unless it has in its service and on board the complement required by the certificate of inspection.

(b) Any vessel subject to inspection under 46 U.S.C. 3301 must, while on a voyage, be under the direction and control of an individual who holds an appropriate license issued by the Coast Guard. For the purposes of this paragraph:

(1) A voyage is the period of time necessary to transit from the port of departure to the final port of arrival.

(2) A port does not include an Outer Continental Shelf (OCS) facility as defined in 33 CFR part 140.

§ 15.520 Mobile offshore drilling units.

(a) The requirements in this section for mobile offshore drilling units (MODUs) supplement other requirements in this part.

(b) The OCMI determines the minimum number of licensed individuals and crew (including lifeboatmen) required for the safe operation of inspected MODUs. In addition to other factors listed in this part, the specialized nature of the MODU is considered in determining the specific manning levels.

(c) A license as offshore installation manager (OIM), barge supervisor (BS), or ballast control operator (BCO) authorizes service only on MODUs. A license or endorsement as OIM is restricted to the MODU type and mode of operation specified on the license.

(d) A self-propelled MODU other than a drillship must be under the command of an individual who holds a license as master endorsed as OIM.

(e) A drillship must be under the command of an individual who holds a license as master. When a drillship is on location, the individual in command must hold a license as master endorsed as OIM.

(f) A non-self-propelled MODU must be under the command of an individual who holds a license or endorsement as OIM.

(g) An individual serving as mate on a self-propelled surface unit other than
Coast Guard, DOT § 15.701

a drillship must hold an appropriate license as mate and an endorsement as BS or BCO. An individual holding a license or endorsement as barge supervisor or ballast control operator may be substituted for a required mate when a self-propelled surface unit other than a drillship is on location or under tow, under certain circumstances as determined by the cognizant OCMI.

(h) An individual holding a license or endorsement as barge supervisor is required on a non-self-propelled surface unit other than a drillship.

(i) An individual holding a license or endorsement as barge supervisor may serve as ballast control operator.

(j) The OCMI issuing the MODU’s certificate of inspection may authorize the substitution of chief or assistant engineer (MODU) for chief or assistant engineer, respectively, on self-propelled or propulsion assisted surface units, except drillships. The OCMI may also authorize the substitution of assistant engineer (MODU) for assistant engineer on drillships.

(k) Requirements in this part concerning radar observers do not apply to non-self-propelled MODUs.

(l) A surface mobile offshore drilling unit underway or on location, when afloat and equipped with a ballast control room, must have that ballast control room manned by an individual holding a license or endorsement authorizing service as ballast control operator.

§ 15.605 Licensed operators for uninspected passenger vessels.

Each self-propelled, uninspected vessel carrying not more than six passengers, as defined by 46 U.S.C. 2101(21)(D), must be under the direction and control of an individual licensed by the Coast Guard.

§ 15.610 Licensed operators for uninspected towing vessels.

Every uninspected towing vessel which is at least 26 feet in length measured from end to end over the deck (excluding sheer) must be under the direction and control of an individual licensed by the Coast Guard. This does not apply to a vessel of less than 200 gross tons engaged in the offshore mineral and oil industry if the vessel has offshore mineral and oil industry sites or equipment as its ultimate destination or place of departure.

Subpart F—Limitations and Qualifying Factors

§ 15.701 Officers Competency Certificates Convention, 1936.

(a) This section implements the Officers Competency Certificates Convention, 1936, and applies to each vessel documented under the laws of the United States navigating seaward of the Boundary Lines in part 7 of this chapter, except:

(1) A public vessel;

(2) A wooden vessel of primitive build, such as a dhow or junk;

(3) A barge; and,

(4) A vessel of less than 200 gross tons.

(b) The master, mates and engineers on any vessel to which this section applies must hold a license to serve in that capacity issued by the Coast Guard under part 10 of this chapter.

(c) A vessel to which this section applies, or a foreign flag vessel to which the Convention applies, may be detained by a designated official until that official is satisfied that the vessel is in compliance with the Convention. Designated official includes Coast Guard officers, Coast Guard petty officers and officers or employees of the Customs Service.

(d) Whenever a vessel is detained, the owner, charterer, managing operator,
§ 15.705 Watches.
(a) Title 46 U.S.C. 8104 is the law applicable to the establishment of watches aboard certain U.S. vessels. The establishment of adequate watches is the responsibility of the vessel’s master. The Coast Guard interprets the term watch to be the direct performance of vessel operations, whether deck or engine, where such operations would routinely be controlled and performed in a scheduled and fixed rotation. The performance of maintenance or work necessary to the vessel’s safe operation on a daily basis does not in itself constitute the establishment of a watch. The minimal safe manning levels specified in a vessel’s certificate of inspection takes into consideration routine maintenance requirements and ability of the crew to perform all operational evolutions, including emergencies, as well as those functions which may be assigned to persons in watches.

(b) Subject to exceptions, 46 U.S.C. 8104 requires that when a master of a seagoing vessel of more than 100 gross tons establishes watches for the licensed individuals, sailors, coal passers, firemen, oilers and watertenders, the personnel shall be divided, when at sea, into at least three watches and shall be kept on duty successively to perform ordinary work incident to the operation and management of the vessel. The Coast Guard interprets sailors to mean those members of the deck department other than licensed officers, whose duties involve the mechanics of conducting the ship on its voyage, such as helmsman (wheelman), lookout, etc., and which are necessary to the maintenance of a continuous watch. Sailors is not interpreted to include able seamen and ordinary seamen not performing these duties.

(c) Subject to exceptions, 46 U.S.C. 8104(g) permits the licensed individuals and crew members (except the coal passers, firemen, oilers, and watertenders) to be divided into two watches when at sea and engaged on a voyage of less than 600 miles on the following categories of vessels:

(1) Towing vessel;
(2) Offshore supply vessel; or,
(3) Barge.

(d) Subject to exceptions, 46 U.S.C. 8104(h) permits a licensed individual operating an uninspected towing vessel that is at least 26 feet in length measured from end to end over the deck (excluding sheer) to work not more than 12 hours in a consecutive 24 hour period except in an emergency. The Coast Guard interprets this, in conjunction with other provisions of the law, to permit licensed individuals serving as operators of uninspected towing vessels that are not subject to the provisions of the Officers’ Competency Certificates Convention, 1936, to be divided into two watches regardless of the length of the voyage.

(e) Fish processing vessels are subject to various provisions of 46 U.S.C. 8104 concerning watches.

(1) For fish processing vessels that entered into service before January 1, 1988, the following watch requirements apply to the licensed officers and deck crew:

(i) If over 5000 gross tons—three watches.
(ii) If more than 1600 gross tons and not more than 5000 gross tons—two watches.
(iii) If not more than 1600 gross tons—no watch division specified.

(2) For fish processing vessels which entered into service after December 31, 1987, the following watch requirements apply to the licensed officers and deck crew:

(i) If over 5000 gross tons—three watches.
(ii) If not more than 5000 gross tons and having more than 16 individuals on board primarily employed in the preparation of fish or fish products—two watches.
(iii) If not more than 5000 gross tons and having not more than 16 individuals on board primarily employed in the preparation of fish or fish products—no watch division specified.

§ 15.710 Working hours.

In addition to prescribing watch requirements, 46 U.S.C. 8104 sets limitations on the working hours of licensed
individuals and crew members, prescribes certain rest periods, and prohibits unnecessary work on Sundays and certain holidays when the vessel is in a safe harbor. It is the responsibility of the master or person in charge to ensure that these limitations are met. However, under 46 U.S.C. 8104(f), the master or other licensed individual can require any part of the crew to work when, in his or her judgment, they are needed for:

(a) Maneuvering, shifting berth, mooring, unmooring;
(b) Performing work necessary for the safety of the vessel, or the vessel’s passengers, crew, or cargo;
(c) Saving of life on board another vessel in jeopardy; or,
(d) Performing fire, lifeboat, or other drills in port or at sea.

§ 15.715 Automated vessels.

(a) Coast Guard acceptance of automated systems to replace specific personnel or to reduce overall crew requirements is predicated upon the capabilities of the system, the system’s demonstrated and continuing reliability, and a planned maintenance program that ensures continued safe operation of the vessel.
(b) The OCMI considers the capabilities of an automated system in establishing initial manning levels; however, until the system is proven reliable, a manning level adequate to operate in a continuously attended mode will be specified on a vessel’s COI. It remains the responsibility of the vessel’s master to determine when a continuous watch is necessary.

§ 15.720 Use of non-U.S. licensed and/or documented personnel.

(a) United States vessels which need to replace one or more persons while on a foreign voyage and outside the jurisdiction of the United States, in order to meet manning requirements, may utilize non-U.S. licensed and documented personnel, except for the positions of master and radio officer, until the vessel returns to a port at which in the most expeditious manner replacements who are citizens of the United States can be obtained.
(b) The citizenship requirements of 46 U.S.C. 8103 (a) and (b) are waived, except for the requirement that the master must be a U.S. citizen, with respect to the following vessels:

(1) A U.S.-documented offshore supply vessel (OSV) (as that term is defined in 46 U.S.C. 2101(19)) that is operating from a foreign port; and

(2) A U.S.-documented mobile offshore drilling unit (MODU) (as that term is defined in 46 U.S.C. 2101(15a)) that is operating beyond the water above the U.S. Outer Continental Shelf.

(c) The waiver provided in paragraph (b) of this section does not apply to any vessel operating in water above the U.S. Outer Continental Shelf (as that term is defined in 43 U.S.C. 1331(a)).
(d) The master shall assure that any replacements of crewmembers by non-U.S. citizens made in accordance with this section will be with an individual who holds a license or document which is equivalent in experience, training, and other qualifications to the U.S. license or document required for the position and that the person possesses or will possess the training required to communicate to the extent required by § 15.730.

§ 15.725 Sailing short.

Whenever a vessel is deprived of the service of a member of its complement, and the master or person in charge is unable to find appropriate licensed or documented personnel to man the vessel, the master or person in charge may proceed on the voyage, having determined the vessel is sufficiently manned for the voyage. A report of sailing short must be filed in writing with the Officer in Charge, Marine Inspection (OCMI) having cognizance for inspection in the area in which the vessel is operating, or the OCMI within whose jurisdiction the voyage is completed. The report must explain the cause of each deficiency and be submitted within twelve hours after arrival at the next port. The actions of the master or person in charge in such instances are subject to review and it must be shown the vacancy was not due to the consent, fault or collusion of the master or other individuals specified in 46 U.S.C. 8101(e). A civil penalty may be assessed.
§ 15.730 Language requirements.

(a) The provisions of 46 U.S.C. 8702 relating to language apply generally to vessels of at least 100 gross tons except:

(1) Vessels operating on rivers and lakes (except the Great Lakes);
(2) A manned barge (except a seagoing barge or a barge to which chapter 37 of 46 U.S.C. applies);
(3) A fishing vessel, fish tender vessel, whaling vessel, or yacht;
(4) A sailing school vessel with respect to sailing school instructors and sailing school students;
(5) An oceanographic research vessel with respect to scientific personnel;
(6) A fish processing vessel which entered into service before January 1, 1988, and is not more than 1600 gross tons or which enters into service after December 31, 1987, and has not more than 16 individuals on board primarily employed in the preparation of fish or fish products; and,
(7) All fish processing vessels with respect to those personnel primarily employed in the preparation of fish or fish products or in a support position not related to navigation.

(b) 46 U.S.C. 8702(b) requires that on board vessels departing U.S. ports 75 percent of the crew in each department on board is able to understand any order spoken by the officers.

(c) The words able to understand any order spoken by the officers relates to any order to a member of the crew when directing the performance of that person’s duties and orders relating to emergency situations such as used for response to a fire or in using lifesaving equipment. It is not expected that a member of the deck department understand terminology normally used only in the engine room or vice versa.

(d) Whenever information is presented to the Coast Guard that a vessel fails to comply with the specified language requirements the Coast Guard investigates the allegation to determine its validity. In determining if an allegation is factual, the Coast Guard may require a demonstration by the licensed individuals and crew that appropriate orders are understood. The demonstration will require that orders be spoken to the individual members of the crew by the licensed individuals in the language ordinarily and customarily used by the licensed individuals. The orders must be spoken directly by the licensed individual to the crew member and not through an interpreter. Signs, gestures, or signals may not be used in the test. The Coast Guard representative will specify the orders to be given and will include not only daily routine but orders involving emergencies, either of a departmental or of a general nature. This test will be conducted, if possible, at a time reasonably in advance of the vessel’s departure, to avoid delays.

Subpart G—Computations

§ 15.801 General.

The OCM1 will determine the specific Manning levels for vessels required to have certificates of inspection by part B of subtitle II of title 46 U.S.C. The masters or individuals in command of all vessels, whether required to be inspected under 46 U.S.C. 3301 or not, are responsible for properly manning vessels in accordance with the applicable laws, regulations, and international conventions.

§ 15.805 Master.

(a) There must be an individual holding an appropriate license as master in command of each of the following vessels:

(1) Every self-propelled, seagoing documented vessel of 200 gross tons and over.
(2) Every self-propelled inspected vessel.
(3) Every inspected passenger vessel.
(4) Every inspected small passenger vessel.

(b) Every vessel documented under the laws of the United States, other than a vessel with only a recreational endorsement, must be under the command of a U.S. citizen.
§ 15.810 Mates.

(a) The OCMI determines the minimum number of licensed mates required for the safe operation of inspected vessels.

(b) The minimum number of licensed mates required to be carried on every inspected, self-propelled, seagoing and Great Lakes vessel, and every inspected seagoing, passenger vessel must not be less than the following, except when reductions are authorized under paragraph (e) of this section:

1. Vessels of 1000 gross tons or more (except MODUs) three licensed mates (except when on a voyage of less than 400 miles from port of departure to port of final destination—two licensed mates).

2. MODUs of 1000 gross tons or more:
   (i) Three licensed mates when on a voyage of more than 72 hours.
   (ii) Two licensed mates when on a voyage of more than 16 but not more than 72 hours.
   (iii) One licensed mate when on a voyage of not more than 16 hours.

3. Vessels of 100 or more gross tons but less than 1000 gross tons—two licensed mates (except vessels of at least 100 but less than 200 gross tons on voyages which do not exceed 24 hours in duration—one licensed mate).

4. All offshore supply vessels of 100 gross tons or more—two licensed mates (except when on a voyage of less than 600 miles—one licensed mate). A voyage includes the accrued distance from port of departure to port of arrival and does not include stops at offshore points.

5. All vessels of less than 100 gross tons—one licensed mate (except vessels on voyages not exceeding 12 hours in duration may, if the OCMI determines it to be safe, be operated without a mate).

(c) An individual in charge of the navigation or maneuvering of a self-propelled, uninspected, documented, seagoing vessel of 200 gross tons or over must hold an appropriate license authorizing service as mate.

(d) The OCMI may increase the minimum number of mates indicated in paragraph (b) of this section where he or she determines that the vessel's characteristics, route, or other operating conditions create special circumstances warranting an increase.

(e) The Commandant will consider reductions to the number of mates required by this section when special circumstances allowing a vessel to be safely operated can be demonstrated.


§ 15.812 Pilots.

(a) Except as specified in paragraph (f) of this section, the following vessels, not sailing on register, when underway on the navigable waters of the United States, must be under the direction and control of an individual qualified to serve as pilot under paragraph (b) or (c) of this section as appropriate:


2. Vessels navigating in the Great Lakes that are propelled by machinery and subject to inspection under 46 U.S.C. chapter 33 and subject to inspection under 46 U.S.C. chapter 37, or are tank barges subject to inspection under 46 U.S.C. chapter 37.

(b) The following individuals may serve as a pilot for a vessel subject to paragraph (a) of this section, when underway on the navigable waters of the United States that are designated areas:

1. An individual holding a valid first class pilot's license issued by the Coast Guard, operating within the restrictions of his or her license, may serve as pilot on any vessel to which this section applies.

2. An individual holding a valid license issued by the Coast Guard as master or mate, employed aboard a vessel within the restrictions of his or her license, may serve as pilot on a vessel of not more than 1,600 gross tons propelled by machinery, described in paragraphs (a)(1) and (a)(3) of this section, provided he or she is at least 21 years old;
(ii) Complies with the currency of knowledge provisions of §10.713 of this chapter; and

(iii) Has completed a minimum of four round trips over the route to be traversed while in the wheelhouse as watchstander or observer. At least one of the round trips must be made during the hours of darkness if the route is to be traversed during darkness.

(3) An individual holding a valid license issued by the Coast Guard as master, mate, or operator employed aboard a vessel within the restrictions of his or her license, may serve as pilot on a tank barge or tank barges totaling not more than 10,000 gross tons, described in paragraphs (a)(1) and (a)(3) of this section, provided he or she:

(i) Is at least 21 years old;

(ii) Complies with the currency of knowledge provisions of §10.713 of this chapter;

(iii) Has completed a minimum of twelve round trips over the route to be traversed, as an observer or under instruction in the wheelhouse. At least three of the round trips must be made during the hours of darkness if the route is to be traversed during darkness.

(c) An individual holding a valid license issued by the Coast Guard as master, mate, or operator, employed aboard a vessel within the restrictions of his or her license, may serve as pilot for a vessel subject to paragraph (a)(1) and (a)(2) of this section, when underway on the navigable waters of the United States that are not designated as first class pilotage areas, provided he or she:

(1) Is at least 21 years old;

(2) Complies with the currency of knowledge provisions of §10.713 of this chapter; and

(3) Has a current physical examination in accordance with the provisions of §10.709 of this chapter.

(d) In any instance when the qualifications of a person satisfying the requirements for pilotage through the provisions of this Subpart are questioned by the Coast Guard, the individual shall, within a reasonable time, provide the Coast Guard with documentation proving compliance with the applicable portion(s) of paragraphs (b) and (c) of this section.

(e) Federal pilotage requirements contained in paragraphs (a) through (d) of this section are summarized in two quick reference tables.

(1) Table 15.812(e)(1) provides a guide to the pilotage requirements for inspected, self-propelled vessels.

<table>
<thead>
<tr>
<th>Designated areas of pilotage waters (routes for which First Class Pilot's licenses are issued)</th>
<th>Nondesignated areas of pilotage waters (between the three mile line and the start of traditional pilotage routes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspected self-propelled vessels greater than 1,600 GT, authorized by their Certificate of Inspection (COI) to proceed beyond the Boundary Line, or operating on the Great Lakes.</td>
<td>Master of Mate may serve as pilot if the individual:</td>
</tr>
<tr>
<td>First Class Pilot ...............................................................</td>
<td>1. Is at least 21 years old.</td>
</tr>
<tr>
<td>First Class Pilot, or Master or Mate may serve as pilot if the individual:</td>
<td>2. Maintains current knowledge of the waters to be navigated.¹</td>
</tr>
<tr>
<td>1. Is at least 21 years old.</td>
<td>3. Has 4 round trips over the route.²</td>
</tr>
<tr>
<td>Master of Mate may serve as pilot if the individual:</td>
<td>¹ Maintains current knowledge of the waters to be navigated.¹</td>
</tr>
<tr>
<td>1. Is at least 21 years old.</td>
<td>² Has 4 round trips over the route.²</td>
</tr>
<tr>
<td>2. Maintains current knowledge of the waters to be navigated.¹</td>
<td>Master of Mate may serve as pilot if the individual:</td>
</tr>
<tr>
<td>3. Has 4 round trips over the route.²</td>
<td>1. Is at least 21 years old.</td>
</tr>
<tr>
<td>4. Maintains current knowledge of the waters to be navigated.¹</td>
<td>2. Has an annual physical exam.</td>
</tr>
<tr>
<td>5. Maintains current knowledge of the waters to be navigated.¹</td>
<td>3. Has 4 round trips over the route.²</td>
</tr>
</tbody>
</table>

(1) Table 15.812(e)(1) provides a guide to the pilotage requirements for inspected, self-propelled vessels.
Coast Guard, DOT

§ 15.812

TABLE 15.812(e)(1).—QUICK REFERENCE TABLE FOR FEDERAL PILOTAGE REQUIREMENTS FOR U.S. INSPECTED SELF-PROPELLED VESSELS, NOT SAILING ON REGISTER—Continued

<table>
<thead>
<tr>
<th>Inspected self-propelled vessels not more than 1,600 GT, not authorized by their COI to proceed beyond the Boundary Line (Inland route vessels); other than vessels operating on the Great Lakes.</th>
<th>Designated areas of pilotage waters (routes for which First Class Pilot’s licenses are issued)</th>
<th>Nondesignated areas of pilotage waters (between the three mile line and the start of traditional pilotage routes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No pilotage requirement</td>
<td>No pilotage requirement.</td>
</tr>
</tbody>
</table>

1 One round trip within the past 60 months.
2 If the route is to be traversed during darkness, 1 of the 4 round trips must be made during darkness.

(2) Table 15.812(e)(2) provides a guide to the pilotage requirements for tank barges.

TABLE 15.812(e)(2).—QUICK REFERENCE TABLE FOR FEDERAL PILOTAGE REQUIREMENTS FOR U.S. INSPECTED TANK BARGES, NOT SAILING ON REGISTER

<table>
<thead>
<tr>
<th>Tank Barges greater than 10,000 GT, authorized by their Certificate of Inspection to proceed beyond the Boundary Line, or operating on the Great Lakes.</th>
<th>Designated areas of pilotage waters (routes for which First Class Pilot’s licenses are issued)</th>
<th>Nondesignated areas of pilotage waters (between the three mile line and the start of traditional pilotage routes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Class Pilot</td>
<td>Master, Mate, or Operator may serve as pilot if the individual:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Is at least 21 years old.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Has an annual physical exam.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Maintains current knowledge of the waters to be navigated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Has at least 6 months’ service in the deck department on towing vessels engaged in towing operations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Has 12 round trips over the route.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tank Barges 10,000 GT or less, authorized by their Certificate of Inspection to proceed beyond the Boundary Line, or operating on the Great Lakes.</th>
<th>Designated areas of pilotage waters (routes for which First Class Pilot’s licenses are issued)</th>
<th>Nondesignated areas of pilotage waters (between the three mile line and the start of traditional pilotage routes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Class Pilot, Master, Mate, or Operator may serve as pilot if the individual:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Is at least 21 years old.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Has an annual physical exam.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Maintains current knowledge of the waters to be navigated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Has at least 6 months’ service in the deck department on towing vessels engaged in towing operations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Has 12 round trips over the route.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tank Barges authorized by their Certificate of Inspection for Inland routes only (Lakes, Bays, and Sounds/Rivers); other than vessels operating on the Great Lakes.</th>
<th>Designated areas of pilotage waters (routes for which First Class Pilot’s licenses are issued)</th>
<th>Nondesignated areas of pilotage waters (between the three mile line and the start of traditional pilotage routes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No pilotage requirement</td>
<td>No pilotage requirement.</td>
</tr>
</tbody>
</table>

1 Annual physical exam does not apply to an individual who will serve as a pilot of a Tank Barge of less than 1,600 gross tons.
2 If the route is to be traversed during darkness, 3 of the 12 round trips must be made during darkness.

(f) In Prince William Sound, Alaska, coastwise seagoing vessels over 1,600 gross tons and propelled by machinery and subject to inspection under 46 U.S.C. Chapter 37 must:

(1) When operating from 60°49’ North latitude to the Port of Valdez be under the direction and control of a federally licensed pilot who:

(i) Is operating under the Federal license;

(ii) Holds a license issued by the State of Alaska; and

(iii) Is not a member of the crew of the vessel.

(2) Navigate with either two licensed deck officers on the bridge or a federally licensed pilot when operating South of 60°49’ North latitude and in the approaches through Hinchinbrook Entrance and in the area bounded:
§ 15.815 Radar observers.

(a) Each person in the required complement of licensed deck individuals, including the master, on inspected vessels of 300 gross tons or over which are radar equipped, shall hold a valid endorsement as radar observer.

(b) Each person who is employed or serves as pilot in accordance with Federal law on board vessels of 300 gross tons or over which are radar equipped, shall hold a valid endorsement as radar observer.

(c) Each person having to be licensed under 46 U.S.C. 8904(a) for employment or service as master, mate, or operator on board an uninspected towing vessel of 8 meters (approximately 26 feet) or more in length shall, if the vessel is equipped with radar, hold—

1. A valid endorsement as radar observer; or,

2. If the person holds a valid license dated before June 1, 1995, a valid certificate from a Radar-Operation course.

§ 15.820 Chief engineer.

(a) There must be an individual holding an appropriate license as chief engineer or a license authorizing service as chief engineer employed on board the following inspected mechanically propelled vessels:

1. Seagoing or Great Lakes vessels of 200 gross tons and over.

2. Offshore supply vessels of more than 200 gross tons.

3. Inland (other than Great Lakes) vessels of 300 gross tons and over, if the OCMi determines that a licensed individual responsible for the vessel's mechanical propulsion is necessary.

(b) An individual engaged or employed to perform the duties of chief engineer on a mechanically propelled, uninspected, seagoing, documented vessel of 200 gross tons or over must hold an appropriate license authorizing service as a chief engineer.

§ 15.825 Engineers.

(a) An individual in charge of an engineering watch on a mechanically propelled, seagoing, documented vessel of 200 gross tons or over, other than an individual described in §15.820, must hold an appropriate license authorizing service as an assistant engineer.

(b) The Officer in Charge, Marine Inspection determines the minimum number of licensed engineers required for the safe operation of inspected vessels.

§ 15.830 Radio officers.

Radio officers are required on certain merchant vessels of the United States. The determination of when a radio officer is required is based on the Federal Communications Commission requirements.

§ 15.835 Staff officers.

Staff officers, when carried, must be registered as specified in part 10 of this chapter.

§ 15.840 Able seamen.

(a) With certain exceptions, 46 U.S.C. 8702 applies to all vessels of at least 100 gross tons. At least 65 percent of the deck crew of these vessels, excluding licensed individuals, must be able seamen. For vessels permitted to maintain a two watch system, the percentage of able seamen may be reduced to 50 percent.

(b) Able seamen are rated as: unlimited, limited, special, offshore supply vessel, sail, and fishing industry, under the provisions of part 12 of this chapter. 46 U.S.C. 7312 specifies the categories of able seamen (i.e., unlimited, limited, etc.) necessary to meet the requirements of 46 U.S.C. 8702.

(c) It is the responsibility of the master or person in charge to ensure that the able seamen in the service of the
§ 15.845 Lifeboatmen.

The number of lifeboatmen required for a vessel are specified in the parts of the regulations dealing with the inspection of that specific type of vessel.

§ 15.850 Lookouts.

The requirements for the maintenance of a proper lookout are specified in Rule 5 of the International Regulations for Preventing Collisions at Sea, 1972, and Rule 5 of the Inland Navigational Rules Act of 1980 (33 U.S.C. 2005). Lookout is a function to be performed by a member of a navigational watch.

§ 15.855 Cabin watchmen and fire patrols.

(a) On vessels carrying passengers at night, the master or person in charge shall ensure that a suitable number of watchmen are in the vicinity of the cabins or staterooms and on each deck, to guard against and give alarm in case of fire or other danger.

(b) On a fish processing vessel of more than 100 gross tons, there must be a suitable number of watchmen trained in firefighting on board when hot work is being done, to guard against and give alarm in case of a fire.

§ 15.860 Tankerman.

(a) The Officer in Charge, Marine Inspection, enters on the Certificate of Inspection issued to each manned tank vessel subject to the regulations in this chapter the number of crewmembers required to hold valid merchant mariners’ documents with the proper tankerman endorsement. Table 15.860(a)(1) provides the minimal requirements for tankermen aboard manned tank vessels; Table 15.860(a)(2) provides the tankerman endorsements required for personnel aboard tankships.

(b) For each tankship of more than 5,000 gross tons certified for voyages beyond the Boundary Line:

(1) The number of “Tankerman-PICs” or restricted “Tankerman-PICs” carried must be not fewer than two.

(2) The number of “Tankerman-Engineers” carried must be not fewer than two.

(c) For each tankship of 5,000 gross tons or less certified for voyages beyond the Boundary Line:

(1) The number of “Tankerman-PICs” or restricted “Tankerman-PICs” carried must be not fewer than two.

(2) The number of “Tankerman-Engineers” carried must be not fewer than two, unless only one engineer is required, in which case the number of “Tankerman-Engineers” carried may be just one.

(d) For each tankship not certified for voyages beyond the Boundary Line, if the total crew complement is:

(1) One or two, the number of “Tankerman-PICs” or restricted “Tankerman-PICs” carried may be just one.

(2) More than two, the number of “Tankerman-PICs” or restricted “Tankerman-PICs” carried must be not fewer than two.

(e) For each tank barge manned under §31.15-5 of this chapter, if the total crew complement is:

(1) One or two, the number of “Tankerman-PICs”, restricted “Tankerman-PICs”, “Tankerman-PICs (Barge)”, or restricted “Tankerman-PICs (Barge)” carried must be not fewer than two.

(f) The following personnel aboard each tankship certified for voyages beyond the Boundary Line shall hold valid merchant mariners’ documents, endorsed as follows:

(1) The master and chief mate shall each hold a “Tankerman-PIC” or restricted “Tankerman-PIC” endorsement.

(2) The chief, first assistant, and cargo engineers shall each hold a “Tankerman-Engineer” or “Tankerman (PIC)” endorsement.

(3) Each licensed person acting as the PIC of a transfer of liquid cargo in bulk shall hold a “Tankerman-PIC” or restricted “Tankerman-PIC” endorsement.
§ 15.901  Inspected vessels of less than 100 gross tons.

(a) An individual holding a license as mate or pilot of inspected, self-propelled vessels of over 200 gross tons is authorized to serve as master on inspected vessels of less than 100 gross tons within any restrictions on the individual’s license.

(b) An individual holding a license authorizing service as master of inspected, self-propelled vessels is authorized to serve as master on or mate, respectively, of non-self-propelled vessels other than sail vessels, within any restrictions on the individual’s license.

(c) An individual holding a license authorizing service as master or mate of inspected, sail vessels is authorized to serve as master or mate, respectively, of other non-self-propelled vessels, within any restrictions on the individual’s license.

(d) An individual holding a license authorizing service as master or mate of inspected, auxiliary sail vessels, is authorized to serve as master or mate, respectively, of self-propelled and non-self-propelled vessels, within any restrictions on the individual’s license.

[CGD 81-059, 54 FR 150, Jan. 4, 1989]

§ 15.905  Uninspected passenger vessels.

(a) An individual holding a license as master or pilot of inspected, self-propelled vessels is authorized to serve as operator of uninspected passenger vessels within any restrictions, other than gross tonnage limitations, on the individual’s license.
(b) An individual holding a license as mate of inspected, self-propelled vessels, other than Great Lakes, inland, or river vessels of not more than 200 gross tons, is authorized to serve as operator of uninspected passenger vessels, within any restrictions, other than gross tonnage limitations, on the individual's license.

[CGD 81-059, 54 FR 150, Jan. 4, 1989]

§ 15.910 Uninspected towing vessels.

(a) An individual of 21 years or more of age holding a license as master of inspected, self-propelled vessels, or a license as mate or pilot of inspected, self-propelled vessels of more than 200 gross tons, is authorized to serve as operator of uninspected towing vessels within any restrictions on the individual's license. A licensed mate or pilot authorized by this section to serve as operator of uninspected towing vessels may only be in command of the vessel on domestic routes.

(b) Whenever an uninspected towing vessel is under the direction and control of a person holding a license for service only as second-class operator of uninspected towing vessels, a person holding a license authorizing service as operator of uninspected towing vessels must be on board as a member of the crew.

(c) An individual of 19 years or more of age holding a license which authorizes service as mate of vessels of not more than 200 gross tons authorizes the holder to serve as second-class operator of uninspected towing vessels within any restrictions on the individual's license.

[CGD 81-059, 54 FR 150, Jan. 4, 1989]

§ 15.915 Engineer licenses.

The following licenses authorize the holder to serve as noted, within any restrictions on the license:

(a) A designated duty engineer license authorizes service as chief or assistant engineer on vessels of not more than 500 gross tons authorizes the holder to serve as second-class operator of uninspected towing vessels within any restrictions on the individual's license.

(b) A chief engineer (limited-oceans) license authorizes service as chief or assistant engineer on vessels of any gross tons on inland waters and of not more than 1600 gross tons on ocean, near coastal, or Great Lakes waters.

(c) A chief engineer (limited-near coastal) license authorizes service as chief or assistant engineer on vessels of any gross tons on inland waters and of not more than 1600 gross tons on near coastal or Great Lakes waters.

(d) An assistant engineer (limited-oceans) license authorizes service on vessels of any gross tons on inland waters and of not more than 1600 gross tons on ocean, near coastal, or Great Lakes waters.

[CGD 81-059, 54 FR 150, Jan. 4, 1989]

Subpart I—Vessels in Foreign Trade

SOURCE: CGD 92-061, 60 FR 24796, May 10, 1995, unless otherwise noted.

§ 15.1001 General.

Self-propelled vessels engaged in foreign commerce are required to use a pilot holding an appropriately endorsed Federal first class pilot's license issued by the Coast Guard when operating in the navigable waters of the United States specified in this subpart.

§ 15.1010 California.

The following offshore marine oil terminals located within U.S. navigable waters of the State of California:

(a) Carlsbad, CA. The waters including the San Diego Gas and Electric, Encina Power Plant, lying within an area bounded by a line beginning at latitude 33°10'06"N, longitude 117°21'42"W, thence southwesterly to latitude 33°05'36"N, longitude 117°24'36"W, thence northeasterly along the shoreline to latitude 33°04'30"N, longitude 117°21'42"W, thence northwesterly to longitude 117°18'54"W, thence northerly along the shoreline to latitude 33°10'06"N, longitude 117°21'42"W.
(b) Huntington Beach, CA. The waters including the Golden West Refining Company, Huntington Beach Marine Terminal, lying within an area bounded by a line beginning at latitude 33°39′06″N, longitude 118°00′00″W, thence westerly to latitude 33°39′18″N, longitude 118°05′12″W, thence southeasterly along a line drawn three nautical miles from the baseline to latitude 33°35′30″N, longitude 118°00′00″W, thence easterly to latitude 33°35′30″N, longitude 117°52′30″W, thence northwesterly along the shoreline to latitude 33°39′06″N, longitude 118°00′00″W.

(c) El Segundo, CA. The waters including the Chevron USA, El Segundo Marine Terminal, lying within an area bounded by a line beginning at latitude 33°56′18″N, longitude 118°26′18″W, thence westerly to latitude 33°56′18″N, longitude 118°30′04″W, thence southeasterly along a line drawn three nautical miles from the baseline to latitude 33°51′48″N, longitude 118°27′54″W, thence easterly to latitude 33°51′48″N, longitude 118°24′00″W, thence northwesterly along the shoreline to latitude 33°56′18″N, longitude 118°26′18″W.

(d) Oxnard, CA. The waters including the Southern California Edison Company, Mandalay Generating Station, lying within an area bounded by a line beginning at latitude 34°14′12″N, longitude 119°16′00″W, thence westerly to latitude 34°14′12″N, longitude 119°19′36″W, thence southeasterly along a line drawn three nautical miles from the baseline to latitude 34°09′24″N, longitude 119°17′20″W, thence easterly to latitude 34°09′24″N, longitude 119°13′24″W, thence northwesterly along the shoreline to latitude 34°14′24″N, longitude 119°16′00″W.

(e) Goleta, CA. The waters including the ARCO, Ellwood Marine Terminal, lying within an area bounded by a line beginning at latitude 34°26′12″N, longitude 119°57′00″W, thence southerly to latitude 34°22′48″N, longitude 119°57′00″W, thence southeasterly along a line drawn three nautical miles from the baseline to latitude 34°21′06″N, longitude 119°50′30″W, thence northerly to latitude 34°24′18″N, longitude 119°50′30″W, thence northwesterly along the shoreline to latitude 34°26′12″N, longitude 119°57′00″W.

(f) Gaviota, CA. The waters including the Texaco Trading and Transportation, Gaviota Marine Terminal, lying within an area bounded by a line beginning at latitude 34°28′06″N, longitude 120°16′00″W, thence southerly to latitude 34°25′06″N, longitude 120°16′00″W, thence easterly along a line drawn three nautical miles from the baseline to latitude 34°25′24″N, longitude 120°08′30″W, thence northerly to latitude 34°28′24″N, longitude 120°08′30″W, thence westerly along the shoreline to latitude 34°28′06″N, longitude 120°16′00″W.

(g) Moss Landing, CA. The waters including the Pacific Gas and Electric Company Power Plant, lying within an area bounded by a line beginning at latitude 36°49′00″N, longitude 121°47′42″W, thence westerly to latitude 36°47′00″N, longitude 121°51′00″W, thence southerly to latitude 36°47′00″N, longitude 121°51′00″W thence easterly to latitude 36°47′00″N, longitude 121°47′54″W, thence northerly along the shoreline to latitude 36°49′00″N, longitude 121°47′42″W.

(h) Estero Bay, CA. The waters including various moorings, including the Pacific Gas and Electric Company mooring and the two Chevron Oil Company Terminals lying within an area bounded by a line beginning at latitude 36°25′00″N, longitude 120°52′30″W, thence westerly to latitude 36°25′00″N, longitude 120°56′00″W, thence southerly to latitude 36°22′00″N, longitude 120°52′12″W, thence northerly along the shoreline to latitude 36°25′00″N, longitude 120°52′30″W.

(i) San Luis Obispo Bay, CA. The waters including the Unocal Corporation Avila Terminal and the approaches thereto, lying in an area bounded by a line beginning at latitude 35°09′42″N, longitude 120°46′00″W, thence southerly to latitude 35°07′00″N, longitude 120°46′00″W, thence easterly to latitude 35°07′00″N, longitude 120°43′00″W, thence northerly to latitude 35°10′24″N, longitude 120°43′00″W, thence westerly along the shoreline to latitude 35°09′42″N, longitude 120°46′00″W.

Coast Guard, DOT

§ 15.1020 Hawaii.
The following offshore marine oil terminals located within U.S. navigable waters of the State of Hawaii: Barbers Point, Island of Oahu. The waters including the Hawaiian Independent Refinery, Inc. and the Chevron moorings lying within an area bounded by a line bearing 180 degrees true from Barbers Point Light to latitude 21°14.8′N, longitude 158°06.4′W, thence easterly to latitude 21°15.6′N, longitude 158°03.3′W, thence northeasterly to latitude 21°18.5′N, longitude 158°02.0′W, thence westerly along the shoreline to latitude 21°17.8′N, longitude 158°06.4′W.

§ 15.1030 New York and New Jersey.
The following U.S. navigable waters located within the States of New York and New Jersey when the vessel is making an intra-port transit, to include, but not limited to, a movement from a dock to a dock, from a dock to an anchorage, from an anchorage to a dock, or from an anchorage to an anchorage, within the following listed operating areas:

(a) East River from Execution Rocks to New York Harbor, Upper Bay;
(b) Hudson River from Yonkers, New York to New York Harbor, Upper Bay;
(c) Raritan River from Grossman Dock/Arsenal to New York Harbor, Lower Bay;
(d) Arthur Kill Channel;
(e) Kill Van Kull Channel;
(f) Newark Bay;
(g) Passaic River from Point No Point to Newark Bay;
(h) Hackensack River from the turning basin to Newark Bay; and
(i) New York Harbor, Upper and Lower Bay.

§ 15.1040 Massachusetts.
The following U.S. navigable waters located within the State of Massachusetts when the vessel is in transit, but not bound to or departing from a port within the following listed operating areas:

(a) Cape Cod Bay south of latitude 41°48′54″N;
(b) The Cape Cod Canal; and
(c) Buzzards Bay east of a line extending from the southernmost point of Wilbur Point (latitude 41°34′55″N longitude 70°51′15″W) to the easternmost point of Pasque Island (latitude 41°26′55″N longitude 70°50′30″W).

§ 15.1050 North Carolina.
(a) The following navigable waters of the United States within the State of North Carolina when the vessel is maneuvering while berthing or unberthing, is approaching or passing through a bridge, or is making any intra-port transit, which transit may include but is not limited to movement from a dock to a dock, from a dock to an anchorage, from an anchorage to a dock, or from an anchorage to an anchorage, within either of the following areas:

(1) The waters of the Cape Fear River from the boundary line established by 46 CFR 7.60 to Latitude 34°16.5″N.
(2) The waters of the Northeast Cape Fear River from its confluence with the Cape Fear River at Point Peter to Latitude 34°17″N.
(b) This subpart does not apply to any vessel on the waters specified in paragraph (a) of this section if the laws of the State of North Carolina require a State-licensed pilot on the vessel.

§ 15.1101 General.
(a) Definitions. For purposes of this subpart, the term—

(2) STCW Code means the Seafarer's Training, Certification and Watchkeeping Code;
(3) Seagoing vessel means a self-propelled vessel in commercial service that operates beyond the Boundary Line established by 46 CFR part 7. It does not include a vessel that navigates exclusively on inland waters;
§ 15.1103 Employment and service within restrictions of license, document, and STCW endorsement.

(a) On board a seagoing vessel operating beyond the Boundary Line, no person may employ or engage any person to serve, and no person may serve, in a position requiring a person to hold an STCW endorsement, including master, chief mate, chief engineer, second engineer, officer of the navigational or engineering watch, or radio operator, unless the person serving holds an appropriate, valid STCW certificate or endorsement issued in accordance with part 12 of this chapter.

(b) On board a seagoing vessel of 500 GT or more, no person may employ or engage any person to serve, and no person may serve, as a rating forming part of the navigational watch, unless the person serving holds the appropriate certificate for operator of radio in GMDSS.

(c) After January 31, 2002, on board a seagoing vessel driven by main propulsion machinery of 750 kW [1,000 hp] propulsion power or more, no person may employ or engage any person to serve, and no person may serve, in a rating forming part of a watch in a manned engine-room, nor may any person be designated to perform duties in a periodically unmanned engine-room, except for training, unless the person serving holds an appropriate, valid STCW certificate or endorsement issued in accordance with part 12 of this chapter.

(d) After January 31, 1997, no person may either be engaged or employed to serve on board a roll-on/roll-off (Ro-Ro) passenger ship to which a certificate signifying compliance with the International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS), has been issued, or perform duties on board such a ship, unless he or she holds documentary evidence to show he or she meets the requirements of §10.1005 or §12.30-5 of this chapter, whichever is appropriate to the service or the duties.

(e) After January 31, 2002, on board a seagoing vessel required to comply with provisions of the Global Maritime Distress and Safety System (GMDSS) in Chapter IV of SOLAS, no person may employ or engage any person to serve, and no person may serve, as the master, chief mate, or officer of the navigational watch, unless the person serving holds the appropriate certificate for operator of radio in GMDSS.

(f) After January 31, 1999, on board a seagoing vessel required to comply with provisions of the GMDSS in Chapter IV of SOLAS, no person may employ or engage any person to serve, and no person may serve, as the person designated to perform at-sea maintenance of GMDSS installations, when such designation is used to meet the maintenance requirements of SOLAS Regulation IV/15, which allows for capability of at-sea electronic maintenance to ensure that radio equipment is available for radio communication, unless the person serving holds documentary evidence that he or she is competent to maintain GMDSS equipment.

(g) After January 31, 2002, on board a seagoing vessel fitted with an Automatic Radar-Plotting Aid (ARPA), no person may employ or engage any person to serve, and no person may serve, as the master, chief mate, or officer of the navigational watch, unless the person serving has been trained in the use
§ 15.1105 Familiarization and basic safety-training.

(a) After January 31, 1997, on board a seagoing vessel, no person may assign any person to perform shipboard duties, and no person may perform those duties, unless the person performing them has received—

1. Training in personal survival techniques as set out in the standard of competence under STCW Regulation VI/1; or

2. Sufficient familiarization training or instruction that he or she—

(i) Can communicate with other persons on board about elementary safety matters and understand informational symbols, signs, and alarm signals concerning safety;

(ii) Knows what to do if a person falls overboard; if fire or smoke is detected; or if the firm alarm or abandon-ship alarm sounds;

(iii) Can identify stations for muster and embarkation, and emergency-escape routes;

(iv) Can locate and don life-jackets;

(v) Can raise the alarm and knows the use of portable fire extinguishers;

(vi) Can take immediate action upon encountering an accident or other medical emergency before seeking further medical assistance on board; and

(vii) Can close and open the fire doors, weather-tight doors, and watertight doors fitted in the vessel other than those for hull openings.

(b) After January 31, 1997, on board a seagoing vessel, no person may assign a shipboard duty or responsibility to any person who is serving in a position that must be filled as part of the required crew complement, and no person may perform any such duty or responsibility, unless the person performing it can produce evidence of having—

1. Received appropriate approved basic safety training or instruction as set out in the standards of competence under STCW Regulation VI/1, with respect to personal survival techniques, fire prevention and fire-fighting, elementary first aid, and personal safety and social responsibilities; and

2. Achieved or, if training has been completed, maintained competence within the last 5 years, in accordance with STCW regulation VI/1.

(d) Subject to training requirements that may apply for issue or renewal of a license or document under part 10 or 12 of this chapter, a person who is serving on a seagoing vessel immediately before February 1, 1997, and has not received training or instruction in basic safety training, may continue to serve until February 1, 2002, without receiving such training or instruction, if he or she can produce evidence of having participated in well-organized drills and other structured exercises or in on-board safety-training programs during which his or her performance was evaluated and weaknesses were brought to his or her attention.

(e) Fish-processing vessels in compliance with the provisions of 46 CFR part 28 on instructions, drills, and safety orientation are deemed to be in compliance with the requirements of this section on familiarization and basic safety-training.

§ 15.1107 Maintenance of merchant mariners’ records by owner or operator.

Each owner or operator of a U.S.-documented seagoing vessel shall ensure that procedures are in place, in respect of each merchant mariner holding a license or merchant mariner’s document and serving on any such vessel, to ensure that the following information is maintained throughout his or her service, and is readily accessible to those in management responsible for the safety of the vessel and for the prevention of marine pollution:
§ 15.1109

(a) Medical fitness (such as results of a recent evaluation by a medical professional certifying that the mariner is physically able to perform the tasks and duties normally associated with a particular shipboard position or does not have an apparent medical condition that disqualifies him or her from the requirements of a particular shipboard position).

(b) Experience and training relevant to assigned shipboard duties (i.e., record of training completed, and of relevant on-the-job experience acquired).

(c) Competency in assigned shipboard duties (evidenced by copies of current licenses, documents, or endorsements that the mariner holds, as well as by a record of the most recent basic safety assessment and by instances where ship-specific familiarization has been achieved and maintained).

§ 15.1109 Watches.

Each master of a vessel that operates beyond the Boundary Line shall ensure observance of the principles concerning watchkeeping set out in STCW Regulation VIII/2 and section A-VIII/2 of the STCW Code.

§ 15.1111 Work hours and rest periods.

(a) After January 31, 1997, each person assigned duty as officer in charge of a navigational or engineering watch, or duty as a rating forming part of a navigational or engineering watch, on board any vessel that operates beyond the Boundary Line shall receive a minimum of 10 hours of rest in any 24-hour period.

(b) The hours of rest required under paragraph (a) of this section may be divided into no more than two periods, of which one must be at least 6 hours in length.

(c) The requirements of paragraphs (a) and (b) of this section need not be maintained in the case of an emergency or drill or in other overriding operational conditions.

(d) The minimum period of 10 hours of rest required under paragraph (a) of this section may be reduced to not less than 6 consecutive hours as long as—

(1) No reduction extends beyond 2 days; and

(2) Not less than 70 hours of rest are provided each 7-day period.

(e) The minimum period of rest required under paragraph (a) of this section may not be devoted to watchkeeping or other duties.

(f) Watchkeeping personnel remain subject to the work-hour limits in 46 U.S.C. 8104 and to the conditions when crew members may be required to work.

(g) The Master shall post watch schedules where they are easily accessible. They must cover each affected member of the crew and must take into account the rest requirements of this section as well as port rotations and changes in the vessel’s itinerary.

PART 16—CHEMICAL TESTING

Subpart A—General

Sec.
16.101 Purpose of regulations.
16.105 Definitions of terms used in this part.

Subpart B—Required Chemical Testing

16.201 Application.
16.205 Implementation of chemical testing programs.
16.207 Conflict with foreign laws.
16.210 Pre-employment testing requirements.
16.220 Periodic testing requirements.
16.230 Random testing requirements.
16.240 Serious marine incident testing requirements.
16.250 Reasonable cause testing requirements.

Subpart C—Standards for Chemical Testing for Dangerous Drugs

16.301 Procedures for Transportation Workplace Drug Testing Programs.
16.310 General.
16.320 Chain of custody.
16.330 Specimen handling and shipping.
16.340 Test laboratory requirements.
16.350 Specimen analyses.
16.360 Specimen analysis reports.
16.370 Medical Review Officer.

Subpart D—Employee Assistance Programs

16.401 Employee Assistance Program (EAP).
Subpart E—Management Information System

§ 16.105 Definitions of terms used in this part.

Chemical test means a scientifically recognized test which analyzes an individual’s breath, blood, urine, saliva, bodily fluids, or tissues for evidence of dangerous drug or alcohol use.

Crewmember means an individual who is:

(a) On board a vessel acting under the authority of a license, certificate of registry, or merchant mariner’s document issued under this subchapter, whether or not the individual is a member of the vessel’s crew; or

(b) Engaged or employed on board a vessel owned in the United States that is required by law or regulation to engage, employ, or be operated by an individual holding a license, certificate of registry, or merchant mariner’s document issued under this subchapter, except the following:

(1) Individuals on fish processing vessels who are primarily employed in the preparation of fish or fish products, or in a support position, and who have no duties that directly affect the safe operation of the vessel;

(2) Scientific personnel on an oceanographic research vessel;

(3) Individuals on industrial vessels who are industrial personnel, as defined in this chapter; and

(4) Individuals not required under part 15 of this subchapter who have no duties that directly affect the safe operation of the vessel.

Dangerous drug means a narcotic drug, a controlled substance, or a controlled-substance analog (as defined in section 102 of the Comprehensive Drug Abuse and Control Act of 1970 (21 U.S.C. 802)).

Dangerous drug level means the amount of traces of dangerous drugs or drug metabolites in an individual’s breath, blood, urine, saliva, or body fluids or tissues.

Drug test means a chemical test of an individual’s urine for evidence of dangerous drug use.

Employer means a marine employer or sponsoring organization.

Fails a chemical test for dangerous drugs means that the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as “positive” for the presence of dangerous drugs or drug metabolites in an individual’s system by a Medical Review Officer in accordance with that part.

Intoxicant means any form of alcohol, dangerous drug, or combination thereof.

Marine employer means the owner, managing operator, charterer, agent, master, or person in charge of a vessel, other than a recreational vessel.

Medical Review Officer means an individual designated by the employer to carry out the duties specified in §16.370 of this part.

Operation means to navigate, steer, direct, manage, or sail a vessel, or to control, monitor, or maintain the vessel’s main or auxiliary equipment or systems. Operation includes:

(a) Determining the vessel’s position, piloting, directing the vessel along a
desired trackline, keeping account of the vessel's progress through the water, ordering or executing changes in course, rudder position, or speed, and maintaining a look out;

(b) Controlling, operating, monitoring, maintaining, or testing: the vessel's propulsion and steering systems; electric power generators; bilge, ballast, fire, and cargo pumps; deck machinery including winches, windlasses, and lifting equipment; lifesaving equipment and appliances; firefighting systems and equipment; and navigation and communication equipment; and

(c) Mooring, anchoring, and line handling; loading or discharging of cargo or fuel; assembling or disassembling of tows; and maintaining the vessel's stability and watertight integrity.

Passes a chemical test for dangerous drugs means the result of a chemical test conducted in accordance with 49 CFR part 40 is reported as ‘negative’ by a Medical Review Officer in accordance with that part.

Positive rate means the number of positive results for random drug tests conducted under this part plus the number of refusals to take random tests required by this part, divided by the total number of random drug tests conducted under this part plus the number of refusals to take random tests required by this part.

Refuse to submit means that a crewmember fails to provide a urine sample as required by 49 CFR part 40, without a genuine inability to provide a specimen (as determined by a medical evaluation), after he or she has received notice of the requirement to be tested in accordance with the provisions of this part, or engages in conduct that clearly obstructs the testing process.

Serious marine incident means an event defined in 46 CFR 4.03-2.

Sponsoring organization is any company, consortium, corporation, association, union, or other organization with which individuals serving in the marine industry, or their employers, are associated.

Vessel owned in the United States means any vessel documented or numbered under the laws of the United States; and any vessel owned by a citizen of the United States that is not documented or numbered by any nation.

Subpart B—Required Chemical Testing
§ 16.201 Application.
(a) Chemical testing of personnel must be conducted as required by this subpart.

(b) If an individual fails a chemical test for dangerous drugs under this part, the individual will be presumed to be a user of dangerous drugs.

(c) If an individual holding a license, certificate of registry, or merchant mariner's document fails a chemical test for dangerous drugs, the individual's employer or prospective employer shall report the test results in writing to the nearest Coast Guard Officer in Charge, Marine Inspection (OCMI). The individual shall be denied employment as a crewmember or removed from duties which directly affect the safe operation of the vessel as soon as practicable and shall be subject to suspension and revocation proceedings against his or her license, certificate of registry, or merchant mariner's document under 46 CFR part 5.

(d) If an individual who does not hold a license, certificate of registry, or merchant mariner's document fails a chemical test for dangerous drugs, the individual shall be denied employment as a crewmember or removed from duties which directly affect the safe operation of the vessel as soon as possible.

(e) An individual who has failed a required chemical test for dangerous drugs may not be reemployed aboard a vessel until the requirements of §16.370(d) of this part and 46 CFR part 5, if applicable, have been satisfied.

§ 16.205 Implementation of chemical testing programs.
(a) When a vessel owned in the United States is operating in waters
that are not subject to the jurisdiction of the United States, the testing requirements of §§16.210 and 16.230 do not apply to a citizen of a foreign country engaged or employed as pilot in accordance with the laws or customs of that foreign country.

(b) Upon written request of an employer, Commandant (G-MOA) will review the employer’s chemical testing program to determine compliance with the provisions of this part.

§16.207 Conflict with foreign laws.

(a) This part applies to the testing of all U.S. crewmembers onboard U.S. vessels operating in waters that are subject to the jurisdiction of a foreign government on and after January 2, 1997; however, implementation may be delayed until July 1, 1997.

(b) Employers for whom compliance with this part would violate the domestic laws or policies of another country may request an exemption from the drug testing requirements of this part by submitting a written request to Commandant (G-MOA), at the address listed in §16.500(a).


§16.210 Pre-employment testing requirements.

(a) No marine employer shall engage or employ any individual to serve as a crewmember unless the individual passes a chemical test for dangerous drugs for that employer.

(b) An employer may waive a pre-employment test required for a job applicant by paragraph (a) of this section if the individual provides satisfactory evidence that he or she has:

(1) Passed a chemical test for dangerous drugs, required by this part, within the previous six months with no subsequent positive drug tests during the remainder of the six-month period; or

(2) During the previous 185 days been subject to a random testing program required by §16.230 for at least 60 days and did not fail or refuse to participate in a chemical test for dangerous drugs required by this part.


§16.220 Periodic testing requirements.

(a) Except as provided by paragraph (c) of this section, and §§10.209(h) and 12.02-9(f) of this subchapter, an applicant for an original issuance or a renewal of a license or a certificate of registry (COR), a raise in grade of a license, a higher grade of COR, an original issuance of a merchant mariner’s document (MMD), the first endorsement as an able seaman, lifeboatman, qualified member of the engine department, or tankerman, or a reissuance of an MMD with a new expiration date shall be required to pass a chemical test for dangerous drugs. The applicant shall provide the results of the test to the Coast Guard Regional Examination Center (REC) at the time of submitting an application. The test results must be completed and dated not more than 185 days prior to submission of the application.

(b) Unless excepted under paragraph (c) of this section, each pilot required by this subchapter to receive an annual physical examination must pass a chemical test for dangerous drugs as a part of that examination. The individual shall provide the results of each test required by this section to the REC when the pilot applies for a license renewal or when requested by the Coast Guard.

(c) An applicant need not submit evidence of passing a chemical test for dangerous drugs required by paragraph (a) or (b) of this section if he or she provides satisfactory evidence that he or she has—

(1) Passed a chemical test for dangerous drugs required by this part within the previous six months with no subsequent positive chemical tests during the remainder of the 6-month period; or

(2) During the previous 185 days been subject to a random testing program required by §16.230 for at least 60 days and did not fail or refuse to participate in a chemical test for dangerous drugs required by this part.
§ 16.230 Random testing requirements.

(a) Marine employers shall establish programs for the chemical testing for dangerous drugs on a random basis of crewmembers on inspected vessels who:

(1) Occupy a position, or perform the duties and functions of a position, required by the vessel’s Certificate of Inspection;

(2) Perform the duties and functions of patrolmen or watchmen required by this chapter;

(3) Are specifically assigned the duties of warning, mustering, assembling, assisting, or controlling the movement of passengers during emergencies.

(b) Marine employers shall establish programs for the chemical testing for dangerous drugs on a random basis of crewmembers on uninspected vessels who:

(1) Are required by law or regulation to hold a license issued by the Coast Guard in order to perform their duties on the vessel;

(2) Perform duties and functions directly related to the safe operation of the vessel;

(3) Perform the duties and functions of patrolmen or watchmen required by this chapter;

(4) Are specifically assigned the duties of warning, mustering, assembling, assisting, or controlling the movement of passengers during emergencies.

(c) The selection of crewmembers for random drug testing shall be made by a scientifically valid method, such as a random number table or a computer-based random number generator that is matched with crewmembers’ Social Security numbers, payroll identification numbers, or other comparable identifying numbers. Under the testing frequency and selection process used, each covered crewmember shall have an equal chance of being tested each time selections are made and an employee’s chance of selection shall continue to exist throughout his or her employment. As an alternative, random selection may be accomplished by periodically selecting one or more vessels and testing all crewmembers covered by this section, provided that each vessel subject to the marine employer’s test program remains equally subject to selection.

(d) Marine employers may form or otherwise use sponsoring organizations, or may use contractors, to conduct the random chemical testing programs required by this part.

(e) Except as provided in paragraph (f) of this section, the minimum annual percentage rate for random drug testing shall be 50 percent of covered crewmembers.

(f) The annual rate for random drug testing may be adjusted in accordance with this paragraph.

(1) The Commandant’s decision to increase or decrease the minimum annual percentage rate for random drug testing is based on the reported random positive rate for the entire industry. All information used for this determination is drawn from the drug MIS reports required by this part. In order to ensure reliability of the data, the Commandant considers the quality and completeness of the reported data, may obtain additional information or reports from marine employers, and may make appropriate modifications in calculating the industry random positive rate. Each year, the Commandant will publish in the FEDERAL REGISTER the minimum annual percentage rate for random drug testing of covered crewmembers. The new minimum annual percentage rate for random drug testing will be applicable starting January 1 of the calendar year following publication.

(2) When the minimum annual percentage rate for random drug testing is 50 percent, the Commandant may lower this rate to 25 percent of all covered crewmembers if the Commandant determines that the data received under the reporting requirements of 46 CFR 16.500 for two consecutive calendar years indicate that the positive rate is less than 1.0 percent.

(3) When the minimum annual percentage rate for random drug testing is 25 percent, and the data received under the reporting requirements of 46 CFR 16.500 for any calendar year indicate
that the positive rate is equal to or
greater than 1.0 percent, the Com-
mandant will increase the minimum
annual percentage rate for random
drug testing to 50 percent of all covered
crewmembers.

(g) Marine employers shall randomly
select a sufficient number of covered
crewmembers for testing during each
calendar year to equal an annual rate
not less than the minimum annual per-
centage rate for random drug testing
determined by the Commandant. If the
marine employer conducts random
drug testing through a consortium, the
number of crewmembers to be tested
may be calculated for each individual
marine employer or may be based on
the total number of covered crew-
members covered by the consortium
who are subject to random drug testing
at the same minimum annual percent-
age rate under this part or any DOT
drug testing rule.

(h) Each marine employer shall en-
sure that random drug tests conducted
under this part are unannounced and
that the dates for administering ran-
dom tests are spread reasonably
throughout the calendar year.

(i) If a given covered crewmember is
subject to random drug testing under
the drug testing rules of more than one
DOT agency for the same marine em-
ployer, the crewmember shall be sub-
ject to random drug testing at the per-
centage rate established for the cal-
endar year by the DOT agency regu-

dering more than 50 percent of the
crewmember’s function.

(j) If a marine employer is required
to conduct random drug testing under
the drug testing rules of more than one
DOT agency, the marine employer may—

(1) Establish separate pools for ran-
dom selection, with each pool con-
taining the covered crewmembers who
are subject to testing at the same re-
quired rate; or

(2) Randomly select such crew-
members for testing at the highest per-
centage rate established for the cal-
endar year by any DOT agency to
which the marine employer is subject.

(k) An individual may not be engaged
or employed, including self-employ-
ment, on a vessel in a position as mas-
ter, operator, or person in charge for
which a license or merchant mariner’s
document is required by law or regula-
tion unless all crewmembers covered
by this section are subject to the ran-
dom testing requirements of this sec-
tion.

[CGD 90-014, 56 FR 31034, July 8, 1991, as
amended by 59 FR 62227, Dec. 2, 1994]

§ 16.240 Serious marine incident test-
ing requirements.

The marine employer shall ensure
that all persons directly involved in a
serious marine incident are chemically
tested for evidence of dangerous drugs
and alcohol in accordance with the re-
m
dulations of 46 CFR 4.06.

§ 16.250 Reasonable cause testing re-
quirements.

(a) The marine employer shall re-
quire any crewmember engaged or em-
ployed on board a vessel owned in the
United States that is required by law
or regulation to engage, employ or be
operated by an individual holding a li-
cense, certificate of registry, or mer-
chant mariner’s document issued under
this subchapter, who is reasonably sus-
p
dected of using a dangerous drug to be
chemically tested for dangerous drugs.

(b) The marine employer’s decision
to test must be based on a reasonable
and articulable belief that the indi-

vidual has used a dangerous drug based
on direct observation of specific, con-
temporaneous physical, behavioral, or
performance indicators of probable use.
Where practicable, this belief should be
based on the observation of the indi-

vidual by two persons in supervisory
positions.

(c) When the marine employer re-
quires testing of an individual under
the provisions of this section, the indi-

vidual must be informed of that fact
and directed to provide a urine speci-
m
men as soon as practicable. This fact
shall be entered in the vessel’s official
log book, if one is required.

(d) If an individual refuses to provide
a urine specimen when directed to do
so by the employer under the provi-
sions of this section, this fact shall be
entered in the vessel’s official log
book, if one is required.
§ 16.260 Records.

(a) Employers shall maintain records of chemical tests which the Medical Review Officer reports as positive for a period of at least 5 years and shall make these records available to Coast Guard officials upon request. Records of tests reported as negative shall be retained for one year.

(b) The records shall be sufficient to:

(1) Satisfy the requirements of §§ 16.210(b) and 16.220(c) of this part.

(2) Identify the total number of individuals chemically tested annually for dangerous drugs in each of the categories of testing required by this part including the annual number of individuals failing chemical tests and the number and types of drugs for which individuals tested positive.

[CGD 86-067, 53 FR 47079, Nov. 21, 1988, as amended by CGD 91-223, 60 FR 4526, Jan. 23, 1995]

Subpart C—Standards for Chemical Testing for Dangerous Drugs

§ 16.301 Procedures for Transportation Workplace Drug Testing Programs.

Drug testing programs subject to this part shall be conducted in accordance with 49 CFR part 40, Procedures for Transportation Workplace Drug Testing Programs. This subpart summarizes requirements for drug testing programs contained in those regulations. Those regulations should be consulted to determine the specific procedures which must be established and utilized. Drug testing programs required by this part shall use only drug testing laboratories certified by the Department of Health and Human Services (DHHS).

§ 16.310 General.

(a) Collection site. The employer shall ensure that the collection site is adequate to provide for the collection, security, temporary storage, and shipping of specimens to a certified drug testing laboratory.

(b) Security. Procedures shall provide for the collection site to be secure. Collection sites which are not dedicated solely for specimen collection must be secured during specimen collection.

(c) Access to authorized personnel only. No unauthorized personnel shall be permitted in any part of a collection site when specimens are collected nor shall unauthorized personnel be allowed access to stored specimens.

(d) Privacy. Procedures for collecting urine specimens shall allow for individual privacy unless there is reason to believe that a particular individual may alter or substitute the specimen to be provided.

(e) Integrity of specimens. Collection site personnel shall take precautions to ensure that each specimen is not adulterated or diluted during the collection process.

§ 16.320 Chain of custody.

(a) A chain of custody for each specimen to be chemically tested shall be established and maintained from the time of specimen collection through the testing of the specimen.

(b) If a specimen is not immediately prepared for shipment, it shall be safeguarded during temporary storage.

(c) Every effort shall be made to minimize the number of persons handling specimens.

§ 16.330 Specimen handling and shipping.

(a) The employer shall obtain a specimen collection and shipping kit to be used to collect specimens and ship them to the certified drug testing laboratory.

(b) The specimen collection and shipping kit, as required by 49 CFR part 40, shall contain:

(1) Plastic urine specimen bottles in a sufficient quantity to accommodate the people to be tested;

(2) Means for sealing and identifying specimen bottles;

(3) Chain of custody forms;

(4) A set of step-by-step instructions which describe the proper procedures to be followed during specimen collection, handling, and shipping; and

(5) Shipping materials.

(c) The marine employer shall ensure that specimens are promptly shipped to a certified testing laboratory meeting the requirements of § 16.340. Chain of custody documents must accompany
each specimen from the time of specimen collection through shipment to and testing by the laboratory.

(d) Specimens shall be shipped by an expeditious means.

§ 16.340 Test laboratory requirements.
(a) The employer shall ensure that all chemical testing for dangerous drugs required by this part is conducted by a DHHS certified laboratory.
(b) The laboratory shall meet the requirements of 49 CFR part 40.

§ 16.350 Specimen analysis.
(a) Each specimen shall be analyzed in accordance with 49 CFR 40.29, which requires testing for—
   (1) Marijuana;
   (2) Cocaine;
   (3) Opiates;
   (4) Phencyclidine (PCP); and
   (5) Amphetamines.
(b) A specimen which indicates the presence of a dangerous drug at a level equal to or exceeding the levels established in 49 CFR 40.29 is reported to the Medical Review Officer as positive.

§ 16.360 Specimen analysis reports.
(a) The laboratory shall report all test results as required by 49 CFR 40.29(g). Reports are made within an average of five days after receipt of a specimen by the laboratory.
(b) The laboratory reports as negative all specimens which are negative on the initial test or negative on the confirmatory test. Only specimens confirmed positive are reported positive to the Medical Review Officer for a specific drug or drug metabolite.

§ 16.370 Medical Review Officer.
(a) The employer shall designate or appoint a Medical Review Officer (MRO) meeting the qualifications of 49 CFR 40.33. If the employer does not have a qualified individual on staff to serve as MRO, the employer may contract for the provision of MRO services as part of its drug testing program.

(b) The MRO shall review and interpret each confirmed positive test result in accordance with 49 CFR 40.33.
(c) If the MRO verifies a laboratory confirmed positive report, the MRO shall report the positive test result to the employer or the employer's designated agent.

(d) Before an individual who has failed a required chemical test for dangerous drugs may return to work aboard a vessel, the MRO shall determine that the individual is drug-free and the risk of subsequent use of dangerous drugs by that person is sufficiently low to justify his or her return to work. In addition, the individual shall agree to be subject to increased, unannounced testing for a period as determined by the MRO of up to 60 months.

§ 16.380 Release of information.
(a) Except as provided for in this part and in §4.06-60 of this chapter, an employer shall not release individual test results or other personal information for anti-drug program records.
(b) Individual results from drug tests required by this part may be released if the individual tested signs a specific authorization for the release of the results to an identified person.
(c) Nothing in this section shall prevent an individual tested under this part from obtaining the results of that test.

Subpart D—Employee Assistance Programs

§ 16.401 Employee Assistance Program (EAP).

The employer shall provide an Employee Assistance Program (EAP) for all crewmembers. The employer may establish the EAP as a part of its internal personnel services or the employer may contract with an entity that will provide EAP services to a crewmember. Each EAP must include education and training on drug use for crewmembers and the employer's supervisory personnel as provided below:

(a) EAP education program: Each EAP education program must include at
least the following elements: display and distribution of informational material; display and distribution of a community service hot-line telephone number for crewmember assistance, and display and distribution of the employer’s policy regarding drug and alcohol use in the workplace.

(b) EAP training program: An EAP training program must be conducted for the employer’s crewmembers and supervisory personnel. The training program must include at least the following elements: the effects and consequences of drug and alcohol use on personal health, safety, and work environment; the manifestations and behavioral cues that may indicate drug and alcohol use and abuse; and documentation of training given to crewmembers and the employer’s supervisory personnel. Supervisory personnel must receive at least 60 minutes of training.

Subpart E—Management Information System

§ 16.500 Management Information System requirements.

(a) Data collection. All marine employers must collect the following drug and alcohol testing program data for each calendar year:

(1) Total number of employees during the calendar year that were subject to the drug testing rules in this part.

(2) Number of employees subject to testing under the anti-drug rules of both the Coast Guard and another DOT agency based on the nature of their assigned duties as identified by each agency.

(3) Number of drug and alcohol tests conducted identified by test type. Drug test types are pre-employment, periodic, random, post-accident, and reasonable cause. Alcohol test types are post-accident and reasonable cause.

(4) Number of positive drug test results verified by a Medical Review Officer (MRO) by test type and types of drug(s). Number of alcohol tests resulting in a blood alcohol concentration weight of .04 percent or more by test type.

(5) Number of negative drug and alcohol test results reported by MRO by test type.

(6) Number of applicants denied employment based on a positive drug test result verified by an MRO.

(7) Number of marine employees with a MRO-verified positive test result who returned to duty in a safety-sensitive position subject to required chemical testing, after meeting the requirements of §16.370(d) and part 5 of this chapter.

(8) Number of marine employees with positive drug test results verified by a MRO as positive for one drug or a combination of drugs.

(9) Number of employees required under this part to be tested who refused to submit to a drug test.

(10) Number of covered employees and supervisory personnel who received the required initial training.

(b) Data reporting. (1) By March 15 of the year following the collection of the data in paragraph (a) of this section, marine employers must submit the data on Form CG-5573 to Commandant (G-MOA), 2100 Second Street, SW, Washington, DC, 20593-0001. Marine employers must complete all data fields on the form.

(2) Form CG-5573 is reproduced in Appendix B of this part and you may obtain the form from any Marine Inspection Office. You may also download a copy of Form CG-5573 from the U.S. Coast Guard Marine Safety and Environmental Protection web site at http://www.uscg.mil/hq/g-m/mmc/genpub.htm.

(3) A consortium or other employer representative may submit data for a marine employer. Reports may contain data for more than one marine employer. Each report, however, must list the marine employers included in the report.

(4) Marine employers must ensure that data submitted by a consortium or other employer representative under paragraph (b)(3) of this section is correct.

(c) After filing 3 consecutive annual MIS reports since January 1, 1996, required by paragraph (b) of this section, marine employers with 10 or fewer covered employees may stop filing the annual report each succeeding year during which they have no more than 10 covered employees.
(d) Marine employers who conduct operations regulated by another Department of Transportation Operating Administration must submit appropriate data to that Operating Administration for employees subject to that Operating Administration’s regulations.

[USCG-1998-4469, 64 FR 22559, Apr. 27, 1999; 64 FR 31989, June 15, 1999]

APPENDIX A [RESERVED]
APPENDIX B - DRUG AND ALCOHOL TESTING MANAGEMENT INFORMATION SYSTEM (MIS) DATA COLLECTION FORM

INSTRUCTIONS

This reporting form includes four parts. Collectively, these parts address the data elements required in the United States Coast Guard (USCG) and the U.S. Department of Transportation (DOT) drug and alcohol testing regulations. The form is preceded by instructions which outline and explain the information requested and indicate the probable sources for this information. The four sections, the page number for the instructions, and the page location on the reporting form are:

<table>
<thead>
<tr>
<th>Section</th>
<th>Instructions Page</th>
<th>Reporting Form Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. MARINE EMPLOYER INFORMATION</td>
<td>i</td>
<td>1</td>
</tr>
<tr>
<td>B. COVERED EMPLOYEES</td>
<td>i</td>
<td>1</td>
</tr>
<tr>
<td>C. MARINE EMPLOYEE DRUG TESTING INFORMATION</td>
<td>ii-iv</td>
<td>2</td>
</tr>
<tr>
<td>D. MARINE EMPLOYEE ALCOHOL TESTING INFORMATION</td>
<td>iv-v</td>
<td>2</td>
</tr>
</tbody>
</table>

Page 1  MARINE EMPLOYER INFORMATION (Section A) requires the company name for which the report is done and a current address. Below this, a signature, typed or printed name, title, date, and current telephone number (including the area code) are required from the person certifying the correctness and completeness of the form.

Page 1  COVERED EMPLOYEES (Section B) requires a count of employees (including prospective employees who were pre-employment tested) who were subject to testing under the USCG/DOT drug testing regulations. The most likely source for this information is the employer's personnel department. The count should include all covered employees working for the company during the reported year.

Additional information must be completed if your company employs personnel who perform duties covered by the drug and alcohol rules of more than one DOT operating administration. NUMBER OF EMPLOYEES COVERED BY MORE THAN ONE DOT OPERATING ADMINISTRATION requires that you identify the number of employees under the appropriate additional operating administration(s).

The following instructions are to be used as a guide for completing the drug testing information in the USCG/DOT Drug and Alcohol Testing MIS Data Collection Form. A sample testing results table with a narrative explanation is provided on pages ii-iii as an example to facilitate the process of completing the form correctly.
Section C is used to summarize the drug testing results for applicants and covered employees. There are four categories of testing to be completed. Items necessary to complete this table include:

1) the number of specimens collected in each testing category;
2) the number of specimens tested which were reported negative and verified positive for any drug(s); and
3) individual counts of those specimens which were verified positive for each of the five drugs.

Do not include results of quality control samples submitted to the testing laboratory in the table.

A sample table with detailed instructions is provided.

MARINE EMPLOYEE DRUG TESTING INFORMATION (Section C) requires information for drug testing by category of testing. Each part of this table must be completed for each category of testing. These numbers do not include refusals for testing. A sample of the table with example numbers is presented on page 3.

Three types of information are necessary to complete the left side of this table. The first blank column with the heading "NUMBER OF SPECIMENS COLLECTED," requires a count for all collected specimens by testing category. It should not include refusals to test. The second blank column with the heading "NUMBER OF SPECIMENS REPORTED NEGATIVE," requires a count for all completed tests by testing category that were reported negative by your Medical Review Officer (MRO).

The third blank column with the heading "NUMBER OF SPECIMENS VERIFIED POSITIVE FOR ONE OR MORE OF THE FIVE DRUGS," refers to the number of specimens provided by job applicants or employees that were verified positive. "Verified positive" means the results were verified by your MRO.

The right hand portion of this table, with the heading "NUMBER OF SPECIMENS VERIFIED POSITIVE FOR EACH TYPE OF DRUG," requires counts of positive tests for each of the five drugs for which tests were done, i.e., marijuana (THC), cocaine, phencyclidine (PCP), opiates, and amphetamines. The number of specimens verified positive for each drug should be entered in the appropriate column for that drug type. Again, "verified positive" refers to test results verified by your MRO.

If an applicant or employee tested positive for more than one drug; for example, both marijuana and cocaine, that person's positive results would be included once in each of the appropriate columns (marijuana and cocaine).

SAMPLE MARINE EMPLOYEE TEST RESULTS TABLE

The following example is for Section C, MARINE EMPLOYEE DRUG TESTING INFORMATION, and summarizes pre-employment testing results. The procedures detailed here also apply to the
other categories of testing in Section C which require you to summarize testing results for employees.

A

Urine specimens were collected for 157 job applicants for covered positions during the reporting year. This information is entered in the first blank column of the table in the row marked "PRE-EMPLOYMENT".

B

The MRO for your company reported that 153 of those 157 specimens from applicants were negative (i.e., no drugs were detected). Enter this information in the second blank column of the table in the row marked "PRE-EMPLOYMENT".

C

The MRO for your company reported that 4 of those 157 specimens from applicants were positive (i.e., a drug or drugs were detected). Enter this information in the third blank column of the table in the row marked "PRE-EMPLOYMENT".

D

With the 4 specimens that tested positive, the following drugs were detected:

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Drugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>Marijuana</td>
</tr>
<tr>
<td>#2</td>
<td>Amphetamines</td>
</tr>
<tr>
<td>#3</td>
<td>Marijuana and Cocaine (Multi-drug specimen)</td>
</tr>
<tr>
<td>#4</td>
<td>Marijuana</td>
</tr>
</tbody>
</table>

Marijuana was detected in three (3) specimens, cocaine in one (1), and amphetamines in one (1). This information is entered in the columns on the right hand side of the table under each of these drugs. Two different drugs were detected in specimen #3 (multi-drug) so an entry is made in both the marijuana and the cocaine column for this specimen.

Note that adding up the numbers for each type of drug in a row ("NUMBER OF SPECIMENS VERIFIED POSITIVE FOR EACH TYPE OF DRUG") will not always match the number entered in the third column, "NUMBER OF SPECIMENS VERIFIED POSITIVE FOR ONE OR MORE OF THE FIVE DRUGS". The total for the numbers on the right hand side of the table may differ from the number of specimens testing positive since some specimens may contain more than one drug.
Below the table for MARINE EMPLOYEE DRUG TESTING INFORMATION is a box with the heading "Number of persons denied a position as a covered employee following a verified positive drug test". This is simply a count of those persons who were not placed in a covered position because they tested positive for one or more drugs.

Also following the table for MARINE EMPLOYEE DRUG TESTING INFORMATION, you must provide counts for employees who have tested positive and have returned to work in a covered position during the reported period. This information should be available from the personnel office and/or drug program manager.

SPECIMENS VERIFIED POSITIVE FOR MORE THAN ONE DRUG requires information on specimens that contained more than one drug. First, indicate the NUMBER OF VERIFIED POSITIVES. Then specify the combination of drugs reported as positive by placing the same number in the appropriate columns. For example, if marijuana and cocaine were detected in 3 specimens, then you would write "3" as the number of verified positives and "3" in the columns for "Marijuana" and "Cocaine". If marijuana and opiates were detected in 2 specimens, then you would write "2" as the number of verified positives and "2" in the columns for "Marijuana" and "Opiates".

EMPLOYEES WHO REFUSED TO SUBMIT TO A DRUG TEST requires a count of the NUMBER OF COVERED EMPLOYEES who refused to submit to a random or non-random (pre-employment, post-accident, or reasonable cause) drug test required under the USCG regulation.

DRUG AND ALCOHOL TRAINING requires information on the number of covered employees and supervisory personnel who have received the required drug and alcohol training during the current reporting period.

The following instructions are to be used as a guide for completing the alcohol testing information for the USCG/DOT Drug and Alcohol Testing MIS Data Collection Form. A sample testing results table with a narrative explanation is provided on page v as an example to facilitate the process of completing the form correctly.

MARINE EMPLOYEE ALCOHOL TESTING INFORMATION (Section D) requires information for post-accident and reasonable cause alcohol testing. These numbers do not include refusals for testing. A sample table with example numbers is presented on page v.
Two types of information are necessary to complete this table. The first blank column with the heading "NUMBER OF TESTS" requires a count of all alcohol tests performed for each testing category.

The second blank column with the heading "NUMBER OF TEST RESULTS EQUAL TO OR GREATER THAN 0.04" requires a count of positive tests.

**SAMPLE MARINE EMPLOYEE TEST RESULTS TABLE**

The following example is for Section D, MARINE EMPLOYEE ALCOHOL TESTING INFORMATION, which summarizes post-accident and reasonable cause testing results.

Tests were conducted on 6 employees in covered positions during the reporting year. This information is entered in the first blank column of the table in the row marked "POST-ACCIDENT". The test results for these 6 employees were the following:

<table>
<thead>
<tr>
<th>Employee</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>0.06</td>
</tr>
<tr>
<td>#2</td>
<td>0.00</td>
</tr>
<tr>
<td>#3</td>
<td>0.00</td>
</tr>
<tr>
<td>#4</td>
<td>0.04</td>
</tr>
<tr>
<td>#5</td>
<td>0.00</td>
</tr>
<tr>
<td>#6</td>
<td>0.02</td>
</tr>
</tbody>
</table>

The test results for 2 of the employees in covered positions were equal to or greater than 0.04. Enter this information in the second blank column of the table in the row marked "POST-ACCIDENT".

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>NUMBER OF TESTS</th>
<th>NUMBER OF TEST RESULTS EQUAL TO OR GREATER THAN 0.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST ACCIDENT</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>REASONABLE CAUSE</td>
<td>10</td>
<td>1</td>
</tr>
</tbody>
</table>

Please note that the sample data collection form also has information for REASONABLE CAUSE testing on line two. For REASONABLE CAUSE testing, 10 tests were conducted and 1 was equal to or greater than 0.04.
Coast Guard, DOT
Pt. 16, App. B

USCG DRUG AND ALCOHOL TESTING MIS DATA COLLECTION FORM

YEAR COVERED BY THIS REPORT: 19

A. MARINE EMPLOYER INFORMATION

Company

Address

I, the undersigned, certify that the information provided on this United States Coast Guard Drug and Alcohol Testing Management Information System Data Collection Form is, to the best of my knowledge and belief, true, correct, and complete for the period stated:

Signature

Printed Name

Title

Date

Phone Number

Title 18, U.S.C. Section 1001, makes it a criminal offense subject to a maximum fine of $10,000, or imprisonment for not more than 5 years, or both, to knowingly and willingly make or cause to be made any false or fraudulent statements or representations in any matter within the jurisdiction of any agency of the United States.

B. COVERED EMPLOYEES

<table>
<thead>
<tr>
<th>COVERED EMPLOYEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMPLOYEE CATEGORY</td>
</tr>
<tr>
<td>Officials &amp; Employees</td>
</tr>
</tbody>
</table>

READ BEFORE COMPLETING THE REMAINDER OF THIS FORM:

1. All items refer to the current reporting period only (for example, January 1, 1994 - December 31, 1994).

2. This report is only for testing REQUIRED BY THE UNITED STATES COAST GUARD (USCG):
   - Results should be reported only for employees in COVERED POSITIONS as defined by the USCG drug and alcohol testing regulations.
   - The information requested should only include testing for: marijuana (THC), cocaine, phencyclidine (PCP), opiates, and amphetamines using the standard procedures required by DOT regulation 49 CFR Part 40, and alcohol using the standard procedures required by USCG regulations 33 CFR Parts 105 and 46 CFR Parts 1 and 46.

3. Information on refusals for testing should only be reported in the table entitled "EMPLOYEES WHO REFUSED TO SUBMIT TO A DRUG TEST". Do not include refusals for testing in other sections of this report.

4. Do not include the results of any quality control samples submitted to the testing laboratory in any of the tables.

5. Complete all items; DO NOT LEAVE ANY ITEM BLANK. If the value for an item is zero (0), place a zero (0) on the form.

The United States Coast Guard estimates that the average burden for this report form is 31 minutes. You may submit any comments concerning the accuracy of this burden estimate or any suggestions for reducing the burden to: Commandant, U.S. Coast Guard Headquarters (G-MMI); 2100 2nd St., S.W., Washington, D.C. 20590-0001; OR Office of Management and Budget, Paperwork Reduction Project (2115-0003); Washington, D.C., 20503.
### MARINE EMPLOYEE DRUG TESTING INFORMATION

#### C. TYPE OF TEST

<table>
<thead>
<tr>
<th>NUMBER OF SPECTIMENS COLLECTED</th>
<th>NUMBER OF SPECTIMENS REPORTED NEGATIVE</th>
<th>NUMBER OF SPECTIMENS VERIFIED POSITIVE FOR</th>
<th>NUMBER OF SPECTIMENS VERIFIED POSITIVE FOR EACH TYPE OF DRUG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ONE OR MORE OF THE FIVE DRUGS</td>
<td>Marijuana (THC)</td>
</tr>
<tr>
<td>PRE-EMPLOYMENT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RANDOM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POST-ACCIDENT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REASONABLE CAUSE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Number of persons denied a position as a covered employee following a verified positive drug test.

Number of marine employees with a positive drug test result verified by an MDRO, who were returned to duty in a covered position having met the requirements of 46 CFR 16.370 (d) and 46 CFR Part 5.

#### SPECIMENS VERIFIED POSITIVE FOR MORE THAN ONE DRUG

<table>
<thead>
<tr>
<th>NUMBER OF VERIFIED POSITIVES</th>
<th>Marijuana (THC)</th>
<th>Cocaine</th>
<th>Phencyclidine (PCP)</th>
<th>Opiates</th>
<th>Amphetamines</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>EMPLOYEES WHO REFUSED TO SUBMIT TO A DRUG TEST</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered employees who refused to submit to a random drug test required under USCG regulations:</td>
<td></td>
</tr>
<tr>
<td>Covered employees who refused to submit to a non-random drug test required under USCG regulations:</td>
<td></td>
</tr>
</tbody>
</table>

#### DRUG AND ALCOHOL TRAINING

<table>
<thead>
<tr>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covered employees who have received initial training on the consequences, manifestations, and behavioral cues of drug and alcohol use as required by USCG drug and alcohol testing regulations:</td>
</tr>
<tr>
<td>Supervisory personnel who have received initial training on the specific contemporaneous physical, behavioral, and performance indicators of probable drug and alcohol use as required by USCG drug and alcohol testing regulations:</td>
</tr>
</tbody>
</table>

#### D. MARINE EMPLOYEE ALCOHOL TESTING INFORMATION

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>NUMBER OF TESTS</th>
<th>NUMBER OF TEST RESULTS EQUAL TO OR GREATER THAN 0.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST-ACCIDENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REASONABLE CAUSE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(CG) 91-019, 58 FR 66279, Dec. 23, 1993]
INDEX

SUBCHAPTER B—MERCHANT MARINE OFFICERS AND SEAMEN

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Transportation.

Part, subpart, or section

A

Able seaman:
Age requirement ................................................................. 12.05-3
Certification required ......................................................... 12.05-1
Color sense test ................................................................. 12.05-5(a)
Demonstration of ability ..................................................... 12.05-9
Discharge of .......................................................................... 14.10
Examination ........................................................................... 12.05-9
Eye test .................................................................................. 12.05-5
General requirements for .................................................. 12.05-3
Hearing test ............................................................................. 12.05-5
Medical examination............................................................ 12.05-5
Number required .................................................................... 15.840
Physical requirements .......................................................... 12.05-5
Presentation of certificate ..................................................... 12.05-1
Ratings for which qualified .................................................. 12.05-11
Service in other ratings ....................................................... 12.05-11
Service or training requirements ........................................ 12.05-7
Shipment of ............................................................................. Part 14
Training requirements .......................................................... 12.05-7
Tugs and towboats ................................................................ 12.05-7(d)
Vision test ............................................................................... 12.05-5
Acknowledgment of service for MODU ................................ 10.476
Affidavits, loss of seaman's documents ................................. 12.02-23(e)
Age requirements for:
Certification as able seaman ............................................... 12.05-3
Licenses .................................................................................. 10.201(f)
Aliens, proving nationality .................................................. 12.02-14
Appeal:
License denial ....................................................................... 10.204
Manning ................................................................................. 15.510
Seaman's certificate .............................................................. 12.02-25
Applications:
Aliens ................................................................................. 12.02-10
Duplicate seamen's documents .......................................... 12.02-23
False or incomplete information ......................................... 10.205(f)(4)
Original license ..................................................................... 10.202(a)
Raise of grade of license ..................................................... 10.207(a)
Renewal of license ............................................................. 10.209(a)
Seamen's documents ........................................................... 12.02-9
Apprentice engineers .......................................................... 12.25-35
Apprentice mate ................................................................. 12.25-40
Approved courses............................................................................................................ 10.302
Assistance towing:
  Definition ........................................................................................................ 10.103, 15.301
  License endorsement authorizing ......................................................................... 10.482
  Vessel manning requirement .............................................................................. 15.410
    Assistant electrician, ranking rating defined.............................................. 12.15-3(b)
  Assistant engineer (See also subpart B—General Requirements)
    Definition ........................................................................................................ 10.103
    Limited-oceans, service requirements ......................................................... 10.522
    Uninspected fishing industry vessel .......................................................... 10.530
    Automated vessels......................................................................................... 15.715
    Auxiliary-sail vessels over 200 tons, service required for license endorse-
    ment ........................................................................................................ 10.401(f)

B

Ballast Control Operator:
  Definition ........................................................................................................ 10.103
  License requirements ....................................................................................... 10.474
Barge supervisor:
  Definition ........................................................................................................ 10.103
  License requirements ....................................................................................... 10.472
  Basis and purpose of regulations ...................................................................... 10.101, 12.01-1, 14.01-1, 15.101, 16.101
Boatswain, definition ............................................................................................. 10.103

C

Cabin watchmen ...................................................................................................... 15.655
Cadet rating on merchant mariner’s document ................................................... 12.25-25
Cardiopulmonary resuscitation (CPR) course certificate ................................... 10.205(h)
Certificate of discharge, issuing duplicates ....................................................... 12.02-23
Certificate of identification ............................................................................... 12.02-11(g)
Certificate of inspection .................................................................................... 15.505, 15.515
Certificate of registry (See also subpart B—General Requirements) ............... 10.801
Certificates of service:
  Application ....................................................................................................... 12.02-9
  Entry ratings ................................................................................................... 12.25-10
  Fees ................................................................................................................ 12.02-18
  Ratings other than able seaman and QMED .................................................... 12.25-10
  Service under.................................................................................................... 12.02-11(c)
  When required .............................................................................................. 12.02-7, 12.25-1
  Where issued .................................................................................................. 12.02-3
Certificates of service for ratings other than able seaman and QMED:
  General requirements ....................................................................................... 12.25-10
  When required ................................................................................................ 12.25-1
  Certificates, report loss or recovery of ............................................................ 12.02-24
  Certification as QMED, when required............................................................. 12.15-1
Certification of seamen:
  Application for documents ............................................................................... 12.02-9
  Basis and purpose of regulations .................................................................... 12.01-1
  Cadet .............................................................................................................. 12.25-25
  Citizenship requirements ............................................................................... 12.02-13
  Documents required for shipment .................................................................. 12.02-7
  Fees ................................................................................................................ 12.02-18
  Form in which documents issued .................................................................. 12.02-5, 12.02-11
  Oath requirement ............................................................................................ 12.02-15
  Other than able seaman and QMED, when required ....................................... 12.25-1
  Preparation and issuance of documents .......................................................... 12.02-17
  QMED physical requirements ........................................................................ 12.15-5
Subchapter B Index

Student observers..........................................................12.25-30
Character observers for original license.............................10.205(f)
Chemical testing for dangerous drugs:
  Analyses specimens of.........................................................16.350
  Applicability........................................................................16.320
  Chain of custody................................................................16.320
  Conflict with foreign laws.....................................................16.207
  Definitions........................................................................10.103, 16.105
  Employee assistance program.............................................16.401
  General procedures............................................................16.310
  Laboratory requirements....................................................16.340
  Medical Review Officer.......................................................16.370
  Periodic testing...................................................................16.220
  Pre-employment testing.......................................................16.210
  Purpose.............................................................................16.101
  Random testing...................................................................16.230
  Reasonable cause testing.....................................................16.250
  Records.............................................................................16.260
  Release of information........................................................16.380
  Report of specimen analyses..............................................16.360
  Serious marine incident testing..........................................16.240
  Specimen handling and shipping..........................................16.330
  Standards..........................................................................16.301
Chief engineer: (See also subpart B—General Requirements)
  Definition........................................................................10.103
  Limited-oceans, service requirements.................................10.518
  Limited-near coastal, service requirements............................10.520
  Requirement for.................................................................15.620
  Uninspected fishing industry vessel, service requirements........10.530
  Unlimited, service requirements.........................................10.510
Chief mate:
  Definition........................................................................10.103
  Required service (See also subpart B—General Requirements)....10.405
Chief purser
  (See also subpart B—General Requirements)........................10.803, 10.807
Citizenship:
  Acceptable evidence..........................................................10.205(c)
  Requirements for license.....................................................10.201(e)
  Requirements for seamen’s documents.................................12.02-13
Color sense test, original license.............................................10.205(d)(2)
Commitment of employment:
  Definition..........................................................................16.105
Continuous discharge book:
  Application ........................................................................12.02-9
  Duplicate, issuance..............................................................12.02-23
Convictions for drug violations............................................10.201(b)
Course approvals:
  General standards..............................................................10.303
  Period of approval..............................................................10.302(c)
  Radar observer courses.......................................................10.305, 10.307
  Records retention.................................................................10.303(d)
  Renewal of approval...........................................................10.302(d)
  Request for approval...........................................................10.302(a)
  Substitution of training for required service.........................10.304
Crewmember, definition......................................................16.105
### Definitions:

- **Deck crew, definition** .................................................. 15.301
- **Decision of Officer in Charge, right of appeal** .................. 10.204
- **Deck engine mechanic** .................................................. 12.15-13

#### Deck crew, definition
- **Assistant towing** ......................................................... 10.103, 15.301
- **Assistant engineer** ....................................................... 10.103
- **Ballast control operator** ............................................... 10.103
- **Barge supervisor** .......................................................... 10.103
- **Boatswain** ................................................................. 10.103
- **Chemical test** .............................................................. 16.105
- **Chief engineer** ............................................................ 10.103
- **Chief mate** ................................................................. 10.103
- **Crewmember** .............................................................. 16.105
- **Dangerous drug** .......................................................... 16.105
- **Dangerous drug level** .................................................. 16.105
- **Day** ......................................................................... 10.103
- **Deck crew** ................................................................. 15.301
- **Designated duty Engineer** ............................................. 10.103
- **Drug test** ................................................................. 16.105
- **Employer** ................................................................. 16.105
- **Employment assigned to** ............................................. 10.103
- **Endorsement** .............................................................. 10.103
- **Evaluation** ................................................................. 10.103, 12.01-6
- **Fails a test for dangerous drugs** .................................... 16.105
- **First assistant engineer** ............................................... 10.103
- **Great Lakes** ............................................................... 10.103
- **Horsepower** ............................................................... 10.103
- **Inland waters** ............................................................. 10.103
- **Intoxicant** ................................................................. 16.105
- **Lower level license** ..................................................... 10.103
- **Marine employer** ......................................................... 16.105
- **Master** ................................................................. 10.103
- **Mate** ................................................................. 10.103
- **Medical review officer** ............................................... 16.105
- **Mobile offshore drilling unit** ....................................... 10.103
- **Month** ..................................................................... 10.103
- **Near coastal** ............................................................. 10.103
- **Oceans** ................................................................. 10.103
- **Officer in Charge, Marine Inspection** .......................... 10.103
- **Offshore installation manager** ..................................... 10.103
- **On location** ............................................................. 10.103
- **Operation (of a vessel)** ............................................... 16.105
- **Operator** ................................................................. 10.103
- **Orally assisted examination** ........................................ 10.103
- **Original document** .................................................... 12.01-6
- **Original license** ....................................................... 10.103
- **Qualified rating** ....................................................... 12.01-6
- **Raise of grade** .......................................................... 10.103
- **Rivers** ................................................................. 10.103
- **Self-propelled** .......................................................... 15.301
- **Senior company official** ............................................. 10.103
- **Serious marine incident** .............................................. 16.105
- **Sponsoring organization** ............................................. 16.105
- **Staff officer** ............................................................. 15.301
- **Underway** ............................................................. 10.103
Subchapter B Index

Undocumented vessel ................................................................. 10.103
Upper level license ................................................................. 10.103
Vessel owned in the United States .............................................. 16.105
Western Rivers ........................................................................ 10.103
Year ...................................................................................... 10.103
Denial of license........................................................................ 10.202(g)
Denial of seaman’s certificate.................................................... 12.02-4
Designated duty engineer (See also subpart B—General Requirements)
  Definition ............................................................................. 10.103
  License requirements ........................................................... 10.524
  Service authority ................................................................. 10.501, 15.915
Detention of a vessel ................................................................. 15.701(c)
Discharge certificate, duplicate, issuance ................................... 12.02-23
Discharge of seamen, rules and regulations................................ Subpart 14.10
Discharge of seamen, procedure .............................................. Subpart 14.10
  Subpart 14.10, 14.15
Documentary evidence of service ............................................ 10.211(a)
Documents, seamen’s:
  Application .......................................................................... 12.02-9
  Application from aliens ........................................................ 12.02-10
  Basis for denial of documents ................................................ 12.02-4
  Fees ..................................................................................... 12.02-18
  Form in which issued ........................................................... 12.02-5, 12.02-11
  Production of required .......................................................... 14.205
  When required ...................................................................... 12.02-7
  Where issued .......................................................................... 12.02-3
Drugs, disqualifying for license or COR .................................. 10.201(b)
Drug testing:
  Analyses of specimens ........................................................ 16.350
  Applicability ........................................................................ 16.201
  Chain of custody ................................................................... 16.320
  Conflict with foreign laws .................................................... 16.207
  Definitions .......................................................................... 10.103, 16.105
  Employee assistance program .............................................. 16.401
  General procedures ............................................................ 16.310
  Laboratory requirements ...................................................... 16.340
  Medical Review Officer ....................................................... 16.370
  Periodic testing ................................................................... 16.220
  Pre-employment testing ....................................................... 16.210
  Purpose ................................................................................ 16.101
  Random testing ................................................................... 16.230
  Reasonable cause testing ..................................................... 16.250
  Records ............................................................................... 16.260
  Release of information ......................................................... 16.380
  Report of specimen analyses ................................................ 16.360
  Serious marine incident testing ............................................. 16.240
  Specimen handling and shipping .......................................... 16.330
  Standards ........................................................................... 16.301
Dual mode ITB ........................................................................ 10.211(d)
Duplicate license:
  Fee ....................................................................................... 10.109(e)
  Issuance ............................................................................. 10.219
Duplicate seamen’s documents:
  Application .......................................................................... 12.02-23
  Fee ....................................................................................... 12.02-18(a)(5)
  Issuance ............................................................................. 12.02-23

Electrician:

E.

279
Assistant, rating defined .............................................................................. 12.15-3
Examination .................................................................................................. 12.15-2
Employer, definition .................................................................................... 16.105
Endorsement:
Able seaman ................................................................................................. 12.05-7
Definition ....................................................................................................... 10.103
Food handler ................................................................................................. 12.25-10, 12.25-20
License fee ................................................................................................... 10.109
Merchant mariner's document:
Able seaman ................................................................................................. 12.05-11
Apprentice engineer ....................................................................................... 12.25-35
Fees ............................................................................................................. 12.02-18(a)
General provisions ....................................................................................... 12.02-11
Licensed officers ........................................................................................... 12.02-11(d)
QM ED ........................................................................................................ 12.15-11
Staff officer ................................................................................................ 12.02-11(e)
Pilot's endorsement to master's, mate's or OUTV's license ......................... 10.703
Engineer:
Apprentice engineer ....................................................................................... 12.25-35
Requirement for .......................................................................................... 15.825
Engineer's Licenses: (See also subpart B—General Requirements)
Horsepower limitation .................................................................................. 10.503
Service authorization .................................................................................... 10.501, 15.915
Uninspected fishing industry vessel ............................................................... 10.530
Engineerman ............................................................................................... 12.15-15
Engine mechanic, deck ................................................................................. 12.15-13
English language proficiency ....................................................................... 10.201(c)
Equivalents, manning ................................................................................... 15.901
Equivalent, service ....................................................................................... 10.211(e)
Evaluation:
Definition ...................................................................................................... 10.103, 12.01-6
Experience not listed ................................................................................... 10.211(e)
Sea service as member of armed forces of U.S. ............................................. 10.213
Sea service on vessels owned by U.S. ......................................................... 10.213
Examination for license:
Fees ............................................................................................................. 10.109
List of subjects:
Deck ............................................................................................................. 10.910
Engineer ......................................................................................................... 10.950
Procedures.................................................................................................... 10.217
Examination for seaman's documents:
Able seaman ................................................................................................. 12.05-9
Fees .............................................................................................................. 12.02-18
Lifeboatman ................................................................................................. 12.10-5
Qualified member engine department ......................................................... 12.15-9
Ratings other than able seaman or QMED .................................................. 12.25-10
Reexamination ............................................................................................. 12.02-17
To be given as soon as practicable .............................................................. 12.02-17, 12.20-5
Expired license, reissue ............................................................................... 10.209(f)
Extension of pilot's route ............................................................................ 10.705(f)
Eyesight requirements ................................................................................... 10.205(d)

Failure on examination for license ............................................................... 10.217
False or incomplete application .................................................................... 10.205(f)(4)
Familiarity with vessel ................................................................................. 10.101(b), 15.405
Fees:
Subchapter B Index

Exemptions ................................................................................................... 10.112
License .......................................................................................................... 10.112
Merchant mariner's documents ................................................................. 12.02-18
Penalties ...................................................................................................... 10.111, 12.02-18(d)
Fingerprint records, original license ...................................................... 10.205(f)(2)
Fire patrolmen ............................................................................................. 15.655
Firefighting training certificate .............................................................. 10.205(g), 10.207(f)
First aid certificate, for original license ............................................... 10.205(h)
First assistant engineer:
Definition .................................................................................................. 10.103
Required service (See also subpart B—General Requirements) .......... 10.512
First class pilot (See also subpart B—General Requirements) ............. 10.701
Fishing industry vessel licenses (See also subpart B—General Requirements)
Deck ........................................................................................................... 10.462
Engineer .................................................................................................... 10.530
Food handler:
Endorsement on merchant mariner's document ................................ 12.05-11
Medical examination .............................................................................. 12.05-20
Foreign nationals:
License eligibility .................................................................................. 10.201(e)
Seaman's certificate eligibility ................................................................. 12.02-14
Serving on U.S. vessels ............................................................................ 15.720
Foreign service ...................................................................................... 10.205(e)(3) and (4)
Form in which seamen's documents are issued .................................... 12.02-5

G

General provisions:
Merchant mariner's documents ............................................................... 12.02-11
Endorsed as able seaman ...................................................................... 12.05-11
Endorsed as QMED .............................................................................. 12.05-11
General requirements:
Able seaman ......................................................................................... 12.05-3
Deck engine mechanic .......................................................................... 12.15-13
Engineman .............................................................................................. 12.15-15
Issuance of merchant mariner's documents for ratings other than able
seaman or QMED .................................................................................. 12.02-10
Licenses .................................................................................................. Subpart B
Tankerman .............................................................................................. 13.107, 13.203, 13.401
Glasses, required wearing .................................................................... 10.209(e)(1)
Great Lakes, definition ......................................................................... 10.103

H

Horsepower:
Definition .................................................................................................. 10.103
Limitations on engineer's license ......................................................... 10.503
Hospital corpsman .................................................................................. 10.09(b)

I

Inland waters, definition ........................................................................ 10.103
Integrated tug and barge, dual mode ....................................................... 10.211(d)
Issuance:
Duplicate license .................................................................................. 10.219
Duplicate seamen's documents ............................................................. 12.02-23
Fees:
Licenses .................................................................................................. 12.02-18(a)(4)
Merchant mariner's documents .............................................................. 12.02-18(a)(4)
Licenses.........................................................................................................10.202
Merchant mariner’s documents.................................................................12.02-11
Seamen’s documents after revocation.......................................................12.02-21

J
Junior assistant purser ..........................................................................10.803, 10.807
Junior engineer, examination.................................................................12.15-9

L
Language requirements:
Able seaman examination.........................................................................12.05-9(b)
Crew ..........................................................................................................15.730
License applicants....................................................................................10.201(c)
Puerto Rican waters, OUP V.................................................................10.466(h)
Puerto Rican waters, OUT V.................................................................10.464(i)
Lifeboatman examination..........................................................................12.10-5(b)
QMED examination................................................................................13.201, 13.301, 13.401, 13.501
Tankerman examination..........................................................................12.20-5
License:
Application for original .........................................................................10.202(a)
Application for renewal .........................................................................10.209(a)
Citizenship requirement .........................................................................10.201(e), 10.205(c)
Denial.......................................................................................................10.202(g)
Duplicate license....................................................................................10.219
Examination subjects:
Deck ........................................................................................................10.910
Engineer .................................................................................................10.950
Fees .........................................................................................................10.109
Issuance .................................................................................................10.202
Lifting of limitations .............................................................................10.215
Limitations, authority to impose.............................................................10.202(h)
Loss .......................................................................................................10.219
Officer in Charge, Marine Inspection’s authority to reduce license re-     
quirements and issue limited license.........................................................10.202(h)
Parting with.............................................................................................10.221
Restrictions, serving within.................................................................15.401
Lifeboatman:
Certification required ............................................................................12.10-1
Demonstration of ability .......................................................................12.10-5
Endorsement on merchant mariner’s document....................................12.10-7
Members of Merchant Marine Cadet Corps......................................12.10-3, 12.25-25
Number required ...................................................................................15.845
Service requirements.............................................................................12.10-3
Training requirements...........................................................................12.10-3
When certificate required ....................................................................12.10-1
Limitation on license, lifting.................................................................10.202(h), 10.215
Lookouts .................................................................................................15.850
Loss of license.........................................................................................10.219
Lost document, affidavit......................................................................12.02-23(e)
Lower level license, definition...............................................................10.103

M
Manning equivalents..................................................................................Part 15, Subpart H
Manning, required:
Able seaman ..........................................................................................15.840
Subchapter B Index

Chief engineer ................................................................. 15.620
Engineer ........................................................................... 15.625
Lifeboatmen ....................................................................... 15.845
Mate ................................................................................ 15.810
OCMI will determine ...................................................... 15.810
Pilot .............................................................................. 15.812
Radio officer ................................................................. 15.830
Substitution of non-U.S. licensed or documented personnel 15.720
Marine employer, definition ............................................ 16.105
Marine physician assistant ............................................... 10.809(a)
Master: (See also subpart B—General Requirements)
Definition ........................................................................ 10.103
Great Lakes and inland:
Any gross tons ..................................................................................... 10.433
Limited master .................................................................................... 10.456
Not more than 1600 gross tons ....................................................... 10.442
Not more than 500 gross tons ........................................................ 10.446
Not more than 200 gross tons ......................................................... 10.452
Not more than 100 gross ............................................................. 10.455
Inland:
Any gross tons ..................................................................................... 10.435
Not more than 100 gross ............................................................. 10.457
Near coastal:
Any gross tons ..................................................................................... 10.404
Limited master .................................................................................... 10.429
Not more than 1600 gross tons ....................................................... 10.412
Not more than 500 gross tons ........................................................ 10.416
Not more than 200 gross tons ......................................................... 10.426
Not more than 100 gross ............................................................. 10.428
Oceans:
Any gross tons ..................................................................................... 10.404
Not more than 1600 gross tons ....................................................... 10.412
Not more than 500 gross tons ........................................................ 10.416
Not more than 200 gross tons ......................................................... 10.424
Requirement for .............................................................................. 15.805
Rivers ...................................................................................... 10.459
Uninspected fishing industry vessels ................................. 10.462
Mate: (See also subpart B—General Requirements)
Definition ............................................................................ 10.103
Great Lakes and inland:
Any gross tons ..................................................................................... 10.437
Not more than 1600 gross tons ....................................................... 10.444
Not more than 500 gross tons ........................................................ 10.448
Not more than 200 gross tons ......................................................... 10.454
Near coastal:
Not more than 1600 gross tons ....................................................... 10.416
Not more than 500 gross tons ........................................................ 10.421
Not more than 200 gross tons ......................................................... 10.427
Oceans:
Not more than 1600 gross tons ....................................................... 10.414
Not more than 500 gross tons ........................................................ 10.420
Requirement for .............................................................................. 15.810
Rivers ...................................................................................... 10.459
Uninspected fishing industry vessels ................................. 10.462
Mechanic, deck engine .......................................................... 12.15-13
Medical Doctor ................................................................. 10.803, 10.807
Medical examination:
Able Seaman ........................................... 12.05-5
Food Handler ........................................... 12.25-20
Original license ........................................ 10.205(d)
Pilot, annual ............................................. 10.705
QM ED .................................................... 12.15-5
Raise of grade of license ............................ 10.207(e)
Renewal of license .................................... 10.209(d)
Tankerman .............................................. 13.125
Medical review officer, definition .............. 16.105
Merchant Marine Cadet Corps, issuance of merchant mariner’s docu-
ments .................................................. 12.25-25
Merchant mariner’s document:
Able seaman endorsement considered for lifeboat certificate ....... 12.02-11(f), 12.05-
11(b), 12.10-1, 12.10-7
Application .............................................. 12.02-9
Cadet ...................................................... 12.25-25
Citizenship requirements ............................ 12.02-13
Considered a certificate of identification ................................ 12.02-11(g)
Duplicate, issuance .................................... 12.02-23
Endorsement as able seaman, authorities of ......................... 12.05-11
Endorsement as lifeboatman, able seaman as ....................... 12.10-7
Endorsement for ratings other than able seaman or QMED ...... 12.25-1, 12.25-10
Endorsements, general provisions .................. 12.02-11
Entry ratings ........................................... 12.25-10
Fees ....................................................... 12.02-18
Food handler endorsement ........................ 12.25-10, 12.25-20
Form in which issued ................................ 12.02-5
Issuance after revocation ............................ 12.02-21
Issuance of duplicate ................................ 12.02-23
Issuance to members of Merchant Marine Cadet Corps .......... 12.25-25
Issuance to ratings other than able seaman or QMED ............ 12.25-10
Issuance to student observers ........................ 12.25-30
Lifeboatman endorsement .......................... 12.10-7
Loss, report of ......................................... 12.02-23, 12.02-24
Oath requirement ..................................... 12.02-15
Preparation and issuance ............................ 12.02-17
Qualified member engine department (QMED):
Endorsement .......................................... 12.15-11
Examinations ........................................... 12.15-9
Service or training requirements ................... 12.15-7
Seaman producing document, when required .............. 14.205
Signature and thumb-print .......................... 12.02-17(c)
Social security number ............................... 12.02-17(d)
Stolen, report of ....................................... 12.02-23(d), 12.02-24
Student observer rating ................................ 12.25-30
Suspension or revocation ............................ 13
Tankerman endorsement ............................ 12.20
When required ........................................ 12.02-7
Where issued .......................................... 12.02-3
Military service ....................................... 10.213
Mobile offshore drilling units:
Definition .............................................. 10.103
Licenses for ............................................ 10.468
Manning of ............................................ 15.520
Month, definition ..................................... 10.103

Near coastal, definition ............................... 10.103
Subchapter B Index

O

Oath:
  License .................................................................................................................. 10.202(d)
  Seaman’s documents .......................................................................................... 12.02-15

Oceans, definition .................................................................................................. 10.103

Officer in Charge, Marine Inspection, definition ............................................... 10.103, 5.301

Officers’ Competency Certificates Convention, 1936 ...................................... 15.701

Offshore installation manager:
  Definition ........................................................................................................... 10.103
  Required service (See also subpart B—General Requirements) .................. 10.470

On location, definition .......................................................................................... 10.103

Operation (of a vessel), definition ...................................................................... 16.105

Operator, definition ............................................................................................. 10.103

Operator of uninspected passenger vessels:
  Equivalents ........................................................................................................ 15.905
  Required service: (See also subpart B—General Requirements) ............... 10.466

Operator of uninspected towing vessels:
  Equivalents ........................................................................................................ 15.910
  Required service: (See also subpart B—General Requirements) ............... 10.464

Oral examinations:
  Able seaman ..................................................................................................... 12.05-9(a)
  Definition ........................................................................................................... 10.103
  License ............................................................................................................. 10.205(i)(1)
  Lifeboatman ...................................................................................................... 12.10-5(a)
  QMED ............................................................................................................... 12.15-9
  Tankerman ........................................................................................................ 12.20-5

Original document, definition ........................................................................... 12.01-6

Original license:
  Age requirement ................................................................................................ 10.201(f)
  Cardiopulmonary resuscitation (CPR) course certificate ............................. 10.205(h)
  Character check and references ..................................................................... 10.205(f)
  Citizenship ......................................................................................................... 10.205(c)
  Definition .......................................................................................................... 10.103
  Experience requirements .................................................................................. 10.205(e)
  Fees .................................................................................................................... 10.109
  Fingerprint records .......................................................................................... 10.205(f)(2)
  Firefighting certificate required ...................................................................... 10.205(g)
  First aid certificate required ........................................................................... 10.205(h)
  Issuance to applicant on probation ................................................................ 10.205(f)(3)
  Issuance to naturalized citizen ........................................................................ 10.205(e)(4)
  Not issued to naturalized citizens on less experience than required of a citizen by birth ........................................................................................................... 10.205(e)(2)
  Physical examination ....................................................................................... 10.205(d)
  Professional examination .................................................................................. 10.205(i)
  Recommendations of master and other officers required .......................... 10.205(f)(1)

Parting with license ............................................................................................. 10.221

Payment for duplicate seaman’s documents ..................................................... 12.02-18(a)(5)

Period of grace, expired license renewal ............................................................ 10.209(e)(1)

Photographs ......................................................................................................... 12.02-9(b)

Physical examination:
  Able seaman ..................................................................................................... 12.05-3
  Food handler ..................................................................................................... 12.25-20

Original license ................................................................................................... 10.205(d)

Pilot, annual .......................................................................................................... 10.709
Radio officers: (See also subpart B—General Requirements)

Radar observer:

Qualifying experience for license:

Qualified rating, definition .................................................... 12.01-6

QM ED ................................................................. 12.15-5

Physical requirements:

Able seaman .............................................................................. 12.05-5

Original license ........................................................................ 10.205(d)

Pilot, annual ........................................................................... 10.709

QM ED .................................................................................. 12.15-5

Raise of grade of license ......................................................... 10.207(e)

Renewal of license .................................................................... 10.209(d)

Tankerman ................................................................................ 12.20-3

Physical waiver ........................................................................ 10.205(d)(4)

Pilot: (See also subpart B—General Requirements)

Current knowledge requirement ................................................ 10.713

Endorsement of master’s or mate’s license ................................ 10.703(d)

Examination for license ............................................................ 10.707

Extension of route ..................................................................... 10.705(c)

Minimum number of trips for license ........................................ 10.705(b)

Minimum number of trips for extension of route ...................... 10.705(c)

Requirement for ....................................................................... 15.812

Service required ........................................................................ 10.703

Probation, applicant on:

Original license ........................................................................ 10.205(f)(3)

Raise of grade .......................................................................... 10.207(c)(6)

Professional examination for license:

Expired over 12 months ............................................................. 10.209(f)

Fees ........................................................................................... 10.109

Original license ........................................................................ 10.205(i)

Raise of grade of license ......................................................... 10.207(d)

Renewal ................................................................................... 10.209(c)

Professional nurse ................................................................. 10.803, 10.807

Purser ..................................................................................... 10.803, 10.807

Q

Qualified member engine department:

Certification required ................................................................. 12.15-1

Definition .................................................................................. 12.15-3

Examination, list of subjects ..................................................... 12.15-9

Examination requirements ....................................................... 12.15-9

General requirements ............................................................... 12.15-3

Endorsement on merchant mariner’s document ......................... 12.15-11

Physical requirements ............................................................... 12.15-5

Ratings ..................................................................................... 12.15-11

Service or training requirements .............................................. 12.15-7

Qualified rating, definition ...................................................... 12.01-6

Qualifying experience for license:

Sea service as member of armed forces of U.S. .......................... 10.213

Sea service on vessels owned by U.S. ..................................... 10.213

R

Radar observer:

Qualification courses ................................................................. 10.305

Qualifications for ................................................................. 10.480

Requirement for ................................................................. 15.815

Radio officers: (See also subpart B—General Requirements)

License ................................................................. 10.601
## Subchapter B Index

<table>
<thead>
<tr>
<th>Requirement for ..................................................................................................................</th>
<th>15.830</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raise of grade of license:</td>
<td></td>
</tr>
<tr>
<td>Age requirement ............................................................................................................</td>
<td>10.207(c)(1)</td>
</tr>
<tr>
<td>Applicant on probation ...............................................................................................</td>
<td>10.207(c)(6)</td>
</tr>
<tr>
<td>Applicant who has lost sight in one eye .........................</td>
<td>10.207(e)(3)</td>
</tr>
<tr>
<td>Definition .....................................................................................................................</td>
<td>10.103</td>
</tr>
<tr>
<td>Documentary evidence of service ..................................................</td>
<td>10.207(c)(2)</td>
</tr>
<tr>
<td>Not issued to naturalized citizen on less experience than required of a citizen by birth</td>
<td>10.207(c)(4)</td>
</tr>
<tr>
<td>Physical requirements .........................................................................................</td>
<td>10.207(e)</td>
</tr>
<tr>
<td>Professional examination ..........................................................</td>
<td>10.207(d)</td>
</tr>
<tr>
<td>Recency of sea service ..........................................................</td>
<td>10.202(e)</td>
</tr>
<tr>
<td>Sea service acquired prior to issuance of license held not acceptable</td>
<td>10.207(c)(3)</td>
</tr>
<tr>
<td>Surrendering old license ..................................................................................</td>
<td>10.207(b)</td>
</tr>
<tr>
<td>Recency of experience or sea service ..................................................</td>
<td>10.202(e)</td>
</tr>
<tr>
<td>Reexamination for:</td>
<td></td>
</tr>
<tr>
<td>License .....................................................................................................................</td>
<td>10.217(a)</td>
</tr>
<tr>
<td>Seaman’s document .........................................................................................</td>
<td>12.02-17(f)</td>
</tr>
<tr>
<td>References, character for license ................................................</td>
<td>10.205(f)</td>
</tr>
<tr>
<td>Registration of staff officers .......................................................</td>
<td>10.903</td>
</tr>
<tr>
<td>Reissue of expired license ..........................................................</td>
<td>10.209(f)</td>
</tr>
<tr>
<td>Reissue of duplicate seamen’s documents ..................................</td>
<td>12.02-23</td>
</tr>
<tr>
<td>Related service .........................................................................................</td>
<td>10.209(c)(1)</td>
</tr>
<tr>
<td>Renewal of licenses:</td>
<td></td>
</tr>
<tr>
<td>After expiration .........................................................................................</td>
<td>10.209(e)(1)</td>
</tr>
<tr>
<td>Applicant who has lost the sight of one eye .........................</td>
<td>10.209(d)(3)</td>
</tr>
<tr>
<td>Applicant .............................................................................................................</td>
<td>10.209(a)</td>
</tr>
<tr>
<td>Before expiration .....................................................................................</td>
<td>10.209(e)(2)</td>
</tr>
<tr>
<td>Expired license ..........................................................................................</td>
<td>10.209(f)</td>
</tr>
<tr>
<td>Fees .................................................................................................................</td>
<td>10.109</td>
</tr>
<tr>
<td>Inactive license renewal for continuity purposes .......................</td>
<td>10.209(g)</td>
</tr>
<tr>
<td>Mailing of ...........................................................................................................</td>
<td>10.209(e)(3)</td>
</tr>
<tr>
<td>Period of grace .........................................................................................</td>
<td>10.209(e)(1)</td>
</tr>
<tr>
<td>Physical requirements ..................................................................................</td>
<td>10.209(d)</td>
</tr>
<tr>
<td>Pilot .....................................................................................................................</td>
<td>10.209(c)(3), 10.713</td>
</tr>
<tr>
<td>Professional requirements ..............................................................</td>
<td>10.209(c)</td>
</tr>
<tr>
<td>Radio officer ..................................................................................................</td>
<td>10.209(c)(4)</td>
</tr>
<tr>
<td>Suspended license ....................................................................................</td>
<td>10.209(b)</td>
</tr>
<tr>
<td>Revocation of seamen’s documents ..............................................</td>
<td>12.02-19, 12.02-21</td>
</tr>
<tr>
<td>Right of appeal from decision of Officer in Charge .................</td>
<td>12.02-20, 12.02-25</td>
</tr>
<tr>
<td>Rivers, definition ....................................................................................</td>
<td>10.103</td>
</tr>
<tr>
<td>Sail vessels, license endorsement ..............................................</td>
<td>10.401(f)</td>
</tr>
<tr>
<td>Sailing short .................................................................................................</td>
<td>15.725</td>
</tr>
<tr>
<td>Seamen:</td>
<td></td>
</tr>
<tr>
<td>Application for documents .........................................................</td>
<td>12.02-9</td>
</tr>
<tr>
<td>Cadet-midshipmen ....................................................................................</td>
<td>12.25-25</td>
</tr>
<tr>
<td>Certificate of identification, where issued ..........................</td>
<td>12.02-3</td>
</tr>
<tr>
<td>Certificates of service, where issued ...........................................</td>
<td>12.02-3</td>
</tr>
<tr>
<td>Citizenship requirements ...............................................................</td>
<td>12.02-13</td>
</tr>
<tr>
<td>Continuous discharge books, where issued ............................</td>
<td>12.02-3</td>
</tr>
<tr>
<td>Not shipped or discharged before shipping commissioner ..........</td>
<td>14.05-10</td>
</tr>
<tr>
<td>Paying off during voyage ..............................................................</td>
<td>14.05-7</td>
</tr>
<tr>
<td>Suspension or revocation of documents ........................................</td>
<td>12.02-19</td>
</tr>
<tr>
<td>Temporary permit in lieu of regular certificates .......................</td>
<td>12.02-3</td>
</tr>
<tr>
<td>Seamen’s documents:</td>
<td></td>
</tr>
</tbody>
</table>

S

287
Aliens ........................................................................................................ 12.02-3, 12.02-14
Application .............................................................................................. 12.02-9
Citizenship requirements ........................................................................ 12.02-13
Commitment of employment required for entry ratings ......................... 12.25-5
Duplicates, procedure for obtaining ......................................................... 12.02-23
General provisions .................................................................................. 12.02-11
Endorsements ....................................................................................... 12.02-11
Entry ratings, commitment of employment required ............................... 12.25-5
Fees ........................................................................................................ 12.02-18
Form in which issued .............................................................................. 12.02-5, 12.02-1
Loss ...................................................................................................... 12.02-23
Oath requirement .................................................................................. 12.02-15
Other than able seaman or QMED, when required .................................. 12.25-1
Preparation and issuance ....................................................................... 12.02-17
QMED, service or training requirements ................................................ 12.15-7
Revocation, issuance after ................................................................. 12.02-21
Stolen, lost, or destroyed, report of ......................................................... 12.02-23
Student observers ................................................................................ 12.25-30
Suspension or revocation ..................................................................... 12.02-19
Temporary permit in lieu of regular certificates .................................... 12.02-3(b)
When required ..................................................................................... 12.02-7
Second assistant engineer (See also subpart B—General Requirements) ............................................................................................... 10.514
Second class operator of uninspected towing vessels (See also subpart B—General Requirements) ...................................................................................................... 10.464(d)
Second mate (See also subpart B—General Requirements) .................... 10.406
Self-propelled, definition .................................................................... 15.301
Senior assistant purser ........................................................................ 10.803, 10.807
Senior company official, definition ..................................................... 10.103
Serious marine incident, definition ..................................................... 16.105
Service requirements for licenses:
Creditable service ............................................................................... 10.211
Documentation for original license ...................................................... 10.205(e)(1)
Documentation for raise of grade of license ........................................ 10.207(c)(2)
Equivalent service ................................................................................ 10.211
Experience on foreign vessels ............................................................ 10.205(e)(3), 10.207(c)(5)
Experience on motor vessels were licenses not required ....................... 10.422(c)
Recency .............................................................................................. 10.202(e)
Self certification ................................................................................... 10.211(a)
Training substitution for required service ........................................... 10.304
Service within restrictions of license .................................................. 15.401
Shipping articles:
Completing at voyage end ................................................................ 14.309
Form .................................................................................................. 14.207
Posting ............................................................................................ 14.211
Paying off during voyage ................................................................ 14.301
Preparation ......................................................................................... 14.209
Reporting shipment and discharge of seamen .................................... 14.213, 14.311
Signaling examination for deck officer's ............................................... 10.401(h)
Signature ........................................................................................... 10.202(c)
Simulator training .............................................................................. 10.304(d)
Social security number ................................................................... 12.02-19(d)
Sponsoring organization ................................................................... 16.105
Staff officers:
Definition .......................................................................................... 15.301
Required service (See also subpart B—General Requirements) .......... 10.803
Requirement for ................................................................................ 15.635
Student observers, issuance of merchant mariner's document ............ 12.25-30
Subchapter B Index

Surrender of old license upon issuance of a new license ......................................................... 10.207(b)
Suspension or revocation:
Licenses ........................................................................................................................................... 10.223
Seamen's documents ..................................................................................................................... 12.02-19

T

Tankerman:
Examination requirements ........................................................................................................... Part 13
General requirements ...................................................................................................................... 13.107
Officer's license considered certification ......................................................................................... 13.113
Physical requirements ..................................................................................................................... 13.125
Temporary MODU license ............................................................................................................ 10.476
Third assistant engineer (See also subpart B—General Requirements) ........................................ 10.516
Third mate (See also subpart B—General Requirements) .................................................................. 10.407

Tonnage limitations:
Computation for license .................................................................................................................. 10.402(b)
Computations for vessels not more than 200 gross tons ................................................................. 10.422(a)
Raises for vessels over 1600 gross tons ......................................................................................... 10.402(c)
Raises for vessels not more than 200 gross tons ........................................................................... 10.422(b)

Training course approvals:
General standards ............................................................................................................................ 10.303
Period of approval .......................................................................................................................... 10.302(c)
Records retention ............................................................................................................................ 10.303(d)
Renewal of approval ....................................................................................................................... 10.302(d)
Request for approval ....................................................................................................................... 10.302(a)
Substitution of training for required service ................................................................................... 10.304

U

Underway, definition ...................................................................................................................... 10.103
Undocumented vessel, definition ................................................................................................... 10.103

Uninspected passenger vessels:
Equivalent licenses ......................................................................................................................... 15.905
License (See also subpart B—General Requirements) ................................................................. 10.466
Manning .......................................................................................................................................... 15.905

Uninspected towing vessels:
Equivalent licenses ......................................................................................................................... 15.910
License (See also subpart B—General Requirements) ................................................................. 10.464
Manning .......................................................................................................................................... 15.610
Upper level license, definition ........................................................................................................ 10.103

V

Vessel familiarity ............................................................................................................................. 10.101(b), 15.405
Vessel owned in the United States, definition ................................................................................ 16.105
Vision:
Glasses ........................................................................................................................................... 10.202(f)
Loss in one eye ................................................................................................................................. 10.207(e)(3), 10.209(d)(3)
Requirements:
Deck officers (master, mate, pilot, operator) ................................................................................. 10.205(d)(2)
Engineer officers .............................................................................................................................. 10.205(d)(3)
Mobile offshore units ...................................................................................................................... 10.205(d)(3)
Radio officers .................................................................................................................................. 10.205(d)(3)
Waiver ............................................................................................................................................ 10.205(d)(4)
### 46 CFR Ch. I (10–1–99 Edition)

#### W

- Waiver of physical standards .............................................................. 10.205(d)(4)
- Watches ................................................................................................. 15.705
- Watchmen ............................................................................................ 15.855
- Waters, restrictions on authority of engineer’s licenses ................... 15.501, 15.519
- Western Rivers, definition ................................................................... 10.103
- Working hours ...................................................................................... 15.710

#### Y

- Year, definition ..................................................................................... 10.103
SUBCHAPTER C—UNINSPECTED VESSELS

PART 24—GENERAL PROVISIONS

Subpart 24.01—Purpose

§ 24.01–1 Purpose of regulations.

The purpose of the regulations in this subchapter is to set forth uniform minimum requirements for uninspected commercial vessels, certain motor vessels, vessels propelled by sail carrying passengers for hire, and barges carrying passengers for hire.


§ 24.01–7 Right of appeal.

Any person directly affected by a decision or action taken under this subchapter, by or on behalf of the Coast Guard, may appeal therefrom in accordance with subpart 1.03 of this chapter.

[CGD 88–033, 54 FR 50380, Dec. 6, 1989]

Subpart 24.05—Application

§ 24.05–1 Vessels subject to the requirements of this subchapter.

(a) This subchapter shall be applicable to all vessels indicated in Column 6 of Table 24.05–1 (a), and shall apply to all such United States flag vessels, and to all such foreign vessels, except as follows:

(1) Any vessel operating exclusively on inland waters which are not navigable waters of the United States.

(2) Any vessel while laid up and dismantled and out of commission.

(3) With the exception of vessels of the U.S. Maritime Administration, any vessel with title vested in the United States and which is used for public purposes.

291
### TABLE 24.05–1(a)

Glasses of vessels (including motorboats) examined or inspected under various Coast Guard regulations

<table>
<thead>
<tr>
<th>Method of propulsion</th>
<th>Size or other limitations</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
<th>Column 7</th>
<th>Column 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam ..................</td>
<td>Vessels not over 65 feet in length.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.</td>
<td>All tugboats and towboats.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>None .............</td>
<td>All vessels engaging in oceanographic research.</td>
<td>Do.</td>
<td></td>
</tr>
<tr>
<td>Vessels over 65 feet in length.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts.</td>
<td>2. All vessels of not over 15 gross tons which carry more than 6 passengers.</td>
<td>3. All other vessels carrying passengers, except: a. Yachts. b. Documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.</td>
<td>All vessels except those covered by columns 3 and 4.</td>
<td>None .............</td>
<td>All vessels carrying in bulk the cargoes listed in Table I of Pt. 153 and Table 4 of Pt. 154.</td>
<td>12.</td>
<td></td>
</tr>
</tbody>
</table>
c. Towing and fishing vessels, in other than ocean and coastwise service, may carry persons on the legitimate business of the vessel, in addition to crew, but not to exceed one for each net ton of the vessel.

<table>
<thead>
<tr>
<th>Motor</th>
<th>Vessels not over 15 gross tons.</th>
<th>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</th>
<th>All vessels carrying combustible or flammable liquid cargo in bulk.</th>
<th>All vessels carrying more than 6 passengers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All vessels carrying more than 6 passengers.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171-179.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>None</td>
<td>Do.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. All vessels carrying more than 12 passengers on an international voyage, except yachts.

2. All vessels not over 65 feet in length which carry more than 6 passengers. |

3. All other vessels of over 65 feet in length carrying passengers for hire except documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.


<table>
<thead>
<tr>
<th>Method of propulsion</th>
<th>Size or other limitations</th>
<th>Vessels inspected and certificated under either subchapter H—Passenger Vessels or subchapter T—Small Passenger Vessels</th>
<th>Vessels inspected and certificated under subchapter B—Tank Vessels</th>
<th>Vessels subject to provisions of subchapter G—Cargo and Miscellaneous Vessels</th>
<th>Vessels subject to provisions of subchapter C—Uninspected Vessels</th>
<th>Vessels engaged in oceanographic research</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seagoing motor vessels of 300 gross tons and over</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts. 2. All other vessels carrying passengers, except:</td>
<td>All vessels except those covered by columns 3 and 4, and those engaged in the fishing, oystering, clamming, crabbing, or any other branch of the fishery, kelp, or sponge industry.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>All vessels engaged in oceanographic research.</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Sail ..............................</td>
<td>Vessels not over 700 gross tons.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.</td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171–179.</td>
<td>All vessels carrying 6 or less passengers for hire.</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Table 24.05–1(a)—Continued

Glasses of vessels (including motorboats) examined or inspected under various Coast Guard regulations.
<table>
<thead>
<tr>
<th>Vessels over 700 gross tons.</th>
<th>All vessels carrying combustible or flammable liquid cargo in bulk.</th>
<th>All vessels carrying passengers for hire.</th>
<th>Those vessels carrying dangerous cargoes when required by 49 CFR parts 171-179.</th>
<th>None</th>
<th>None</th>
<th>Do.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-self-propelled ..........</td>
<td>Vessels less than 100 gross tons.</td>
<td>All vessels carrying combustible or liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.</td>
<td>All barges carrying passengers except those covered by column 4.</td>
<td>None</td>
<td>All tank barges carrying in bulk the cargoes listed in Table 151.05 of this chapter.</td>
</tr>
</tbody>
</table>

| Vessels 100 gross tons or over. | All vessels carrying combustible or flammable liquid cargo in bulk. | All vessels carrying passengers for hire. | Those vessels carrying dangerous cargoes when required by 49 CFR parts 171-179. | All barges carrying passengers except those covered by columns 3 and 4. | All seagoing barges except those covered by columns 3 and 4. | All seagoing barges except those covered by columns 3 and 4. |

1 Where length is used in this table it means the length measured from end to end over the deck, excluding sheer. This expression means a straight line measurement of the overall length from the foremost part of the vessel to the aftermost part of the vessel, measured parallel to the centerline.

2 Subchapters E (Load Lines), F (Marine Engineering), J (Electrical Engineering), and N (Dangerous Cargoes) of this chapter may also be applicable under certain conditions. The provisions of 49 CFR parts 171-179 apply whenever hazardous materials are on board vessels (including motorboats), except when specifically exempted by law.

3 Public nautical schools, other than vessels of the Navy and Coast Guard, shall meet the requirements of part 167 of subchapter R (Nautical Schools) of this chapter. Civilian nautical schools, as defined by 46 U.S.C. 1331, shall meet the requirements of subchapter H (Passenger Vessels) and part 168 of subchapter R (Nautical Schools) of this chapter.

4 Subchapter H (Passenger Vessels) of this chapter covers only those vessels of 100 gross tons or more. Subchapter T (Small Passenger Vessels) of this chapter covers only those vessels of less than 100 gross tons.

5 Vessels covered by subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter, where the principal purpose or use of the vessel is not for the carriage of passenger, may be granted a permit to carry a limited amount of flammable or combustible liquid cargo in bulk. The portion of the vessel used for the carriage of the flammable or combustible liquid cargo shall meet the requirements of subchapter D (Tank Vessels) in addition to the requirements of subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter.

6 Any vessel on an international voyage is subject to the requirements of the International Convention for Safety of Life at Sea, 1974.

7 The meaning of the term "passenger" as defined in the Act of May 10, 1956 (Sec. 1, 70, Stat. 151; 46 U.S.C. 300). On oceanographic vessels scientific personnel on board shall not be deemed to be passengers nor seamen, but for calculations of lifesaving equipment, etc., shall be counted as persons.

8 Boilers and machinery are subject to examination on vessels over 40 feet in length.

9 Under 46 U.S.C. 441 an oceanographic research vessel is a vessel "... being employed exclusively in instruction in oceanography or limnology, or both, or exclusively in oceanographic research,..." If or when an oceanographic vessel engages in trade or commerce, such vessel cannot operate under its certificate of inspection as an oceanographic vessel, but shall be inspected and certificated for the service in which engaged, and the scientific personnel aboard then become persons employed in the business of the vessel.

10 Bulk dangerous cargoes are cargoes specified in table 151.01-10(b), in table I of part 153, and in table 4 of part 154 of this chapter.

11 For manned tank barges see §151.01-10(e) of this chapter.

12 Lifesaving device requirements of subpart 25.25 only.

§ 24.05–5 Specific application noted in text.

(a) At the beginning of the various parts, subparts, and sections, a more specific application is generally given for the particular portion of the text involved. This application sets forth the types, sizes, or services of vessels to which the text pertains, and in many cases limits the application of the text to vessels contracted for before or after a specific date. As used in this subchapter, the term vessels contracted for includes not only the contracting for the construction of a vessel, but also the contracting for a material alteration to a vessel, the contracting for the conversion of a vessel to a passenger vessel, and the changing of service or route of a vessel if such change increases or modifies the general requirements for the vessel or increases the hazards to which it might be subjected.

(b) [Reserved]

Subpart 24.10—Definition of Terms Used in This Subchapter

§ 24.10–1 Approved.

This term means approved by the Commandant unless otherwise stated.

§ 24.10–2 Barge.

This term means any vessel not equipped with means of self-propulsion.

[CGFR 68–32, 33 FR 5711, Apr. 12, 1968]

§ 24.10–3 Carrying passengers for hire.

The carriage of any person or persons by a vessel for a valuable consideration, whether directly or indirectly flowing to the owner, charterer, operator, agent or any other person interested in the vessel.

§ 24.10–5 Carrying freight for hire.

The carriage of any goods, wares, or merchandise or any other freight for a valuable consideration, whether directly or indirectly flowing to the owner, charterer, operator, agent, or any other person interested in the vessel.

§ 24.10–7 Commandant.

This term means the Commandant of the Coast Guard.

§ 24.10–9 Coast Guard District Commander.

This term means an officer of the Coast Guard designated as such by the Commandant to command all Coast Guard activities within his district, which include the inspection, enforcement, and administration of Subtitle II, Title 46 U.S. Code, Title 46 and Title 33 U.S. Code, and regulations issued under these statutes.


§ 24.10–11 Headquarters.

This term means the Office of the Commandant, Washington, DC.

§ 24.10–13 International voyage.

(a) This section describes those voyages which are considered to be "international voyages" for the purposes of this subchapter.

(b) Except as provided in paragraph (c) of this section, the term international voyage as used in this subchapter shall have the same meaning as that contained in Regulation 2(d), chapter I of the International Convention for Safety of Life at Sea, 1974, i.e., "International voyage means a voyage from a country to which the present convention applies to a port outside such country, or conversely."

(c) The International Convention for Safety of Life at Sea, 1974, does not apply to vessels "solely navigating the Great Lakes of North America and the River St. Lawrence as far east as a straight line drawn from Cap de Rosiers to West Point, Anticosti Island and, on the north side of Anticosti Island, the 63d Meridian." Accordingly, such vessels shall not be considered as being on an international voyage for the purpose of this subchapter.

(d) In addition, although voyages between the continental United States and Hawaii or Alaska, and voyages between Hawaii and Alaska are not international voyages under the provisions of the International Convention for Safety of Life at Sea, 1974, such voyages are similar in nature and shall be considered as international voyages for the purposes of this subchapter.

[CGD 90–008, 55 FR 30659, July 26, 1990]
§ 24.10-15 Marine inspector or inspector.
These terms mean any person from the civilian or military branch of the Coast Guard assigned under the superintendence and direction of an Officer in Charge, Marine Inspection, or any other person as may be designated for the performance of duties with respect to the inspection, enforcement, and administration of Subtitle II, Title 46 U.S. Code, Title 46 and Title 33 U.S. Code, and regulations issued under these statutes.


§ 24.10-17 Motorboat.
(a) This term means any vessel indicated in column 6 of Table 24.05-1(a), 65 feet in length or less which is equipped with propulsion machinery (including steam). The length shall be measured from end to end over the deck excluding sheer. This term includes a boat temporarily or permanently equipped with a detachable motor. For the purpose of this subchapter, motorboats are included under the term vessel unless specifically noted otherwise. The various length categories of motorboats are as follows:
Any motorboat less than 16 feet in length.
Any motorboat 16 feet or over and less than 26 feet in length.
Any motorboat 26 feet or over and less than 40 feet in length.
Any motorboat 40 feet or over and not more than 65 feet in length.
(b) The expression “length shall be measured from end to end over the deck excluding sheer” means a straight line measurement of the overall length from the foremost part of the vessel to the aftermost part of the vessel, measured parallel to the centerline. Bow sprits, bumpkins, rudders, outboard motor brackets, and similar fittings or attachments, are not to be included in the measurement. Length shall be stated in feet and inches.


§ 24.10-19 Motor vessel.
This term means any vessel more than 65 feet in length, which is propelled by machinery other than steam.

§ 24.10-20 Oceanographic research vessel.
An oceanographic research vessel is a vessel which the U.S. Coast Guard finds is employed exclusively in one or more of the following:
(a) Oceanographic instruction;
(b) Limnologic instruction;
(c) Oceanographic research; or
(d) Limnologic research.

[CGD 77-0811, 46 FR 56204, Nov. 16, 1981]

§ 24.10-21 Officer in Charge, Marine Inspection.
This term means any person from the civilian or military branch of the Coast Guard designated as such by the Commandant and who, under the superintendence and direction of the Coast Guard District Commander, is in charge of an inspection zone for the performance of duties with respect to the inspections, enforcement, and administration of Subtitle II, Title 46 U.S. Code, Title 46 and Title 33 U.S. Code, and regulations issued under these statutes.


§ 24.10-23 Passenger.
A passenger is every person, other than the master and the members of the crew or other persons employed or engaged in any capacity on board a vessel in the business of that vessel. In the case of a vessel on an international voyage a child under one year of age is not counted as a passenger.

§ 24.10-27 Vessel.
Where the word vessel is used in this subchapter, it shall be considered to include all vessels indicated in Column 6 of Table 24.05-1(a), except as otherwise noted in this subpart.
§ 24.15–1

Subpart 24.15—Equivalents

§ 24.15–1 Conditions under which equivalents may be used.

(a) Where in this subchapter it is provided that a particular fitting, material, appliance, apparatus, or equipment, or type thereof, shall be fitted or carried in a vessel, or that any particular provision shall be made or arrangement shall be adopted, the Commandant may accept in substitution therefor any other fitting, material, apparatus, or equipment, or type thereof, or any other arrangement. Provided, That he shall have been satisfied by suitable trials that the fitting, material, appliance, apparatus, or equipment, or type thereof, or the provision or arrangement is at least as effective as that specified in this subchapter.

(b) In any case where it is shown to the satisfaction of the Commandant that the use of any particular equipment, apparatus, or arrangement not specifically required by law is unreasonable or impracticable, the Commandant may permit the use of alternate equipment, apparatus, or arrangement to such an extent and upon such conditions as will insure to his satisfaction, a degree of safety consistent with the minimum standards set forth in this subchapter.

§ 24.15–5 Canadian pleasure craft temporarily using navigable waters of the United States.

Uninspected Canadian pleasure craft (uninspected vessels) temporarily using navigable waters of the United States may carry in lieu of the equipment required by this subchapter, the equipment as required by the laws of the Dominion of Canada and the regulations of the Department of Transport, Ottawa, Canada.


Subpart 24.20—General Marine Engineering Requirements

§ 24.20–1 Marine engineering details.

(a) All marine engineering details relative to the design, construction, and testing of boilers and machinery on steam-propelled motorboats of over 40 feet in length will be found in subchapter F (Marine Engineering) of this chapter.

PART 25—Requirements

Subpart 25.01—Application

Sec.

25.01–1 Applicable to all vessels.

25.01–3 Incorporation by reference.

25.01–5 OMB control numbers assigned pursuant to the Paperwork Reduction Act.

Subpart 25.25—Life Preservers and Other Lifesaving Equipment

25.25–1 Application.

25.25–3 Definitions.

25.25–5 Life preservers and other lifesaving equipment required.

25.25–7 Marking.

25.25–9 Storage.

25.25–11 Condition.

25.25–13 Personal flotation device lights.

25.25–15 Retroselective material for personal flotation devices.

Subpart 25.26—Emergency Position Indicating Radio Beacons (EPIRB)

25.26–1 Definitions.

25.26–5 Commercial fishing industry vessels.

25.26–10 Uninspected passenger vessels.

25.26–20 Other manned uninspected commercial vessels.

25.26–50 Servicing of EPIRBs.

25.26–60 Exemptions.

Subpart 25.30—Fire Extinguishing Equipment

25.30–1 Application.

25.30–5 General provisions.

25.30–10 Hand portable fire extinguishers and semiportable fire extinguishing systems.

25.30–15 Fixed fire extinguishing systems.

25.30–20 Fire extinguishing equipment required.

25.30–90 Vessels contracted for prior to November 10, 1952.

Subpart 25.35—Backfire Flame Control

25.35–1 Requirements.

Subpart 25.40—Ventilation

25.40–1 Tanks and engine spaces.

Subpart 25.45—Cooking, Heating, and Lighting Systems

25.45–1 Heating and lighting systems on vessels carrying passengers for hire.
Coast Guard, DOT

25.45-2 Cooking systems on vessels carrying passengers for hire.

Subpart 25.50—Garbage Retention

25.50-1 Criteria.

Authority: 33 U.S.C. 1903(b); 46 U.S.C. 3306, 4302; 49 CFR 1.46.

Source: CGFR 65-50, 30 FR 16653, Dec. 30, 1965, unless otherwise noted.

Subpart 25.01—Application

§ 25.01-1 Applicable to all vessels.

(a) The provisions of this part shall apply to all vessels except as specifically noted.

§ 25.01-3 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the Federal Register and make the material available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and at the U.S. Coast Guard, Office of Compliance (G-MOC), 2100 Second Street SW., Washington, DC 20593-0001 and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are:

American Boat and Yacht Council (ABYC)
3069 Solomons Island Road, Edgewater, MD 21037


National Fire Protection Association (NFPA)
1 Batterymarch Park, Quincy, MA 02269


Society of Automotive Engineers (SAE)
400 Commonwealth Drive, Warrendale, PA 15096


Underwriter’s Laboratories (UL)
12 Laboratory Drive, Research Triangle Park, NC 27709

UL 1111, Marine Carburetor Flame Arrestors, June 1989...............25.35-1


§ 25.01-5 OMB control numbers assigned pursuant to the Paperwork Reduction Act.

(a) Purpose. This section collects and displays the control numbers assigned to information collection and record-keeping requirements in this subchapter by the Office of Management and Budget (OMB) pursuant to the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.). The Coast Guard intends that this section comply with the requirements of 44 U.S.C. 3507(f), which requires that agencies display a current control number assigned by the Director of the OMB for each approved agency information collection requirement.

(b) Display.

<table>
<thead>
<tr>
<th>CFR part or section where identified or described</th>
<th>Current OMB control No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 25.45-2 ...........................................................</td>
<td>2115.0549</td>
</tr>
</tbody>
</table>


Subpart 25.25—Life Preservers and Other Lifesaving Equipment

Source: CGD 72–172R, 38 FR 8117, Mar. 28, 1973, unless otherwise noted.

§ 25.25–1 Application.

This subpart applies to each vessel to which this part applies, except:

(a) Vessels used for noncommercial use;

(b) Vessels leased, rented, or chartered to another for the latter’s non-commercial use;

(c) Commercial vessels propelled by sail not carrying passengers for hire; or

(d) Commercial barges not carrying passengers for hire.
§ 25.25-3 Definitions.

As used in this subpart:
(a) Approved means approved under subchapter Q of this chapter.
(b) Use means operate, navigate, or employ.

§ 25.25-5 Life preservers and other lifesaving equipment required.

(a) No person may operate a vessel to which this subpart applies unless it meets the requirements of this subpart.
(b) Each vessel not carrying passengers for hire, less than 40 feet in length must have at least one life preserver (Type I PFD), buoyant vest (Type II PFD), or marine buoyant device intended to be worn (Type III PFD), approved under subchapter Q of a suitable size for each person on board. Kapok and fibrous glass life preservers that do not have plastic-covered pad inserts as required by subparts 160.062 and 160.005 of this chapter are not acceptable as equipment required by this paragraph.
(c) Each vessel carrying passengers for hire and each vessel 40 feet in length or longer not carrying passengers for hire must have at least one life preserver approved under subchapter Q of a suitable size for each person on board. Kapok and fibrous glass life preservers which do not have plastic-covered pad inserts as required by subparts 160.002 and 160.005 of this chapter are not acceptable as equipment required by this paragraph.
(d) In addition to the equipment required by paragraph (b) or (c) of this section, each vessel 26 feet in length or longer must have at least one approved ring life buoy, constructed in accordance with subpart 160.050 of this chapter; except a ring life buoy that was approved under former subpart 160.009 of this chapter may be used as long as it is in good and serviceable condition.
(e) Each vessel not carrying passengers for hire may substitute an immersion suit for a life preserver, buoyant vest, or marine buoyant device required under paragraphs (b) or (c) of this section.
(f) On ocean, coastwise, or Great Lakes voyages, each vessel must carry and use an approved PFD. An approved PFD must be readily accessible.

§ 25.25-7 Marking.

The lifesaving equipment required by this subpart must be legibly marked as specified in subchapter Q of this chapter.

§ 25.25-9 Storage.

(a) Personal flotation device lights.

(a) This section applies to vessels described in §25.25-5 that engage in ocean, coastwise, or Great Lakes voyages.
(b) Each immersion suit carried in accordance with §25.25-5(e), each life preserver, each marine buoyant device intended to be worn, and each buoyant vest must have a personal flotation device light that is approved under subpart 161.012 of this chapter.

46 CFR Ch. I (10–1–99 Edition)
(c) Each personal flotation device light required by this section must be securely attached to the front shoulder area of the immersion suit, life preserver, or other personal flotation device.

(d) If a personal flotation device light has a non-replaceable power source, the light must be replaced on or before the expiration date of the power source. If the light has a replaceable power source, the power source must be replaced on or before its expiration date and the light must be replaced when it is no longer serviceable.

§ 25.25-15 Retroreflective material for personal flotation devices.

(a) Each life preserver, each marine buoyant device intended to be worn, and each buoyant vest carried on a vessel must have Type I retroreflective material that is approved under subpart 164.018 of this chapter.

(b) Each item required to have retroreflective material must have at least 200 sq. cm (31 sq. in.) of material attached to its front side, at least 200 sq. cm of material on its back side, and, if the item is reversible, at least 200 sq. cm of material on each of its reversible sides. The material attached on each side of the item must be divided equally between the upper quadrants of the side, and the material in each quadrant must be attached as closely as possible to the shoulder area of the item.

§ 25.26-5 Commercial fishing industry vessels.

(a) The owner of a fishing vessel, a fish processing vessel, or a fish tender vessel, 11 meters (36 feet) or more in length, except for vessels described in paragraph (b) or (c) of this section, shall ensure that the vessel does not operate on the high seas or beyond three miles from the coastline of the Great Lakes unless it has on board a float-free, automatically activated Category 1 406 MHz EPIRB stowed in a manner so that it will float-free if the vessel sinks.

(b) The owner of a fishing vessel, fish processing vessel, or a fish tender vessel less than 11 meters (36 feet) in length, or 11 meters or more in length which has a builder's certification that the vessel is constructed with sufficient inherently buoyant material to keep the flooded vessel afloat, shall ensure that the vessel does not operate...
§ 25.26–10 Uninspected passenger vessels.

An uninspected passenger vessel is not required to carry an EPIRB.

§ 25.26–20 Other manned uninspected commercial vessels.

(a) The owner of a manned uninspected commercial vessel 11 meters (36 feet) or more in length, other than a vessel under § 25.26–5 or § 25.26–10 or under paragraph (b) of this section, shall ensure that the vessel does not operate on the high seas or beyond three miles from the coastline of the Great Lakes unless it has on board a float-free, automatically activated Category 1 406 MHz EPIRB stowed in a manner so that it will float free if the vessel sinks.

(b) The owner of a manned uninspected commercial vessel less than 11 meters (36 feet) in length, or 11 meters or more in length which has a builder’s certification that the vessel is constructed with sufficient inherently buoyant material to keep the flooded vessel afloat, shall ensure that the vessel does not operate on the high seas or beyond three miles from the coastline of the Great Lakes, unless it has installed in a readily accessible location at or near the principal steering station—

(1) A manually activated Category 2 406 MHz EPIRB; or

(2) A float-free, automatically activated Category 1 406 MHz EPIRB.

(c) The owner of a fishing vessel, fish processing vessel or a fish tender vessel 11 meters (36 feet) or more in length that does not have installed galley or berthing facilities, shall ensure that the vessel does not operate on the high seas or beyond three miles from the coastline of the Great Lakes unless it has installed in a readily accessible location at or near the principal steering station—

(1) A manually activated Category 2 406 MHz EPIRB; or

(2) A float-free, automatically activated Category 1 406 MHz EPIRB.

(3) Until February 1, 1998, a 121.5/243.0 MHz EPIRB meeting § 25.26–30.

§ 25.26–50 Servicing of EPIRBs.

(a) The master of each vessel required to have an EPIRB under this subpart shall ensure that each EPIRB on board is tested and serviced as required by this section.

(b) The EPIRB must be tested immediately after installation and at least once each month thereafter, unless it is an EPIRB installed in a Coast Guard approved inflatable liferaft that is tested annually during the servicing of the liferaft by an approved servicing facility. The test shall be conducted in accordance with the manufacturer’s instructions, using the visual or audio indicator on the EPIRB. If the EPIRB is not operating, it must be repaired or replaced with an operating EPIRB.

(c) The battery of the EPIRB must be replaced—

(1) Immediately after the EPIRB is used for any purpose other than being tested; and

(2) Before the expiration date that is marked on the battery.

§ 25.26–60 Exemptions.

(a) A skiff or work boat is not required to carry an EPIRB if—

(1) Its “mother ship” is required to carry an EPIRB under this subpart; and

(2) When not in use, the skiff or work boat is carried on board the mother ship.

(b) Each Coast Guard District Commander may, on a case-by-case basis, grant exemptions from the carriage requirements of EPIRBs in this subpart for certain geographic areas within the boundaries of his or her own district if the District Commander determines that an EPIRB will not significantly enhance the overall safety of the vessel.
and crew. Exemptions may be limited to specific time periods. Exemptions granted under this paragraph must be:

1. Issued in writing by the cognizant Coast Guard District Commander for each individual application; and
2. For geographic locations and may be limited to specific time periods.

Subpart 25.30—Fire Extinguishing Equipment

§ 25.30–1 Application.
(a) The provisions of this subpart, with the exception of § 25.30–90, shall apply to all vessels contracted for on or after November 19, 1952. Vessels contracted for prior to that date shall meet the requirements of § 25.30–90.

§ 25.30–5 General provisions.
(a) Where equipment in this subpart is required to be of an approved type, such equipment requires the specific approval of the Commandant. Such approvals are published in the Federal Register, and in addition, are contained in Coast Guard publication COMDTINST M16714.3 (Series), Equipment Lists.

(b) All hand portable fire extinguishers, semiportable fire extinguishing systems, and fixed fire extinguishing systems shall be of an approved type.


§ 25.30–10 Hand portable fire extinguishers and semiportable fire extinguishing systems.

(a) Hand portable fire extinguishers and semiportable fire extinguishing systems are classified by a combination letter and number symbol. The letter indicating the type of fire which the unit could be expected to extinguish, and the number indicating the relative size of the unit.

(b) For the purpose of this subchapter, all required hand portable fire extinguishers and semiportable fire extinguishing systems are of the “B” type; i.e., suitable for extinguishing fires involving flammable liquids, greases, etc.

(c) The number designations for size will start with “I” for the smallest to “V” for the largest. For the purpose of this subchapter, only sizes I through III will be considered. Sizes I and II are considered hand portable fire extinguishers and sizes III, IV, and V are considered semiportable fire extinguishing systems which shall be fitted with suitable hose and nozzle or other practicable means so that all portions of the space concerned may be covered. Examples of size graduations for some of the typical hand portable fire extinguishers and semiportable fire extinguishing systems are set forth in Table 25.30–10(c).

TABLE 25.30–10(c)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Foam, gallons</th>
<th>Carbon Dioxide, pounds</th>
<th>Dry Chemical, pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Size</td>
<td>Foam, gallons</td>
<td>Carbon Dioxide, pounds</td>
</tr>
<tr>
<td>B</td>
<td>I</td>
<td>1/4</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>II</td>
<td>2/3</td>
<td>15</td>
</tr>
<tr>
<td>B</td>
<td>III</td>
<td>12</td>
<td>35</td>
</tr>
</tbody>
</table>

(d) All hand portable fire extinguishers and semiportable fire extinguishing systems shall have permanently attached thereto a metallic name plate giving the name of the item, the rated capacity in gallons, quarts, or pounds, the name and address of the person or firm for whom approved, and the identifying mark of the actual manufacturer.

(e) Vaporizing-liquid type fire extinguishers containing carbon tetrachloride or chlorobromomethane or other toxic vaporizing liquids are not acceptable as equipment required by this subchapter.

(f) Hand portable or semiportable extinguishers which are required on their name plates to be protected from freezing shall not be located where freezing temperatures may be expected.

(g) The use of dry chemical, stored pressure, fire extinguishers not fitted with pressure gauges or indicating devices, manufactured prior to January 1, 1965, may be permitted on motorboats and other vessels so long as such extinguishers are maintained in good and serviceable condition. The following maintenance and inspections are required for such extinguishers:

1. When the date on the inspection record tag on the extinguishers shows that 6 months have elapsed since last
weight check ashore, then such extinguisher is no longer accepted as meeting required maintenance conditions until reweighed ashore and found to be in a serviceable condition and within required weight conditions.

(2) If the weight of the container is ¼ ounce less than that stamped on container, it shall be serviced.

(3) If the outer seal or seals (which indicate tampering or use when broken) are not intact, the boarding officer or marine inspector will inspect such extinguisher to see that the frangible disc in neck of the container is intact; and if such disc is not intact, the container shall be serviced.

(4) If there is evidence of damage, use, or leakage, such as dry chemical powder observed in the nozzle or elsewhere on the extinguisher, the container shall be replaced with a new one and the extinguisher properly serviced or the extinguisher replaced with another approved extinguisher.

(h) The dry chemical, stored pressure, fire extinguishers without pressure gauges or indicating devices manufactured after January 1, 1965, shall not be labeled with the marine type label bed in §162.028-4 of this title nor shall such extinguishers manufactured after January 1, 1965, be carried on board motorboats or other vessels as required equipment.


§ 25.30-15 Fixed fire extinguishing systems.

(a) When a fixed fire extinguishing system is installed, it shall be of an approved carbon dioxide type, designed and installed in agreement with the applicable provisions of subpart 76.15 of subchapter H (Passenger Vessels) of this chapter.

§ 25.30-20 Fire extinguishing equipment required.

(a) Motorboats. (1) All motorboats shall carry at least the minimum number of hand portable fire extinguishers set forth in Table 25.30-20(a)(1), except that motorboats less than 26 feet in length, propelled by outboard motors and not carrying passengers for hire, need not carry such portable fire extinguishers if the construction of such motorboats will not permit the entrapment of explosive or flammable gases or vapors.

Table 25.30-20(a)(1)

<table>
<thead>
<tr>
<th>Length, feet</th>
<th>Minimum number of B-1 hand portable fire extinguishers required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 16</td>
<td>1</td>
</tr>
<tr>
<td>16 and over, but under 26</td>
<td>2</td>
</tr>
<tr>
<td>26 and over, but under 40</td>
<td>3</td>
</tr>
<tr>
<td>40 and over, but not over 65</td>
<td>4</td>
</tr>
</tbody>
</table>

1 One B-11 hand portable fire extinguisher may be substituted for two B-1 hand portable fire extinguishers.

(2) The intent of this regulation is illustrated in Figure 25.30-20(a1) where fire extinguishers are required if any one or more of the specified conditions exist, and in Figure 25.30-20(a2) where specified conditions do not, in themselves, require that fire extinguishers be carried.

![Figure 25.30-20(a1)](image_url)

Fire extinguishers are required if any one or more of the following conditions exist (numbers identifying conditions are the same as those placed in Figure 25.30-20(a1)): 1. Closed compartment under thwarts and seats wherein portable fuel tanks may be stored. 2. Double bottoms not sealed to the hull or which are not completely filled with flotation material. 3. Close living spaces. 4. Closed stowage compartments in which combustible or flammable materials are stowed. 5. Permanently installed fuel tanks.
Coast Guard, DOT

§ 25.30–20 Vessels contracted for prior to November 19, 1952.

(a) Vessels contracted for prior to November 19, 1952, shall meet the applicable provisions of §§ 25.30–5 through 25.30–20 insofar as the number and general type of equipment is concerned. Existing items of equipment and installations previously approved but not meeting the applicable requirements for type approval may be continued in service so long as they are in good condition. All new installations and replacements shall meet the requirements of §§ 25.30–5 through 25.30–20.

(b) [Reserved]

Subpart 25.35—Backfire Flame Control

§ 25.35–1 Requirements.

(a) Every gasoline engine installed in a motorboat or motor vessel after April 25, 1940, except outboard motors, shall be equipped with an acceptable means of backfire flame control.

(b) Installations made before November 19, 1952, need not meet the detailed requirements of this subpart and may be continued in use as long as they are serviceable and in good condition. Replacements shall meet the applicable conditions in this section.

(c) Installations consisting of backfire flame arresters bearing basic Approval Nos. 162.015 or 162.041 or engine air and fuel induction systems bearing No. 162.019 may be continued in use.
§ 25.40-1

Tanks and engine spaces.

(a) All motorboats or motor vessels, except open boats and as provided in paragraphs (d) and (e) of this section, the construction or decking over of which is commenced after April 25, 1940, and which use fuel having a flashpoint of 110°F., or less, shall have at least two ventilator ducts, fitted with cowls or their equivalent, for the efficient removal of explosive or flammable gases from the bilges of every engine and fuel tank compartment. There shall be at least one exhaust duct installed so as to extend from the open atmosphere to the lower portion of the bilge and at least one intake duct installed so as to extend to a point at least midway to the bilge or at least below the level of the carburetor air intake. The cowls shall be located and trimmed for maximum effectiveness and in such a manner so as to prevent displaced fumes from being recirculated.

(b) As used in this section, the term open boats means those motorboats or motor vessels with all engine and fuel tank compartments, and other spaces to which explosive or flammable gases and vapors from these compartments may flow, open to the atmosphere and so arranged as to prevent the entrapment of such gases and vapors within the vessel.

(c) Boats built after July 31, 1980, which are manufactured or used primarily for noncommercial use; which are rented, leased, or chartered to another for the latter’s noncommercial use; or which engage in conveying six or fewer passengers are exempted from the requirements of paragraph (a) for fuel tank compartments that:

(1) Contain a permanently installed fuel tank if each electrical component is ignition protected in accordance with 33 CFR 183.410(a); and

(2) Contain fuel tanks that vent to the outside of the boat.


Subpart 25.45—Cooking, Heating, and Lighting Systems

§ 25.45-1 Heating and lighting systems on vessels carrying passengers for hire.

(a) No fuel may be used in any heating or lighting system on any vessel carrying passengers for hire without the approval of Commandant (G-MSE), except—

(1) Alcohol, solid,

(2) Alcohol, liquid, combustible,

(3) Fuel oil, No. 1, No. 2, or No. 3,

(4) Kerosene,

(5) Wood or,

(6) Coal.

(b) Heating and lighting systems using alcohol must meet the following requirements:

(1) Containers of solidified alcohol must be properly secured to a fixed base.

(2) Fluid alcohol burners, where wet priming is used, must have—

(i) A catch pan of not less than ¾” depth secured inside the frame of the stove; or

(ii) The metal protection under the stove flanged up at least ¾” to form a pan.

(c) Heating and lighting systems using kerosene or fuel oil must meet the following requirements:

(1) Where wet priming is used, each system must have—

(i) A catch pan of not less than ¾” depth secured inside the frame of the stove; or

(ii) The metal protection under the stove flanged up at least ¾” to form a pan.
Coast Guard, DOT § 25.45–2 Cooking systems on vessels carrying passengers for hire.

(a) No fuel may be used in any cooking system on any vessel carrying passengers for hire without the approval of Commandant (G–MSE) except those listed in §25.45–1, subject to the requirements stated therein, and liquefied petroleum gas (LPG), or compressed natural gas (CNG).

(b) Cooking systems using LPG or CNG must meet the following requirements:

(1) The design, installation, and testing of each LPG system must meet ABYC A–1–78 or chapter 6 of NFPA 302.

(2) The design, installation, and testing of each CNG system must meet ABYC A–22–78 or chapter 6 of NFPA 302.

(3) Cooking systems using chapter 6 of NFPA 302 as the standard must meet the following additional requirements:

(i) The storage or use of CNG containers within the accommodation area, machinery spaces, bilges, or other enclosed spaces is prohibited.

(ii) LPG or CNG must be odorized in accordance with ABYC A–1.5.d or A–22.5.b, respectively.

(iii) The marking and mounting of LPG cylinders must be in accordance with ABYC A–1.6.b.

(iv) LPG cylinders must be of the vapor withdrawal type as specified in ABYC A–1.5.b.

(4) Continuous pilot lights or automatic glow plugs are prohibited for an LPG or CNG installation using ABYC A–1 or A–22 as the standard.

(5) CNG installations using ABYC A–22 as the standard must meet the following additional requirements:

(i) The stowage or use of CNG containers within the accommodation area, machinery spaces, bilges, or other enclosed spaces is prohibited.

(ii) The CNG cylinders, regulating equipment, and safety equipment must meet the installation, stowage, and testing requirements specified in paragraph 6–5.12 of NFPA 302.

(iii) The use of stowage of stoves with attached CNG cylinders is prohibited as specified in paragraph 6–5.1 of NFPA 302.

(6) If the fuel supply line of an LPG or CNG system enters an enclosed space on the vessel, a remote shut-off valve must be installed that can be operated from a position adjacent to the appliance. The valve must be located between the fuel tank and the point where the fuel supply line enters the enclosed portion of the vessel. A power operated valve installed to meet this requirement must be of a type that will fail closed.

(7) The following variances from ABYC A–1.11.b(1) are allowed for CNG:

(i) The storage locker or housing access opening need not be in the top.

(ii) The locker or housing need not be above the waterline.

(8) The following variances from NFPA 302 are allowed:

(i) The storage locker or housing for CNG tank installations need not be above the waterline as required by paragraph 6–5.12.1.1(a).

(ii) Ignition protection need not be provided as required by paragraph 6–5.4.

Subpart 25.50—Garbage Retention

§25.50–1 Criteria.

Each un inspected vessel must meet the garbage discharge, waste management plan, and placard requirements of 33 CFR part 151 applicable to the vessel.
Part 26—Operations

Subpart 26.01—Application

§ 26.01-1 Applicable to all vessels.

Subpart 26.03—Special Operating Requirements

§ 26.03-1 Safety orientation.

(a) Before getting underway in any vessel carrying 6 or fewer passengers for hire, the operator in charge shall ensure that suitable public announcements, instructive placards or both are provided in a manner which affords all passengers the opportunity to become acquainted with:

(1) Stowage locations of life preservers;

(2) Proper method of donning and adjusting life preservers of the type(s) carried on the vessel;

(3) The type and location of all lifesaving devices carried on the vessel; and

(4) The location and contents of the Emergency Checkoff List required by § 26.03-2.

(b) Vessels subject to this subpart engaged in tender service at yacht clubs and marinas, and vessels being demonstrated for a potential purchaser by a yacht broker, are excluded from the requirements of § 26.03-1 and § 26.03-2.

[CGD 78-009, 45 FR 11109, Feb. 19, 1980]

§ 26.03-2 Emergency instructions.

(a) The operator in charge of each vessel carrying 6 or fewer passengers for hire shall ensure that an emergency checkoff list is posted in a conspicuous, continuously accessible place to serve as a notice to the passengers and a reminder to the crew of precautionary measures which may be necessary in the event of an emergency situation.

(b) Except where any part of the emergency instructions are deemed unnecessary by the Officer in Charge, Marine Inspection, the emergency checkoff list must contain not less than the applicable portions of the sample emergency checkoff list which follows:

Sample Emergency Checkoff List

Measures to be considered in the event of:

(a) Rough weather at sea or crossing hazardous bars.
   - All weathertight and watertight doors, hatches and airports closed to prevent taking water aboard.
   - Bilges kept dry to prevent loss of stability.


Source: CGFR 65-50, 30 FR 16656, Dec. 30, 1965, unless otherwise noted.

Subpart 26.01—Application

§ 26.01-1 Applicable to all vessels.

(a) The provisions of this part shall apply to all vessels except as specifically noted.
(a) Passengers seated and evenly distributed.
(b) All passengers wearing life preservers in conditions of very rough seas or if about to cross a bar under hazardous conditions.
(c) An international distress call and a call to the Coast Guard over radiotelephone made if assistance is needed (if radiotelephone equipped). (b) Man overboard.
(d) Ring buoy thrown overboard as close to the victim as possible.
(e) Lookout posted to keep the victim in sight.
(f) Crewmember, wearing a life preserver and lifeline, standing by ready to jump into the water to assist the victim back aboard.
(g) Coast Guard and all vessels in the vicinity notified by radiotelephone (if radiotelephone equipped).
(h) Search continued until after radiotelephone consultation with the Coast Guard, if at all possible. (c) Fire at Sea.
(i) Air supply to the fire cut off by closing hatches, ports, doors, and ventilators, etc.
(j) Portable extinguishers discharged at the base of the flames of flammable liquid or grease fires or water applied to fires in combustible solids.
(k) If fire is in machinery spaces, fuel supply and ventilation shut off and any installed fixed firefighting system discharged.
(l) Vessel maneuvered to minimize the effect of wind on the fire.
(m) Coast Guard and all vessels in the vicinity notified by radiotelephone of the fire and vessel location (if radiotelephone equipped).
(n) Passengers moved away from fire and wearing life preservers.

(c) When in the judgment of the cognizant Officer in Charge, Marine Inspection, the operation of any vessel subject to this section does not present the hazards listed on the emergency checkoff list or when any vessel has no suitable mounting surface, an exclusion from the requirements of §26.03-2(a) and (b) is granted by letter.

§26.03-5 Action required after accident.

(a) Whenever an undocumented vessel is involved in a marine casualty, the master or individual in charge shall:

(1) Render necessary assistance to each individual affected to save that affected individual from danger caused by a marine casualty, so far as the master or individual in charge can do so without serious danger to the master’s or the individual’s vessel or to individuals on board; and

(2) Give the master’s or individual’s name and address and identification of the vessel to the master or individual in charge of any other vessel involved in the casualty, to any individual injured, and to the owner of any property damaged.

(b) Undocumented vessels involved in marine casualties shall report the casualty in accordance with the requirements of 33 CFR part 173, subpart C.


§26.03-10 Signaling light.

All vessels of over 150 gross tons, when engaged on an international voyage, shall be equipped with an efficient daylight signaling lamp in accordance with the requirements of subchapter J (Electrical Engineering) of this chapter.


Subpart 26.08—Notice and Reporting of Casualty and Voyage Records


§26.08-1 Notice and reporting of casualty and voyage records.

The requirements for providing notice and reporting of marine casualties and for retaining voyage records are contained in part 4 of this chapter.


Subpart 26.15—Boarding

§26.15-1 May board at any time.

(a) To facilitate the boarding of vessels by the commissioned, warrant, and petty officers of the U.S. Coast Guard in the exercise of their authority, every uninspected vessel, as defined in 46 U.S.C. 2101(43), if underway and upon being hailed by a Coast Guard vessel,
§ 26.20–1

must stop immediately and lay to, or must maneuver in such a way to permit the Coast Guard boarding officer to come aboard. Failure to permit a Coast Guard boarding officer to board a vessel or refusal to comply will subject the operator or owner of the vessel to the penalties provided in law.

(b) Coast Guard boarding vessels will be identified by the display of the Coast Guard ensign as a symbol of authority and the Coast Guard personnel will be dressed in Coast Guard uniform. The Coast Guard boarding officer upon boarding a vessel will identify himself to the master, owner, or operator and explain his mission.


Subpart 26.20—Exhibition of Motorboat Operator’s License

§ 26.20–1 Must be available.

(a) Any person to whom a license as a motorboat operator has been issued shall have such license in his possession and available for immediate production to any Coast Guard boarding officer at all times during which any vessel which he is operating is carrying passengers for hire.

Subpart 26.25 [Reserved]

Subpart 26.30—Work Vest

SOURCE: CGFR 68–65, 33 FR 19982, Dec. 28, 1968, unless otherwise noted.

§ 26.30–1 Approved unicellular plastic foam work vests.

(a) Buoyant work vests carried under the permissive authority of this subpart shall be of an approved type, and shall be constructed, listed, and labeled in accordance with subpart 160.053 of subchapter Q (Specifications) of this chapter.

§ 26.30–5 Use.

(a) Approved buoyant work vests are considered to be items of safety apparel and may be carried aboard vessels to be worn by crew members when working near or over the water under favorable working conditions.

46 CFR Ch. I (10–1–99 Edition)

(b) When carried, approved buoyant work vests shall not be accepted in lieu of any portion of the required number of approved lifesaving appliances required by § 25.25–10 of this subchapter.

§ 26.30–10 Stowage.

(a) The approved buoyant work vests shall be stowed separately from the regular stowage of required lifesaving equipment.

PART 28—REQUIREMENTS FOR COMMERCIAL FISHING INDUSTRY VESSELS

Subpart A—General Provisions

Sec.
28.10 Authority.
28.20 OMB control numbers.
28.30 Applicability.
28.40 Incorporation by reference.
28.50 Definition of terms used in this part.
28.60 Exemption letter.
28.65 Termination of unsafe operations.
28.70 Approved equipment and material.
28.73 Accepted organizations.
28.76 Similarly qualified organizations.
28.95 Right of appeal.

Subpart B—Requirements for All Vessels

28.100 Applicability.
28.105 Lifesaving equipment—general requirements.
28.110 Life preservers or other personal flotation devices.
28.115 Ring life buoys.
28.120 Survival craft.
28.125 Stowage of survival craft.
28.130 Survival craft equipment.
28.135 Lifesaving equipment markings.
28.140 Operational readiness, maintenance, and inspection of lifesaving equipment.
28.145 Distress signals.
28.150 Emergency Position Indicating Radio Beacons (EPIRBs).
28.155 Excess fire detection and protection equipment.
28.160 Portable fire extinguishers.
28.165 Injury placard.

Subpart C—Requirements for Documented Vessels That Operate Beyond the Boundary Lines or With More Than 16 Individuals On Board, or for Fish Tender Vessels Engaged in the Aleutian Trade

28.200 Applicability.
28.205 Fireman’s outfit and self-contained breathing apparatus.
28.210 First aid equipment and training.
28.215 Guards for exposed hazards.
28.225 Navigational information.
28.230 Compasses.
28.235 Anchors and radar reflectors.
28.240 General alarm system.
28.245 Communication equipment.
28.250 High water alarms.
28.255 Bilge pumps, bilge piping, and dewatering systems.
28.260 Electronic position fixing devices.
28.265 Emergency instructions.
28.270 Instruction, drills, and safety orientation.
28.275 Acceptance criteria for instructors and course curricula.

Subpart D—Requirements for Vessels Which Have Their Keel Laid or Are at a Similar Stage of Construction on or After or Which Undergo a Major Conversion Completed on or After September 15, 1991, and That Operate With More Than 16 Individuals on Board

28.300 Applicability and general requirements.
28.305 Lifesaving and signaling equipment.
28.310 Launching of survival craft.
28.315 Fire pumps, fire mains, fire hydrants, and fire hoses.
28.320 Fixed gas fire extinguishing systems.
28.325 Fire detection systems.
28.330 Galley hood and other fire protection equipment.
28.335 Fuel systems.
28.345 Electrical standards for vessels less than 79 feet (24 meters) in length.
28.350 General requirements for electrical systems.
28.355 Main source of electrical power.
28.360 Electrical distribution systems.
28.365 Overcurrent protection and switched circuits.
28.370 Wiring methods and materials.
28.375 Emergency source of electrical power.
28.380 General structural fire protection.
28.385 Structural fire protection for vessels that operate with more than 49 individuals on board.
28.390 Means of escape.
28.395 Embarkation stations.
28.400 Radar and depth sounding devices.
28.405 Hydraulic equipment.
28.410 Deck rails, lifelines, storm rails, and hand grabs.

Subpart E—Stability

28.500 Applicability.
28.510 Substantive alterations.
28.505 Vessel owner’s responsibility.
28.510 Definitions of stability terms.
28.515 Submergence test as an alternative to stability calculations.
§ 28.10  Authority.

The regulations in this part are prescribed by the Commandant of the Coast Guard, pursuant to a delegation of authority by the Secretary of Transportation set forth in 49 CFR 1.46(b), to carry out the intent and purpose of 46 U.S.C. 3316 which authorizes the Secretary to rely on reports, documents, and certificates issued by the American Bureau of Shipping (ABS) or a similar United States classification society, or an agent of the ABS or similar society; sections 4502 and 4506 which require safety equipment and operational stability for certain vessels in the commercial fishing industry; section 6104 which requires the Secretary of Transportation to compile statistics concerning marine casualties compiled from vessel insurers and to delegate that authority to compile statistics from insurers to a qualified person; and section 10603 which requires seamen on commercial fishing industry vessels to give notice of illness, injury, or disability to their employer.

§ 28.20  OMB control numbers.

(a) This section collects and displays the control numbers assigned to information collection and recordkeeping requirements in this part by the Office of Management and Budget (OMB) pursuant to the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.). This section complies with the requirements of 44 U.S.C. 3507(f) which requires that agencies display a current control number assigned by the Director of the OMB for each approved agency information collection requirement. (b) Display.

§ 28.30  Applicability.

(a) Except as provided in paragraph (b) of this section, this part is applicable to all United States flag vessels not inspected under this chapter that are commercial fishing, fish processing, or fish tender vessels. This includes vessels documented under the provisions of subchapter G of this chapter and vessels numbered by a State or the Coast Guard under the provisions of 33 CFR subchapter S of this chapter. Certain regulations in this part apply only to limited categories of vessels. Specific applicability statements are provided at the beginning of those regulations. (b) This part does not apply to a small boat or auxiliary craft that is deployed from a fishing industry vessel for the purpose of handling fishing gear.


§ 28.40  Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the Federal Register and make the material available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and at the U.S. Coast Guard, Office of Design and Engineering Standards (G-MSE), 2100 Second Street SW., Washington, DC 20593-0001 and is available from the sources indicated in paragraph (b) of this section. (b) The material approved for incorporation by reference in this part and the sections affected are:

American Boat and Yacht Council (ABYC),
3009 Solomons Island Road, Edgewater, MD 21037
E-1-1972—Bonding of Direct Current Systems ......................... 28.345
E-8-1985—Alternating Current (AC) Electrical Systems on 28.345
Boats.

312
§ 28.50 Definition of terms used in this part.

Accepted organization means an organization which has been designated by the Commandant for the purpose of examining commercial fishing industry vessels under the provisions of §28.03.

Accommodations include:

(1) A messroom.
(2) A lounge.
(3) A sitting area.
(4) A recreation room.
(5) Quarters.
(6) A toilet space.
(7) A shower room.
(8) A galley.
(9) Berthing facilities.
(10) A clothing changing room.

Alcohol concentration means either grams of alcohol per 100 milliliters of blood, or grams of alcohol per 210 liters of breath.

Aleutian trade means the transportation of cargo, including fishery related products, for hire on board a fish tender vessel to or from a place in Alaska west of 153 degrees West longitude and east of 172 degrees East longitude if that place receives weekly common carrier service by water, to or from a place in the United States, except a place in Alaska.

Approved means approved by the Commandant unless otherwise stated.

Auxiliary Craft means a vessel that is carried onboard a commercial fishing vessel and is normally used to support fishing operations.

Boundary lines means the lines set forth in 46 CFR part 7. In general, they follow the trend of the seaward high water shorelines and cross entrances to small bays, inlets and rivers. In some areas, they are along the 12 mile line which marks the seaward limits of the contiguous zone and in other areas they come ashore.

Buoyant Apparatus means a buoyant apparatus approved by the Commandant.

Coast Guard Boarding Officer means a commissioned, warrant, or petty officer of the Coast Guard having authority to board any vessel under the Act.
Coast Guard Representative means a person employed at the cognizant U.S. Coast Guard Marine Safety Office or Marine Inspection Office, or an accepted organization, or a similarly qualified organization approved in examining commercial fishing industry vessels. Contact Chief, Vessel and Facility Operating Standards Division, Commandant (G-MSO-2), U.S. Coast Guard, 2100 Second Street S.W., Washington, DC 20593-0001 for a current list of accepted organizations or similarly qualified organizations.

Coastal Service Pack means equipment provided in liferafts approved by the Commandant for coastal service.

Coastal waters means coastal waters as defined in 33 CFR 175.105.

Coastline means the Territorial Sea Baseline as defined in 33 CFR 2.05-10.

Cold water means water where the monthly mean low water temperature is normally 59° F (15° C) or less.

Commandant means the Commandant of the Coast Guard or an authorized representative of the Commandant of the Coast Guard.

Commercial fishing industry vessel means a fishing vessel, fish tender vessel, or a fish processing vessel.

Currently corrected means corrected with changes contained in all Notice to Mariners published by the Defense Mapping Agency Hydrographic/Topographic Center.

Custom engineered means, when referring to a fixed gas fire extinguishing system, a system that is designed for a specific space requiring individual calculations for the extinguishing agent volume, flow rate, and piping, among other factors, for the space.

District Commander means an officer of the Coast Guard designated as such by the Commandant to command all Coast Guard activities within a district.

Documented vessel means a vessel for which a Certificate of Documentation has been issued under the provisions of 46 CFR part 67.

Equipment Packs means equipment provided in liferafts approved by the Commandant.

Especially hazardous condition means a condition which may be life-threatening or lead to serious injury if continued.

Fish means finfish, mollusks, crustaceans, and all other forms of marine animal and plant life, except marine mammals and birds.

Fish processing vessel means a vessel that commercially prepares fish or fish products other than by gutting, decapitating, gilling, skinning, shucking, icing, freezing, or brine chilling.

Fish tender vessel means a vessel that commercially supplies, stores, refrigerates, or transports fish, fish products, or materials directly related to fishing or the preparation of fish to or from a fishing, fish processing or fish tender vessel or a fish processing facility.

Fishing vessel means a vessel that commercially engages in the catching, taking, or harvesting of fish or an activity that can reasonably be expected to result in the catching, taking, or harvesting of fish.

Fishing Vessel Drill Conductor means an individual who meets the training requirements of 46 CFR 28.270(c) for conducting drills and providing instruction once a month to each individual on board those vessels to which Subpart C of this section applies.

Fishing Vessel Safety Instructor means an individual or organization that has been accepted by the local Officer-in-Charge, Marine Inspection to train Fishing Vessel Drill Conductors to conduct drills and provide instruction on those vessels to which subpart C of this part applies.

Gasoline as used in this part includes gasoline-alcohol blends and any other fuel having a flash point of 110° F (43.3° C) or lower.

Inflatable Buoyant Apparatus means an inflatable buoyant apparatus approved by the Commandant.

Inflatable Liferaft means an inflatable liferaft that is approved by the Commandant.

Length means the length listed on the vessel’s Certificate of Documentation or Certificate of Number.

Lifeboat means a lifeboat approved by the Commandant.

Liferaft means a liferaft approved by the Commandant.

Major conversion means a conversion of a vessel that—
§ 28.60 Exemption letter.

(a) Types of exemptions. (1) Specific exemption means an exemption for an individual commercial fishing industry vessel.

(2) Class exemption means an exemption for a class or fleet of commercial fishing industry vessels.

(b) Exemption procedure. A request for an exemption of either type must be in writing, have specific reasons for the request, and be sent to the Coast Guard District Office having jurisdiction over the waters where the vessel(s) will be operating. Coast Guard District geographical areas are described in 33 CFR part 3. The District Commander will review the request to determine that:

(1) Good cause exists for granting an exemption; and

(2) The safety of the vessel and those on board will not be adversely affected.

(c) The District Commander will either approve or deny the request in writing. In granting a request, the District Commander will specify the terms under which the exemption is granted and distribute the letter describing these terms to the party or parties requesting the exemption.

(d) Exemption letter. Exemption letters, or suitable copies, describing the terms under which the exemption is granted shall be maintained at all times on board each vessel to which any exemption applies.

(e) Right of appeal. Any person directly affected by a decision or action taken under this part may appeal in accordance with §1.03 of this chapter.

(f) Rescinding an exemption letter. Exemptions granted may be rescinded by
§ 28.65 Termination of unsafe operations.

(a) A Coast Guard Boarding Officer may direct the master or individual in charge of a vessel, with the concurrence of the District Commander, or staff authorized by the District Commander, to immediately take reasonable steps necessary for the safety of individuals on board the vessel if the Boarding Officer observes the vessel being operated in an unsafe manner and determines that an especially hazardous condition exists. This may include directing the master or individual in charge of the vessel to return the vessel to a mooring and remain there until the situation creating the especially hazardous condition is corrected or other specific action is taken.

(b) Hazardous conditions include, but are not limited to, operation with—

1. An insufficient number of lifesaving equipment on board, to include serviceable Personal Flotation Devices (PFDs), serviceable immersion suits, or adequate survival craft capacity.

2. An inoperable Emergency Position Indicating Radio Beacon (EPIRB) or radio communication equipment when required by regulation. There should be at least one operable means of communicating distress. When both are required, then at least one must be in operable condition to avoid termination of the voyage;

3. Inadequate firefighting equipment on board;

4. Excessive volatile fuel (gasoline or solvents) or volatile fuel vapors in bilges;

5. Instability resulting from overloading, improper loading or lack of freeboard;

6. Inoperable bilge system;

7. Intoxication of the master or individual in charge of a commercial fishing vessel. An individual is intoxicated when he/she is operating a commercial fishing vessel and has an alcohol concentration of .04 percent, or the intoxicant's effect on the person's manner, disposition, speech, muscular movement, general appearance or behavior is apparent by observation;

8. A lack of adequate operable navigation lights during periods of reduced visibility;

9. Watertight closures missing or inoperable;

10. Flooding or uncontrolled leakage in any space; or

11. A missing or expired certificate of class, as required by 46 U.S.C. 4503(1), for a fish processing vessel.

(c) A Coast Guard Boarding Officer may direct the individual in charge of a fish processing vessel that is missing a Load Line Certificate, or that does not comply with the provisions of the Load Line Certificate issued by the American Bureau of Shipping or a similarly qualified organization, to return the vessel to a mooring and to remain there until the vessel obtains such a certificate.

§ 28.70 Approved equipment and material.

(a) Equipment and material that is required by this subchapter to be approved or of an approved type, must have been manufactured and approved in accordance with the design and testing requirements in Subchapter Q of this chapter or as otherwise specified by the Commandant.

(b) Notice regarding equipment approvals is published in the Federal Register. Coast Guard publication COMDTINST M16714.3, “Equipment Lists, Items Approved, Certificated or Accepted under Marine Inspection and Navigation Laws,” lists approved equipment by type and manufacturer. COMDTINST M16714.3 may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Each OCMI may be contacted for information concerning approved equipment.

§ 28.73 Accepted organizations.

An organization desiring to be designated by the Commandant as an accepted organization must request such designation in writing. As a minimum the organization must verify that it is an organization—

(a) Except for a casualty which is required to be reported to the Coast Guard on Form CG 2692 in accordance with part 4 of this chapter, the owner, agent, operator, master, or individual in charge of a vessel involved in a casualty must submit a report in accordance with paragraph (c) of this section, as soon as possible after the casualty, to the underwriter of primary insurance for the vessel or to an organization listed in paragraph (d) of this section whenever the casualty involves any of the following.

(1) Loss of life.
(2) An injury that requires professional medical treatment (treatment beyond first aid) and that renders the individual unfit to perform his or her routine duties.
(3) Loss of a vessel.
(4) Damage to or by a vessel, its cargo, apparel or gear, except for fishing gear while not on board a vessel, or that impairs the seaworthiness of the vessel, or that is initially estimated at $2,500.00 or more.

(b) Each underwriter of primary insurance for a commercial fishing industry vessel must submit a report of each casualty involving that vessel to an organization listed in paragraph (d) of this section within 90 days of receiving notice of the casualty and whenever it pays a claim resulting from the casualty. Initial reports must be in accordance with paragraph (c) of this section. Subsequent reports must contain sufficient information to identify the casualty and any new or corrected casualty data.

(c) Each report of casualty must include the following information:

(1) The name and address of the vessel owner and vessel operator, if different than the vessel owner;
(2) The name and address of the underwriter of primary insurance for the vessel;
(3) The name, registry number, call sign, gross tonnage, year of build, length, and hull material of the vessel;
(4) The date, location, primary cause, and nature of the casualty;
(5) The specific fishery, intended catch, and length of fishery opening when applicable;
(6) The date that the casualty was reported to the underwriter of primary insurance;

§ 28.76 Similarly qualified organizations.

An organization desiring to be designated by the Commandant as a similarly qualified organization must request such designation in writing. As a minimum the organization must verify that it—

(a) Publishes standards for vessel design and construction which are as widely available as and which are of similar content to the standards published by the ABS;
(b) Performs periodic surveys in a wide range of localities during and after construction to ensure compliance with published standards, including drydock examinations, in a manner similar to the ABS;
(c) Issues certificates testifying to compliance with the published standards;
(d) Has as its primary concern the survey and classification of vessels;
(e) Has no interest in owning or operating fishing, fish processing, or fish tender vessels; and
(f) Maintains records of surveys and makes such records available to the Coast Guard upon request in a manner similar to the ABS.


(a) Except for a casualty which is required to be reported to the Coast Guard on Form CG 2692 in accordance with part 4 of this chapter, the owner, agent, operator, master, or individual in charge of a vessel involved in a casualty must submit a report in accordance with paragraph (c) of this section, as soon as possible after the casualty, to the underwriter of primary insurance for the vessel or to an organization listed in paragraph (d) of this section whenever the casualty involves any of the following.

(1) Loss of life.
(2) An injury that requires professional medical treatment (treatment beyond first aid) and that renders the individual unfit to perform his or her routine duties.
(3) Loss of a vessel.
(4) Damage to or by a vessel, its cargo, apparel or gear, except for fishing gear while not on board a vessel, or that impairs the seaworthiness of the vessel, or that is initially estimated at $2,500.00 or more.

(b) Each underwriter of primary insurance for a commercial fishing industry vessel must submit a report of each casualty involving that vessel to an organization listed in paragraph (d) of this section within 90 days of receiving notice of the casualty and whenever it pays a claim resulting from the casualty. Initial reports must be in accordance with paragraph (c) of this section. Subsequent reports must contain sufficient information to identify the casualty and any new or corrected casualty data.

(c) Each report of casualty must include the following information:

(1) The name and address of the vessel owner and vessel operator, if different than the vessel owner;
(2) The name and address of the underwriter of primary insurance for the vessel;
(3) The name, registry number, call sign, gross tonnage, year of build, length, and hull material of the vessel;
(4) The date, location, primary cause, and nature of the casualty;
(5) The specific fishery, intended catch, and length of fishery opening when applicable;
(6) The date that the casualty was reported to the underwriter of primary insurance;

Each individual employed on a commercial fishing industry vessel must notify the master, individual in charge of the vessel, or other agent of the employer of each illness, disability, or injury suffered while in service to the vessel not later than seven days after the date on which the illness, disability, or injury arose.

§ 28.95 Right of appeal.

Any person directly affected by a decision or action taken under this part, by or on behalf of the Coast Guard, may appeal therefrom in accordance with part 1, subpart 1.03 of this chapter.

Subpart B—Requirements for All Vessels

§ 28.100 Applicability.

Each commercial fishing industry vessel must meet the requirements of this subpart, in addition to the requirements of parts 24, 25, and 26 of this chapter.

§ 28.105 Lifesaving equipment—general requirements.

(a) In addition to the requirements of this subpart, each commercial fishing industry vessel must comply with the requirements of part 25, subpart 25.25 of this chapter.

(b) Except as provided in §28.120(d), each item of lifesaving equipment carried on board a vessel to meet the requirements of this part must be approved by the Commandant. Equipment for personal use which is not required by this part need not be approved by the Commandant.

§ 28.110 Life preservers or other personal flotation devices.

(a) Except as provided by §28.305 of this chapter, each vessel must be equipped with at least one immersion suit, exposure suit, or wearable personal flotation device of the proper size for each individual on board as specified in table 28.110 and part 25, subpart 25.25 of this chapter. Notwithstanding the provisions of paragraphs (c) and (d) of §25.25-1 of this chapter, each commercial fishing industry vessel propelled by sail or a manned barge employed in commercial fishing activities must meet the requirements of this paragraph.

(b) Each wearable personal flotation device must be stowed so that it is readily accessible to the individual for whom it is intended, from both the individual's normal work station and...
Coast Guard, DOT

§ 28.120

berthing area. If there is no location accessible to both the work station and the berthing area, an appropriate device must be stowed in both locations.

TABLE 28.110.—PERSONAL FLotation DEVICES AND IMMERSION SUITS

<table>
<thead>
<tr>
<th>Applicable waters</th>
<th>Vessel type</th>
<th>Devices required</th>
<th>Other regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seaward of the Boundary Line and North of 32°N or South of 32°S, and Lake Superior.</td>
<td>All vessels</td>
<td>Immersion suit or exposure suit.</td>
<td></td>
</tr>
<tr>
<td>Coastal Waters on the West Coast of the United States north of Point Reyes, CA; Beyond Coastal Waters, cold water; and Lake Superior. All other waters (Includes all Great Lakes except Lake Superior).</td>
<td>40 feet (12.2 meters) or more in length.</td>
<td>Type I, Type V commercial hybrid, immersion suit, or exposure suit.</td>
<td>28.135; 25.25-5(e); 25.25-5(f); 25.25-9(a); 25.25-13; 25.25-15.</td>
</tr>
<tr>
<td></td>
<td>Less than 40 feet (12.2 meters) in length.</td>
<td>Type I, Type II, Type III, Type V commercial hybrid, immersion suit, or exposure suit.</td>
<td>Do.</td>
</tr>
</tbody>
</table>

1 Until September 1, 1995, individuals weighing less than 44 pounds (196 Newtons) may substitute an approved personal flotation device of the appropriate size for a required immersion suit or exposure suit.

2 Certain Type V personal flotation devices are approved for substitution for Type I, II, or III personal flotation devices when used in accordance with the conditions stated in the Coast Guard approval table.

§ 28.115 Ring life buoys.

(a) Except as provided in paragraph (b) of this section and § 28.305, each vessel must be equipped with a throwable flotation device or a ring life buoy as specified in Table 28.115. If the vessel is equipped with a ring life buoy, at least one ring life buoy must be equipped with a line which is at least:

(1) 60 feet (18.3 meters) in length for a vessel less than 65 feet (19.8 meters) in length; or
(2) 90 feet (27.4 meters) in length for a vessel 65 feet (19.8 meters) or more in length.

(b) For each vessel less than 65 feet (19.8 meters) in length, an approved 20 inch (0.51 meters) or larger ring life buoy which is in serviceable condition and which was installed on board before September 15, 1991, may be used to meet the requirements of paragraph (a) of this section.

TABLE 28.115.—THROWABLE FLotation DEVICES—Continued

<table>
<thead>
<tr>
<th>Vessel length</th>
<th>Devices required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 16 feet (4.9 meters). 16 feet (4.9 meters) or more, but less than 26 feet (7.9 meters).</td>
<td>None. 1 Buoyant cushion, or ring life buoy (Type IV PFD).</td>
</tr>
<tr>
<td>26 feet (7.9 meters) or more, but less than 65 feet (19.8 meters) in length.</td>
<td>1 Ring life buoy approval number starting with 160.009 or 160.050; orange, at least 24 inch (0.61 meters) size.</td>
</tr>
<tr>
<td>65 feet (19.8 meters) or more.</td>
<td>3 Ring life buoys, approval number 160.050; orange; at least 24 inch (0.61 meters) size.</td>
</tr>
</tbody>
</table>

NOTE: Certain Type V PFDs are approved for use in substitution for Type IV PFDs, when used in accordance with the conditions stated in the Coast Guard approval label.

§ 28.120 Survival craft.

(a) Except as provided in paragraphs (b) through (h) of this section and §28.305, each vessel must carry the survival craft which is in serviceable condition and which was installed on board before September 15, 1991, may be used to meet the requirements of paragraph (a) of this section.

(b) The requirements of this section do not apply to vessels less than 10.97 meters (36 feet) in length with 3 or fewer individuals on board which operate within 12 miles of the coastline.

(c) A buoyant apparatus may be substituted instead of the requirements in this section for vessels 10.97 meters (36 feet) or more in length with 3 or fewer
§ 28.120 46 CFR Ch. I (10–1–99 Edition)

individuals on board which operate within 12 miles of the coastline.

(d) Each survival craft installed on board a vessel before September 15, 1991, may continue to be used to meet the requirements of this section provided the survival craft is—

(1) Of the same type as required in Tables 28.120(a), 28.120(b), or 28.120(c), as appropriate for the vessel type; and

(2) Maintained in good and serviceable condition.

(e) Each inflatable liferaft installed on board a vessel before September 15, 1991, may continue to be used to meet the requirements for an approved inflatable liferaft, provided the existing liferaft is—

(1) Maintained in good and serviceable condition as required by Table 28.140; and

(2) Equipped with the equipment pack required by Tables 28.120(a), 28.120(b), or 28.120(c), as appropriate for the vessel type. Where no equipment pack is specified in Tables 28.120(a), 28.120(b), or 28.120(c), a coastal service pack is the minimum required.

(f) A lifeboat may be substituted for any survival craft required by this section, provided it is arranged and equipped in accordance with part 199 of this chapter.

(g) The capacity of an auxiliary craft carried on board a vessel that is integral to and necessary for normal fishing operations will satisfy the requirements of this section for survival craft, except for an inflatable liferaft, provided the craft is readily accessible during an emergency and is capable of safely holding all individuals on board the vessel. If the auxiliary craft is equipped with a Coast Guard required capacity plate, the boat must not be loaded so as to exceed the rated capacity.

(h) A vessel less than 10.97 meters (36 feet) in length that meets the flotation provisions of 33 CFR part 183 is exempt from the requirement for survival craft in paragraph (a) of this section for operation on—

(1) Any waters within 12 miles of the coastline.

(2) Rivers.

---

**Table 28.120(a).—Survival Craft for Documented Vessels**

<table>
<thead>
<tr>
<th>Area</th>
<th>Vessel type</th>
<th>Survival craft required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beyond 50 miles of coastline</td>
<td>All</td>
<td>Inflatable liferaft with SOLAS A pack.</td>
</tr>
<tr>
<td>Between 20–50 miles of coastline, cold waters</td>
<td>All</td>
<td>Inflatable liferaft with SOLAS B pack.</td>
</tr>
<tr>
<td>Beyond Boundary Line, between 12–20 miles of coastline, cold waters</td>
<td>All</td>
<td>Inflatable liferaft.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, cold waters</td>
<td>All</td>
<td>Inflatable buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, cold waters</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or Rivers, cold waters.</td>
<td>All</td>
<td>Life float. See note 2.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or Rivers, cold waters.</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Inside Boundary Line, warm waters; or Lakes, bays, sounds, warm waters; or Rivers, warm waters.</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Great Lakes, cold waters</td>
<td>All</td>
<td>None.</td>
</tr>
<tr>
<td>Great Lakes, cold waters</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Great Lakes, beyond 3 miles of coastline, warm waters</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Great Lakes, within 3 miles of coastline, warm waters</td>
<td>All</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Note:** 1. The hierarchy of survival craft in descending order is lifeboat, inflatable liferaft with SOLAS A pack, inflatable liferaft with SOLAS B pack, inflatable buoyant apparatus, life float, buoyant apparatus. A survival craft higher in the hierarchy may be substituted for any survival craft required in this table.

2. If a vessel carries 3 or fewer individuals within 12 miles of the coastline, see §28.120(b) and (c) for carriage substitution.

---

**Table 28.120(b).—Survival Craft for Undocumented Vessels With Not More Than 16 Individuals on Board**

<table>
<thead>
<tr>
<th>Area</th>
<th>Vessel type</th>
<th>Survival craft required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beyond 20 miles of coastline</td>
<td>All</td>
<td>Inflatable buoyant apparatus.</td>
</tr>
</tbody>
</table>
§ 28.125 Survival craft.

(a) Each inflatable liferaft required to be equipped with a SOLAS A or a SOLAS B equipment pack must be stowed so as to float free and automatically inflate in the event the vessel sinks.

(b) Each inflatable liferaft, inflatable buoyant apparatus, and any auxiliary craft used in their place, must be kept readily accessible for launching or be

TABLE 28.120(b)—Survival Craft for Undocumented Vessels With Not More Than 16 Individuals on Board—Continued

<table>
<thead>
<tr>
<th>Area</th>
<th>Vessel type</th>
<th>Survival craft required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beyond Boundary Line, between 12–20 miles of coastline, cold waters.</td>
<td>All ..................</td>
<td>Inflatable buoyant apparatus.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, cold waters.</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, warm waters.</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or rivers, cold water.</td>
<td>All ..................</td>
<td>Life float. See note 2.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or Rivers, cold water.</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Inside Boundary Line, warm waters; or Lakes, bays, sounds, warm waters; or Rivers, warm waters.</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Great Lakes, cold waters .................................</td>
<td>All ..................</td>
<td>None.</td>
</tr>
<tr>
<td>Great Lakes, beyond 3 miles of coastline warm waters</td>
<td>All ..................</td>
<td>Buoyant apparatus. See note 2.</td>
</tr>
<tr>
<td>Great Lakes, within 3 miles of coastline warm waters</td>
<td>All ..................</td>
<td>None.</td>
</tr>
</tbody>
</table>

Note: 1. The hierarchy of survival craft in descending order is lifeboat, inflatable liferaft with SOLAS A pack, inflatable liferaft with SOLAS B pack, inflatable liferaft with coastal service pack, inflatable buoyant apparatus, life float, buoyant apparatus. A survival craft higher in the hierarchy may be substituted for any survival craft required in this table.

2. If a vessel carries 3 or fewer individuals within 12 miles of the coastline, see §28.120 (b) and (c) for carriage substitution.

TABLE 28.120(c)—Survival Craft for Undocumented Vessels With More Than 16 Individuals on Board

<table>
<thead>
<tr>
<th>Area</th>
<th>Vessel type</th>
<th>Survival craft required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beyond 50 miles of coastline ..............................</td>
<td>All ..................</td>
<td>Inflatable liferaft with SOLAS A pack.</td>
</tr>
<tr>
<td>Between 20–50 miles of coastline, cold waters ..........</td>
<td>All ..................</td>
<td>Inflatable liferaft with SOLAS B pack.</td>
</tr>
<tr>
<td>Between 20–50 miles of coastline, warm waters ..........</td>
<td>All ..................</td>
<td>Inflatable liferaft.</td>
</tr>
<tr>
<td>Beyond Boundary Line, between 12–20 miles of coastline, cold waters.</td>
<td>All ..................</td>
<td>Inflatable liferaft.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, cold waters.</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 12 miles of coastline, warm waters.</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Beyond Boundary Line, within 20 miles of coastline, warm waters.</td>
<td>All ..................</td>
<td>Life float.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or Rivers, cold water.</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus.</td>
</tr>
<tr>
<td>Inside Boundary Line, cold waters; or Lakes, bays, sounds, cold waters; or Rivers, cold water.</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Inside Boundary Line, warm waters; or Lakes, bays, sounds, warm waters; or Rivers, warm waters.</td>
<td>All ..................</td>
<td>None.</td>
</tr>
<tr>
<td>Great Lakes, cold waters .................................</td>
<td>10.97 meters (36 feet) or more in length.</td>
<td>Inflatable buoyant apparatus.</td>
</tr>
<tr>
<td>Great Lakes, beyond 3 miles of coastline warm waters</td>
<td>Less than 10.97 meters (36 feet) in length.</td>
<td>Buoyant apparatus.</td>
</tr>
<tr>
<td>Great Lakes, within 3 miles of coastline warm waters</td>
<td>All ..................</td>
<td>Buoyant apparatus.</td>
</tr>
</tbody>
</table>

Note: 1. The hierarchy of survival craft in descending order is lifeboat, liferaft with SOLAS A pack, inflatable liferaft with SOLAS A pack, liferaft with SOLAS B pack, inflatable liferaft with SOLAS B pack, inflatable liferaft with coastal service pack, inflatable buoyant apparatus, life float, buoyant apparatus. A survival craft higher in the hierarchy may be substituted for any survival craft required in this table.

2. If a vessel carries 3 or fewer individuals within 12 miles of the coastline, see §28.120 (b) and (c) for carriage substitution.
§ 28.130 Survival craft equipment.

(a) General. Each item of survival craft equipment must be of good quality, effective for the purpose it is intended to serve, and secured to the craft.

(b) Inflatable liferafts. Each inflatable liferaft must have one of the following equipment packs as shown by the markings on its container:

(1) Coastal Service;
(2) SOLAS B Pack (formerly “Limited Service”); or
(3) SOLAS A Pack (formerly “Ocean Service”).

(c) Each inflatable life float and buoyant apparatus must be fitted with a lifeline, pendants, a painter, and a floating electric water light approved under part 161 subpart 161.010 of this chapter.

(d) Other survival craft. A vessel must not carry survival craft other than inflatable liferafts, life floats, inflatable buoyant apparatus, or buoyant apparatus, such as lifeboats or rigid life rafts, unless the survival craft and launching equipment comply with the requirements for installation, arrangement, equipment, and maintenance contained in 46 CFR part 199.

§ 28.135 Lifesaving equipment markings.

(a) Except as provided in paragraph (d) of this section, lifesaving equipment carried aboard a vessel pursuant to the requirements of this subpart or part 25, subpart 25.25 of this chapter must be marked as specified in table 28.135.

(b) Lettering used in lifesaving equipment markings must be in block capital letters.

Table 28.135—Lifesaving Equipment Markings

<table>
<thead>
<tr>
<th>Item</th>
<th>Name of vessel</th>
<th>Retroreflective material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wearable personal flotation device (Type I, II, III, or wearable Type V); Immersion suit or exposure suit.</td>
<td>See §28.135(d)</td>
<td>Type I or Type II.</td>
</tr>
<tr>
<td>Ring life buoy</td>
<td>X</td>
<td>Type II.</td>
</tr>
<tr>
<td>Inflatable liferaft</td>
<td>See note</td>
<td>See note.</td>
</tr>
<tr>
<td>Inflatable buoyant apparatus</td>
<td>X</td>
<td>Type II.</td>
</tr>
<tr>
<td>Life float</td>
<td>See note</td>
<td>See note.</td>
</tr>
<tr>
<td>Buoyant apparatus</td>
<td>X</td>
<td>Type II.</td>
</tr>
<tr>
<td>Auxiliary craft</td>
<td>X</td>
<td>Type II.</td>
</tr>
<tr>
<td>EPIRB</td>
<td>X</td>
<td>Type II.</td>
</tr>
</tbody>
</table>

Note: No marking other than that provided by the manufacturer and the servicing facility is required.

§ 28.140 Operational readiness, maintenance, and inspection of lifesaving equipment.

(a) The master or individual in charge of a vessel must ensure that each item of lifesaving equipment must be in good working order, ready for immediate use, and readily accessible before the vessel leaves port and at all times when the vessel is operated.
(b) Except for an inflatable liferaft or an inflatable buoyant apparatus less than two years of age, each item of lifesaving equipment, including unapproved equipment, must be maintained and inspected in accordance with:

(1) Table 28.140;

(2) The servicing procedure under the subpart of this chapter applicable to the item’s approval; and

(3) The manufacturer’s guidelines.

c) An inflatable liferaft or inflatable buoyant apparatus must be serviced at a facility specifically approved by the Commandant.

d) An escape route from a space where an individual may be employed or an accommodation space must not be obstructed.

Table 28.140.—Scheduled Maintenance and Inspection of Lifesaving Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Interval</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflatable wearable personal flotation device (Type V commercial hybrid); Personal flotation devices, exposure suits and immersion suits. Buoyant apparatus and life floats.</td>
<td>Inspect, clean and repair as necessary.</td>
<td>28.140</td>
</tr>
<tr>
<td>Inflatable liferaft.</td>
<td>Servicing</td>
<td>28.140</td>
</tr>
<tr>
<td>Inflatable buoyant apparatus.</td>
<td>Servicing</td>
<td>28.140</td>
</tr>
<tr>
<td>Hydrostatic release.</td>
<td>Servicing</td>
<td>28.140</td>
</tr>
<tr>
<td>Disposable hydrostatic release.</td>
<td>Replace on or before expiration date.</td>
<td>28.140</td>
</tr>
<tr>
<td>Undated batteries</td>
<td>Replace</td>
<td>28.140</td>
</tr>
<tr>
<td>Dated batteries and other items</td>
<td>Replace on or before expiration date.</td>
<td>25.26–5, 28.140</td>
</tr>
<tr>
<td>EPIRB</td>
<td>Test</td>
<td></td>
</tr>
</tbody>
</table>

1 Water activated batteries must be replaced whenever they are used.

§28.145 Distress signals.

Except as provided by §28.305, each vessel must be equipped with the distress signals specified in table 28.145.

Table 28.145.—Distress Signals—Continued

<table>
<thead>
<tr>
<th>Area</th>
<th>Devices required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coastal waters, excluding the Great Lakes; or within 3 miles of the coastline on the Great Lakes.</td>
<td>3 parachute flares, approval series 46 CFR 160.136; plus 6 hand flares, approval series 46 CFR 160.121; plus 3 smoke signals, approval series 46 CFR 160.122.</td>
</tr>
<tr>
<td>Night visual distress signals consisting of one distress flag, approval series 46 CFR 160.072, or 3 approved smoke signals.1</td>
<td></td>
</tr>
</tbody>
</table>

1 If flares are carried, the same 3 flares may be counted toward meeting both the day and night requirement.

§28.150 Emergency Position Indicating Radio Beacons (EPIRBs).

Each vessel must be equipped with an emergency position indicating radio beacon (EPIRB) as required by 46 CFR part 25, subpart 25.26.

NOTE: Each vessel which uses radio communication equipment must have a Ship Radio Station License issued by the Federal
Communications Commission, as set forth in 47 CFR part 80.

§ 28.155 Excess fire detection and protection equipment.

Installation of fire detection and protection equipment in excess of that required by the regulations in this subchapter is permitted provided that the excess equipment does not endanger the vessel or individuals on board in any way. The excess equipment must, at a minimum, be listed and labeled by an independent, nationally recognized testing laboratory and be in accordance with an appropriate industry standard for design, installation, testing, and maintenance.

§ 28.160 Portable fire extinguishers.

(a) Each vessel must meet the requirements of part 25, subpart 25.30 of this chapter.
(b) Each vessel 65 feet (19.8 meters) or more in length must be equipped with the minimum number, location, and type of portable fire extinguishers specified in table 28.160.

### Table 28.160—Portable Fire Extinguishers for Vessels 65 Feet (19.8 Meters) or More in Length

<table>
<thead>
<tr>
<th>Space</th>
<th>Classification</th>
<th>Quantity and location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety areas, communicating corridors</td>
<td>A-II</td>
<td>1 in each main corridor not more than 150 feet (49.2 meters) apart. (May be located in stairways.)</td>
</tr>
<tr>
<td>Pilothouse</td>
<td>C-I</td>
<td>2 in vicinity of exit.</td>
</tr>
<tr>
<td>Service spaces, galleys</td>
<td>B-II or C-II</td>
<td>1 for each 2,500 square feet (269.1 sq. meters) or fraction thereof suitable for hazards involved.</td>
</tr>
<tr>
<td>Paint lockers</td>
<td>B-II</td>
<td>1 outside space in vicinity of exit.</td>
</tr>
<tr>
<td>Accessible baggage and storerooms</td>
<td>A-II</td>
<td>1 for each 2,500 square feet (269.1 sq. meters) or fraction thereof located in the vicinity of exits, either inside or outside the spaces.</td>
</tr>
<tr>
<td>Work shops and similar spaces</td>
<td>A-II</td>
<td>1 outside the space in vicinity of exit.</td>
</tr>
<tr>
<td>Machinery spaces; Internal combustion propelling machinery.</td>
<td>B-II</td>
<td>1 for each 1,000 brake horsepower or fraction thereof but not less than 2 nor more than 6.</td>
</tr>
<tr>
<td>Electric propulsion motors or generator unit of open type.</td>
<td>C-II</td>
<td>1 for each propulsion motor generator unit.</td>
</tr>
<tr>
<td>Auxiliary spaces</td>
<td>B-II</td>
<td>1 outside the space in the vicinity of exit.</td>
</tr>
<tr>
<td>Internal combustion machinery</td>
<td>B-II</td>
<td>1 outside the space in vicinity of exit.</td>
</tr>
<tr>
<td>Electric emergency motors or generators</td>
<td>C-II</td>
<td>1 outside the space in the vicinity of exit.</td>
</tr>
</tbody>
</table>


§ 28.165 Injury placard.

Each vessel must have posted in a highly visible location accessible to the crew a placard measuring at least 5 inches by 7 inches (127 millimeters by 178 millimeters) which reads:

Notice

Report All Injuries

United States law, 46 United States Code 10603, requires each seaman on a fishing vessel, fish processing vessel, or fish tender vessel to notify the master or individual in charge of the vessel or other agent of the employer regarding any illness, disability, or injury suffered by the seaman when in service to the vessel not later than seven days after the date on which the illness, disability, or injury arose.

Subpart C—Requirements for Documented Vessels That Operate Beyond the Boundary Lines or With More Than 16 Individuals On Board, or for Fish Tender Vessels Engaged in the Aleutian Trade

§ 28.200 Applicability.

Each documented commercial fishing industry vessel must meet the requirements of this subpart in addition to the requirements of subparts A and B of this part if it:
(a) Operates beyond the Boundary Lines;
(b) Operates with more than 16 individuals on board; or
§ 28.205 Fireman’s outfits and self-contained breathing apparatus.

(a) Each vessel that operates with more than 49 individuals on board must be equipped with at least two fireman’s outfits stowed in widely separated locations.

(b) Each vessel that uses ammonia as a refrigerant must be equipped with at least two self-contained breathing apparatuses.

(c) A fireman’s outfit must consist of one self-contained breathing apparatus with lifeline attached, one flashlight, a rigid helmet, boots, gloves, protective clothing, and one fire axe.

(d) At least one spare air bottle must be provided for each self-contained breathing apparatus.

(e) Each self-contained breathing apparatus must be approved by the Mine Safety and Health Administration (MSHA) and by the National Institute for Occupational Safety and Health (NIOSH), have as a minimum a 30 minute air supply, and a full facepiece.

§ 28.210 First aid equipment and training.

(a) Each vessel must have on board a complete first aid manual and medicine chest of a size suitable for the number of individuals on board in a readily accessible location.

(b) First aid and cardiopulmonary resuscitation (CPR) course certification. Certification in first aid and CPR must be as described in this paragraph.

(1) First aid—a certificate indicating completion of a first aid course from:
   (i) The American National Red Cross “Standard First Aid and Emergency Care” or “Multi-media Standard First Aid” course; or
   (ii) A course approved by the Coast Guard under §10.205(h)(1)(ii) of this chapter.

(2) CPR—A certificate indicating completion of course from:
   (i) The American National Red Cross;
   (ii) The American Heart Association; or
   (iii) A course approved by the Coast Guard under §10.205(h)(2)(iii) of this chapter.

(c) Each vessel that operates with more than 2 individuals on board must have at least 1 individual certified in first aid and at least 1 individual certified in CPR. An individual certified in both first aid and CPR will satisfy both of these requirements.

(d) Each vessel that operates with more than 16 individuals on board must have at least 2 individuals certified in first aid and at least 2 individuals certified in CPR. An individual certified in both first aid and CPR may be counted for both requirements.

(e) Each vessel that operates with more than 49 individuals on board must have at least 4 individuals certified in first aid and at least 4 individuals certified in CPR. An individual certified in both first aid and CPR may be counted for both requirements.

§ 28.230 Compasses.

(i) U.S. Coast Pilot; and
(ii) Coast Guard Light List.

(3) For the area to be transited, the current edition of, or applicable current extract from, each of the following publications:
(i) Tide tables promulgated by the National Ocean Service; and
(ii) Tidal current tables promulgated by the National Ocean Service, or a river current publication issued by the U.S. Corps of Engineers or a river authority.

(b) Each vessel of 39.4 feet (12 meters) or more in length that operates shoreward of the COLREG Demarcation Lines, as set forth in 33 CFR part 80, must carry on board and maintain for ready reference a copy of the Inland Navigation Rules, as set forth in 33 CFR chapter I, subchapter E.


§ 28.235 Anchors and radar reflectors.

(a) Each vessel must be fitted with an anchor(s) and chain(s), cable, or rope appropriate for the vessel and the waters of the intended voyage.

(b) Except for a vessel rigged with gear that provides a radar signature from a distance of 6 miles, each non-metallic hull vessel must have a radar reflector.

§ 28.240 General alarm system.

(a) Except as provided in paragraph (f) of this section, each vessel with an accommodation space or a work space which is not adjacent to the operating station, must have an audible general alarm system with a contact-maker at the operating station suitable for notifying individuals on board in the event of an emergency.

(b) The general alarm system must be capable of notifying an individual in any accommodation space or work space where they may normally be employed.

(c) In a work space where background noise makes a general alarm system difficult to hear, a flashing red light must also be installed.

(d) Each general alarm bell and flashing red light must be identified with red lettering at least ½ inch (13 millimeters) high as follows:

Attention General Alarm—When Alarm Sounds Go to Your Station.

(e) A general alarm system must be tested prior to operation of the vessel and at least once each week thereafter.

(f) A public address system or other means of alerting all individuals on board may be used in lieu of a general alarm system provided it complies with paragraphs (b), (c), and (e) of this section and can be activated from the operating station.

§ 28.245 Communication equipment.

(a) Except as provided in paragraphs (b) through (e) of this section, each vessel must be equipped as follows.

(1) Each vessel must be equipped with a VHF radiotelephone capable of transmitting and receiving on the frequency or frequencies within the 156-162 MHz band necessary to communicate with a public coast station or U.S. Coast Guard station serving the area in which the vessel is operating.

(2) Each vessel that operates more than 20 miles from the coastline, in addition to the VHF radiotelephone required by paragraph (a)(1) of this section, must be equipped with a radiotelephone transceiver capable of transmitting and receiving on frequencies in the 2-4 MHz band necessary to communicate with a public coast station or U.S. Coast Guard station serving the area in which the vessel is operating.

(3) Each vessel that operates more than 100 miles from the coastline, in addition to the communication equipment required by paragraph (a)(1) of this section, must be equipped with a radiotelephone transceiver capable of transmitting and receiving on frequencies in the 2-27.5 MHz band necessary to communicate with a public coast station or U.S. Coast Guard station serving the area in which the vessel is operating.
(4) Each vessel that operates in waters contiguous to Alaska where no public coast station or U.S. Coast Guard station is within communications range of a VHF radio transceiver operating on the 156-162 MHz band or the 2-4 MHz band, in addition to the VHF radio communication equipment required by paragraph (a)(1) of this section, must be equipped with a radiotelephone transceiver capable of transmitting and receiving on frequencies in the 2-27.5 MHz band necessary to communicate with a public coast station or a U.S. Coast Guard station serving the area in which the vessel is operating.

(b) A single radio transceiver capable of meeting the requirements of paragraphs (a) (2) and (3), or paragraphs (a) (2), (3), and (4) of this section, is acceptable.

(c) Satellite communication capability with the system serving the area in which the vessel is operating is acceptable as an alternative to the requirements of paragraphs (a)(2), (a)(3), or (a)(4) of this section.

(d) A cellular telephone capable of communicating with a public coast station or a U.S. Coast Guard station serving the area in which the vessel is operating is acceptable as an alternative to the requirements of paragraphs (a)(2), (a)(3), or (a)(4) of this section.

(e) A radiotelephone transceiver installed on board a vessel before September 15, 1991, capable of transmitting and receiving on frequencies on the 4-20 MHz band may continue to be used to satisfy the requirements of paragraphs (a)(3) and (a)(4) of this section.

(f) The principle operating position of the communication equipment must be at the operating station.

(g) Communication equipment must be installed to ensure safe operation of the equipment and to facilitate repair. It must be protected against vibration, moisture, temperature, and excessive currents and voltages. It must be located so as to minimize the possibility of water intrusion from windows broken by heavy seas.

(h) Communication equipment must comply with the technical standards and operating requirements issued by the Federal Communications Commission, as set forth in 47 CFR part 80.

NOTE: Each vessel which uses radio equipment to meet the communication requirements of this section must have a Ship Radio Station License issued by the Federal Communications Commission, as set forth in 47 CFR part 80.

(i) All communication equipment must be provided with an emergency source of power that complies with §28.375.

§ 28.250 High water alarms.

On a vessel 36 feet (11.8 meters) or more in length, a visual and audible alarm must be provided at the operating station to indicate high water level in each of the following normally unmanned spaces:

(a) A space with a through-hull fitting below the deepest load waterline, such as the lazarette;

(b) A machinery space bilge, bilge well, shaft alley bilge, or other space subject to flooding from sea water piping within the space; and

(c) A space with a non-watertight closure, such as a space with a non-watertight hatch on the main deck.

§ 28.255 Bilge pumps, bilge piping, and dewatering systems.

(a) Each vessel must be equipped with a bilge pump and bilge piping capable of draining any watertight compartment, other than tanks and small buoyancy compartments, under all service conditions. Large spaces, such as enginerooms must be fitted with more than one suction line.

(b) In addition to the requirements of paragraph (a) of this section, a space used in the sorting or processing of fish in which water is used must be fitted with dewatering system capable of dewatering the space under normal conditions of list and trim at the same rate as water is introduced. Pumps used as part of the processing of fish do not count for meeting this requirement. The dewatering system must be interlocked with the pump(s) supplying water to the space, so that in the event of failure of the dewatering system, the water supply is inactivated.

(c) Except as provided by paragraph (f) of this section, each vessel 79 feet (24 meters) or more in length must be equipped with a fixed, self-priming,
§ 28.260  Electronic position fixing devices.

Each vessel 79 feet (24 meters) or more in length must be equipped with an electronic position fixing device capable of providing accurate fixes for the area in which the vessel operates.

§ 28.265  Emergency instructions.

(a) Except as provided in paragraphs (b) and (c) of this section, each vessel must have emergency instructions posted in conspicuous locations accessible to the crew.

(b) The instructions identified in paragraphs (d)(6), (d)(7), (d)(8), and (d)(9) of this section, may be kept readily available as an alternative to posting.

(d) The emergency instructions required by this section must identify at least the following information, as appropriate for the vessel:

(1) The survival craft embarkation stations aboard the vessel and the survival craft to which each individual is assigned;

(2) The fire and emergency signal and the abandon ship signal;

(3) If immersion suits are provided, the location of the suits and illustrated instructions on the method for donning the suits;

(4) Procedures for making a distress call, such as:

(i) Make sure your communication equipment is on.

(ii) Select 156.8 MHz (VHF channel 16), 2182 kHz, or other distress frequency used in your area of operation. Note: VHF channel 16 and 2182 kHz on SSB are for emergency and calling purposes only.

(iii) Press microphone button and speaking slowly—clearly—calmly say: “Mayday—Mayday—Mayday”

(iv) Say: “This is the M/V (Insert name of your vessel), (Insert name of your vessel), (Insert name of your vessel), Over.”

(v) Release the microphone button briefly and listen for acknowledgment. If no one answers, repeat steps in paragraphs (d)(4)(iii) and (iv) of this section.

(vi) If there is still no answer, or if the Coast Guard or another vessel responds, say: “Mayday—This is the M/V (Insert Name of Your Vessel).”

(vii) Describe your position using latitude and longitude coordinates, LORAN coordinate, or range and bearing from a known point.

(viii) State the nature of the distress.

(ix) Give number of individuals aboard and the nature of any injuries.

(x) Estimate the present seaworthiness of your vessel.

(xi) Describe your vessel: (Insert length, color, hull type, trim, masts, power, and any additional distinguishing features).

(xii) Say: “I will be listening on Channel 16/2182 (or other channel monitored).”
Coast Guard, DOT § 28.270

(xiii) End message by saying: “This is (insert vessel’s name and call sign).”

(xiv) If your situation permits, stand by the radio to await further communication with the Coast Guard or another vessel. If no answer, repeat, then try another channel.

(5) Essential action that must be taken in an emergency by each individual, such as:

(i) Making a distress call.

(ii) Closing of hatches, airports, watertight doors, vents, scuppers, and valves for intake and discharge lines which penetrate the hull, stopping of fans and ventilation systems, and operation of all safety equipment.

(iii) Preparing and launching of survival craft and rescue boats.

(iv) Fighting a fire.

(v) Mustering of personnel including—

(A) Seeing that they are properly dressed and have put on their lifejackets or immersion suits; and

(B) Assembling personnel and directing them to their appointed stations.

(vi) Manning of fire parties assigned to deal with fires.

(vii) Special duties required for the operation of fire fighting equipment.

(6) The procedures for rough weather at sea, crossing hazardous bars, flooding, and anchoring of the vessel, such as:

(i) Close all watertight and weather-tight doors, hatches and airports to prevent taking water aboard or further flooding in the vessel.

(ii) Keep bilges dry to prevent loss of stability due to water in bilges. Use power driven bilge pump, hand pump, and buckets to dewater.

(iii) Align fire pumps to use as bilge pumps, if possible.

(iv) Check all intake and discharge lines which penetrate the hull for leakage.

(v) Personnel should remain stationary and evenly distributed.

(vi) Personnel should don lifejackets and immersion suits if the going becomes very rough, the vessel is about to cross a hazardous bar, or when otherwise instructed by the master or individual in charge of the vessel.

(7) The procedures for anchoring the vessel.

(8) The procedures to be used in the event an individual falls overboard, such as:

(i) Throw a ring life buoy as close to the individual as possible;

(ii) Post a lookout to keep the individual in the water in sight;

(iii) Launch the rescue boat and maneuver it to pick up the individual in the water;

(iv) Have a crewmember put on a lifejacket or immersion suit, attach a safety line to the crewmember, and have the crewmember stand-by to jump into the water to assist in recovering the individual in the water if necessary;

(v) If the individual overboard is not immediately located, notify the Coast Guard and other vessels in the vicinity; and

(vi) Continue searching until released by the Coast Guard.

(9) Procedures for fighting a fire, such as:

(i) Shut off air supply to the fire—close hatches, ports, doors, ventilators, and similar openings.

(ii) Deenergize the electrical systems supplying the affected space, if possible.

(iii) Immediately use a portable fire extinguisher or use water for fires in ordinary combustible materials. Do not use water on electrical fires.

(iv) If the fire is in a machinery space, shut off the fuel supply and ventilation system and activate the fixed extinguishing system, if installed.

(v) Maneuver the vessel to minimize the effect of wind on the fire.

(vi) If unable to control the fire, immediately notify the Coast Guard and other vessels in the vicinity.

(vii) Move personnel away from the fire, have them put on lifejackets, and if necessary, prepare to abandon the vessel.

§ 28.270 Instruction, drills, and safety orientation.

(a) Drills and instruction. The master or individual in charge of each vessel must ensure that drills are conducted and instruction is given to each individual on board at least once each month. Instruction may be provided in conjunction with drills or at other times and places provided it ensures
that each individual is familiar with their duties and their responses to at least the following contingencies:

1. Abandoning the vessel;
2. Fighting a fire in different locations on board the vessel;
3. Recovering an individual from the water;
4. Minimizing the affects of unintentional flooding;
5. Launching survival craft and recovering lifeboats and rescue boats;
6. Donning immersion suits and other wearable personal flotation devices;
7. Donning a fireman’s outfit and a self-contained breathing apparatus, if the vessel is so equipped;
8. Making a voice radio distress call and using visual distress signals;
9. Activating the general alarm; and
10. Reporting inoperative alarm systems and fire detection systems.

(b) Participation in drills. Drills must be conducted on board the vessel as if there were an actual emergency and must include participation by all individuals on board, breaking out and using emergency equipment, testing of all alarm and detection systems, donning protective clothing, and donning immersion suits, if the vessel is so equipped.

(c) Training. No individual may conduct the drills or provide the instructions required by this section unless that individual has been trained in the proper procedures for conducting the activity.

(d) The viewing of videotapes concerning at least the contingencies listed in paragraph (a) of this section, whether on board the vessel or not, followed by a discussion led by an individual familiar with these contingencies will satisfy the requirement for instruction but not the requirement for drills in paragraph (b) of this section or for the safety orientation in paragraph (e) of this section.

(e) Safety orientation. The master or individual in charge of a vessel must ensure that a safety orientation is given to each individual on board that has not received the instruction and has not participated in the drills required by paragraph (a) of this section before the vessel may be operated.

(f) The safety orientation must explain the emergency instructions required by §28.265 and cover the specific evolutions listed in paragraph (a) of this section.

NOTE: The individual conducting the drills and instruction need not be the master, individual in charge of the vessel, or a member of the crew.


§28.275 Acceptance criteria for instructors and course curricula.

(a) A Fishing Vessel Safety Instructor shall submit a detailed course curriculum that relates directly to the contingencies listed in §28.270(a), or a letter certifying the use of the “Personal Survival and Emergency Drills Course,” a national standard curriculum, to the cognizant OCMI. This document can be ordered through the United States Marine Safety Association (USMSA), 1900 Arch Street, Philadelphia, PA 19103-1498. For the criteria of Fishing Vessel Safety Instructor, the following documentation shall be provided to the cognizant OCMI:

1. Proof of at least 1 year of experience in a marine related field and experience that relates directly to the contingencies listed in §28.270(a) including—
   (i) Experience as an instructor; or
   (ii) Training received in instructional methods; or

2. A valid merchant mariner’s license issued by the Coast Guard authorizing service as master of uninspected fishing industry vessels and proof of experience that relates directly to the contingencies listed in 64 CFR 28.270(a) including—
   (i) Experience as an instructor; or
   (ii) Training received in instructional methods; or

3. A valid merchant mariner’s license issued by the Coast Guard authorizing service as a master of inspected vessels of 100 gross tons or more and proof of experience that relates directly to the contingencies listed in 46 CFR 28.270(a) including—
   (i) Experience as an instructor; or
   (ii) Training received in instructional methods. (See note 1.)
NOTE 1: Persons holding a license authorizing service as a master of inspected vessels of 100 gross tons or higher with an original issue date prior to May 1, 1997, have until September 15, 1998, to comply with the provisions listed in §28.275(a)(3).

(b) Each OCMi will issue a letter of acceptance to all qualified individuals and will maintain a list of accepted instructors in his/her zone.

(c) Letters of acceptance shall be valid for a period of 5 years.

(d) Fishing Vessel Safety Instructors or the organization providing training shall issue documents to Fishing Vessel Drill Conductors upon successful completion of all required training.


Subpart D—Requirements for Vessels Which Have Their Keel Laid or Are at a Similar Stage of Construction on or After or Which Undergo a Major Conversion Completed on or After September 15, 1991, and That Operate With More Than 16 Individuals on Board

§ 28.300 Applicability and general requirements.

Each commercial fishing industry vessel which has its keel laid or is at a similar stage of construction on or after or which undergoes a major conversion completed on or after September 15, 1991, and that operates with more than 16 individuals on board must comply with the requirements of this subpart in addition to the requirements of subparts A, B, and C of this part.

§ 28.305 Lifesaving and signaling equipment.

Each vessel to which this subpart applies must meet the requirements for life preservers, immersion suits, ring life buoys, distress signals, and survival craft in §§28.110, 28.115, 28.145 and table 28.120 (a), (b), or (c), as appropriate for the vessel type, on the date that its construction or major conversion is completed.

§ 28.310 Launching of survival craft.

A gate or other opening must be provided in the deck rails, lifelines, or bulwarks adjacent to the stowage location of each survival craft which weighs more than 110 pounds (489 Newtons), to allow the survival craft to be manually launched.

§ 28.315 Fire pumps, fire mains, fire hydrants, and fire hoses.

(a) Each vessel 36 feet (11.8 meters) or more in length must be equipped with a self-priming, power driven fire pump connected to a fixed piping system.

1. A fire pump on a vessel 79 feet (24 meters) or more in length must be capable of delivering water simultaneously from the two highest hydrants, or from both branches of the fitting if the highest hydrant has a siamese fitting, at a pitot tube pressure of at least 50 psi (0.345 Newtons per square millimeter) and a flow rate of at least 80 gpm (303 liters per minute)

2. Each vessel with a power driven fire pump must be equipped to permit energizing the fire main from the operating station and from the pump.

(b) Fire main, hydrants, hoses and nozzles.

1. A vessel required to have a fixed fire main system must have a sufficient number of fire hydrants to reach any part of the vessel using a single length of fire hose.

2. A fire hose must be connected to each fire hydrant at all times the vessel is operating.

3. A fire hose on a vessel less than 79 feet (24 meters) in length must be at least ½ inch (16 millimeters) nominal diameter, be of good commercial grade and be fitted with a nozzle made of corrosion resistant material capable of providing a solid stream and a spray pattern.

4. A fire hose on a vessel 79 feet (24 meters) or more in length must be lined commercial fire hose and be fitted with a nozzle made of corrosion resistant material capable of providing a solid stream and a spray pattern.

§ 28.320 Fixed gas fire extinguishing systems.

(a) Requirements for vessels 79 feet (24 meters) or more in length. A vessel 79 feet (24 meters) or more in length must be
§ 28.325 Fire extinguishing systems.

(a) Each accommodation space must be fitted with a fixed gas fire extinguishing system in the following enclosed spaces:

(1) A space containing an internal combustion engine of more than 50 horsepower;

(2) A space containing an oil fired boiler;

(3) An incinerator and;

(4) A space containing a gasoline storage tank.

(b) System types and alternatives.

(1) A pre-engineered fixed gas fire extinguishing system may be installed only in a normally unoccupied machinery space, paint locker, or space containing flammable liquid stores that has a gross volume of not more than 33.98 cubic meters (1200 cubic feet).

(2) A fixed gas fire extinguishing system that is capable of automatic discharge upon heat detection may be installed only in a normally unoccupied space with a gross volume of not more than 169.92 cubic meters (6000 cubic feet).

(3) A space with a gross volume exceeding 169.92 cubic meters (6000 cubic feet) must be fitted with a manually actuated and alarmed fixed gas fire extinguishing system.

(c) General requirements.

(1) A fixed gas fire extinguishing system aboard a vessel must be approved by the Commandant and be custom engineered, unless the system meets the requirements for a pre-engineered fixed gas fire extinguishing system in paragraph (d) of this section.

(2) System components must be listed and labeled by an independent, nationally recognized testing laboratory for the system being installed.

(3) System design and installation must be in accordance with the Manufacturer's Marine Design, Installation, Operation, and Maintenance Manual approved for the system by the Commandant.

(4) A fixed gas fire extinguishing system may protect more than one space. The quantity of extinguishing agent must be at least sufficient for the largest space protected by the system.

(d) Pre-engineered fixed gas fire extinguishing systems.

(1) A pre-engineered fixed gas fire extinguishing system must:

(i) Be approved by the Commandant;

(ii) Be capable of manual actuation from outside the space in addition to any automatic actuation devices; and

(iii) Automatically shut down all power ventilation systems serving the protected space and all engines that draw intake air from within the protected space.

(2) A vessel on which a pre-engineered fixed gas fire extinguishing system is installed must have the following equipment at the operating station:

(i) A visual alarm to indicate the discharge of the extinguishing agent;

(ii) An audible alarm to sound upon discharge of the extinguishing agent; and

(iii) Means to reset devices used to automatically shut down ventilation systems and engines as required by paragraph (d)(1)(iii) of this section.


§ 28.325 Fire detection systems.

(a) Each accommodation space must be equipped with an independent modular smoke detector or a smoke actuated fire detecting unit installed in accordance with 46 CFR part 76, subpart 76.33.

(b) An independent modular smoke detector must meet UL 217 and be listed as a "Single Station Smoke Detector—Also suitable for use in Recreational Vehicles."

§ 28.330 Galley hood and other fire protection equipment.

(a) Each vessel must be fitted with a grease extraction hood complying with UL 710 above each grill, broiler, and deep fat fryer.

(b) Each grease extraction hood must be equipped with a pre-engineered dry or wet chemical fire extinguishing system meeting the applicable sections of NFPA 17 or 17A and must be listed by an independent laboratory.

(c) A vessel 79 feet (24 meters) or more in length must have at least one fire axe located in or adjacent to the operating station.
§ 28.335 Fuel systems.

(a) Applicability. Except for the components of an outboard engine or portable bilge pump, each vessel must meet the requirements of this section.

(b) Portable fuel systems. Portable fuel systems including portable tanks and related fuel lines and accessories are prohibited except where used for outboard engines or portable bilge pumps. The design, construction, and stowage of portable tanks and related fuel lines and accessories must meet the requirements of ABYC H-25.

(c) Fuel restrictions. Except for outboard engines, the use of fuel other than bunker C or diesel is prohibited. An installation using bunker C must comply with the requirements of subchapter F of this chapter.

(d) Vent pipes for integral fuel tanks. Each integral fuel tank must meet the requirements of this paragraph.

(1) Each fuel tank must be fitted with a vent pipe connected to the highest point of the tank terminating in a 180 degree (3.14 radians) bend on a weather deck and fitted with a flame screen.

(2) Except where provision is made to fill a tank under pressure, the net cross-sectional area of the vent pipe for a fuel tank must not be less than 0.484 square inches (312.3 square millimeters).

(3) Where provision is made to fill a tank under pressure, the net cross-sectional area of the vent pipe must not be less than that of the fill pipe.

(e) Fuel piping. Except as permitted in paragraph (e)(1) and (e)(2) of this section, each fuel line must be seamless and must be of steel, annealed copper, nickel-copper, or copper-nickel. Each fuel line must have a wall thickness of not less than that of 0.035 inch (0.9 millimeters) except that:

(1) Aluminum piping is acceptable on an aluminum hull vessel provided it is installed outside the machinery space and is at least Schedule 80 in thickness; and

(2) Nonmetallic flexible hose is acceptable but must—

(i) Not be used in lengths of more than 30 inches (0.82 meters);

(ii) Be visible, easily accessible, and must not penetrate a watertight bulkhead;

(iii) Be fabricated with an inner tube and a cover of synthetic rubber or other suitable material reinforced with wire braid.

(iv) Be fitted with suitable, corrosion resistant, compression fittings; and

(v) Be installed with two clamps at each end of the hose, if designed for use with clamps. Clamps must not rely on spring tension and must be installed beyond the bead or flare or over the serrations of the mating spud, pipe, or hose fitting.

(f) A fuel line subject to internal head pressure from fuel in the tank must be fitted with a positive shutoff valve located at the tank which is operable from a safe location outside the space in which the valve is located.

(g) A vessel less than 79 feet (24 meters) in length may comply with one of the following standards in lieu of the requirements of paragraphs (e) and (f) of this section.

1. ABYC H-33.

2. Chapter 5 of NFPA 302.

3. 33 CFR Chapter I, subchapter S (Boating Safety).


(a) Applicability. Each vessel with a gasoline outboard engine or gasoline storage tank must comply with the requirements of this section.

(b) Ventilation of spaces containing gasoline. Each space that contains a gasoline engine, a gasoline storage tank, or gasoline piping connected to an integral gasoline tank must be open to the atmosphere and so arranged as to prevent the entrapment of vapors or be ventilated by a mechanical exhaust system with a nonsparking fan. The fan motor must comply with 46 CFR 111.105–23.

(c) Alternative standards. A vessel less than 65 feet in length with ventilation installations in accordance with NFPA 302, chapter 2, section 2–2, or ABYC H-2 and 33 CFR part 183, subpart K, will be considered as meeting the requirements of this section.
§ 28.345 Electrical standards for vessels less than 79 feet (24 meters) in length.

(a) A vessel less than 79 feet (24 meters) in length with an alternating current electrical distribution system may comply with the requirements of ABYC E-8 and either paragraph (c) or (d) of this section, as applicable, in lieu of meeting the requirements of §§28.350 through 28.370.

(b) A vessel less than 79 feet (24 meters) in length with a direct current system may comply with the requirements of ABYC E-1, ABYC E-9, and either paragraph (c) or (d) of this section, as applicable, in lieu of meeting the requirements of §§28.350 through 28.370.

(c) In addition to paragraph (a) or (b) of this section, the vessel may comply with the requirements of NFPA 302, chapters 7 and 8.

(d) In addition to paragraph (a) or (b) of this section, the vessel may comply with the requirements of 33 CFR part 183, subpart I and §28.370.

§ 28.350 General requirements for electrical systems.

(a) Electrical equipment exposed to the weather or in a location exposed to seas must be waterproof, watertight, or enclosed in a watertight housing.

(b) Aluminum must not be used for current carrying parts of electrical equipment or wiring.

(c) As far as practicable, electrical equipment must not be installed in lockers used to store paint, oil, turpentine, or other flammable or combustible liquid. If electrical equipment, such as lighting, is necessary in these spaces, it must be explosion-proof or intrinsically safe.

(d) Explosion-proof and intrinsically safe equipment must meet the requirements of 46 CFR part 111, subpart 111.105.

(e) Metallic enclosures and frames of electrical equipment must be grounded.

(f) Each vessel with a nonmetallic hull must have a continuous, non-current carrying grounding conductor which connects together the enclosures and frames of electrical equipment and which connects metallic items such as engines, fuel tanks, and equipment enclosures to a common ground point.

(g) The equipment grounding conductor must be sized in accordance with section 250-95 of NFPA Standard 70.

§ 28.355 Main source of electrical power.

(a) Applicability. Each vessel that relies on electricity to power any of the following essential loads must have at least two electrical generators to supply these loads:

1. The propulsion system and its necessary auxiliaries and controls;
2. Interior lighting;
3. Steering systems;
4. Communication systems;
5. Navigation equipment and navigation lights;
6. Fire protection or detection equipment;
7. Bilge pumps; or
8. General alarm system.

(b) Each generator must be attached to an independent prime mover.

§ 28.360 Electrical distribution systems.

(a) Each electrical distribution system which has a neutral bus or conductor must have the neutral bus or conductor grounded.

(b) A grounded electrical distribution system must have only one connection to ground. This ground connection must be at the switchboard or, on a nonmetallic vessel, at the common ground point.

§ 28.365 Overcurrent protection and switched circuits.

(a) Each power source must be protected against overcurrent. Overcurrent devices for generators must be set at a value not exceeding 115 percent of the generator full load rating.

(b) Except for a steering circuit, each circuit must be protected against both overload and short circuit. Each overcurrent device in a steering system power and control circuit must provide short circuit protection only.

(c) Each ungrounded current carrying conductor must be protected in accordance with its current carrying capacity by a circuit breaker or fuse at the connection to the switchboard or distribution panel bus.
(d) Each circuit breaker and each switch must simultaneously open all ungrounded conductors.

(e) The grounded conductor of a circuit must not be disconnected by a switch or an overcurrent device unless all ungrounded conductors of the circuit are simultaneously disconnected.

(f) Navigation light circuits must be separate, switched circuits having fused disconnect switches or circuit breakers so that only the appropriate navigation lights can be switched on.

(g) A separate circuit with overcurrent protection at the main distribution panel or switchboard must be provided for each radio installation.

§ 28.370 Wiring methods and materials.

(a) All cable and wire must have insulated, stranded copper conductors of the appropriate size and voltage rating for the circuit.

(b) Each conductor must be No. 22 AWG or larger. Conductors in power and lighting circuits must be No. 14 AWG or larger. Conductors must be sized so that the voltage drop at the load terminals is not more than 10 percent.

(c) Cable and wiring not serving equipment in a high risk fire area such as a galley, laundry, or machinery space must be routed as far as practicable from these spaces. As far as practicable, cables serving duplicated essential equipment must be separated so that a casualty that affects one cable does not affect the other.

(d) Cable and wire for power and lighting circuits must:

(1) For circuits of less than 50 volts, meet 33 CFR 183.425 and 183.430; and

(2) For circuits of 50 volts or greater:

(i) Meet sections 310-13 and 310-15 of NFPA 70, except that asbestos insulated cable and dry location cable must not be used;

(ii) Be listed by Underwriters Laboratories Inc. as UL Boat or UL Marine Shipboard cable; or

(iii) Meet 46 CFR part 111, subpart 111.60.

(e) All metallic cable armor must be electrically continuous and grounded to the metal hull or the common ground point at each end of the cable run, except that final sub-circuits (those supplying loads) may be grounded at the supply end only.

(f) A wiring termination and connection must be made in a fire retardant enclosure such as a junction box, fixture enclosure, or panel enclosure. A fire retardant plastic enclosure is acceptable.

§ 28.375 Emergency source of electrical power.

(a) Each vessel must have an emergency source of electrical power which is independent of the main sources of electrical power and which is located outside the main machinery space.

(b) The emergency source of electrical power must be capable of supplying all connected loads continuously for at least 3 hours.

(c) Except as provided in paragraphs (d) and (e) of this section, the following electrical loads must be connected to the emergency source of power:

(1) Navigation lights;

(2) Steering systems;

(3) Bilge pumps;

(4) Fire protection and detection systems, including fire pumps;

(5) Communication equipment;

(6) General alarm system and;

(7) Emergency lighting.

(d) A vessel less than 36 feet (11.0 meters) in length need only supply communication equipment by an emergency source of electrical power if flashlights are provided.

(e) A vessel less than 79 feet (24 meters) in length which is not dependent upon electrical power for propulsion, including propulsion control systems or steering, need only supply emergency lighting, navigation equipment, general alarm system, and communication systems by the emergency source of power.

(f) Where the emergency source of power is a generator, the generator prime mover must have a fuel supply which is independent of other prime movers.


§ 28.380 General structural fire protection.

(a) Fire hazards to be minimized. Each vessel must be constructed so as to
§ 28.385

minimize fire hazards insofar as is reasonable and practicable.

(b) Combustibles insulated from heated surfaces. An internal combustion engine exhaust, galley uptake, electrical heating tape, or similar source of ignition must be kept clear of and suitably insulated from combustible material. A dry exhaust system for an internal combustion engine on a wooden or fiber reinforced plastic vessel must be installed in accordance with ABYC P-1.

c) Separation of machinery and fuel tank spaces from accommodation spaces.

(1) Each accommodation space must be separated from machinery and fuel tank spaces by a fire resistant boundary which will prevent the passage of vapors.

(2) Each pipe and cable penetration between an accommodation space and a machinery or fuel tank storage space must be sealed.

d) Paint and flammable liquid lockers. Each vessel carrying paint and flammable liquids must be equipped with a steel or a steel lined storage locker.

e) Insulation. Except as provided in paragraphs (e)(1) and (e)(2) of this section, insulation must be noncombustible.

(1) In machinery spaces, combustible insulation may be used for pipe and machinery lagging.

(2) In cargo spaces and refrigerated compartments of service spaces, combustible insulation may be used.

(f) Vapor barrier. Where insulation of any type is used in spaces where flammable and combustible liquids or vapors are present, e.g., machinery spaces and paint lockers, a vapor barrier which covers the insulation must be provided.

g) Paint. Nitrocellulose or other highly flammable or noxious fume producing paints or lacquers must not be used on the vessel.

(h) Mattresses. Polyurethane foam mattresses are prohibited.

NOTE: The U.S. Department of Commerce Standard for Mattress Flammability (FF 4-72.16) in 16 CFR part 1632, subpart A, applies to each mattress.

(i) Fiber reinforced plastic. When the hull, a deck, deckhouse, or superstructure of a vessel is partially or completely constructed of fiber reinforced plastic, the resin used must be fire retardant.

(j) Cooking areas. Vertical or horizontal surfaces within 0.9144 meters (3 feet) of cooking appliances must be composed of noncombustible material or covered by noncombustible material. Curtains, draperies, or free hanging fabrics are not permitted within 0.9144 meters (3 feet) of cooking appliances.


§ 28.385 Structural fire protection for vessels that operate with more than 49 individuals on board.

(a) Applicability. Each vessel that operates with more than 49 individuals on board must comply with the requirements of this section in addition to the requirements of § 28.380.

(b) Construction. The hull, structural bulkheads, columns and stanchions must be composed of steel. Superstructures and deckhouses must be constructed of noncombustible material.

(c) Protection of accommodation spaces. A bulkhead or deck separating an accommodation space from a control station, machinery space, cargo space, or service space must be constructed of noncombustible material.


§ 28.390 Means of escape.

(a) Each space which is used by an individual on a regular basis or which is generally accessible to an individual must have at least two widely separated means of escape. At least one of the means of escape must be independent of watertight doors. Subject to the restrictions of this section, means of escape include normal exits and emergency exits, passageways, stairways, ladders, deck scuttles, and windows.

(b) At least one of the means of escape from each space must provide a satisfactory route to weather.

(c) Each door, hatch or scuttle used as a means of escape must be capable of being opened by one individual, from
either side, in both light dark conditions, must open towards the expected direction of escape from the space served, and if a watertight door be of the quick acting type.

(d) Each deck scuttle which serves as a means of escape, must be fitted with a quick-acting release and a device to hold the scuttle in an open position.

(e) Each foothold, handhold, ladder, or similar structure, provided to aid escape, must be suitable for use in emergency conditions and must be of rigid construction.

(f) A window or windshield of sufficient size and proper accessibility may be used as one of the required means of escape from an enclosed space.

§ 28.395 Embarkation stations.
Each vessel must have at least one designated survival craft embarkation station and any additional embarkation stations necessary so that an embarkation station is readily accessible from each accommodation space and work space. Each embarkation station must be arranged to allow the safe boarding of survival craft.

§ 28.400 Radar and depth sounding devices.

(a) Each vessel must be fitted with a general marine radar system for surface navigation with a radar screen mounted at the operating station.

(b) Each vessel must be fitted with a suitable echo depth sounding device.

§ 28.405 Hydraulic equipment.

(a) Each hydraulic system must be so designed and installed that proper operation of the system is not affected by back pressure in the system.

(b) Piping and piping components must be designed with a burst pressure of not less than four times the system maximum operating pressure.

(c) Each hydraulic system must be equipped with at least one pressure relieving device set to relieve at the system's maximum operating pressure.

(d) All material in a hydraulic system must be suitable for use with the hydraulic fluid used and must be of such chemical and physical properties as to remain ductile at the lowest operating temperature likely to be encountered by the vessel.

(e) Except for hydraulic steering equipment, controls for hydraulic equipment must be located where the operator has an unobstructed view of the hydraulic equipment and the adjacent working area.

(f) Controls for hydraulic equipment must be so arranged that the operator is able to quickly disengage the equipment in an emergency.

(g) Hydraulically operated machinery must be equipped with a holding device to prevent uncontrolled movement due to loss of hydraulic system pressure.

(h) A nonmetallic flexible hose must only be used between two points of relative motion, including a pump and piping system, and must meet SAE J 1942.

(i) Each nonmetallic flexible hose and hose assembly must be installed in accordance with the manufacturer's rating and guidelines and must be limited to a length of not more that 30 inches (0.76 meters) in an application not subject to torsional loading.

§ 28.410 Deck rails, lifelines, storm rails, and hand grabs.

(a) Except as otherwise provided in paragraph (d) of this section, deck rails, lifelines, grab rails, or equivalent protection must be installed near the periphery of all weather decks accessible to individuals. Where space limitations make deck rails impractical, hand grabs may be substituted.

(b) The height of deck rail, lifelines, or bulwarks must be at least 39 1/2 inches (1 meter) from the deck, except, where this height would interfere with the normal operation of the vessel, a lesser height may be substituted.

(c) All deck rails or lifelines must be permanently supported by stanchions at intervals of not more than 7 feet (2.3 meters). Stanchions must be through bolted or welded to the deck.

(d) Portable stanchions and lifelines may be installed in locations where permanently installed deck rails would impede normal fishing operations or emergency recovery operations.

(e) Deck rails or lifelines must consist of evenly spaced courses. The spacing between courses must not be greater than 15 inches (0.38 meters). The opening below the lowest course must not be more than 9 inches (0.23 meters).
§28.500

Lower courses are not required where all or part of the space below the upper rail is fitted with a bulwark, chain link fencing, wire mesh, or an equivalent.

(f) A suitable storm rail or hand grab must be installed where necessary in a passageway, at a deck house side, at a ladder, and a hatch where an individual might have normal access.

(g) A stern trawler must have doors, gates, or other protective arrangements at the top of the stern ramp at least as high as adjacent bulwarks or 393⁄4 inches (1 meter), whichever is less.


Subpart E—Stability

§28.500 Applicability.

This subpart applies to each commercial fishing industry vessel which is 79 feet (24 meters) or more in length that is not required to be issued a load line under subchapter E of this chapter and that—

(a) Has its keel laid or is at a similar stage of construction or undergoes a major conversion started on or after September 15, 1991;

(b) Undergoes alterations to the fishing or processing equipment for the purpose of catching, landing, or processing fish in a manner different than has previously been accomplished on the vessel—these vessels need only comply with §28.501 of this subpart; or

(c) Has been substantially altered on or after September 15, 1991.


§28.501 Substantial alterations.

(a) Except as provided in paragraph (b) of this section, a vessel that is substantially altered, including the cumulative effects of all alterations, need not comply with the remainder of this subpart, provided that it has stability instructions developed by a qualified individual which comply with §28.530 through (c).

(b) A vessel that is substantially altered in a manner which adversely affects its stability, including the cumulative effects of all alterations, need not comply with the remainder of this subpart, provided the stability instructions required by paragraph (a) of this section are based on loading conditions or operating restrictions, or both, which compensate for the adverse effects of the alterations.

(c) The following changes to a vessel’s lightweight characteristics are considered to adversely affect vessel stability:

(1) An increase in the vertical center of gravity at lightweight by more than 2 inches (51 millimeters) compared to the original lightweight value.

(2) An increase or decrease of lightweight displacement by more than 3 percent of the original lightweight displacement.

(3) A shift of the longitudinal center of gravity of more than 1 percent of the vessel’s length.

(d) In determining whether or not a vessel’s stability has been adversely affected, a qualified individual must, at a minimum, consider the net effects on stability of any:

(1) Reduction of the downflooding angle;

(2) Increase in the maximum heeling moment caused by fishing gear or weight lifted over the side due to changes in lifting arrangement or capacity;

(3) Reduction in freeing port area;

(4) Increase in free surface effects, including increased free surface effects due to water on deck associated with any increase in length or height of bulwarks;

(5) Increase in projected wind area;

(6) Decrease in the angle of maximum righting arm;

(7) Decrease in the area under the righting arm curve; and

(8) Increase in the surface area on which ice can reasonably be expected to accumulate.

§28.505 Vessel owner’s responsibility.

(a) Where a test or calculations are necessary to evaluate stability, it is the owner’s responsibility to select a qualified individual to perform the test or calculations.

(b) Test results and calculations developed in evaluating stability must be maintained by the owner.
§ 28.510 Definition of stability terms.

Downflooding means the entry of seawater through any opening into the hull or superstructure of an undamaged vessel due to heel, trim, or submergence of the vessel.

Downflooding angle means the static angle from the intersection of the vessel’s centerline and the waterline in calm water to the first opening that cannot be closed weathertight and through which downflooding can occur.

Flush deck means a continuous weather deck located at the uppermost sheer line of the hull.

Forward perpendicular means a vertical line corresponding to the intersection of the forward side of the vessel’s stem and the vessel’s waterline at the vessel’s deepest operating draft.

Open boat means a vessel not protected from entry of water by means of a complete deck, or by a combination of partial weather deck and superstructure which is seaworthy for the waters upon which the vessel operates.

Protected waters means sheltered waters presenting no special hazards such as most rivers, harbors, lakes, and similar waters as determined by the OCMC.

Qualified individual means an individual or an organization with formal training in and experience in matters dealing with naval architecture calculations.

Substantially altered means the vessel is physically altered in a manner that affects the vessel’s stability and includes:

1. Alterations that result in a change of the vessel’s lightweight vertical center of gravity of more than 2 inches (51 millimeters), a change in the vessel’s lightweight displacement of more than 3 percent, or an increase of more than 5 percent in the vessel’s projected lateral area, as determined by tests or calculations;

2. Alterations which change the vessel’s underwater shape;

3. Alterations which change a vessel’s angle of downflooding; and

4. Alterations which change a vessel’s buoyant volume.

Well deck means a weather deck fitted with solid bulwarks that impede the drainage of water over the sides or an exposed recess in the weather deck extending one-half or more of the length of the vessel.

§ 28.515 Submergence test as an alternative to stability calculations.

(a) A vessel may comply with this section in lieu of the remainder of the requirements in this subpart. A certification plate installed under 33 CFR part 183, subpart B, is acceptable evidence of compliance with this section.

(b) A vessel which is fitted with inboard engines and loaded as described in paragraph (e) of this section must float in calm water, after being submerged for 18 hours, so that—

1. For a open vessel, any portion of the vessel’s gunwale is above the water’s surface; or

2. For a decked vessel, any portion of the main deck is above the water’s surface.

(c) A vessel which is fitted with an outboard engine must be loaded as described in paragraph (e) of this section and must float in calm water after being submerged for 18 hours so that—

1. The vessel has an equilibrium heel angle of less than 10°;

2. Any portion of the vessel’s hull is above the water’s surface; and

3. Any portion of the lowest 3 feet (0.91 meters) of the vessel’s hull is not more than 6 inches (152 millimeters) below the water’s surface as measured at the lowest point on the following—

   i. The gunwale, for an open boat; or

   ii. The main deck, for a decked vessel.

(d) A vessel which is fitted with an outboard engine must be loaded as described in paragraph (f) of this section and must survive the submergence described in paragraph (c) of this section, except that the equilibrium heel angle must not exceed 30° and the vessel must float with the lower end of the vessel not more than 12 inches (0.31 meters) below the water’s surface in calm water.

(e) For the tests described in paragraphs (b) and (c) of this section, a vessel must be complete in all respects, except that machinery which would be damaged by water may be replaced with equivalent fixed weight in the same location as the machinery it replaces. The vessel must be loaded with weight to represent the most adverse
loading condition. The most adverse loading condition normally includes the maximum weight of fish in its highest possible location. Weights must be substituted for operating personnel at 165 pounds (734 Newtons) per individual and may be substituted for fishing gear. The substitute weights may be located transversely so that the vessel floats level prior to being submerged. The two largest air chambers, or compartments of a decked vessel not used as fuel tanks, that contribute buoyancy to the vessel must be flooded.

(f) For the test described in paragraph (d) of this section, a vessel must be complete and loaded as described in paragraph (e) of this section, except that the center of gravity of the equivalent maximum fish load must be located to one side of the vessel’s centerline by a distance equal to one-fifth of the maximum transverse dimension of the fish storage space.

§§ 28.520—28.525 [Reserved]

§ 28.530 Stability instructions.

(a) Intent. The intent of this section is to ensure that vessel masters and individuals in charge of vessels are provided with enough stability information to allow them to maintain their vessel in a satisfactory stability condition. The rules provide maximum flexibility for owners and qualified individuals to determine how this information is conveyed, taking into consideration decisions by operating personnel must be made quickly and that few operating personnel in the commercial fishing industry have had specialized training in stability. Therefore, stability instructions should take into account the conditions a vessel may reasonably be expected to encounter and provide simple guidance for the operating personnel to deal with these situations.

(b) Each vessel must be provided with stability instructions which provide the master or individual in charge of the vessel with loading constraints and operating restrictions which maintain the vessel in a condition which meets the applicable stability requirements of this subpart.

(c) Stability instructions must be developed by a qualified individual.

(d) Stability instructions must be in a format easily understood by the master or individual in charge of the vessel. Units of measure, language, and rigor of calculations in the stability instructions must be consistent with the ability of the master or the individual in charge of the vessel. The format of the stability instructions may include, at the owner’s discretion, any of the following:

(1) Simple loading instructions;
(2) A simple loading diagram with instructions;
(3) A stability booklet with sample calculations; or
(4) Any other appropriate format for providing stability instructions.

(e) Stability instructions must be developed based on the vessel’s individual characteristics and may include the following, as appropriate for the format chosen for presentation:

(1) A general description of the vessel, including lightweight data;
(2) Instructions on the use of the information;
(3) General arrangement plans showing watertight compartments, closures, vents, downflooding angles, and allowable weights;
(4) Loading restrictions, such as diagrams, tables, descriptions or maximum KG curves;
(5) Sample loading conditions;
(6) General precautions for preventing unintentional flooding;
(7) Capacity plan or tank sounding tables showing tank and hold capacities, centers of gravity, and free surface effects;
(8) A rapid and simple means for evaluating any specific loading condition;
(9) The amount and location of fixed ballast;
(10) Any other necessary guidance for maintaining adequate stability under normal and emergency conditions;
(11) A general description of the stability criteria that are used in developing the instructions;
(12) Guidance on the use of roll limitation devices such as stabilizers; and
(13) Any other information the owner feels is important to the stability and operation of the vessel.
§ 28.535 Inclining test.

(a) Except as provided in paragraphs (b) and (c) of this section, each vessel for which the lightweight displacement and centers of gravity must be determined in order to do the calculations required in this subpart must have an inclining test performed.

(b) A deadweight survey may be substituted for the inclining test, if there is a record of an inclining test of a sister vessel. A vessel qualifies as a sister vessel if it is built to the same basic drawings and the undocumented weight difference between the two vessels is less than 3 percent of the lightweight displacement of the vessel which was inclined and the location of the longitudinal center of gravity differs less than 1 percent of the vessel's length.

(c) A deadweight survey may be substituted for the inclining test, or the inclining test may be dispensed with, if an accurate estimate of the vessel's lightweight characteristics can be made and the precise location of the position of the vessel's vertical center of gravity is not necessary to ensure that the vessel has adequate stability in all probable loading conditions.

(d) ASTM Standard F 1321–90, with the exception of Annexes A and B, may be used as guidance for any inclining test or deadweight survey conducted under this section.

§ 28.540 Free surface.

(a) When doing the stability calculations required by this subpart, the virtual rise in the vessel's vertical center of gravity due to liquids in tanks must be considered by calculating the following—

(1) For each type of consumable liquid, the maximum free surface effect of a tank, or a transverse pair of tanks, having the greatest free surface effect, in addition to a correction for service tanks; and

(2) The free surface effect of each partially filled tank and hold containing a liquid that is not a consumable or containing fish or a fish product that can shift as the vessel heels. This should include correction for any loose water within the vessel's hull associated with the processing of fish.

(b) The free surface effect of tanks fitted with cross connection piping must be calculated assuming the tanks are one common tank, unless valves that will be kept closed to prevent the transfer of liquids as the vessel heels are installed in the piping.

(c) The moment of transference method may be used in lieu of the inertia method when calculating free surface effects.

§ 28.545 Intact stability when using lifting gear.

(a) Each vessel which lifts a weight over the side, or that uses fishing gear that can impose an overturning moment on the vessel, such as trawls and seines, must meet the requirements of this section if that maximum heeling moment exceeds $0.67(W)(GM)(F/B)$, in foot-long tons (meter-metric tons), where:

- $W =$ displacement of the vessel with the lifted weight or the force on the fishing gear included, in long tons (metric tons);
- $GM =$ metacentric height with the lifted weight or force on the fishing gear included, in feet (meters);
- $F =$ freeboard to the lowest weather deck, measured at amidships in feet (meters); and
- $B =$ maximum beam, in feet (meters).

(b) Except as provided in paragraph (f) of this section, each vessel must meet the requirements of §28.570 or have at least 15 foot-degrees (0.080 meter-radians) of area under the righting arm curve, after correcting the righting arms for the heeling arm caused by lifting or fishing gear, from the angle of equilibrium to the least of the following:

(1) The angle corresponding to the maximum righting arm;
(2) The angle of downflooding; or
(3) $40\degree$ (0.7 radians).

(c) The angle of intersection of the heeling arm curve resulting from the lifting moment or the moment of fishing gear and the righting arm curve must not be at an angle of more than $10\degree$ (0.17 radians).

(d) The heeling arm curve resulting from lifting must be calculated as the resultant of the upright heeling moment divided by the vessel's displacement multiplied by the cosine of the angle of heel.
§ 28.550 Icing.

(a) Applicability. Each vessel that operates north of 42° North latitude between November 15 and April 15 or south of 42° South latitude between April 15 and November 15 must meet the requirements of this section.

(b) Except as provided in paragraph (d) of this section, the weight of assumed ice on each surface above the waterline of a vessel which operates north of 66°30' North latitude or south of 66° South latitude must be assumed to be at least:

1. 6.14 pounds per square foot (30 Kilograms per square meter) of horizontal projected area which corresponds to a thickness of 1.3 inches (33 millimeters); and
2. 3.07 pounds per square foot (15 Kilograms per square meter) of vertical projected area which corresponds to a thickness of 0.65 inches (16.5 millimeters).

(c) Except as provided in paragraph (d) of this section, the weight of assumed ice on a vessel that operates north of 42° North but south of 66°30' North latitude or south of 42° South but north of 66° South latitude must be assumed to be at least one-half of the values required by paragraphs (b)(1) and (b)(2) of this section.

(d) The height of the center of gravity of the accumulated ice should be calculated according to the position of each corresponding horizontal surface (deck and gangway) and each other continuous surface on which ice can reasonably be expected to accumulate. The projected horizontal and vertical area of each small discontinuous surface such as a rail, a spar, and rigging with no sail can be accounted for by increasing the calculated area by 15 percent.

(e) The weight and location of ice must be included in the vessel's weight and centers of gravity in each condition of loading when performing the stability calculations required by this subpart.


§ 28.555 Freeing ports.

(a) Except as provided in paragraph (i) of this section, each decked vessel fitted with bulwarks must be fitted with freeing ports.

(b) Freeing ports must be located to allow the rapid clearing of water in all probable conditions of list and trim.

(c) Except as provided by paragraphs (d) through (h) of this section, the aggregate clear area of freeing ports on each side of the vessel must not be less than 0.71 plus 0.035 times the length of the bulwark, in meters, for area in square meters, or 7.6 plus 0.115 times the length of the bulwark, in feet, for the area in square feet. The length of bulwark need not exceed 0.7 times the overall length of the vessel.

(d) Except as provided in paragraphs (e) through (h) of this section, for bulwarks which exceed 20.11 meters (66 feet) in length, the aggregate clear area of freeing ports on each side of the vessel must not be less than 0.07 times the length of the bulwark, in meters, for an area in square meters (0.23 times the length of the bulwark in feet, for an area in square feet). The length of the bulwark need not exceed 0.7 times the overall length of the vessel.

(e) For a bulwark more than 4 feet (1.22 meters) in height, the freeing port area required by paragraphs (c) or (d) of this section must be increased in accordance with the following formula:

\[ i = h - 4(0.04q), \quad i = (h - 1.72)(0.04q) \]

for metric units, where:

\[ i \] = increase in freeing port area, in square feet (square meters);

\[ h \] = bulwark height, in feet (meters); and

\[ q \] = length of bulwark exceeding 4 feet (1.22 meters) in height, in feet (meters).

(f) For a bulwark less than 3 feet (0.91 meters) in height, the required freeing port area, required by paragraph (c) or
of this section, may be decreased in accordance with the following formula:
\[
\begin{align*}
  r &= (3 - h) \cdot 0.04q, \\
  r &= (h - 0.91 - h) \cdot 0.04q,
\end{align*}
\]
where:
- \( r \) = permitted reduction in freeing port area, in square feet (square meters).
- \( h \) = bulwark height, in feet (meters).
- \( q \) = length of bulwark which is less than 3 feet (0.914 meters) in height, in feet (meters).

(g) For a vessel without sheer, the freeing port area must be increased by 50 percent.

(h) The area of the freeing ports on a vessel that operates on protected waters need only be 50 percent of the area required by paragraphs (c) or (d) of this section.

(i) Freeing port covers are permitted provided that the freeing port area required by this section is not diminished and the covers are constructed and fitted so that water will readily flow outboard but not inboard.

§ 28.565 Water on deck.

(a) Each vessel with bulwarks must comply with the requirements of this section.

(b) Except for a vessel that operates on protected waters, the residual righting energy, “b” in Figure 28.565, must not be less than the water on deck heeling energy, “a” in Figure 28.565.

(c) The water on deck heeling energy must be determined assuming the following:

1. The deck well is filled to the top of the bulwark at its lowest point and the vessel heeled to the angle at which this point is immersed;
2. Water does not run off through the freeing ports;
3. Vessel trim and displacement are constant and equal to the values of the vessel without the water on deck; and
4. Water in the well is free to run-off over the top of the bulwark.

(d) The residual righting energy is the righting energy from the value where the righting arm equals the water on deck heeling arm up to the lesser of the values of 40° (0.70 radians) of heel or the downflooding angle.
§ 28.570 Intact righting energy.

(a) Except as provided in paragraph (c) of this section, each vessel must have the following properties in each condition of loading:

(1) An initial metacentric height (GM) of at least 1.15 feet (0.35 meters);

(2) A righting arm (GZ) of at least 0.66 feet (0.2 meters) at an angle of heel not less than 30° (0.52 radians);

(3) A maximum righting arm that occurs at an angle of heel not less than 25° (0.44 radians);

(4) An area under each righting arm curve of at least 16.9 foot-degrees (0.090 meter-radians) up to the lesser of 40° (0.70 radians) or the angle of downflooding;

(5) An area under each righting arm curve of at least 10.3 foot-degrees (0.055 meter-radians) up to an angle of heel of 30° (0.52 radians);

(6) An area under each righting arm curve of at least 5.6 foot-degrees (0.030 meter-radians) between 30° (0.52 radians) and the lesser of 40° (0.70 radians) or the angle of downflooding; and

(7) Except as provided by paragraph (b) of this section, positive righting arms through an angle of heel of 60° (1.05 radians).

(b) In lieu of meeting the requirements of paragraph (a)(7) of this section, a vessel may comply with the following provisions:

(1) Hatches in the watertight/weather-tight envelope must be normally kept closed at sea (e.g., the live tank hatch is only opened intermittently, under controlled conditions); or

(2) Unintentional flooding through these hatches must not result in progressive flooding to other spaces; and

(3) In all cases, a vessel must have positive righting arms through an angle of heel of at least 50° (0.87 radians) and the intact stability analysis must consider that spaces accessed by
such hatches to be flooded full or flooded to the level having the most detrimental effect on stability when free surface effects are considered.

(c) In lieu of meeting the requirements of paragraph (a) of this section, a vessel may comply with the provisions of §170.173(c) of this chapter, provided that righting arms are positive to an angle of heel of not less than 50° (0.87 radians).

(d) For the purpose of paragraphs (a) and (c) of this section, at each angle of heel a vessel’s righting arm must be calculated assuming the vessel is permitted to trim free until the trimming moment is zero.

§ 28.575 Severe wind and roll.

(a) Each vessel must meet paragraphs (f) and (g) of this section when subjected to the gust wind heeling arm and the angle of roll to windward as specified in this section.

(b) The gust wind heeling arm, $L_w$, in figure 28.575 of this chapter, must be calculated by the following formula:

$$L_w = 0.00216E_n(V_n^2A_nZ_n)/W,$$

where:

- $E_n$: series summation notation where $n$ varies from 1 to the number of elements in the series;
- $V_n$: in feet per second $S[0.124LN(0.3048h_n)+0.772]$, in meters per second and is the wind speed for profile element $n$ on a vessel;
- $S$: 64 (19.5, if metric units are used) for a vessel that operates on protected waters; or 85.3 (26, if metric units are used) for a vessel that operates on waters other than protected waters;
- $h_n$: the vertical distance from the centroid of area $A_n$ to the waterline for profile element $n$, in feet (meters);
- $A_n$: projected lateral area for profile element $n$, in square feet (square meters);
- $Z_n$: the vertical distance between the centroid of $A_n$ and a point at the center of the underwater lateral area or a point at approximately one-half of the draft, for profile element $n$, in feet;
- $W$: displacement of the loaded vessel, in pounds (Newtons).

(c) The angle of roll to windward, $A_1$, is measured from the equilibrium angle, $A_{el}$, and is calculated by the following formula:

$$A_1 = 109kXY[\text{Square root of } (rs)],$$

where:

- $s$: factors from Table 28.575;
- $X$: factors from Table 28.575;
- $Y$: factors from Table 28.575;
- $r$: $0.73+0.6Z_g/d$;
- $Z_g$: distance between the center of gravity and the waterline (+ above, – below), in feet (meters);
- $k$: 1.0 for round bilged vessels with no bilge keels or bar keels; 0.7 for vessels with sharp bilges, or the value from Table 28.575 for vessels with a bar keel, bilge keels, or both;
- $B$: molded breadth of the vessel, in feet (meters);
- $d$: mean molded draft of the vessel, in feet (meters);
- $C_b$: block coefficient; $A_k$: aggregate area of bilge keels, the area of the lateral projection of a bar keel, or the sum of these areas, in square feet (square meters);
- $L$: length, in feet (meters);
- $T$: 1.108 BC/square root of GM, in seconds; 2.0 BC/square root of GM, if metric units are used;
- $GM$: metacentric height corrected for free surface effects, as explained in §28.540, in feet (meters);
- $C$: $0.373+0.023(B/d)$ or $0.373+0.023(B/D)$, if metric units are used.

(d) The angle of equilibrium, $A_{el}$, in figure 28.575, is calculated by determining the lowest angle at which the gust wind heeling arm, $L_w$, is equal to the righting arm.

(e) The area “b” in figure 28.575 must be measured to the least of the following:

1. The angle of downflooding, $A_{af}$;
2. The angle of the second intercept, $A_{e2}$ in figure 28.575, of the wind heeling arm curve, $L_w$ in figure 28.575, and the righting arm curve;
3. An angle of 50° (0.87 radians).

(f) The area of equilibrium, $A_{el}$, in figure 28.575, must not exceed 14° (0.24 radians).

(g) Area “b” in figure 28.575 must not be less than area “a” in figure 28.575.

### Tables 28.575—Roll Factors

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§ 28.580 Unintentional flooding.

(a) Applicability. Except for an open boat that operates on protected waters and as provided by paragraph (i) of this section, each vessel built on or after September 15, 1991 must comply with the requirements of this section.

Coast Guard, DOT § 28.580

(b) Collision bulkhead. A watertight collision bulkhead must be fitted and must meet the following:

(1) Openings in the collision bulkhead must be kept to a minimum, and each must be fitted with a watertight closure device;

(2) A collision bulkhead must not be fitted with a door below the bulkhead deck;

(3) A penetration or opening in a collision bulkhead must be—
   (i) Located as high and as far inboard as practicable; and
   (ii) Fitted with a means to rapidly make it watertight which is operable from a location aft of the collision bulkhead;

(4) The collision bulkhead must be located at least 5 percent of the length from the forward perpendicular unless the vessel has a bulbous bow, in which case the forward reference point will be extended by half the distance between the vessel’s forward perpendicular and the forwardmost point of the bulbous bow as shown in figure 28.580; and

(5) The collision bulkhead must not be stepped below the bulkhead deck.

(c) Each vessel must meet the survival conditions in paragraph (f) of this section in each condition of loading and operation with the extent and character of damage specified in paragraphs (d) and (e) of this section.

(d) Extent and character of damage. Except where a lesser extent of damage or a smaller penetration would be more disabling, in evaluating the damage stability of a vessel the following penetration must be assumed:

(1) Longitudinal extent—L/10, or 10 feet (3.05 meters) plus 0.03L, whichever is less. Transverse watertight bulkheads that are separated by at least this distance may be assumed to remain effective;

(2) Transverse extent—30 inches (0.76 meters) from the side measured at right angles to the centerline at the level of the deepest operating waterline; and

(3) Vertical extent—from the baseline upward without limit.

(e) Each space containing a through hull fitting, such as the lazarette and the engineroom, must be assumed to be flooded.

(f) Survival conditions. A vessel is presumed to survive the assumed damage and unintentional flooding described in paragraphs (d) and (e) of this section if:

(1) The angle of equilibrium after flooding does not exceed 25° (0.44 radians); and

(2) Through an angle of 20° (0.35 radians) beyond the angle of equilibrium after flooding, the following are met—
   (i) The righting arm curve is positive;
   (ii) The maximum righting arm is at least 4 inches (102 millimeters);
   (iii) Each submerged opening is capable of being made weathertight; and
   (iv) The heeling arm caused by deploying all fully loaded davit-launched survival craft on one side of a vessel does not exceed the righting arm at any angle of heel beyond the equilibrium angle when launching is assumed on the damaged side.

(g) Permeability. The permeability of each space must not be less than the following:

(1) For an accommodations space—95 percent;

(2) For a propulsion machinery space—85 percent;

(3) For a tightly packed storage space—60 percent;

(4) For a void or an auxiliary machinery space—95 percent;

(5) For an empty fish hold—95 percent;

(6) For a full fish hold—50 percent; and

(7) For tanks—95 percent (less if a tank must be full to attain the draft under consideration.)

(h) Buoyancy of superstructure. A deckhouse or a superstructure may be included in the buoyant volume of a vessel provided it is:

(1) Sufficiently strong to withstand the impact of waves;

(2) Fitted with a weathertight or watertight closure device for each opening;

(3) Equipped with an efficient, hinged, inside deadlight, for each window and each portlight, arranged so that it can be effectively closed weathertight; and

(4) Fitted with interior access from the spaces below.

(i) A vessel may obtain and maintain a Load Line Certificate under subchapter E of this chapter in lieu of
§ 28.580

meeting the requirements of paragraphs (c) through (g) of this section.

\[ x = \frac{P}{2} \]

Figure 28.580

§ 28.700 Applicability.

Each fish processing vessel which is not subject to inspection under the provisions of another subchapter of this chapter must meet the requirements of this subpart.

§ 28.710 Examination and certification of compliance.

(a) At least once in every two years each vessel must be examined for compliance with the regulations of this subchapter by the ABS, a similarly qualified organization, or a surveyor of an accepted organization.

(b) Each individual performing an examination under paragraph (a) of this section, upon finding the vessel to be in compliance with the requirements of this chapter, must provide a written certification of compliance to the owner or operator of the vessel.

(c) Each certification of compliance issued under paragraph (b) of this section must:

(1) Be signed by the individual that performed the examination;

(2) Include the name of the organization the individual performing the examination represents or the name of the accepted organization the individual belongs to; and

(3) State that the vessel has been examined and found to meet the specific requirements of this chapter.

(d) A certification of compliance issued under paragraph (b) of this section must be retained on board the vessel until superseded.

(e) A copy of the certification of compliance issued under paragraph (b) of this section must be forwarded by the organization under whose authority the examination was performed to the Coast Guard District Commander (Attention: Fishing Vessel Safety Coordinator) in charge of the district in which the examination took place.

§ 28.720 Survey and classification.

(a) Each vessel which is built after or which undergoes a major conversion completed after July 27, 1990, must be classed by the ABS, or a similarly qualified organization.

(b) Each vessel which is classed under paragraph (a) of this section must:

(1) Have on board a certificate of class issued by the organization that classed the vessel.

(2) Meet all survey and classification requirements prescribed by the organization that classed the vessel.

Subpart G—Aleutian Trade Act Vessels

SOURCE: CGD 94-025, 60 FR 54444, Oct. 24, 1995, unless otherwise noted.

§ 28.800 Applicability and general requirements.

(a) This subpart applies to each fish tender vessel engaged in the Aleutian trade that has not undergone a major conversion and:

(1) Was operated in Aleutian trade before September 8, 1990; or

(2) Was purchased to be used in the Aleutian trade before September 8, 1990, and entered into service in the Aleutian trade before June 1, 1992.

(b) Except as noted otherwise in this subpart, a vessel subject to this subpart must also comply with the requirements of subparts A, B, and C of this chapter.

(c) Each fish tender vessel engaged in the Aleutian trade that undergoes a major conversion after September 15, 1991 must comply with the additional requirements of subpart D.

(d) A fish tender vessel engaged in the Aleutian trade is subject to inspection under the provisions of 46 U.S.C. 3301 (1), (6), or (7) unless it:

(1) Is not more than 500 gross tons;

(2) Has an incline test performed by a marine surveyor; and

(3) Has written stability instructions posted on board the vessel.

§ 28.805 Launching of survival craft.

In addition to the survival craft requirements in subpart B, each vessel must have a gate or other opening in the deck rails, lifelines, or bulwarks adjacent to the stowage location of each survival craft which has a mass of more than 50 kilograms (110 pounds), so that the survival craft can be manually launched.
§ 28.810 Deck rails, lifelines, storm rails and hand grabs.

(a) Except as otherwise provided in paragraph (d) of this section, deck rails, lifelines, grab rails, or equivalent protection must be installed near the periphery of all weather decks accessible to individuals. Where space limitations make deck rails impractical, hand grabs may be substituted.

(b) The height of deck rails, lifelines, or bulkwarks must be at least 1 meter (39½ inches) from the deck, except where this height will interfere with the normal operation of the vessel, a lesser height may be substituted.

(c) All deck rails or lifelines must be permanently supported by stanchions at intervals of not more than 2.3 meters (7 feet). Stanchions must be through bolted or welded to the deck.

(d) Portable stanchions and lifelines may be installed in locations where permanently installed deck rails will impede normal cargo operations or emergency recovery operations.

(e) Deck rails or lifelines must consist of evenly spaced courses. The spacing between courses must not be greater than 0.38 meters (15 inches). The opening below the lowest course must not be more than 0.23 meters (9 inches). Lower courses are not required where all or part of the space below the upper rail is fitted with a bulkwark, chain link fencing, wire mesh, or an equivalent.

(f) A suitable storm rail or hand grab must be installed near any passageway, at a deckhouse side, at a ladder, and a hatch where an individual might have access.

§ 28.815 Bilge pumps, bilge piping, and dewatering systems.

Instead of meeting the requirements of §28.255, each vessel to which this subpart applies must meet the following requirements:

(a) Each vessel must be equipped with a fixed, self priming, powered, bilge pump, having a minimum capacity rating of 50 gallons per minute, connected to a bilge manifold and piping capable of draining any watertight compartment, other than tanks and small buoyancy compartments, under all service conditions. Large spaces, such as engine rooms and cargo holds must be fitted with more than one suction line.

(b) In addition, each vessel must be fitted with a fixed secondary or backup bilge pump having an independent and separate source of power from the pump required in paragraph (a) of this section. One of the bilge pumps may be attached to the propelling engine.

(c) A portable bilge pump may substitute for the secondary pump required above, as long as it meets the following:

(1) It must be self priming and provided with a suitable suction hose of adequate length to reach the bilges of each watertight compartment it must serve and be fitted with a built-in check valve and strainer.

(2) The portable pump must be of at least the same minimum capacity as that listed in paragraph (a) of this section and fitted with a discharge hose of adequate length to ensure overboard discharge from the lowest compartment in which it can serve.

(3) The portable pump must also be capable of being quickly and efficiently attached to the vessel’s fixed bilge suction main and/or discharge piping (such as with “camlocks”, etc.) for alternate emergency use.

(d) Except for suction lines attached to an individual pump provided for a separate space, or for a portable pump, each individual bilge suction line must be provided with a stop valve at the manifold and a check valve at some accessible point in the bilge line to prevent unintended flooding of a space.

(e) Each bilge suction line and dewatering system must be fitted with a suitable strainer to prevent clogging of the suction line. Strainers must have an open area of not less than three times the open area of the suction line.

(f) Except for a fire pump required by 46 CFR §28.820, a bilge pump may be used for other purposes.

(g) Each vessel must comply with the oil pollution prevention requirements of 33 CFR parts 151 and 155.

§ 28.820 Fire pumps, fire mains, fire hydrants, and fire hoses.

(a) Each vessel must be equipped with a self-priming, power driven fire
pump connected to a fixed piping system. This pump must be capable of delivering an effective stream of water from a hose connected to the highest outlet. The minimum capacity of the power fire pump shall be 50 gallons per minute at a pressure of not less than 60 pounds per square inch at the pump outlet.

(1) If multiple pumps are installed, they may be used for other purposes provided at least one pump is kept available for use on the fire system at all times.

(2) In addition, each vessel must be fitted with a portable fire pump having a minimum capacity of that specified in paragraph (a) of this section, capable of producing a stream of water having a throw of at least 12 meters (39.4 feet) from the nozzle, and capable of being connected to National Standard Fire Hose of the size utilized on board the vessel. If a vessel already has on board a portable pump satisfying the bilge system requirements of § 28.760(c), no additional portable pump is required as long as the portable pump is of sufficient size/capacity, and is properly equipped to handle both fire fighting and flood control.

(b) Each vessel must have a sufficient number of fire hydrants to reach any part of the vessel using a single length of hose.

(c) Each fire hydrant must have at least one length of fire hose connected to the outlet at all times, a spanner, and a hose rack or other device for stowing the hose at all times.

(1) All parts of the firemain located on exposed decks shall either be protected against freezing or be fitted with cutout valves and drain valves.

(2) Firehose shall not be used for any other purpose other than fire extinguishing, drills, and testing.

(3) Each length of fire hose must be a minimum of 3.83 centimeters (1½") diameter lined commercial fire hose and be fitted with a nozzle made of corrosion resistant material capable of providing a solid stream and a spray pattern.

§ 28.825 Excess fire detection and protection equipment.

Instead of meeting the requirements of §28.155, each vessel to which this subpart applies must meet the following requirements:

(a) Installation of fire detection and protection equipment in excess of that required by the regulations in this Subchapter is permitted provided that the excess equipment does not endanger the vessel or individuals on board in any way. The excess equipment must, at a minimum, be listed and labeled by an independent, nationally recognized testing laboratory and be in accordance with an appropriate industry standard for design, installation, testing, and maintenance.

(b) An existing fixed gas fire extinguishing system that is in excess of the required fire protection equipment required by subparts A, B, and C of this part, may remain in place and continue in service as long as all parts of the system are maintained in good condition to the satisfaction of the Coast Guard Representative, and subject to the following:

(1) A fixed fire extinguishing system capable of automatic discharge upon heat detection, may only be installed in a normally unoccupied space. For the purpose of this section, the machinery space aboard a fish tender operating in the Aleutian trade is considered occupied.

(2) A fixed fire extinguishing system must:

(i) Be capable of manual actuation from outside the space protected;
(ii) Produce an audible alarm to indicate the discharge of the extinguishing agent for 20 seconds before the extinguishing agent is released into the space;
(iii) The branch line valves of all fire extinguishing systems shall be plainly and permanently marked indicating the spaces serviced;
(iv) The control cabinets or spaces containing valves or manifolds for the various fire extinguishing systems shall be distinctly marked in conspicuous red letters at least 5.08 centimeters (2 inches) high:
``HALON FIRE SYSTEM``
``CARBON DIOXIDE FIRE SYSTEM``
``FOAM FIRE SYSTEM``, as the case may be;
§ 28.830 Fire detection system.

(a) Each accommodation space must be equipped with an independent modular smoke detector or a smoke actuated fire detecting unit installed in accordance with § 76.33 of this chapter.

(b) An independent modular smoke detector must meet UL 217 and be listed as a “Single Station Smoke Detector—Also Suitable for Use in Recreational Vehicles”.

§ 28.835 Fuel systems.

(a) Portable fuel systems including portable tanks and related fuel lines and accessories are prohibited except where used for outboard engines or portable bilge/fire pumps.

(b) Each integral fuel tank must be fitted with a vent pipe connected to the highest point of the tank terminating in a 180 degree (3.14 radians) bend on a weather deck and be fitted with a flame screen.

(c) Test cocks must not be fitted to fuel oil tanks.

(d) Valves for removing water or impurities from diesel fuel oil systems are permitted in the machinery space provided they are away from any potential sources of ignition. Such valves shall be fitted with caps or plugs to prevent leakage.

(e) Oil piping drains, strainers and other equipment subject to normal oil leakage must be fitted with drip pans or other means to prevent oil draining into the bilge.

(f) All nonmetallic filters and strainers must be fitted with a metal shield attached to their base in such a way as to prevent direct flame impingement in the case of a fire.

(g) Shutoff valves shall be installed in the fuel supply piping lines, one as close to each tank as practicable, and one as close to each fuel pump as practicable. Valves shall be accessible at all times.

(h) Fuel oil piping subject to internal head pressure from diesel oil in a tank must be fitted with a positive shutoff valve, installed to close against the flow at the tank. This valve is to be capable of remote actuation from outside the space in which the tank/piping is located, accessible at all times, and suitably marked.

(i) With the exception of paragraph (j) and (k) of this section, fuel piping shall be steel pipe, annealed seamless copper, brass, nickel copper, or copper nickel alloy tubing having a minimum wall thickness of 0.9 millimeters (0.035 inches).

(j) Flexible connections of a short length (no more than 762mm, (30 inches)), suitable metallic or nonmetallic flexible tubing or hose is permitted in the fuel supply line at or near the engine to prevent damage by vibration. If nonmetallic flexible hose is used it must:

1. Not exceed the minimum length allowed for vibration;
2. Be visible, easily accessible, and must not penetrate a watertight bulkhead;
3. Be fabricated with an inner tube and outer-covering of synthetic rubber or other suitable material reinforced with wire braid;
4. Be fitted with suitable, corrosion resistant, compression fittings; and
5. Be installed with two hose clamps at each end of the hose, if designed for use with clamps. Clamps must not rely on spring tension and must be installed beyond the bead or flare or over the serrations of the mating spud, pipe, or hose fitting.

(k) Supply piping that conveys fuel oil or lubricating oil to equipment and is in close proximity of equipment or lines having an open flame or having...
Coast Guard, DOT

§ 28.840 Means for stopping pumps, ventilation, and machinery.

All electrically driven fuel oil transfer pumps, fuel oil unit and service pumps, and ventilation fans shall be fitted with remote controls from a readily accessible position outside of the space concerned so that they may be stopped in the event of fire occurring in the compartment in which they are located. These controls shall be suitably protected against accidental operation or tampering and shall be suitably marked.

§ 28.845 General requirements for electrical systems.

(a) Electrical equipment exposed to the weather or in a location exposed to seas must be waterproof or watertight, or enclosed in a watertight housing.

(b) Aluminum must not be used for current carrying parts of electrical equipment or wiring.

(c) As far as practicable, electrical equipment must not be installed in lockers used to store paint, oil, turpentine, or other flammable or combustible liquids. If electrical equipment, such as lighting, is necessary in these spaces, it must be explosion-proof or intrinsically safe.

(d) Explosion-proof and intrinsically safe equipment must meet the requirements of §111.105 of this chapter.

(e) Metallic enclosures and frames of electrical equipment must be grounded.

§ 28.850 Main source of electrical power.

(a) Applicability: Each vessel that relies on electricity to power any of the following essential loads must have at least two electrical generators to supply:

(1) The propulsion system and its necessary auxiliaries and controls;
(2) Interior lighting;
(3) Steering systems;
(4) Communication systems;
(5) Navigation equipment and navigation lights;
(6) Fire protection or detection equipment;
(7) Bilge pumps; and
(8) General alarm system.

(b) Each generator must be attached to an independent prime mover.

§ 28.855 Electrical distribution systems.

(a) Each electrical distribution system which has a neutral bus or conductor must have the neutral bus or conductor grounded.

(b) A grounded electrical distribution system must have only one connection to ground. This ground connection must be at the switchboard.

§ 28.860 Overcurrent protection and switched circuits.

(a) Each power source must be protected against overcurrent. Overcurrent devices for generators must be set at a value not exceeding 115 percent of the generator’s full load rating.

(b) Except for a steering circuit, each circuit must be protected against both overload and short circuit. Each overcurrent device in a steering system power and control circuit must provide protection only.

(c) Each ungrounded current carrying conductor must be protected in accordance with its current carrying capacity by a circuit breaker or fuse at the connection to the switchboard or distribution panel bus.

(d) Each circuit breaker and each switch must simultaneously open all ungrounded conductors.

(e) The grounded conductor of a circuit must not be disconnected by a switch or an overcurrent device unless all ungrounded conductors of the circuit are simultaneously disconnected.

(f) Navigation light circuits must be separate, switched circuits having fused disconnect switches or circuit breakers so that only the appropriate navigation lights can be switched on.
(g) A separate circuit with overcurrent protection at the main distribution panel or switchboard must be provided for each radio installation.

§ 28.865 Wiring methods and materials.

(a) All cable and wire must have insulated, stranded copper conductors of the appropriate size and voltage rating of the circuit.

(b) Each conductor must be No. 22 AWG or larger. Conductors in power and lighting circuits must be No. 14 AWG or larger. Conductors must be sized so that the voltage drop at the load terminals is not more than 10 percent.

(c) Cable and wiring not serving equipment in high risk fire areas such as a galley, laundry, or machinery space must be routed as far as practicable from these spaces. As far as practicable, cables serving duplicated essential equipment must be separated so that a casualty that affects one cable does not affect the other. Existing cables and wires may remain as routed; however, any replacement wiring, new cabling and/or alterations must be routed as specified above.

(d) No unused or dead ended cables may remain after the permanent removal or alteration of an electrical device.

(e) Cable and wire for power and lighting circuits must:

(1) For circuits of less than 50 volts, meet 33 CFR 183.425 and 183.430; and

(2) For circuits of 50 volts or greater:

(i) Meet section 310-13 and 310-15 of NFPA 70, except that asbestos insulated cable and dry location cable must not be used;

(ii) Be listed by Underwriters Laboratories Inc. as UL Marine Boat or UL Marine Shipboard cable; or

(iii) Meet §111.60 of this chapter.

(f) All metallic cable armor must be electrically continuous and grounded to the metal hull or the common ground point at each end of the cable run, except that final sub-circuits (those supplying loads) may be grounded at the supply end only.

(g) Wiring terminations and connections must be made in a fire retardant enclosure such as a junction box, fixture enclosure, or panel enclosure.

(h) Existing cable and wire may remain in place and continue in use as long as it is deemed serviceable to the satisfaction of the Coast Guard Representative. Any new installation, replacement, modification or alteration must be done in accordance with the requirements of this section.

§ 28.870 Emergency source of electrical power.

(a) The following electrical loads must be connected to an independent emergency source of power capable of supplying all connected loads continuously for at least three hours:

(1) Navigation lights;

(2) Fire protection and detection systems;

(3) Communications equipment;

(4) General alarm system; and

(5) Emergency lighting;

(b) The emergency power source must be aft of the collision bulkhead, outside of the machinery space, and above the uppermost continuous deck.

(c) An emergency source of power supplied solely by storage battery must also meet the following requirements:

(1) Each battery must be a lead-acid or alkaline type and be able to withstand vessel pitch, vibration, roll, and exposure to a salt water atmosphere;

(2) A battery cell must not spill electrolyte when the battery is inclined at 30 degrees from the vertical;

(3) Each battery installation must be in a battery room, in a box on deck, or in a well ventilated compartment. The batteries must be protected from falling objects;

(4) Each battery tray must be secured to prevent shifting with the roll and pitch of the vessel and lined with a material that is corrosion resistant to the electrolyte of the battery;

(5) Each battery bank installation must be fitted with its own drip-proof charging system; and

(6) Each deck box used for battery storage must be weathertight, and have holes near the top to allow gas to escape.

§ 28.875 Radar, depth sounding, and auto-pilot.

(a) Each vessel must be fitted with a general marine radar system for surface navigation with a radar screen.
Coast Guard, DOT § 28.885

mounted at the operating station, and facilities on the bridge for plotting radar readings.

(b) Each vessel must be fitted with a suitable echo depth sounding device.

(c) Except as provided in 33 CFR § 164.15, when the automatic pilot is used in areas of high traffic density, conditions of restricted visibility, and all other hazardous navigational situations, the master or person in charge shall ensure that:

(1) It is possible to immediately establish manual control of the unit’s steering:

(2) A competent person is ready at all times to take over steering control; and

(3) The changeover from automatic to manual steering and vice versa is made by, or under the supervision of, the officer of the watch.

§ 28.880 Hydraulic equipment.

(a) Each hydraulic system must be so designed and installed that proper operation of the system is not affected by back pressure in the system.

(b) Piping and piping components must be designed with a burst pressure of not less than four times the system’s maximum operating pressure.

(c) Each hydraulic system must be equipped with at least one pressure relieving device set to relieve at the system’s maximum operating pressure.

(d) All material in a hydraulic system must be suitable for use with the hydraulic fluid used and must be of such chemical and physical properties as to remain ductile at the lowest operating temperature likely to be encountered by the vessel.

(e) Except for hydraulic steering equipment, controls for operating hydraulic equipment must be located where the operator has an unobstructed view of the controls for operating hydraulic equipment and the adjacent work area. Protection shall be afforded to the operator of hydraulic equipment against falling or swinging objects and/or cargo.

(f) Controls for hydraulic equipment must be so arranged that the operator is able to quickly disengage the equipment in an emergency.

(g) Hydraulically operated machinery must be fail-safe or equipped with a holding device to prevent uncontrolled movement or sudden loss of control due to loss of hydraulic system pressure. A system is considered to be fail-safe if a component failure results in a slow and controlled release of the load so as not to endanger personnel.

(h) Nonmetallic flexible hose assemblies must only be used between two points of relative motion, limited to the least amount of length that will afford maximum multidirectional movement of the equipment served.

(i) Hose end fittings must comply with SAE J 1475, (Hydraulic Hose Fittings For Marine Applications). Field attachable fittings must be installed following the manufacturer’s recommended practice (method).

(j) Nonmetallic flexible hose shall be marked with the manufacturer’s name or trademark, type or catalog number and maximum allowable working pressure.

(k) Existing hydraulic piping, nonmetallic hose assemblies, and components may be continued in service so long as they are maintained in good condition to the satisfaction of the Coast Guard Representative, but all new installations, or replacements shall meet the applicable specifications or requirements of this section.

§ 28.885 Cargo gear.

(a) The safe working load (SWL) for the assembled gear shall be marked on the heel of each cargo boom, crane, or derrick. These letters and figures are to be in contrasting colors to the background and at least one inch in height. The SWL is construed to be the load the gear is approved to lift, excluding the weight of the gear itself.

(b) All wire rope, chains, rings, hooks, links, shackles, swivels, blocks, and any other loose gear used or intended to be used in cargo loading or unloading must be commensurable with the SWL rating in paragraph (a) of this section. This gear shall be visually inspected by the vessel’s captain or his designee at frequent intervals, and in any event not less than once in each operating month.

(c) In addition to the inspection required in paragraph (b) of this section, a biennial, (every second year), thorough examination and proof load test,
§ 28.890 Examination and certification of compliance.

(a) At least once in every two years each ATA vessel must be examined for compliance with the regulations of this subchapter by the ABS, a similarly qualified organization, or a surveyor of an accepted organization.

(b) Each individual performing an examination under paragraph (a) of this section, upon finding the vessel to be in compliance with the requirements of this chapter, must provide written certification of compliance to the owner or operator of the vessel.

(c) Each certification of compliance issued under paragraph (b) of this section must:

1. Be signed by the individual that performed the examination;
2. Include the name of the organization the individual performing the examination represents or the name of the accepted organization the individual belongs to; and
3. State that the vessel has been examined and found to meet the specific requirements of this chapter.

(d) A certification of compliance issued under paragraph (b) of this section must be retained on board the vessel until superseded.

(e) A copy of the certification of compliance issued under paragraph (b) of this section must be forwarded by the organization under whose authority the examination was performed to the Coast Guard District Commander (Attention: Fishing Vessel Safety Coordinator) in charge of the district in which the examination took place.

§ 28.895 Loadlines.

(a) A fish tender vessel of not more than 500 gross tons, engaged in the Aleutian trade, is not subject to the loadline provisions of 46 U.S.C. Chapter 51 if it is not on a foreign voyage and the vessel:

1. Operated in this trade before September 8, 1990;
2. Was purchased to be used in this trade before September 8, 1990 and entered into service before June 1, 1992; and
3. Has not undergone a major conversion; and
4. Has not had a loadline assigned at any time before November 16, 1990.

(b) The exemption from the loadline provision of 46 U.S.C. Chapter 51 set forth in paragraph (a) of this section expires on January 1, 2003.

§ 28.900 Post accident inspection.

The requirements for providing notice and reporting of marine casualties are contained in part 4 of this chapter. The owner of or master of the vessel shall ensure that the survey guidance provided by a Coast Guard Representative is effectively carried out, that the material and the workmanship of such repairs or renewals are in all respects satisfactory, and that the vessel complies in all respects with the regulations in this part.

§ 28.905 Repairs and alterations.

No repairs or alterations affecting the safety of the vessel with regard to the hull, machinery, or equipment, shall be made without the notification of a Coast Guard Representative.
INDEX

SUBCHAPTER C—UNINSPECTED VESSELS

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Transportation.

Part, subpart, or section

A
Accidents, action required after ................................................................. 26.03-5
Alarms:
   General .......................................................................................................... 28.240
   High water ..................................................................................................... 28.250
Anchors ............................................................................................................ 28.235
Application of regulations .................................................. 28.30, 28.100, 28.200, 28.300, 28.500, 28.700
Approved, definition .................................................................................. 24.10-1
Approved equipment & material ................................................................. 28.70
Assignment of functions ............................................................................. 24.01-5
Authority for regulations ......................................................................... 28.10

B
Backfire flame control ............................................................................. 25.35
Barge, definition .......................................................................................... 24.10-2
Bilge pumps .................................................................................................. 28.255
Boarding ......................................................................................................... 26.15
Boiler inspection .......................................................................................... 24.20-1

C
Canadian pleasure craft temporarily using navigable waters of the United States .................................................. 24.15-5
Carburetor backfire flame arrester (See Flame arrester) ..................... 25.35
Carrying freight for hire, definition ........................................................... 24.10-5
Carrying passengers for hire, definition .................................................... 24.10-3
Coast Guard District Commander, definition ......................................... 24.10-9
Commandant, definition ........................................................................... 24.10-7
Communication equipment ........................................................................ 28.245, 28.375
Compasses ...................................................................................................... 28.230
Cushion, buoyant (see Life preserver) .......................................................... 28.190

D
Deck rails ....................................................................................................... 28.410
Definition of terms ....................................................................................... 24.10, 28.50
Depth-sounding device .............................................................................. 28.400
Distress Signals ............................................................................................ 28.145
Drills and instruction .................................................................................. 28.270

E
Electrical power:
   Distribution system .................................................................................. 28.360
Emergency source .........................................................................................28.375
General requirements ....................................................................................28.350
Main source ...................................................................................................28.355
Overcurrent protection ..................................................................................28.365
Standards for vessels less than 79 ft ..............................................................28.345
Wiring methods and materials ......................................................................28.370
Electronic position fixing devices ................................................................28.260
Embarkation station .....................................................................................28.305
Emergency checkoff list .................................................................................26.03-2
Emergency instructions .................................................................................28.265
EPIRBs .........................................................................................................25.26, 28.150
Equivalents ....................................................................................................24.15
Escape, means of ..........................................................................................28.390

F

Fire detection systems ....................................................................................28.325
Fines and penalties ........................................................................................26.10
Fireman's outfit ..............................................................................................28.205
Fire protection equipment:
  Application ..................................................................................................25.30-1
  Galley hood ..................................................................................................28.330
  General provisions .......................................................................................25.30-5, 28.160
  Excess equipment ........................................................................................28.155
  Portable fire extinguishers .........................................................................25.30-10, 28.160
Fire pumps .....................................................................................................28.315
First aid equipment and training ..................................................................28.210
Fixed fire extinguishing system:
  Approved type required ............................................................................25.30-5
  Details ..........................................................................................................25.30-15, 28.320
  Special provisions when installed ..............................................................25.30-20
Flame arrester:
  Required ......................................................................................................25.35
Freight, carrying for hire, definition .............................................................24.10-5
Fuel systems ..................................................................................................28.335

G

General alarm ...............................................................................................28.240
Guards for exposed hazards ..........................................................................28.215

H

Hand portable fire extinguisher:
  Approved type required ............................................................................25.30-5, 28.70
  Classification ...............................................................................................25.30-10
  Number required ........................................................................................25.30-20, 28.160
Headquarters, definition ................................................................................24.10-11
Hydraulic equipment .....................................................................................28.405

I

International voyage:
  Requirement for vessels on .......................................................................24.05
  Definition ...................................................................................................24.10-13
Instructions and drills ....................................................................................28.270
Immersions suits ...........................................................................................25.25, 28.110
Injury placard ...............................................................................................28.165
## Subchapter C Index

### L

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifelines</td>
<td>28.410</td>
</tr>
<tr>
<td>Life preserver:</td>
<td></td>
</tr>
<tr>
<td>Approved type required</td>
<td>25.25-5, 28.105</td>
</tr>
<tr>
<td>Condition</td>
<td>25.25-11</td>
</tr>
<tr>
<td>Marking</td>
<td>25.25-7, 28.135</td>
</tr>
<tr>
<td>Number required</td>
<td>25.25-5, 28.110</td>
</tr>
<tr>
<td>Storage</td>
<td>25.25-9, 28.110(b)</td>
</tr>
<tr>
<td>Lifesaving equipment:</td>
<td></td>
</tr>
<tr>
<td>General requirements</td>
<td>25.25, 28.105, 28.305</td>
</tr>
<tr>
<td>Maintenance</td>
<td>28.140</td>
</tr>
<tr>
<td>Markings</td>
<td>25.25, 28.135</td>
</tr>
</tbody>
</table>

### M

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machinery space, ventilation of</td>
<td>25.40, 28.340</td>
</tr>
<tr>
<td>Marine engineering requirements</td>
<td>24.20-1</td>
</tr>
<tr>
<td>Marine inspector, definition</td>
<td>24.10-15</td>
</tr>
<tr>
<td>Motorboat:</td>
<td></td>
</tr>
<tr>
<td>Definition</td>
<td>24.10-17</td>
</tr>
<tr>
<td>Included under term vessel</td>
<td>24.10-17</td>
</tr>
<tr>
<td>Motor vessel, definition</td>
<td>24.10-19</td>
</tr>
</tbody>
</table>

### N

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navigation:</td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td>28.225</td>
</tr>
</tbody>
</table>

### O

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oceanographic vessel, definition</td>
<td>24.10-20</td>
</tr>
<tr>
<td>Officer in Charge, Marine Inspection, definition</td>
<td>24.10-21</td>
</tr>
<tr>
<td>Operator's license, exhibition of</td>
<td>26.20</td>
</tr>
</tbody>
</table>

### P

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger:</td>
<td></td>
</tr>
<tr>
<td>Carrying for hire, definition</td>
<td>24.10-3</td>
</tr>
<tr>
<td>Definition</td>
<td>24.10-23</td>
</tr>
</tbody>
</table>

### R

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radar equipment</td>
<td>28.400</td>
</tr>
<tr>
<td>Radar reflectors</td>
<td>28.235</td>
</tr>
<tr>
<td>Regulations:</td>
<td></td>
</tr>
<tr>
<td>Authority for and purpose</td>
<td>24.01, 28.10</td>
</tr>
<tr>
<td>Ring Life Buoy</td>
<td>25.25-5(d), 28.115</td>
</tr>
</tbody>
</table>

### S

<table>
<thead>
<tr>
<th>Term</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety orientation</td>
<td>26.03-1, 28.270</td>
</tr>
<tr>
<td>Self contained breathing apparatus</td>
<td>28.205</td>
</tr>
<tr>
<td>Semiportable fire extinguishing system:</td>
<td></td>
</tr>
<tr>
<td>Approved type required</td>
<td>25.30-5</td>
</tr>
<tr>
<td>Classification</td>
<td>25.30-10</td>
</tr>
<tr>
<td>Number required</td>
<td>25.30-20, 28.160</td>
</tr>
<tr>
<td>Signaling equipment</td>
<td>28.305</td>
</tr>
<tr>
<td>Signaling lights</td>
<td>26.03-10</td>
</tr>
<tr>
<td>Special operating requirements</td>
<td>26.03</td>
</tr>
<tr>
<td>Stability instructions</td>
<td>28.530</td>
</tr>
</tbody>
</table>
Storm rails ............................................................................................................... 28.410
Structural fire protection:
  General .............................................................................................................. 28.380
  Vessels with more than 49 persons ............................................................... 28.385
Survival Craft Equipment ..................................................................................... 28.130
Launching .............................................................................................................. 28.310
Stowage ............................................................................................................... 28.125
Type and number required .................................................................................. 28.120

Tank space, ventilation of ................................................................................... 25.40-1, 28.340

V

Ventilation of tanks and engine space ................................................................. 25.40-1, 28.340
Vessel, definition .................................................................................................. 24.10-27
Vest, work ............................................................................................................ 26.30
Approved unicellular plastic foam ..................................................................... 26.30-1
Stowage ............................................................................................................... 26.30-10
Use ....................................................................................................................... 26.30-5
Violations, procedures for .................................................................................. 26.10-5
PART 30—GENERAL PROVISIONS

NOTE: Parts 151 through 157 in 33 CFR sub-
chapter O contain additional design, equip-
ment, and operations requirements relating
to pollution prevention for vessels that carry oil.

Subpart 30.01—Administration

Sec.
30.01-1 Purpose of regulations.
30.01-2 OMB control numbers assigned pur-
suant to the Paperwork Reduction Act.
30.01-5 Application of regulations—TB/ALL.
30.01-6 Application to vessels on an inter-
national voyage.
30.01-7 Ocean or unlimited coastwise vessels
on inland and Great Lakes Routes—TB/ OC.
30.01-10 Application of regulations gov-
erning alterations or repairs—TB/ALL.
30.01-15 Effective date of regulations—TB/ ALL.

Subpart 30.10—Definitions

30.10-1 Definition of terms—TB/ALL.
30.10-2 Accommodation space—TB/ALL.
30.10-3 Approved—TB/ALL.
30.10-5 Cargo—TB/ALL.
30.10-5a Cargo area—TB/ALL.
30.10-5b Cargo control station—TB/ALL.
30.10-6 Cargo handling room—TB/ALL.
30.10-6a Category A machinery space—TB/ ALL.
30.10-7 Certificated—TB/ALL.
30.10-9 Classification requirements—TB/ ALL.
30.10-11 Coastwise—TB/C.
30.10-13 Cofferdam—TB/ALL.
30.10-14 Combination carrier—TB/ALL.
30.10-15 Combustible liquid—TB/ALL.
30.10-17 Commandant—TB/ALL.
30.10-19 Coast Guard District Commander—
TB/ALL.
30.10-19a Control space—TB/ALL.
30.10-20 Deadweight or DWT—TB/ALL.
30.10-21 Flammable or inflammable—TB/ ALL.
30.10-22 Flammable liquid—TB/ALL.
30.10-23 Flame arrester—TB/ALL.
30.10-25 Flame screen—TB/ALL.
30.10-27 Flashpoint—TB/ALL.
30.10-29 Gas free—TB/ALL.
30.10-31 General rules and regulations—TB/ ALL.
30.10-33 Great Lakes—TB/L.
30.10-35 Headquarters—TB/ALL.
30.10-37 Keel laying date—TB/ALL.
30.10-38 Lightweight—TB/ALL.
30.10-39 Liquefied flammable gas—TB/ALL.
30.10-41 Lakes, bays, and sounds—TB/B.
30.10-42 Machinery space—TB/ALL.
30.10-43 Marine inspector or inspector—TB/ ALL.
30.10-45 Ocean—TB/O.
30.10-47 Officer in Charge, Marine Inspec-
tion—TB/ALL.
30.10-48 Oil fuel—TB/ALL.
30.10-48a Oil fuel unit—TB/ALL.
30.10-49 Permit—TB/ALL.
30.10-50 Pilot boarding equipment and point
of access.
30.10-55 Pressure vacuum relief valve—TB/
ALL.
30.10-57 Recognized classification society—
TB/ALL.
30.10-59 Reid vapor pressure—TB/ALL.
30.10-61 Rivers—TB/R.
30.10-62 Self-propelled tank vessel—TB/
ALL.
30.10-62a Service spaces—TB/ALL.
30.10-63 Spark arrester—TB/ALL.
30.10-65 Tank barge—B/ALL.
30.10-67 Tankship—T/ALL.
30.10-69 Tank vessel—TB/ALL.
30.10-71 Tankerman—B/ALL.

Subpart 30.15—Equivalents

30.15-1 Conditions under which equivalents
may be used—TB/ALL.

Subpart 30.25—Commodities Regulated

30.25-1 Cargoes carried in vessels certifi-
cated under the rules of this subchapter.
30.25-3 Benzene.

Subpart 30.30—Interim Procedures for Eval-
uating Vessel Personnel Licensing and
Certification Programs of Foreign
Countries

30.30-1 Scope and purpose.
30.30-3 Evaluation materials.
30.30-5 Submission of evaluation materials.
30.30-7 Availability of materials.
30.30-9 Evaluation.
30.30-11 Determinations.

AUTHORITY: 46 U.S.C. 2103, 3306, 3703; 49
U.S.C. 5103, 5106; 49 CFR 1.45, 1.46; Section
30.01-2 also issued under the authority of 44
U.S.C. 3507; Section 30.01-5 also issued under
the authority of Sec. 4109, Pub. L. 101-380, 104
Stat. 515.

SOURCE: CGFR 65-50, 30 FR 16657, Dec. 30,
1965, unless otherwise noted.
§ 30.01–1 Purpose of regulations.

(a) The rules and regulations in this subchapter are prescribed for all tank vessels in accordance with the intent of the various statutes administered by the Coast Guard and to provide for a correct and uniform administration of the vessel inspection requirements applicable to tank vessels.

[CGFR 68–32, 33 FR 5712, Apr. 12, 1968]

§ 30.01–2 OMB control numbers assigned pursuant to the Paperwork Reduction Act.

(a) Purpose. This section collects and displays the control numbers assigned to information collection and record-keeping requirements in this subchapter by the Office of Management and Budget (OMB) pursuant to the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.). The Coast Guard intends that this section comply with the requirements of 44 U.S.C. 3507(f) which requires that agencies display a current control number assigned by the Director of the OMB for each approved agency information collection requirement.

(b) Display.

<table>
<thead>
<tr>
<th>46 CFR part or section where identified or described</th>
<th>Current OMB control No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 31.10–5(a) .......................................................</td>
<td>2115–0131</td>
</tr>
<tr>
<td>§ 31.10–21 .........................................................</td>
<td>2115–0554</td>
</tr>
<tr>
<td>§ 31.10–22 .........................................................</td>
<td>2115–0554</td>
</tr>
<tr>
<td>§ 31.10–32 .........................................................</td>
<td>2115–0131</td>
</tr>
<tr>
<td>§ 31.10–33 .........................................................</td>
<td>2115–0131</td>
</tr>
<tr>
<td>§ 31.37–15 .........................................................</td>
<td>2115–0131</td>
</tr>
<tr>
<td>§ 31.40–35 .........................................................</td>
<td>2115–0506</td>
</tr>
<tr>
<td>§ 32.53–85 .........................................................</td>
<td>2115–0506</td>
</tr>
<tr>
<td>§ 35.20–7 .........................................................</td>
<td>2115–0505</td>
</tr>
<tr>
<td>§ 35.25–30 .........................................................</td>
<td>2115–0505</td>
</tr>
<tr>
<td>§ 39.10–13 .........................................................</td>
<td>2115–0505</td>
</tr>
</tbody>
</table>

[49 FR 38120, Sept. 27, 1984, as amended by CGD 89–037, 57 FR 41821, Sept. 11, 1992]

§ 30.01–5 Application of regulations—TB/ALL.

NOTE: 33 CFR subchapter O (parts 151 through 157) contains additional design, equipment, and operations requirements relating to pollution prevention for vessels that carry oil.

(a) The regulations in this subchapter contain requirements for materials, design, construction, inspection, manning, and operation of tank vessels, including handling and stowage of cargo and duties of officers and crew. However, vessels certificated as passenger, cargo, and miscellaneous vessels, whose principal purpose or use is not the carriage of flammable or combustible liquid cargo in bulk, may be granted a permit to carry limited quantities of flammable or combustible liquid cargo in bulk in the grades indicated:

(1) Passenger vessels:
   (i) Grade E in an integral tank; and
   (ii) Grade E in a portable tank, including a marine portable tank (MPT), in accordance with subpart 98.30 or 98.33 of this chapter.

(2) Cargo vessels:
   (i) Grades D and E in an integral tank; and
   (ii) Grades D and E and certain specifically named Grade C in a portable tank, including an MPT, in accordance with subpart 98.30 or 98.33 of this chapter.

(3) Miscellaneous vessels, such as cable, salvage, pile-driving and oil-drilling-rig vessels:
   (i) Grades B, C, D, and E in a fixed independent or integral tank authorized by the Commandant; and
   (ii) Grades D and E and certain specifically named Grade C in a portable tank, including an MPT, in accordance with subpart 98.30 or 98.33 of this chapter.

(b) [Reserved]

(c) The vessels and services to which each regulation applies are indicated by letters in the heading of the section or paragraph. The first letter or two letters indicate the type of vessel and the letter or letters following the oblique line indicate the waters in which such vessels may operate. These letters are described as follows:

   (1) “T” signifies a tankship.
   (2) “B” signifies a tank barge when it precedes an oblique line; or it signifies service on bays, sounds, and lakes other than the Great Lakes when it follows an oblique line.
   (3) “ALL” signifies service on all waters.
   (4) “O” signifies service on ocean waters.
   (5) “C” signifies services on coastwise waters.
§ 30.01–5

(6) “L” signifies service on Great Lakes waters.
(7) “R” signifies service on river waters.
(d) This subchapter shall be applicable to all United States flag vessels indicated in Column 3 of Table 30.01–5(d), except as follows:

(1) Any vessel operating exclusively on inland waters which are not navigable waters of the United States.
(2) Any vessel while laid up and dismantled and out of commission.
(3) With the exception of vessels of the U.S. Maritime Administration, any vessel with title vested in the United States and which is used for public purposes.
### TABLE 30.01–5(D)

<table>
<thead>
<tr>
<th>Method of propulsion</th>
<th>Size or other limitations</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
<th>Column 4</th>
<th>Column 5</th>
<th>Column 6</th>
<th>Column 7</th>
<th>Column 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam</td>
<td>Vessels not over 65 feet in length.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.</td>
<td>All tugboats and towboats.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>None</td>
<td>All vessels carrying in bulk the cargoes listed in Table I of Pt. 153 and Table 4 of Pt. 154.</td>
<td>Do.</td>
<td></td>
</tr>
</tbody>
</table>

1. **Vessels inspected and certified under subchapter D—Tank Vessels**
2. **Vessels inspected and certified under subchapter H—Passenger Vessels**
3. **Vessels subject to provisions of subchapter G—Uninspected Vessels**
4. **Vessels subject to provisions of subchapter U—Oceangoing Vessels**
5. **Vessels subject to the provisions of subchapter O—Certain Bulk Dangerous Cargoes**
<table>
<thead>
<tr>
<th>Motor</th>
<th>Vessels not over 15 gross tons.</th>
<th>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</th>
<th>Vessels carrying combustible or flammable liquid cargo in bulk.</th>
<th>Vessels carrying more than 6 passengers.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>c. Towing and fishing vessels, in other than ocean and coastwise service, may carry persons on the legitimate business of the vessel, in addition to crew, but not to exceed one for each net ton of the vessel.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying more than 6 passengers.⁷</td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171–179.</td>
</tr>
<tr>
<td></td>
<td>Motor ...........................</td>
<td>Vessels not over 15 gross tons.</td>
<td>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
</tr>
<tr>
<td></td>
<td>Vessels over 15 gross tons except seagoing motor vessels of 300 gross tons and over.</td>
<td>Vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>Vessels carrying more than 6 passengers.⁷</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
</tr>
<tr>
<td></td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>None ........................</td>
</tr>
<tr>
<td></td>
<td>2. All vessels not over 65 feet in length which carry more than 6 passengers.⁷</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>None ........................</td>
</tr>
<tr>
<td></td>
<td>3. All other vessels of over 65 feet in length carrying passengers for hire except documented cargo or tank vessels issued a permit to carry not more than 16 persons in addition to the crew.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
<td>All vessels carrying in bulk the cargoes listed in Table I of Pt. 153 and Table 4 of Pt. 154.</td>
</tr>
<tr>
<td>Method of propulsion</td>
<td>Column 1</td>
<td>Column 2</td>
<td>Column 3</td>
<td>Column 4</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.(^5)</td>
<td>Seagoing motor vessels of 300 gross tons and over.</td>
<td>1. All vessels carrying more than 12 passengers on an international voyage, except yachts.</td>
<td>1. All vessels covered by columns 3 and 4, and those engaged in the fishing, oystering, clamming, crabbing, or any other branch of the fishing, herring, or sponge industry.</td>
<td>All vessels except those covered by columns 3, 4, 5, and 7.</td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter D—Tank Vessels.(^5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter H—Passenger Vessels.(^5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter T—Small Passenger Vessels.(^5)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter I—Cargo and Miscellaneous Vessels.(^5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter U—Oceanographic Vessels.(^5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vessels inspected and certificated under subchapter O—Certain Bulk Dangerous Cargoes.(^5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Classes of vessels (including motorboats) examined or inspected under various Coast Guard regulations.

\(^2\) Vessels inspected and certificated under subchapter D—Tank Vessels.

\(^3\) Vessels inspected and certificated under subchapter H—Passenger Vessels.

\(^4\) Vessels inspected and certificated under subchapter T—Small Passenger Vessels.

\(^5\) Vessels inspected and certificated under subchapter I—Cargo and Miscellaneous Vessels.

\(^6\) Vessels inspected and certificated under subchapter U—Oceanographic Vessels.

\(^7\) Vessels inspected and certificated under subchapter O—Certain Bulk Dangerous Cargoes.
<table>
<thead>
<tr>
<th>Sail</th>
<th>Vessels not over 700 gross tons.</th>
<th>All vessels carrying combustible or flammable liquid cargo in bulk.</th>
<th>All vessels carrying more than 6 passengers.</th>
<th>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171–179.</th>
<th>None</th>
<th>None</th>
<th>Do.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vessels over 700 gross tons.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All vessels carrying passengers for hire.</td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR part 98 or 49 CFR parts 171–179.</td>
<td>None</td>
<td>None</td>
<td>Do.</td>
<td></td>
</tr>
<tr>
<td>Non-self-propelled</td>
<td>Vessels less than 100 gross tons.</td>
<td>All vessels carrying combustible or liquid cargo in bulk.</td>
<td>Those vessels carrying dangerous cargoes when required by 49 CFR parts 171–179.</td>
<td>Those vessels carrying dangerous cargoes when required by 46 CFR parts 171–179.</td>
<td>None</td>
<td>None</td>
<td>Do.</td>
</tr>
<tr>
<td>Vessels 100 gross tons or over.</td>
<td>All vessels carrying combustible or flammable liquid cargo in bulk.</td>
<td>All seagoing barges except those covered by columns 3 and 4; and those inland barges carrying dangerous cargoes when required by 49 CFR parts 171–179.</td>
<td>All seagoing barges except those covered by columns 3 and 4; and those inland barges carrying dangerous cargoes when required by 46 CFR parts 171–179.</td>
<td>All barges carrying passengers except those covered by column 4.</td>
<td>None</td>
<td>Any tank barges carrying in bulk the cargoes listed in Table 151.05 of this chapter.</td>
<td></td>
</tr>
</tbody>
</table>

1 Where length is used in this table it means the length measured from end to end over the deck, excluding sheer. This expression means a straight line measurement of the overall length from the foremost part of the vessel to the aftermost part of the vessel, measured parallel to the centerline.

2 Subchapters E (Load Lines), F (Marine Engineering), J (Electrical Engineering), and N (Dangerous Cargoes) of this chapter may also be applicable under certain conditions. The provisions of 49 CFR parts 171–179 apply whenever hazardous materials are on board vessels (including motorboats), except when specifically exempted by law.

3 Public nautical schools, other than vessels of the Navy and Coast Guard, shall meet the requirements of part 167 of subchapter R (Nautical Schools) of this chapter. Civilian nautical schools, as defined by 46 U.S.C. 1331, shall meet the requirements of subchapter H (Nautical Schools) of this chapter.

4 Subchapter H (Passenger Vessels) of this chapter covers only those vessels of 100 gross tons or more. Subchapter T (Small Passenger Vessels) of this chapter covers only those vessels of less than 100 gross tons.

5 Vessels covered by subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter, where the principal purpose or use of the vessel is not for the carriage of liquid cargo, may be granted a permit to carry a limited amount of flammable or combustible liquid cargo in bulk. The portion of the vessel used for the carriage of the flammable or combustible liquid cargo shall meet the requirements of subchapter D (Tank Vessels) in addition to the requirements of subchapter H (Passenger Vessels) or I (Cargo and Miscellaneous Vessels) of this chapter.

6 Any vessel on an international voyage is subject to the requirements of the International Convention for the Safety of Life at Sea, 1974.

7 The meaning of the term "passenger" is as defined in the Act of May 10, 1956 (Sec. 1, 70 Stat. 151; 46 U.S.C. 390). On oceanographic vessels scientific personnel on board shall not be deemed to be passengers or seamen, but for calculations of lifesaving equipment, etc., shall be counted as persons.

8 Boilers and machinery are subject to examination on vessels over 40 feet in length.

9 Under 46 U.S.C. 441, an oceanographic research vessel is a vessel "**" being employed exclusively in instruction in oceanography or limnology, or both, or exclusively in oceanographic research. ** Under 46 U.S.C. 443, "an oceanographic research vessel shall not be deemed to be engaged in trade or commerce. ** If or when an oceanographic vessel engages in trade or commerce, such vessel cannot operate under its certificate of inspection as an oceanographic vessel, but shall be inspected and certificated for the service in which engaged, and the scientific personnel aboard then become persons employed in the business of the vessel.

10 Bulk dangerous cargoes are cargoes specified in Table 151.01–10(b) in Table 1 of part 153 of this chapter.

11 For manned tank barges see §51.01–10(a) of this chapter.
§ 30.01–6 46 CFR Ch. I (10–1–99 Edition)

(e) This subchapter shall be applicable to all foreign flag vessels carrying combustible or flammable liquid cargo in bulk while in the navigable waters over which the United States has jurisdiction, except that:

1. A vessel of a foreign nation signatory to the International Convention for Safety of Life at Sea, 1974, which has on board a current valid Safety Equipment Certificate, or a vessel of a foreign nation having inspection laws approximating those of the United States, together with reciprocal inspection arrangements with the United States and which has on board a current valid certificate of inspection issued by its government under such arrangements, in either case, shall be subject only to the requirements of § 35.01–1 and the safety and cargo handling requirements in subparts 35.30 and 35.35 of this subchapter. In addition, these vessels shall report marine casualties occurring while they are in the navigable waters of the United States as required by subpart 35.15.

2. A foreign flag vessel, except a public vessel, which operates on or enters the navigable waters of the United States, or which transfers oil in any port or place subject to the jurisdiction of the United States, must comply with the provisions of §31.10–21a and subparts 32.53, 32.59 and 34.05 of this chapter, as applicable.

(f) Notwithstanding the exceptions previously noted in paragraph (e) of this section, foreign vessels of novel design or construction, or whose operation involves potential unusual risks, shall be subject to inspection to the extent necessary to safeguard life and property in United States ports, as further provided by §2.01–13 of subchapter A (Procedures applicable to the Public) of this chapter.

(g) Manned barges carrying any of the cargoes listed in Table 30.25–1 will be considered individually by the Commandant and may be required to comply with the requirements of subchapter O of this chapter, as applicable, as well as the requirements of this subchapter.

(h) Subpart 30.30 contains procedures for evaluating vessel personnel licensing and certification programs of foreign countries which license or certify personnel serving on tank vessels that enter or operate in U.S. navigable waters and ports.

Editorial Note: For Federal Register citations affecting §30.01–5, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 30.01–6 Application to vessels on an international voyage.

(a) Except as provided in paragraphs (b), (c), and (d) of this section, the regulations in this subchapter that apply to a vessel on an international voyage apply to a vessel that:

1. Is mechanically propelled and of at least 500 gross tons; and

2. Is engaged on a voyage:

(i) From a country to which the International Convention for Safety of Life at Sea, 1974 (SOLAS 74) applies, to a port outside that country or the reverse;

(ii) From any territory, including the Commonwealth of Puerto Rico, all possessions of the United States, and all lands held by the United States under a protectorate or mandate, whose international relations are the responsibility of a contracting SOLAS 74 government, or which is administered by the United Nations, to a port outside that territory or the reverse;

(b) The regulations that apply to a vessel on an international voyage in this subchapter do not apply to ships engaged on a voyage solely on the Great Lakes and the St. Lawrence River as far east as a straight line drawn from Cap des Rosiers to West Point, Anticosti Island and, on the north side of Anticosti Island, the 63rd Meridian;

(c) The Commandant or his authorized representative may exempt any vessel on an international voyage from the requirements of this subchapter if the vessel:

1. Makes a single international voyage in exceptional circumstances; and

2. Meets safety requirements prescribed for the voyage by the Commandant.

(d) The Commandant or his authorized representative may exempt any vessel from the construction requirements of this subchapter if the vessel does not proceed more than 20 nautical
§ 30.01–7 Ocean or unlimited coastwise vessels on inland and Great Lakes Routes—TB/OC.

(a) Vessels inspected and certificated for ocean or unlimited coastwise routes shall be considered suitable for navigation insofar as the provisions of this subchapter are concerned on any inland route, including the Great Lakes.

§ 30.01–10 Application of regulations governing alterations or repairs—TB/ALL.

When major alterations or major repairs of tank vessels become necessary the work shall be done under the direction of the Officer in Charge, Marine Inspection, and shall be in accordance with the regulations in effect for new construction insofar as possible. When minor alterations or minor repairs of tank vessels become necessary such work shall be under the direction of the Officer in Charge, Marine Inspection, and shall be in accordance with the regulations in effect at the time the vessel was contracted for or built, or in accordance with the regulations in effect for new construction insofar as possible.

§ 30.01–15 Effective date of regulations—TB/ALL.

The regulations in this subchapter are not retroactive in effect unless specifically made so at the time the regulations are issued. Changes in specification requirements of articles of equipment, or materials used in construction of tank vessels, shall not apply to such items which have been passed as satisfactory until replacement shall become necessary, unless a specific finding is made that such equipment or material used is unsafe or hazardous and has to be removed from tank vessels.


Subpart 30.10—Definitions

§ 30.10–1 Definition of terms—TB/ALL.

Certain terms used in the regulations in this subchapter are defined in this subpart.

§ 30.10–2 Accommodation space—TB/ALL.

The term accommodation space means any public space such as a hall, dining room, mess room, lounge, corridor, lavatory, cabin, office, hospital, cinema, game and hobby room, pantry that contains no cooking appliances, and a similar space open to the passengers and crew.

§ 30.10–3 Approved—TB/ALL.

The term approved means approved by the Commandant unless otherwise stated.

§ 30.10–5 Cargo—TB/ALL.

The term cargo means combustible liquid, flammable liquid, or liquefied flammable gas unless otherwise stated.

§ 30.10–5a Cargo area—TB/ALL.

The term cargo area means that part of a vessel that includes the cargo tanks and other tanks into which cargo or cargo vapors are intentionally introduced, holds containing these tanks, all intervening space within, between, below, or outboard of these tanks or holds, and the deck area over the length and beam of the vessel above these tanks, holds, or spaces.

§ 30.10–5b Cargo control station—TB/ALL.

The term cargo control station means a location that is manned during cargo transfer operations for the purpose of directing or controlling the loading or unloading of cargo.

§ 30.10–6 Cargo handling room—TB/ALL.

The term cargo handling room means any enclosed space where cargo is pumped, compressed, or processed. Examples of cargo handling rooms are
§ 30.10–6a Category A machinery space—TB/ALL.

The term Category A machinery space means any space and trunks and ducts to such a space that contains:

(a) Internal combustion machinery used for main propulsion;
(b) Internal combustion machinery used for purposes other than main propulsion where the total aggregate power is at least 500 brake horsepower;
(c) Internal combustion machinery that uses a fuel that has a flash point of less than 43.3°C (110°F); or
(d) One or more oil fired boilers or oil fuel units.


§ 30.10–7 Certificated—TB/ALL.

The term certificated when applied to tank vessels refers to a vessel covered by a certificate of inspection issued by the Coast Guard; when applied to men employed on tank vessels, the term refers to a certificate of ability issued by the Coast Guard.

§ 30.10–9 Classification requirements—TB/ALL.

The term classification requirements means applicable rules and supplementary requirements of the American Bureau of Shipping, or other recognized classification society.

§ 30.10–11 Coastwise—TB/C.

Under this designation shall be included all tank vessels normally navigating the waters of any ocean or the Gulf of Mexico 20 nautical miles or less offshore.

§ 30.10–13 Cofferdam—TB/ALL.

The term cofferdam means a void or empty space separating two or more compartments for the purpose of isolation or to prevent the contents of one compartment from entering another in the event of the failure of the walls of one to retain their tightness.

§ 30.10–14 Combination carrier—TB/ALL.

The term combination carrier means a tank vessel designed to carry alternatively liquid and solid cargoes in bulk.


§ 30.10–15 Combustible liquid—TB/ALL.

The term combustible liquid means any liquid having a flashpoint above 80°F. (as determined from an open-cup tester, as used for test of burning oils). In the regulations of this subchapter, combustible liquids are referred to by grades, as follows:

(a) Grade D. Any combustible liquid having a flashpoint below 150°F. and above 80°F.
(b) Grade E. Any combustible liquid having a flashpoint of 150°F. or above.


§ 30.10–17 Commandant—TB/ALL.

The term Commandant means the Commandant of the Coast Guard.

§ 30.10–19 Coast Guard District Commander—TB/ALL.

The term Coast Guard District Commander means an officer of the Coast Guard designated as such by the Commandant to command all Coast Guard activities within his district which include the enforcement and administration of Subtitle II, Title 46, U.S. Code, Title 46 and Title 33, U.S. Code, and regulations issued under these statutes.


§ 30.10–19a Control space—TB/ALL.

The term control space means an enclosed space in which is located a ship’s radio, main navigating equipment, or emergency source of power or in which is located centralized fire recording or fire control equipment, but not including firefighting apparatus that must be located in the cargo area or individual pieces of firefighting equipment.

§ 30.10–20 Deadweight or DWT—TB/ALL.

The term deadweight or DWT means the difference in metric tons between the lightweight displacement and the total displacement of a vessel measured in water of specific gravity 1.025 at the load waterline corresponding to the summer freeboard assigned according to 46 CFR, subchapter E.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10–21 Flammable or inflammable—TB/ALL.

The words flammable and inflammable are interchangeable or synonymous terms for the purpose of the regulations in this subchapter.

§ 30.10–22 Flammable liquid—TB/ALL.

The term flammable liquid means any liquid which gives off flammable vapors (as determined by flashpoint from an open-cup tester, as used for test of burning oils) at or below a temperature of 80°F. Flammable liquids are referred to by grades as follows:

(a) Grade A. Any flammable liquid having a Reid¹ vapor pressure of 14 pounds or more.

(b) Grade B. Any flammable liquid having a Reid¹ vapor pressure under 14 pounds and over 8½ pounds.

(c) Grade C. Any flammable liquid having a Reid¹ vapor pressure of 8 ½ pounds or less and a flashpoint of 80°F or below.


§ 30.10–23 Flame arrester—TB/ALL.

The term flame arrester means any device or assembly of a cellular, tubular, or other type used for preventing the passage of flames into enclosed spaces.

§ 30.10–25 Flame screen—TB/ALL.

The term flame screen means a fitted single screen of corrosion-resistant wire of at least 30 by 30 mesh, or two fitted screens, both of corrosion-resistant wire, of at least 20 by 20 mesh, spaced not less than ½ inch or more than 1½ inches apart.

§ 30.10–27 Flashpoint—TB/ALL.

The term flashpoint indicates the temperature in degrees Fahrenheit at which a liquid gives off a flammable vapor when heated in an open-cup tester. For the purpose of the regulations in this subchapter, flashpoints determined by other testing methods will be equivalent to those determined with an open-cup tester, as follows:

<table>
<thead>
<tr>
<th>TABLE 30.10–27—EQUIVALENT FLASHPOINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>-----------------</td>
</tr>
<tr>
<td>80</td>
</tr>
<tr>
<td>150</td>
</tr>
<tr>
<td>190</td>
</tr>
</tbody>
</table>

§ 30.10–29 Gas free—TB/ALL.

The term gas free means free from dangerous concentrations of flammable or toxic gases.

§ 30.10–31 General rules and regulations—TB/ALL.

The term general rules and regulations means the requirements contained in this chapter.

§ 30.10–33 Great Lakes—TB/L.

Under this designation shall be included all tank vessels navigating the Great Lakes.

§ 30.10–35 Headquarters—TB/ALL.

The term Headquarters means the Office of the Commandant, U.S. Coast Guard, Washington, DC 20593-0001.


§ 30.10–37 Keel laying date—TB/ALL.

The term keel laying date means the date upon which progressive construction identifiable with a specific vessel begins, including construction of the first module or prefabricated section of the hull that is identifiable with that vessel.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]
§ 30.10-38 Lightweight—TB/ALL.

The term lightweight means the displacement of a vessel in metric tons without cargo, oil fuel, lubricating oil, ballast water, fresh water, feedwater in tanks, consumable stores, and persons and their effects.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10-39 Liquefied flammable gas—TB/ALL.

The term liquefied flammable gas means any flammable gas having a Reid vapor pressure exceeding 40 pounds, which has been liquefied.

[CGFR 66-33, 31 FR 15267, Dec. 6, 1966]

§ 30.10-41 Lakes, bays, and sounds—TB/B.

Under this designation shall be included all tank vessels navigating the waters of any of the lakes, bays, or sounds other than the waters of the Great Lakes.

§ 30.10-42 Machinery space—TB/ALL.

The term machinery space means any space that contains machinery and related equipment including Category A machinery spaces, propelling machinery, boilers, oil fuel units, steam and internal combustion engines, generators and centralized electrical machinery, oil filling stations, refrigeration, stabilizing, ventilation, and air conditioning machinery, and similar spaces and trunks to such spaces.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10-43 Marine inspector or inspector—TB/ALL.

The terms marine inspector or inspector mean any person from the civilian or military branch of the Coast Guard assigned under the superintendence and direction of an Officer in Charge, Marine Inspection, or any other person as may be designated for the performance of duties with respect to the enforcement and administration of Subtitle II, Title 46, U.S. Code, Title 46 and Title 33, U.S. Code, and regulations issued under these statutes.


§ 30.10-45 Ocean—TB/O.

Under this designation shall be included all tank vessels normally navigating the waters of any ocean or the Gulf of Mexico more than 20 nautical miles offshore.

§ 30.10-47 Officer in Charge, Marine Inspection—TB/ALL.

The term Officer in Charge, Marine Inspection, means any person from the civilian or military branch of the Coast Guard designated as such by the Commandant and who under the superintendence and direction of the Coast Guard District Commander is in charge of an inspection zone for the performance of duties with respect to the enforcement and administration of Subtitle II, Title 46, U.S. Code, Title 46 and Title 33, U.S. Code, and regulations issued under these statutes.


§ 30.10-48 Oil fuel—TB/ALL.

The term oil fuel means oil used as fuel for machinery in the vessel in which it is carried.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10-48a Oil fuel unit—TB/ALL.

The term oil fuel unit means the equipment used for the preparation of oil fuel for delivery to an oil fired boiler, the equipment used for the preparation of heated oil fuel for delivery to an internal combustion engine, and any oil fuel pressure pump, filter, and heater that deals with oil at a pressure of more than 1.8 kilograms per square centimeter (25 p.s.i.) gauge.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10-49 Permit—TB/ALL.

The term permit refers to endorsement on the certificate of inspection, authorizing the presence on board of liquid flammable or combustible cargoes in bulk, issued by an Officer in Charge, Marine Inspection, for a tank vessel which is found to be in substantial compliance with the regulations in this subchapter.
§ 30.10-50 Pilot boarding equipment and point of access.

(a) Pilot boarding equipment means a pilot ladder, accommodation ladder, pilot hoist, or combination of them as required by this subchapter.

(b) Point of access means the place on deck of a vessel where a person steps onto or off of pilot boarding equipment.

[CGD 79-032, 49 FR 25455, June 21, 1984]

§ 30.10-55 Pressure vacuum relief valve—TB/ALL.

The term pressure vacuum relief valve means any device or assembly of a mechanical, liquid, weight, or other type used for the automatic regulation of pressure or vacuum in enclosed places.


§ 30.10-57 Recognized classification society—TB/ALL.

The term recognized classification society means the American Bureau of Shipping or other classification society recognized by the Commandant.


§ 30.10-59 Reid vapor pressure—TB/ALL.

The term Reid vapor pressure means the vapor pressure of a liquid at a temperature of 100°F, expressed in pounds per square inch absolute, as determined by the Reid Method as described in the American Society for Testing Materials Standard D-323 (most recent revision), Method of Test for Vapor Pressure of Petroleum Products. This Standard is available at Headquarters for reading purposes or it may be purchased from the Society at 1916 Race Street, Philadelphia, PA 19103.


§ 30.10-61 Rivers—TB/R.

Under this designation shall be included all tank vessels whose navigation is restricted to rivers and/or to canals, exclusively.


§ 30.10-62 Self-propelled tank vessel—TB/ALL.

Self-propelled tank vessel means a self-propelled tank vessel other than a tankship.


§ 30.10-62a Service spaces—TB/ALL.

Service spaces are spaces that are used for galleys, pantries containing cooking appliances, lockers, storerooms, paint and lamp rooms and similar spaces that contain highly combustible materials, laundries, garbage and trash disposal and stowage rooms, workshops other than those forming part of the machinery spaces, and similar spaces and trunks to such spaces.

[CGD 74-127, 41 FR 3843, Jan. 26, 1976]

§ 30.10-63 Spark arrester—TB/ALL.

The term spark arrester means any device, assembly, or method of a mechanical, centrifugal, cooling, or other type and of a size suitable for the retention or quenching of sparks in exhaust pipes from internal combustion engines.


§ 30.10-65 Tank barge—B/ALL.

The term tank barge means a nonself-propelled tank vessel.


§ 30.10-67 Tankship—T/ALL.

The term tankship means a self-propelled tank vessel constructed or adapted primarily to carry oil or hazardous material in bulk in the cargo spaces.


§ 30.10-69 Tank vessel—TB/ALL.

The term tank vessel means a vessel that is constructed or adapted to carry, or that carries, oil or hazardous material in bulk as cargo or cargo residue, and that—

(a) Is a vessel of the United States;

(b) Operates on the navigable waters of the United States; or

(c) Transfers oil or hazardous material in a port or place subject to the jurisdiction of the United States.


§ 30.10-71 Tankerman—TB/ALL.

The following ratings are established in part 13 of this chapter. The terms for the ratings identify persons holding valid merchant mariners’ documents for service in the ratings issued under that part:

(a) Tankerman-PIC.

(b) Tankerman-PIC (Barge).

(c) Restricted Tankerman-PIC.

(d) Restricted Tankerman-PIC (Barge).
(e) Tankerman-Assistant.
(f) Tankerman-Engineer.

[CGD 79-116, 60 FR 17155, Apr. 4, 1995]

Subpart 30.15—Equivalents

§ 30.15-1 Conditions under which equivalents may be used—TB/ALL.

(a) Where in this subchapter it is provided that a particular fitting, material, appliance, apparatus, or equipment, or type thereof, shall be fitted or carried in a vessel, or that any particular provision shall be made or arrangement shall be adopted, the Commandant may accept in substitution therefor any other fitting, material, apparatus, or equipment, or type thereof, or any other arrangement: Provided, That he shall have been satisfied by suitable trials that the fitting, material, appliance, apparatus, or equipment, or type thereof, or the provision or arrangement is at least as effective as that specified in this subchapter.

(b) In any case where it is shown to the satisfaction of the Commandant that the use of any particular fitting, material, apparatus, or arrangement not specifically required by law is unreasonable or impracticable, the Commandant may permit the use of alternate equipment, apparatus, or arrangement to such an extent and upon such conditions as will insure, to his satisfaction, a degree of safety consistent with the minimum standards set forth in this subchapter.

Subpart 30.25—Commodities

§ 30.25-1 Cargoes carried in vessels certified under the rules of this subchapter.

The cargoes listed in Table 30.25-1 are flammable or combustible and when transported in bulk must be in vessels certified under the rules of this subchapter. A mixture or blend of two or more cargoes appearing in Table 30.25-1 may be carried under the provisions of this subchapter. A category A, B, or C noxious liquid substance (NLS) cargo, as defined in § 153.2 of this chapter, that is listed in Table 30.25-1 and any mixture containing one or more category A, B, or C NLS cargoes listed in Table 30.25-1 may be carried in bulk under this subchapter if the vessel is not regulated under part 153 of this chapter. If the vessel is regulated under § 153.1 of this chapter, category A, B, and C NLS cargoes must be carried under part 153, or, as an alternative in the case of category C oil-like NLS, under 33 CFR part 151. Requirements for category D NLS cargoes and mixtures of non-NLS cargoes with category D NLS cargoes are in 33 CFR part 151.

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>III @D</td>
</tr>
<tr>
<td>Acetophenone</td>
<td>D</td>
</tr>
<tr>
<td>Allyl nitrite-Styrene copolymer dispersion in Polyether polyol</td>
<td></td>
</tr>
<tr>
<td>Alcohols (C13 and above), see Alcohols (C13+)</td>
<td>III</td>
</tr>
<tr>
<td>Alcohols (C13+)</td>
<td>III</td>
</tr>
<tr>
<td>Alcoholic beverages, n.o.s.</td>
<td>III</td>
</tr>
<tr>
<td>Alcohol(C6-C17)(secondary) poly(3-6)ethoxylates</td>
<td>A</td>
</tr>
<tr>
<td>Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates</td>
<td>B</td>
</tr>
<tr>
<td>Alcohol(C12-C15) poly(1-3)ethoxylates, see Alcohol(C12-C15) poly(1-6)ethoxylates</td>
<td>A</td>
</tr>
<tr>
<td>Alcohol(C12-C15) poly(1-6)ethoxylates</td>
<td>A</td>
</tr>
<tr>
<td>Alcohol(C12-C15) poly(7-19)ethoxylates</td>
<td>B</td>
</tr>
<tr>
<td>Alcohol(C12-C15) poly(20+)ethoxylates</td>
<td>C</td>
</tr>
<tr>
<td>n-Alkanes (C16+)</td>
<td>III</td>
</tr>
<tr>
<td>iso- &amp; cyclo-Alkanes (C10-C17)</td>
<td>D</td>
</tr>
<tr>
<td>iso- &amp; cyclo-Alkanes (C12+)</td>
<td>D</td>
</tr>
<tr>
<td>Alkaryl polyether (C9-C20)</td>
<td>B</td>
</tr>
<tr>
<td>Alkenyl(poly)amine</td>
<td>D</td>
</tr>
<tr>
<td>Alkenyl(poly)amine</td>
<td>D</td>
</tr>
<tr>
<td>Alkyl polyether</td>
<td>D</td>
</tr>
<tr>
<td>Alcohol(C8-jamine, Alkenyl (C12+) acid ester mixture</td>
<td>D</td>
</tr>
<tr>
<td>Alkyl(C9-C17) benzene, see Alkyl(C9-C17) benzene</td>
<td>III</td>
</tr>
<tr>
<td>Alkyl(C9-C17) benzene</td>
<td>III</td>
</tr>
<tr>
<td>Alkylbenzenesulfonic acid (4% or less</td>
<td>D</td>
</tr>
<tr>
<td>Alkyl dithiobiadiazole (C6-C24)</td>
<td>D</td>
</tr>
<tr>
<td>Alkyl ester copolymer (C6-C18)</td>
<td>[D]</td>
</tr>
<tr>
<td>Alkyl phenol sulfide (C8-C40)</td>
<td>[D]</td>
</tr>
<tr>
<td>Alkyl phthalates (n), see individual phthalates</td>
<td></td>
</tr>
<tr>
<td>Aminoethyldiethanolamine</td>
<td></td>
</tr>
<tr>
<td>Aminoethylethanolamine solution</td>
<td>III</td>
</tr>
<tr>
<td>Ammonia, see Ammonia</td>
<td>C</td>
</tr>
<tr>
<td>Ammonia solution</td>
<td>C</td>
</tr>
<tr>
<td>Ammonium hydroxide solution, see Ammonia</td>
<td>C</td>
</tr>
<tr>
<td>Amyl alcohol</td>
<td>III</td>
</tr>
<tr>
<td>Amyl alcohol (tertiary)</td>
<td>III</td>
</tr>
<tr>
<td>Amylene, see Pentene (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Amyl methyl ketone, see Methyl amyl ketone</td>
<td>C</td>
</tr>
<tr>
<td>Animal and Fish oils, n.o.s. (see also Oil, edible, or Oil, misc.)</td>
<td>D</td>
</tr>
<tr>
<td>Animal and Fish oils, n.o.s.</td>
<td>D</td>
</tr>
</tbody>
</table>
### Table 30.25—List of Flammable and Combustible Bulk Liquid Cargoes—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cad liver oil</td>
<td>C</td>
</tr>
<tr>
<td>Lanolin</td>
<td>D</td>
</tr>
<tr>
<td>Neatsfoot oil</td>
<td>D</td>
</tr>
<tr>
<td>Pitch oil</td>
<td>A</td>
</tr>
<tr>
<td>Sperm oil</td>
<td>C</td>
</tr>
</tbody>
</table>

**Animal and Fish acid oils and distillates, n.o.s:**

- Including:
  - Animal acid oil
  - Fish acid oil
  - Lard acid oil
  - Mixed acid oil
  - Mixed general acid oil
  - Mixed hard acid oil

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal and Fish acid oils and distillates, n.o.s</td>
<td>D</td>
</tr>
<tr>
<td>Calcium long chain alkyl sulfonate (C11–C50)</td>
<td>D</td>
</tr>
<tr>
<td>Calcium long chain alkyl phenate (C8–C40)</td>
<td>II</td>
</tr>
<tr>
<td>Calcium long chain alkyl salicylate (C13+)</td>
<td>II</td>
</tr>
<tr>
<td>Calcium long chain alkyl phenolic amine (C8–C40)</td>
<td>II</td>
</tr>
<tr>
<td>Caproaidam solutions</td>
<td>II</td>
</tr>
<tr>
<td>Cetyl alcohol (hexadecanol), see Alcohols (C13+)</td>
<td>I</td>
</tr>
<tr>
<td>Cetyl Stearyl alcohol</td>
<td>I</td>
</tr>
</tbody>
</table>

**Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |

**Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+):**

- Calcium long chain alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) | D |
- Calcium long chain alkyl phenate (C8–C40) | C |
- Calcium long chain alkyl phenate sulfide (C8–C40) | C |
- Calcium long chain alkyl salicylate (C13+) | C |
- Caproaidam solutions | C |
- Cetyl alcohol (hexadecanol), see Alcohols (C13+) | C |
<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disisononyl adipate</td>
<td>D</td>
</tr>
<tr>
<td><em>Disisononyl phthalate, see Dialkyl(C7-C13) phthalates</em></td>
<td>D</td>
</tr>
<tr>
<td>Disiocyl phthalate</td>
<td>D</td>
</tr>
<tr>
<td>Disopropylbenzene (all isomers)</td>
<td>A</td>
</tr>
<tr>
<td>Disopropyl naphthalene</td>
<td>D</td>
</tr>
<tr>
<td>Dimethyl adipate</td>
<td>D</td>
</tr>
<tr>
<td><em>Dimethylbenzene, see Xylenes</em></td>
<td>C</td>
</tr>
<tr>
<td>Dimethyl glutarate</td>
<td>C</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>C</td>
</tr>
<tr>
<td><em>Dipropylene glycol butyl ether, see Poly(2-biaklylene glycol monoalkyl(C1-C6) ether</em></td>
<td>D</td>
</tr>
<tr>
<td><em>Dipropylene glycol dibenzoate</em></td>
<td>D</td>
</tr>
<tr>
<td><em>Diundecyl phthalate, see Dialkyl(C7-C13) phthalates</em></td>
<td>C</td>
</tr>
<tr>
<td>Diocyl phthalate</td>
<td>D</td>
</tr>
<tr>
<td>Diphenyl</td>
<td>D</td>
</tr>
<tr>
<td>Diphényl, Diphenyl ether mixture</td>
<td>A</td>
</tr>
<tr>
<td>Diphényl ether</td>
<td>A</td>
</tr>
<tr>
<td>Diphényl ether, Biphenyl phenyl ether mixture</td>
<td>A</td>
</tr>
<tr>
<td>Dipropylene glycol</td>
<td>D</td>
</tr>
<tr>
<td>Dipropylene glycol butyl ether, see Poly(2-biaklylene glycol monoalkyl(C1-C6) ether*</td>
<td>D</td>
</tr>
<tr>
<td><em>Dipropylene glycol methyl ether, see Poly(2-biaklylene glycol monoalkyl(C1-C6) ether</em></td>
<td>D</td>
</tr>
<tr>
<td>Distillates:</td>
<td></td>
</tr>
<tr>
<td>Flashing feed stocks</td>
<td></td>
</tr>
<tr>
<td>Straight run</td>
<td></td>
</tr>
<tr>
<td><em>Diundecyl phthalate, see Dialkyl(C7-C13) phthalates</em></td>
<td>C</td>
</tr>
<tr>
<td>Dodecane (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Dodecane (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Dodecanol</td>
<td>D</td>
</tr>
<tr>
<td>Dodecene (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Dodcyle alcohol, see Dodecanol</td>
<td>D</td>
</tr>
<tr>
<td>Dodcylene benzene</td>
<td>A</td>
</tr>
<tr>
<td>Dodcyle phenol</td>
<td>A</td>
</tr>
<tr>
<td>Dodcyle xylene</td>
<td>D</td>
</tr>
<tr>
<td>Drilling mud (low toxicity) (if flammable or combustible)</td>
<td></td>
</tr>
<tr>
<td>Ethane</td>
<td>D</td>
</tr>
<tr>
<td>2-Ethoxyethyl acetate</td>
<td>C</td>
</tr>
<tr>
<td><em>Ethoxylated alcohols, C11-C15, see the alcohol polyethoxylates</em></td>
<td>C</td>
</tr>
<tr>
<td>Ethoxy tri glycol (crude)</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl acetoacetate</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl amyl ketone</td>
<td>D</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl butanol</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl butyrate</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl cyclohexane</td>
<td>D</td>
</tr>
<tr>
<td>2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester</td>
<td>C</td>
</tr>
<tr>
<td>Ethylene</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene carbonate</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol acetate</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol buty ether acetate</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol diaacetate</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol dibutyl ether</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate</td>
<td>C</td>
</tr>
<tr>
<td>Ethylene glycol methyl buty ether</td>
<td>C</td>
</tr>
<tr>
<td>Ethylene glycol methyl ether acetate</td>
<td>C</td>
</tr>
<tr>
<td>Ethylene glycol phenyl ether</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture</td>
<td>D</td>
</tr>
<tr>
<td>Ethylene-Propylene copolymer (in liquid mixtures)</td>
<td>C</td>
</tr>
<tr>
<td><strong>Ethyly-3-ethoxypropionate</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Ethylyxaldehyde, see Octyl aldehydes</strong></td>
<td>C</td>
</tr>
<tr>
<td><strong>2-Ethylhexanoic acid, see Octanoic acid (all isomers)</strong></td>
<td>D</td>
</tr>
<tr>
<td>2-Ethylhexanol, see Octanol (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td><strong>2-Ethylhexanoic acid, see 2-Ethylhexanoic acid</strong></td>
<td>C</td>
</tr>
<tr>
<td>Ethyl hexyl phthalate</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl propionate</td>
<td>D</td>
</tr>
<tr>
<td>Ethyl toluene</td>
<td>B</td>
</tr>
<tr>
<td><em>Fatty acid (saturated, C13 and above), see Fatty acid (saturated, C13)</em></td>
<td>III</td>
</tr>
<tr>
<td>Furfuryl alcohol</td>
<td>D</td>
</tr>
<tr>
<td>Gas oil, cracked</td>
<td>D</td>
</tr>
<tr>
<td>Gasoline blending stocks:</td>
<td></td>
</tr>
<tr>
<td>Alkylates</td>
<td>I</td>
</tr>
<tr>
<td><em>Reformates</em></td>
<td>I</td>
</tr>
<tr>
<td>Gasolines:</td>
<td></td>
</tr>
<tr>
<td><strong>Automotive (containing not over 4.23 grams lead per gallon)</strong></td>
<td>I</td>
</tr>
<tr>
<td><strong>Aviation (containing not over 4.86 grams lead per gallon)</strong></td>
<td>I</td>
</tr>
<tr>
<td><em>Castinghead (natural)</em></td>
<td>I</td>
</tr>
<tr>
<td><em>Polymers</em></td>
<td>I</td>
</tr>
<tr>
<td><strong>Straight run</strong></td>
<td>I</td>
</tr>
<tr>
<td><strong>Glycerol, see Glycerine</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycerol (83%), Dioxyanediethanol (17%) mixture</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycol, see Glycerine</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycol monooleate</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycol polyglycolate</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycerin triacetate</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of tridecyl acetic acid</strong></td>
<td>B</td>
</tr>
<tr>
<td>Glycidyl ester of C10 triacylic acid, see Glycidyl ester of tridecyl acetic acid**</td>
<td>B</td>
</tr>
<tr>
<td><strong>Glycidyl ester of tridecyl acetic acid</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Glycidyl ester of tridecyl acetic acid</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Glycidyl ester of vicaric acid, see Glycidyl ester of tridecyl acetic acid</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Glycidyl diacetate, see Ethylene glycol diacetate</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Glycol triacetate, see Glycerol triacetate</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Glyoxal solution (40% or less)</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Heptadecane, see n-Alkanes (C10)</strong></td>
<td>III</td>
</tr>
<tr>
<td>Heptane (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Heptanoic acid</td>
<td>C</td>
</tr>
<tr>
<td>Heptanol (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Heptene (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Heptyl acetate</td>
<td>B</td>
</tr>
<tr>
<td><strong>Herbicde (C15-H22-NO2-Ci), see Metabichlor</strong></td>
<td>C</td>
</tr>
<tr>
<td><strong>Hexaethylene glycol, see Polyethylene glycol</strong></td>
<td>III</td>
</tr>
<tr>
<td><strong>Hexamethyleneglycol</strong></td>
<td>III</td>
</tr>
<tr>
<td><strong>Hexane (all isomers)</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Hexene</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>Hexy acetate</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Hexyne glycol</strong></td>
<td>B</td>
</tr>
<tr>
<td><strong>Hexyne glycol</strong></td>
<td>III</td>
</tr>
<tr>
<td><strong>Hg+3, see Lead</strong></td>
<td>D</td>
</tr>
<tr>
<td><strong>2-Hydroxy-4-(methylthio)butanoic acid</strong></td>
<td>C</td>
</tr>
<tr>
<td><strong>Hydroxy terminated polybutadiene, see Polybutadiene, hydroxyl terminated</strong></td>
<td>C</td>
</tr>
</tbody>
</table>
### Table 30.25-1—List of Flammable and Combustible Bulk Liquid Cargoes—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isophorone</td>
<td>D</td>
</tr>
<tr>
<td>Jet fuels:</td>
<td></td>
</tr>
<tr>
<td>1 JP-4 (kerosene, heavy)</td>
<td>A</td>
</tr>
<tr>
<td>JP-5 (kerosene, heavy)</td>
<td>A</td>
</tr>
<tr>
<td>JP-8</td>
<td>B</td>
</tr>
<tr>
<td>Kerosene</td>
<td>C</td>
</tr>
<tr>
<td>Lactic acid</td>
<td>C</td>
</tr>
<tr>
<td>Lard</td>
<td>D</td>
</tr>
<tr>
<td>Latex (ammonia (1% or less) inhibited)</td>
<td>C</td>
</tr>
<tr>
<td>Latex, liquid synthetic</td>
<td>C</td>
</tr>
<tr>
<td>including:</td>
<td></td>
</tr>
<tr>
<td>Styrene-butadiene rubber</td>
<td>C</td>
</tr>
<tr>
<td>Carboxylated styrene-butadiene co-polymer</td>
<td>D</td>
</tr>
<tr>
<td>Lecithin (soyabean)</td>
<td>D</td>
</tr>
<tr>
<td>Long chain alkyl polyether (C11-C20)</td>
<td>D</td>
</tr>
<tr>
<td>Long chain alkyl sulfonic acid (C16-C60)</td>
<td>D</td>
</tr>
<tr>
<td>Long chain alkylphenate/Phenol sulfide mixture</td>
<td>D</td>
</tr>
<tr>
<td>Magnesium long chain alkyl sulfonate (C11-C50)</td>
<td>D</td>
</tr>
<tr>
<td>Magnesium long chain alkyl phenate sulfide (C8-C20)</td>
<td>D</td>
</tr>
<tr>
<td>Magnesium long chain alkyl salicylate (C11+)</td>
<td>D</td>
</tr>
<tr>
<td>Magnesium nonyl phenol sulfide, see Magnesium long chain alkyl phenate sulfide (C8-C20)</td>
<td>D</td>
</tr>
<tr>
<td>Magnesium sulfonate, see Magnesium long chain alkyl sulfonate (C11-C50)</td>
<td>D</td>
</tr>
<tr>
<td>Methane</td>
<td>C</td>
</tr>
<tr>
<td>3-Methoxy-1-butanol</td>
<td>D</td>
</tr>
<tr>
<td>3-Methoxybutyl acetate</td>
<td>D</td>
</tr>
<tr>
<td>1-Methoxy-2-propyl acetate</td>
<td>C</td>
</tr>
<tr>
<td>3-Methoxytriglycol (3-hydroxy glycol methyl ether), see Poly(2-8)alkylene glycol monooalky(C1-C8) ether</td>
<td>D</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>D</td>
</tr>
<tr>
<td>Methyl acetacetate</td>
<td>D</td>
</tr>
<tr>
<td>Methyl alcohol</td>
<td>D</td>
</tr>
<tr>
<td>Methyl amyl acetate</td>
<td>D</td>
</tr>
<tr>
<td>Methyl amyl alcohol</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> amyl ketone</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> butanol</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> butyl ketone</td>
<td>D</td>
</tr>
<tr>
<td>Methyl butyrate</td>
<td>D</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>D</td>
</tr>
<tr>
<td>Methyl heptyl ketone</td>
<td>D</td>
</tr>
<tr>
<td>Methyl isobutyl carbinol, see Methyl amyl alcohol</td>
<td>D</td>
</tr>
<tr>
<td>Methyl isobutyl ketone</td>
<td>D</td>
</tr>
<tr>
<td>3-Methyl-3-methoxybutanol</td>
<td>D</td>
</tr>
<tr>
<td>3-Methyl-3-methoxybutanol</td>
<td>D</td>
</tr>
<tr>
<td>Methyl naphthalene</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> pentene, see Hexene (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> propyl ketone</td>
<td>D</td>
</tr>
<tr>
<td><em>Methyl</em> 2-pyrrolidone</td>
<td>D</td>
</tr>
<tr>
<td>Methyl tert-butyl ether</td>
<td>D</td>
</tr>
<tr>
<td>Metolachlor</td>
<td>D</td>
</tr>
<tr>
<td>Mineral spirits</td>
<td>D</td>
</tr>
<tr>
<td><em>Mycrone</em></td>
<td>D</td>
</tr>
<tr>
<td>Naphtha</td>
<td>D</td>
</tr>
<tr>
<td>*1 Aromatic (having less than 10% Benzene)</td>
<td>D</td>
</tr>
<tr>
<td>Heavy</td>
<td>D</td>
</tr>
<tr>
<td>Paraffinic</td>
<td>D</td>
</tr>
<tr>
<td>1 Petroleum</td>
<td>D</td>
</tr>
<tr>
<td>1 Solvent</td>
<td>D</td>
</tr>
</tbody>
</table>

### Table 30.25-1—List of Flammable and Combustible Bulk Liquid Cargoes—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoddard Solvent</td>
<td>@I</td>
</tr>
<tr>
<td>1 Varnish makers' and painters' (75%)</td>
<td>@I</td>
</tr>
<tr>
<td>N-Methylglucamine solution (70% or less)</td>
<td>D</td>
</tr>
<tr>
<td>n-Pentyl propionate</td>
<td>D</td>
</tr>
<tr>
<td>Naphthalene sulfonic acid-formaldehyde co-polymer, sodium salt solution</td>
<td>D</td>
</tr>
<tr>
<td>Naphthenic acid</td>
<td>A</td>
</tr>
<tr>
<td>Nonane (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Nonanone (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Nonionic, Tredecaneic acid mixture</td>
<td>@D</td>
</tr>
<tr>
<td><em>Nonene (all isomers)</em></td>
<td>B</td>
</tr>
<tr>
<td>Nonyl acetate</td>
<td>C</td>
</tr>
<tr>
<td><em>Nonyl</em> alcohol (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Nonyl methacrylate monomer</td>
<td>D</td>
</tr>
<tr>
<td>Nonyl phenol</td>
<td>A</td>
</tr>
<tr>
<td>Nonyl phenol poly(4-12)ethoxylates, see Alkyl phenol sulfide (C8-C40)</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (1) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 1, Cat A (if combustible)</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (2) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 1, Cat A</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (3) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat A (if combustible)</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (4) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat A</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (5) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat B (if combustible)</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (6) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat B, mp. equal to or greater than 15 deg. C</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (7) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat B</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (8) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 2, Cat B, mp. equal to or greater than 15 deg. C</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (9) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat A</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (10) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat A</td>
<td>A</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (11) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat B (if combustible)</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (12) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat B</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (13) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat B</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (14) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat B</td>
<td>B</td>
</tr>
<tr>
<td>Nuxioxiou liquid, N.F., (15) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat C</td>
<td>C</td>
</tr>
<tr>
<td>Nuxioxiou liquid, F., (16) n.o.s. (&quot;trade name&quot; contains &quot;principle components&quot;) ST 3, Cat C</td>
<td>C</td>
</tr>
</tbody>
</table>

377
## § 30.25-1  LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noxious liquid, n.o.s. (17) (&quot;trade name,&quot; contains &quot;principal components&quot;), Category D (if flammable or combustible)</td>
<td>D</td>
</tr>
<tr>
<td>Non-noxious liquid, n.o.s. (18) (&quot;trade name,&quot; contains &quot;principal components&quot;), Appendix III (if flammable or combustible)</td>
<td>III</td>
</tr>
<tr>
<td><em>Octodecane, see the olefin or alpha-olefin entries</em></td>
<td></td>
</tr>
<tr>
<td>Octodecenoicamide solution (oleamide)</td>
<td>C</td>
</tr>
<tr>
<td>Octane (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Octanoic acid (all isomers)</td>
<td>D</td>
</tr>
<tr>
<td>Octanol (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Octone (all isomers)</td>
<td>B</td>
</tr>
<tr>
<td>Octyl acetate</td>
<td>C</td>
</tr>
<tr>
<td><em>Octyl alcohol (iso-n-), see Octanol (all isomers)</em></td>
<td></td>
</tr>
<tr>
<td>Octyl aldehydes</td>
<td>B</td>
</tr>
<tr>
<td>Octyl decyl adipate</td>
<td>C</td>
</tr>
<tr>
<td><em>Octyl phthalate [(Di(2-ethylhexyl)phthalate), see Dikal(7-C7-C13) phthalates</em></td>
<td></td>
</tr>
<tr>
<td>Oil, edible:</td>
<td></td>
</tr>
<tr>
<td>Beechnut</td>
<td>D</td>
</tr>
<tr>
<td>Castor</td>
<td>D</td>
</tr>
<tr>
<td>Cocoa butter</td>
<td>D</td>
</tr>
<tr>
<td>Coconut</td>
<td>D</td>
</tr>
<tr>
<td>Cod liver</td>
<td>D</td>
</tr>
<tr>
<td>Corn</td>
<td>D</td>
</tr>
<tr>
<td>Cottonseed</td>
<td>D</td>
</tr>
<tr>
<td>Fish, n.o.s.</td>
<td>D</td>
</tr>
<tr>
<td>Groundnut</td>
<td>D</td>
</tr>
<tr>
<td>Hazelnut</td>
<td>D</td>
</tr>
<tr>
<td>Land</td>
<td>@III</td>
</tr>
<tr>
<td>Maize, see Corn oil</td>
<td>D</td>
</tr>
<tr>
<td>Nutmeg butter</td>
<td>D</td>
</tr>
<tr>
<td>Olive</td>
<td>D</td>
</tr>
<tr>
<td>Palm</td>
<td>D</td>
</tr>
<tr>
<td>Palm kernel</td>
<td>D</td>
</tr>
<tr>
<td>Peanut</td>
<td>D</td>
</tr>
<tr>
<td>Poppy</td>
<td>D</td>
</tr>
<tr>
<td>Raisin seed</td>
<td>D</td>
</tr>
<tr>
<td>Rapeseed</td>
<td>D</td>
</tr>
<tr>
<td>Rice bran</td>
<td>D</td>
</tr>
<tr>
<td>Safflower</td>
<td>D</td>
</tr>
<tr>
<td>Salad</td>
<td>D</td>
</tr>
<tr>
<td>Sesame</td>
<td>D</td>
</tr>
<tr>
<td>Soya bean</td>
<td>D</td>
</tr>
<tr>
<td>Sunflower seed</td>
<td>D</td>
</tr>
</tbody>
</table>

### TABLE 30.25—1 LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunflower oil, see Sunflower seed</td>
<td>D</td>
</tr>
<tr>
<td>Tucum</td>
<td>D</td>
</tr>
<tr>
<td>Vegetable, n.o.s.</td>
<td>D</td>
</tr>
<tr>
<td>Walnut</td>
<td>D</td>
</tr>
<tr>
<td>Oil, fuel:</td>
<td></td>
</tr>
<tr>
<td>No. 1 (kerosene)</td>
<td>D</td>
</tr>
<tr>
<td>No. 1-D</td>
<td>D</td>
</tr>
<tr>
<td>No. 2</td>
<td>D</td>
</tr>
<tr>
<td>No. 2-D</td>
<td>D</td>
</tr>
<tr>
<td>No. 4</td>
<td>D</td>
</tr>
<tr>
<td>No. 5</td>
<td>D</td>
</tr>
<tr>
<td>No. 6</td>
<td>D</td>
</tr>
<tr>
<td>Oil, misc:</td>
<td></td>
</tr>
<tr>
<td>Alphatic</td>
<td>@I</td>
</tr>
<tr>
<td>Animal, n.o.s.</td>
<td>D</td>
</tr>
<tr>
<td>Aromatic</td>
<td>I</td>
</tr>
<tr>
<td>Clarified</td>
<td>#</td>
</tr>
<tr>
<td>Coal</td>
<td></td>
</tr>
<tr>
<td><em>Coconut oil, esterified, see Coconut oil, fatty acid methyl ester</em></td>
<td>D</td>
</tr>
<tr>
<td>Coconut oil, fatty acid</td>
<td>D</td>
</tr>
<tr>
<td><em>Coconut oil, methyl ester, see Coconut oil, fatty acid methyl ester</em></td>
<td>D</td>
</tr>
<tr>
<td>Cargoes</td>
<td>Pollution category</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Cottonseed, fatty acid, see Cottonseed oil, fatty acid</td>
<td>D</td>
</tr>
<tr>
<td>Crude</td>
<td>I</td>
</tr>
<tr>
<td>Diesel</td>
<td>D</td>
</tr>
<tr>
<td>Gas, high pour</td>
<td>@I</td>
</tr>
<tr>
<td>Gas, low pour</td>
<td>@I</td>
</tr>
<tr>
<td>Gas, low sulfur</td>
<td>@I</td>
</tr>
<tr>
<td>Heartcut distillate</td>
<td>I</td>
</tr>
<tr>
<td>Lanolin</td>
<td>D</td>
</tr>
<tr>
<td>Linseed</td>
<td>D</td>
</tr>
<tr>
<td>Lubricating</td>
<td>I</td>
</tr>
<tr>
<td>Mineral</td>
<td>I</td>
</tr>
<tr>
<td>Mineral seal</td>
<td>@I</td>
</tr>
<tr>
<td>Motor</td>
<td>I</td>
</tr>
<tr>
<td>Neatsfoot</td>
<td>D</td>
</tr>
<tr>
<td>Oticica</td>
<td>D</td>
</tr>
<tr>
<td>Palm oil, fatty acid methyl ester</td>
<td>D</td>
</tr>
<tr>
<td>Penetrating</td>
<td>I</td>
</tr>
<tr>
<td>Peroxa</td>
<td>D</td>
</tr>
<tr>
<td>Pitch</td>
<td>D</td>
</tr>
<tr>
<td>Pine</td>
<td>C</td>
</tr>
<tr>
<td>Residual</td>
<td>I</td>
</tr>
<tr>
<td>Road</td>
<td>I</td>
</tr>
<tr>
<td>Rosin</td>
<td>B</td>
</tr>
<tr>
<td>Seal</td>
<td>I</td>
</tr>
<tr>
<td>Soay bean (epoxidized)</td>
<td>D</td>
</tr>
<tr>
<td>Spurret</td>
<td>D</td>
</tr>
<tr>
<td>Spindle</td>
<td>I</td>
</tr>
<tr>
<td>Tall</td>
<td>B</td>
</tr>
<tr>
<td>Tall, fatty acid</td>
<td>C</td>
</tr>
<tr>
<td>Transformer</td>
<td>I</td>
</tr>
<tr>
<td>Tung</td>
<td>D</td>
</tr>
<tr>
<td>Turbo</td>
<td>I</td>
</tr>
<tr>
<td>Whale</td>
<td>D</td>
</tr>
<tr>
<td><em>Oley alcohol (octadecenoil), see Alcohols (C13+)</em></td>
<td>D</td>
</tr>
<tr>
<td><em>Organic amine 70, see Aminoethyldehanolamine, Aminoethyldenamolamine solution</em></td>
<td>D</td>
</tr>
<tr>
<td>Palm kernel acid oil, methyl ester</td>
<td>D</td>
</tr>
<tr>
<td>Palm stearin</td>
<td>D</td>
</tr>
<tr>
<td>n-Paraffins (C10-C20), see n-Alkanes (C10+)</td>
<td>D</td>
</tr>
<tr>
<td><em>Pentadecanol, see Alcohols (C13+)</em></td>
<td>D</td>
</tr>
<tr>
<td><em>Pentaethylene glycol, see Polyethylene glycols</em></td>
<td>D</td>
</tr>
<tr>
<td>Pentane (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Pentanoic acid</td>
<td>D</td>
</tr>
<tr>
<td>Pentene (all isomers)</td>
<td>C</td>
</tr>
<tr>
<td>Petroleum</td>
<td>D</td>
</tr>
<tr>
<td>1-Phenyl-1-xyl ethane</td>
<td>C</td>
</tr>
<tr>
<td>Phosphosulfurized bicyclic terpene</td>
<td>#</td>
</tr>
<tr>
<td><em>Phthalate plasticizers, see individual phthalates</em></td>
<td>D</td>
</tr>
<tr>
<td>Pinene, see the alpha- or beta-isomers</td>
<td>A</td>
</tr>
<tr>
<td>alpha-Pinene</td>
<td>A</td>
</tr>
<tr>
<td>beta-Pinene</td>
<td>D</td>
</tr>
<tr>
<td>Polyoxyethylene glycols, Polyoxylene glycol monoalkyl ethers mixtures</td>
<td>@D</td>
</tr>
</tbody>
</table>
Coast Guard, DOT

§ 30.25–1

TABLE 30.25–1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

TABLE 30.25–1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Pollution
category

Cargoes
Polyalkylene glycol butyl ether, see Poly(28)alkylene glycol monoalkyl(C1–C6) ether ....
Poly(2-8)alkylene glycol monoalkyl(C1-C6)
ether
Including:.
Diethylene glycol butyl ether.
Diethylene glycol ethyl ether.
Diethylene glycol n-hexyl ether.
Diethylene glycol methyl ether.
Diethylene glycol n-propyl ether.
Dipropylene glycol butyl ether.
Dipropylene glycol methyl ether.
Polypropylene glycol methyl ether.
Triethylene glycol butyl ether.
Triethylene glycol ethyl ether.
Triethylene glycol methyl ether.
Tripropylene glycol methyl ether.
Poly(2-8)alkylene glycol monoalkyl(C1-C6)
ether acetate
Including:.
Diethylene glycol butyl ether acetate.
Diethylene glycol ethyl ether acetate.
Diethylene glycol methyl ether acetate.
Polyalkylene oxide polyol ..................................
Polyalkyl methacrylate (C1–C20) ......................
Polybutadiene, hydroxyl terminated ..................
Polybutene .........................................................
Polybutenyl succinimide ....................................
Polydimethylsiloxane ......................................
Polyether (molecular weight 2000+) .................
Polyethylene glycol ............................................
Polyethylene glycol dimethyl ether ....................
Polyethylene glycol monoalkyl ether, see
Poly(2-8)alkylene glycol monoalkyl(C1–C6)
ether ...............................................................
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) .......
•Polyglycerol ......................................................
•Poly(4+) isobutylene ........................................
Polymerized esters ............................................
Polyolefin (molecular weight 300+) ...................
Polyolefin amide alkeneamine (C28+) ..............
Polyolefin amide alkeneamine borate (C28–
C250) .............................................................
•Polyolefin amide alkeneamine/Molybdenum
oxysulfide mixture ..........................................
Polyolefin amide alkeneamine polyol ................
Polyolefin anhydride ..........................................
Polyolefin ester (C28–C250) .............................
Polyolefin phenolic amine (C28–C250) .............
Polyolefin phosphorosulfide, barium derivative
(C28–C250) ....................................................
•Poly(20)oxyethylene sorbitan monooleate .......
•Poly(5+) propylene ...........................................
Polypropylene glycol ..........................................
Polypropylene glycol methyl ether, see Poly(28)alkylene glycol monoalkyl(C1-C6) ether
Polysiloxane .......................................................
•Potassium oleate .............................................
Propane .............................................................
•n-Propoxypropanol (propylene glycol propyl
ether), see Propylene glycol monoalkyl
ether ..............................................................
•iso-Propyl acetate ............................................
•n-Propyl acetate ...............................................
•iso-Propyl alcohol .............................................
•n-Propyl alcohol ...............................................
•iso-Propylbenzene
(cumene),
see
Propylbenzene (all isomers) .......................
•n-Propylbenzene, see Propylbenzene (all
isomers) ........................................................

D
D

D

C
[D]
[III]
III
[D]
#
D
III
III

D
III
III
III
#
III
D
D
III
D
D
D
D
C
III
III
D
D
III
C
LFG

D
III
D
III
III
A
A

Cargoes

Pollution
category

Propylbenzene (all isomers) ..............................
iso-Propylcyclohexane .......................................
Propylene ...........................................................
Propylene-butylene copolymer ..........................
Propylene carbonate .........................................
Propylene dimer ................................................
Propylene glycol ................................................
Propylene glycol n-butyl ether, see Propylene
glycol monoalkyl ether ................................
•Propylene glycol ethyl ether, see Propylene
glycol monoalkyl ether ................................
•Propylene glycol methyl ether, see Propylene
glycol monoalkyl ether ................................
Propylene glycol methyl ether acetate ..............
Propylene glycol monoalkyl ether
Including:.
n-Propoxypropanol.
Propylene glycol n-butyl ether.
Propylene glycol ethyl ether.
Propylene glycol methyl ether.
Propylene glycol phenyl ether ...........................
Propylene glycol propyl ether, see Propylene
glycol monoalkyl ether ...................................
Propylene polymer (in liquid mixtures) ..............
Propylene tetramer ............................................
Propylene trimer ................................................
•Pseudocumene, see Trimethylbenzenes ......
•Rum, see Alcoholic beverages, n.o.s. .............
•Sodium acetate, Glycol, Water mixture (containing 1% or less, Sodium hydroxide) (if
flammable or combustible) .............................
•Sodium acetate solution ..................................
•Sodium benzoate solution ...............................
Sodium long chain alkyl salicylate (C13+) ........
Soyabean oil (epoxidized) .................................
•Stearic acid, see Fatty acid (saturated,
C13+) .............................................................
Stearyl alcohol (octadecanol) ............................
Sulfohydrocarbon (C3–C88) ..............................
Sulfohydrocarbon,
long
chain
(C18+)
alkylamine ......................................................
Sulfolane ............................................................
Tallow ................................................................
•Tallow alcohol, see Alcohols (C13+) ...............
Tallow fatty acid .................................................
Tallow alkyl nitrile ..............................................
•Tetradecanol, see Alcohols (C13+) ...............
•Tetradecene, see the olefin or alpha-olefin entries ................................................................
•Tetradecylbenzene ...........................................
Tetraethylene glycol ..........................................
Tetrahydronaphthalene ......................................
•Tetrapropylbenzene, see Alkyl(C9+)benzenes
Toluene ..............................................................
•Triarylphosphate,
see
Triisopropylated
phenyl phosphates ......................................
Tributyl phosphate .............................................
Tricresyl phosphate (less than 1% of the ortho
isomer) ...........................................................
•Tridecane, see n-Alkanes (C10+) ..................
Tridecanoic acid ................................................
•Tridecanol, see Alcohols (C13+) .....................
•Tridecene, see Olefins (C13+) .......................
Tridecyl acetate .................................................
•Tridecylbenzene ...............................................
Triethylbenzene .................................................
Triethylene glycol ...............................................
Triethylene glycol butyl ether, see Poly(28)alkylene glycol monoalkyl(C1-C6) ether
Triethylene glycol butyl ether mixture ...............

A
C
LFG
III
[III]
C
III
D
D
D
D
D

[D]
D
#
B
B
....................
....................

#
D
D
[C]
[D]
III
III
D
B
D
D
III
D
#
III
....................
[D]
III
C
....................
C
A
B
A
III
B
....................
III
III
[D]
A
III
D
#

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Frm 00379

Fmt 8010

Sfmt 8010

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PsN: 183175T


### TABLE 30.25-1—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

<table>
<thead>
<tr>
<th>Cargoes</th>
<th>Pollution category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol di-(2-ethylbutyrate)</td>
<td>[C]</td>
</tr>
<tr>
<td>Triethylene glycol ether mixture</td>
<td></td>
</tr>
<tr>
<td>•Triethylene glycol ethyl ether, see Poly[2-8]alkylene glycol monoalkyl(C1-C6) ether</td>
<td></td>
</tr>
<tr>
<td>•Triethylene glycol methyl ether, see Poly[2-8]alkylene glycol monoalkyl(C1-C6) ether</td>
<td></td>
</tr>
<tr>
<td>Triethyl phosphate</td>
<td>D</td>
</tr>
<tr>
<td>Triisooctyl trimellitate</td>
<td></td>
</tr>
<tr>
<td>Trisopropylamine</td>
<td></td>
</tr>
<tr>
<td>Trisopropylated phenyl phosphates</td>
<td></td>
</tr>
<tr>
<td>Trimethyl/benzene (all isomers)</td>
<td></td>
</tr>
<tr>
<td>2,2,4-Trimethyl-1,3-pentandiol disobutyrate</td>
<td></td>
</tr>
<tr>
<td>Tripropylene, see Propylene trimer</td>
<td></td>
</tr>
<tr>
<td>Tripropylene glycol glycidyl ether</td>
<td></td>
</tr>
<tr>
<td>•Tripropylene glycol methyl ether, see Poly[2-8]alkylene glycol monoalkyl(C1-C6) ether</td>
<td></td>
</tr>
<tr>
<td>Trixylyl phosphate, see Trixylenyl phosphate</td>
<td>A</td>
</tr>
<tr>
<td>Trixylenyl phosphate</td>
<td></td>
</tr>
<tr>
<td>Tripropylene glycol methyl ether, see Poly[2-8]alkylene glycol monoalkyl(C1-C6) ether</td>
<td></td>
</tr>
<tr>
<td>Turpentine</td>
<td>B</td>
</tr>
<tr>
<td>Triethylene glycol monoaalkyl(C1-C6) ether</td>
<td>D</td>
</tr>
<tr>
<td>Triethylene glycol di-C1-C6</td>
<td>D</td>
</tr>
<tr>
<td>Dipeptide, see Propylene trimer</td>
<td></td>
</tr>
<tr>
<td>Poly(2-alkylene glycol monoalkyl(C1-C6) ether)</td>
<td></td>
</tr>
<tr>
<td>•Turpentine substitute, see White spirit (low (15-20%) aromatic)</td>
<td></td>
</tr>
<tr>
<td>Undecane, see 1-Undecyl alcohol</td>
<td></td>
</tr>
<tr>
<td>Undecane</td>
<td></td>
</tr>
<tr>
<td>1-Undecyl alcohol</td>
<td></td>
</tr>
<tr>
<td>1-Undecyl alcohol (isomers)</td>
<td></td>
</tr>
<tr>
<td>Undecylenzene</td>
<td></td>
</tr>
<tr>
<td>Vegetable oils, n.o.s. (see also Oil, edible)</td>
<td></td>
</tr>
<tr>
<td>Including:</td>
<td></td>
</tr>
<tr>
<td>Beechnut oil</td>
<td>B</td>
</tr>
<tr>
<td>Castor oil</td>
<td>B</td>
</tr>
<tr>
<td>Cocoa butter</td>
<td>B</td>
</tr>
<tr>
<td>Coconut oil</td>
<td>B</td>
</tr>
<tr>
<td>Corn oil</td>
<td>B</td>
</tr>
<tr>
<td>Cottonseed oil</td>
<td>B</td>
</tr>
<tr>
<td>Groundnut oil</td>
<td>B</td>
</tr>
<tr>
<td>Hazelnut oil</td>
<td>B</td>
</tr>
<tr>
<td>Linseed oil</td>
<td>B</td>
</tr>
<tr>
<td>Nutmeg butter</td>
<td>B</td>
</tr>
<tr>
<td>Olivenia oil</td>
<td>B</td>
</tr>
<tr>
<td>Olive oil</td>
<td>B</td>
</tr>
<tr>
<td>Palm kernel oil</td>
<td>B</td>
</tr>
<tr>
<td>Palm oil</td>
<td>B</td>
</tr>
<tr>
<td>Peel oil (oranges and lemons)</td>
<td>B</td>
</tr>
<tr>
<td>Penilla oil</td>
<td>B</td>
</tr>
<tr>
<td>Poppy oil</td>
<td>B</td>
</tr>
<tr>
<td>Raisin seed oil</td>
<td>B</td>
</tr>
<tr>
<td>Rapeseed oil</td>
<td>B</td>
</tr>
<tr>
<td>Rice bran oil</td>
<td>B</td>
</tr>
<tr>
<td>Safflower oil</td>
<td>B</td>
</tr>
<tr>
<td>Salad oil</td>
<td>B</td>
</tr>
<tr>
<td>Sesame oil</td>
<td>B</td>
</tr>
<tr>
<td>Soya bean oil</td>
<td>B</td>
</tr>
<tr>
<td>Sunflower seed oil</td>
<td>B</td>
</tr>
<tr>
<td>Tucum oil</td>
<td>B</td>
</tr>
<tr>
<td>Tung oil</td>
<td>B</td>
</tr>
<tr>
<td>Walnut oil</td>
<td>B</td>
</tr>
<tr>
<td>Vegetable oils and distillates, n.o.s.</td>
<td>B</td>
</tr>
</tbody>
</table>

### NOTE: See Table 2 of Part 153 for additional cargoes permitted to be carried by tank barge.

Explanations of Symbols: As used in this table the following stands for:

- A, B, C, D—NLS Category of Annex II of MARPOL 73/78.
- I—Considered an “oil” under Annex I of MARPOL 73/78.
- III—Appendix III of Annex II (non-NLS cargoes) of MARPOL 73/78.
- LFG—Liquefied flammable gas.
- No determination of NLS status. For shipping on an oceangoing vessel, see 46 CFR 153.900(c).
- A—A NLS category in brackets indicates that the product is provisionally categorized and that further data are necessary to complete the evaluation of its pollution hazards. Until the hazard evaluation is completed, the pollution category assigned is used.
- @—The NLS category has been assigned by the U.S. Coast Guard, in absence of one assigned by the IMO. The category is based upon a GESAMP Hazard Profile or by analogy to a closely related product having an NLS assigned.
- #—The provisions contained in 46 CFR part 197, subpart C, may apply to this cargo.

Abbreviations for Noxious liquid Cargoes:

- N.F.—Non-flammable.
- F.—Flammable.
- ST.—Ship type.
- Cat.—Pollution category.

Words in italics are not part of the cargo name but may be added in addition to the cargo name. When one entry references another entry by use of the word “see”, and both names are in roman type, either name may be used as the cargo name (e.g., Diethyl ether, see Ethyl ether). However, the referenced entry is preferred.

Coast Guard, DOT

§ 30.25–3 Benzene.

The provisions contained in 46 CFR part 197, subpart C, apply to liquid cargoes containing 0.5% or more benzene by volume.


Subpart 30.30—Interim Procedures for Evaluating Vessel Personnel Licensing and Certification Programs of Foreign Countries

SOURCE: CGD 79–081a, 45 FR 23427, Apr. 7, 1980, unless otherwise noted.

§ 30.30–1 Scope and purpose.

(a) This subpart contains procedures for evaluating vessel personnel licensing and certification programs of foreign countries. Evaluations are done for countries which license or certify personnel serving on tank vessels that enter or operate in U.S. navigable waters and ports.

(b) The purpose of each evaluation is to determine whether a foreign licensing and certification program has standards that are comparable to or more stringent than U.S. standards.

(c) A determination that licensing and certification standards of a foreign country are not comparable to or more stringent than U.S. standards will subject tank vessels manned with officers licensed by that country to the prohibition in 33 U.S.C. 1228(a)(5) on operation with those officers in U.S. navigable waters and ports.

§ 30.30–3 Evaluation materials.

The materials to be submitted for evaluation must include the English text of the following:

(a) All laws, decrees, orders, and regulations relating to manning, training, qualification, and watchkeeping of personnel on tank vessels engaged in foreign trade.

(b) A copy of each type of license and certificate issued by the country to tank vessel personnel.

§ 30.30–5 Submission of evaluation materials.

(a) The evaluation materials listed in § 30.30–3 should be sent to Commandant (G–MOC), U.S. Coast Guard Headquarters, 2100 Second Street, SW., Washington, DC 20593. The materials should include the name and address of the person to whom correspondence concerning the evaluation can be sent.

(b) Updated materials may be submitted at any time during the evaluation process.


§ 30.30–7 Availability of materials.

Evaluation materials submitted in accordance with this subpart will be available for inspection and copying between 7:30 a.m. and 4:30 p.m., Monday through Thursday, except holidays, at Coast Guard Headquarters, room 1104, 2100 Second Street, SW., Washington, DC 20593. Telephone: (202) 267–2978.

[CGD 79–081a, 45 FR 23427, Apr. 7, 1980, as amended by CGD 95–072, 60 FR 50461, Sept. 29, 1995]

§ 30.30–9 Evaluation.

Materials submitted in accordance with this subpart will be evaluated by comparison to the regulations in parts 5, 10, and 13 of this chapter, and by comparison to the U.S. laws referenced in those regulations.


§ 30.30–11 Determinations.

(a) After evaluation of materials submitted in accordance with this subpart, a determination will be made as to whether the licensing and certification program described by the materials has standards that are comparable to or more stringent than standards set by the regulations and laws referenced in § 30.30–9.

(b) Notice of each determination made in accordance with this section and a brief explanation of reasons therefor will be published in the Federal Register. A copy of this notice will also be sent to the person whose name is provided in accordance with § 30.30–5.

(c) Each determination remains in effect for 5 years unless sooner cancelled.
(d) Any request to reconsider a determination must be submitted to the address listed in §30.30-5 and must include a statement of reasons in support. The person submitting the request will be notified in writing of the action taken.

PART 31—INSPECTION AND CERTIFICATION

Subpart 31.01—General

Sec.
31.01-1 Inspections required—TB/ALL.
31.01-3 Alternate compliance.
31.01-5 Scope of initial inspection—TB/ALL.
31.01-10 Authority of marine inspectors—TB/ALL.
31.01-15 Application for inspection—TB/ALL.
31.01-20 Application for inspection of a new tank vessel or conversion of a vessel to a tank vessel—TB/ALL.

Subpart 31.05—Certificates of Inspection

31.05-1 Issuance of certificate of inspection—TB/ALL.
31.05-5 Posting the certificate of inspection—TB/ALL.
31.05-10 Period of validity of certificate of inspection—TB/ALL.
31.05-15 Certificate of inspection; terms; endorsements—TB/ALL.

Subpart 31.10—Inspections

31.10-1 Recognized classification society—TB/ALL.
31.10-5 Inspection of new tank vessels—TB/ALL.
31.10-10 Vessels converted to tank vessels—TB/ALL.
31.10-15 Inspection for certification—TB/ALL.
31.10-16 Inspection and certification of cargo gear—TB/ALL.
31.10-17 Reinspection—TB/ALL.
31.10-18 Firefighting equipment: General—TB/ALL.
31.10-18a Liquefied gas vessels: additional firefighting equipment inspections.
31.10-19 All firefighting equipment may be tested—TB/ALL.
31.10-20 Definitions relating to hull examinations—TB/ALL.
31.10-21 Drydock examination, internal structural examination, cargo tank internal examination, and underwater survey intervals—TB/ALL.
31.01-21a Periodic gauging of tank vessel midbodies more than 30 years old that carry certain oil cargoes—TB/ALL.
31.10-22 Notice and plans required.
§ 31.01-1 Inspections required—TB/ALL.

(a) Every tank vessel subject to the regulations in this subchapter shall be inspected biennially, annually, or more often, if necessary, by the Coast Guard to see that the hull, boilers, machinery, equipment, apparatus for storage, and appliances of the vessel comply with marine inspection laws, and the regulations in this subchapter, and when applicable, subchapters E, F, J, O, Q, S, and W of this chapter and 33 CFR parts 155 and 157.

(b) Tank vessels which are laid up, dismantled, and out of commission are exempt from inspections required by law or regulations in this subchapter, provided that such vessels are cleaned of all cargo residue and maintained in a gas free condition.

(c) For inspection and tests of tanks containing certain dangerous cargoes in bulk, see part 98 and subchapter O of this chapter.

§ 31.01-5 Scope of initial inspection—TB/ALL.

The initial inspection, which may consist of a series of inspections during the construction of a vessel, shall include a complete inspection of the structure, including the outside of the vessel's bottom, the machinery, unfired pressure vessels, equipment and the inside and outside of the boilers. The inspection shall be such as to ensure that the arrangements, material, and scantlings of the structure, boilers and other pressure vessels and their appurtenances, piping, main and auxiliary machinery, electrical installations, lifesaving appliances, fire-detecting and extinguishing equipment, pilot boarding equipment and other equipment fully comply with the applicable regulations for such vessel and are in accordance with approved plans, and determine that the vessel is in possession of a valid certificate issued by the Federal Communications Commission, if any. The inspection shall be such as to ensure that the workmanship of all parts of the vessel and its equipment is in all respects satisfactory and that the vessel is provided with lights, means of making sound signals, and distress signals as required by applicable statutes and regulations.

§ 31.01-10 Authority of marine inspectors—TB/ALL.

Inspectors may at any time lawfully inspect any tank vessel.
§ 31.01–15 Application for inspection—TB/ALL.

(a) Application in writing for the inspection incident to the issuance or reissuance of a certificate of inspection to every tank vessel required to be inspected by law and the regulations in this subchapter shall be made by the master, owner, or agent to the Officer in Charge, Marine Inspection, at any local marine inspection office, U.S. Coast Guard, where the vessel may be operated.

(b) The application should be on Form CG–3752, Application for Inspection of U.S. Vessel, which requires information on name and type of vessel, nature of employment and route in which to be operated, grade or type of cargo to be carried, place where and date when the vessel may be inspected, and that no other application has been made to any Officer in Charge, Marine Inspection, since the issuance of the last valid certificate of inspection.

§ 31.01–20 Application for inspection of a new tank vessel or conversion of a vessel to a tank vessel—TB/ALL.

Prior to the commencement of the construction of any new tank vessel, or prior to the commencement of the conversion of any vessel to a tank vessel, application for the approval of contract plans and specifications and for a certificate of inspection shall be made in writing to the Coast Guard and no such construction or conversion shall be proceeded with until such approval is granted. (See §31.10–1.)

Subpart 31.05—Certificates of Inspection

§ 31.05–1 Issuance of certificate of inspection—TB/ALL.

(a) When a tank vessel is found to comply with the regulations in this subchapter, and applicable provisions of subchapters E, F, J, O, Q, S, and W of this chapter and 33 CFR parts 155 and 157, a certificate of inspection will be issued to it, or to its owners, by the Officer in Charge, Marine Inspection.

(b) Certificates of inspection for tank vessels shall be similar in form to certificates issued to other cargo vessels, and in addition to the manning requirements and waters over which they may be operated, they shall be appropriately endorsed inspected and approved for the carriage of flammable or combustible liquids of Grade A, B, C, D, or E (as the case may be), and such endorsement shall serve as a permit for such vessel to operate. The endorsement for the carriage of liquefied flammable gases is set forth in §38.01–5 of this subchapter.

(c) The certificate of inspection shall be delivered to the master or owner of the tank vessel to which it relates.

§ 31.05–5 Posting the certificate of inspection—TB/ALL.

The certificate of inspection shall be framed under glass and posted in a conspicuous part of the vessel, except that where it is not practicable to so expose the certificate of inspection it shall be carried in the vessel in such manner as authorized by the Officer in Charge, Marine Inspection.

§ 31.05–10 Period of validity of certificate of inspection—TB/ALL.

(a) Certificates of inspection will be issued for periods of either 1 or 2 years.

(b) Application may be made by the master, owner, or agent for inspection and issuance of a new certificate of inspection at any time during the period of validity of the current certificate.

(c) Certificates of inspection may be revoked or suspended by the Coast Guard where such process is authorized by law. This may occur if the vessel does not meet the requirements of law or regulations in this chapter or if there is a failure to maintain the safety requirements requisite to the issuance of a certificate of inspection.

§ 31.05–15 Certificate of inspection; terms; endorsements—TB/ALL.

The terms, endorsements and conditions set forth on a certificate of inspection shall have the same force and effect as the regulations contained in this subchapter.
Subpart 31.10—Inspections

§ 31.10-1 Recognized classification society—TB/ALL.

(a) In the inspection of hulls, boilers, and machinery, the current standards established by the American Bureau of Shipping and designated Rules for Building and Classing Steel Vessels respecting material and construction of hulls, boilers, and machinery, except as otherwise provided for by law and regulations in this chapter, shall be accepted as standard by the Coast Guard.

(b) The current standards established by the American Bureau of Shipping in effect at the time of construction of the vessel, or otherwise as applicable, shall be used. The book Rules for Building and Classing Steel Vessels is usually published annually and may be purchased from the American Bureau of Shipping, Two World Trade Center, 100th Floor, New York, NY 10048. These standards may be also examined at the office of the Commandant (G-M), U.S. Coast Guard, Washington, DC 20593-0001, or at the office of any Coast Guard District Commander or Officer in Charge, Marine Inspection.

(c) The approved plans and certificate of the American Bureau of Shipping, or other recognized classification society for classed vessels, may be accepted by the Coast Guard as evidence of the structural efficiency of the hull and reliability of machinery of vessels subject to the regulations in this subchapter, except as otherwise provided for by laws and regulations in this chapter.

§ 31.10-5 Inspection of new tank vessels—TB/ALL.

(a) Plans. Triplicate copies of contract plans and specifications shall be forwarded to the Officer in Charge, Marine Inspection, in whose district the construction will take place, for submission to Headquarters for approval, but if the tank vessel is to be classed, such plans and specifications shall first be approved by a recognized classification society. If the plans and specifications are found to be in substantial agreement with the regulations in this chapter, they shall be approved, properly stamped and dated and distributed as follows: One set to owner or builder; one set to Officer in Charge, Marine Inspection, of the district in which the vessel is to be built; and one set shall be retained at Headquarters. If such plans and specifications are not approved, Headquarters shall notify the owner or builder promptly wherein they fail to comply with the regulations in this chapter. For list of electrical plans see subchapter J (Electrical Engineering) of this chapter.

(1) The plans and specifications shall include the arrangement of the cargo gear. Plans and specifications for cargo gear shall be approved by either a recognized classification society or the International Cargo Gear Bureau, Inc., whose home office is located at 90 West Street, Suite 1612, New York, NY 10006, prior to submission to the Officer in Charge, Marine Inspection.

(2) For vessels of 100 meters (328 feet) or more in length contracted for on or after September 7, 1990, a plan must be included which shows how visibility from the navigation bridge will meet the standards contained in § 32.16-1 of this subchapter.

(b) Inspection. During construction, and upon completion of each tank vessel, it shall be inspected by the Officer in Charge, Marine Inspection, to determine whether it has been built in accordance with the approved plans and specifications, and, if so, a certificate of inspection endorsed as a permit for the carriage of flammable or combustible liquids in bulk for the proper grade or grades of cargo shall be issued to the vessel or its owner.

(c) Certificate of class may be accepted. In the event such tank vessel is classed by the American Bureau of Shipping or other recognized classification society, the approved plans and certificates of such society may be accepted by the
§ 31.10-10 Coast Guard as evidence of the structural efficiency of the hull and reliability of machinery, except as otherwise provided for by law and the rules and regulations in this subchapter.


§ 31.10-10 Vessels converted to tank vessels—TB/ALL.

The procedure for the inspection of vessels converted to tank vessels shall conform to the inspection for new tank vessels as called for in § 31.10-5(b), and such vessels shall comply with the requirements of inspections for converted vessels as set forth in the regulations in this subchapter.

§ 31.10-15 Inspection for certification—TB/ALL.

(a) The Officer in Charge, Marine Inspection, shall once in every 2 years, at least, carefully inspect such tank vessel within his jurisdiction and shall satisfy himself that every such vessel so inspected is of a structure suitable for the carriage of flammable and/or combustible liquids in bulk and for the proper grade or grades of such cargo in the service in which she is employed. If the Officer in Charge, Marine Inspection, deems it expedient, he may direct the vessel to be put in motion, and may adopt any other suitable means to test her sufficiency and that of her equipment.

(b) The inspection for certification shall include an inspection of the structure, boilers, and other pressure vessels, machinery and equipment. The inspection shall be such as to insure that the vessel, as regards the structure, boilers, and other pressure vessels and their appurtenances, piping, main and auxiliary machinery, electrical installations, life-saving appliances, fire-detecting and extinguishing equipment, pilot boarding equipment, and other equipment is in satisfactory condition and fit for the service for which it is intended, and that it complies with the applicable regulations for such vessels, and determine that the vessel is in possession of a valid certificate issued by the Federal Communications Commission, if required. The lights, means of making sound signals, and distress signals carried by the vessel shall also be subject to the above-mentioned inspection for the purpose of ensuring that they comply with the requirements of the applicable statutes and regulations.


§ 31.10-16 Inspection and certification of cargo gear—TB/ALL.

(a) The owner, operator or master shall provide the Officer in Charge, Marine Inspection with all current valid certificates and registers of cargo gear issued by competent persons or a recognized organization or nonprofit association approved by the Commandant to certify the suitability of the cargo gear.

(b) Every acceptable cargo gear certificate and/or register shall be properly executed by a person authorized to do so and shall:

(1) Certify as to the tests and examinations conducted;

(2) Show the dates on which the tests and examinations were conducted; and

(3) Indicate that the cargo gear described in the certificate or register complies with the standards of the organization or association authorized to issue the certificate or register.

(c) Competent persons for the purposes of this section are defined as—

(1) Surveyors of a classification society recognized by the Commandant under 46 U.S.C. 3316;

(2) Surveyors of a recognized cargo gear organization; or

(3) Responsible officials or employees of the testing laboratories, companies, or organizations who conduct tests of pieces of loose cargo gear, wire rope, or the annealing of gear as may be required by the standards of the organization or association authorized to issue the certificate or register.

(d) The registers issued in connection with cargo gear certification must have all required entries fully completed as of the dates indicated, shall be kept current, and shall include the following:
(1) A register of the cargo handling machinery and the gear accessory thereto carried on the vessel named therein;

(2) Certification of the testing and examination of winches, derricks, and their accessory gear;

(3) Certification of the testing and examination of cranes, hoists, and their accessory gear;

(4) Certification of the testing and examination of chains, rings, hooks, shackles, swivels, and blocks;

(5) Certification of the testing and examination of wire rope;

(6) Certification of the heat treatment of chains, rings, hooks, shackles, and swivels which require such treatment;

(7) Certification of the annual thorough examinations of gear not required to be periodically heat treated.

(e) The authorization for an organization to perform the required inspection is granted by the Commandant (G-MOC), and will continue until superseded, canceled, or modified. The following organization is currently recognized, by the Commandant (G-MOC), as having the technical competence to handle the required inspection:

The International Cargo Gear Bureau, Inc., with home office at 90 West Street, Suite 1612, New York, New York 10006.


§ 31.10-17 Reinspection—TB/ALL.

(a) At least one reinspection shall be made on each vessel holding a certificate of inspection valid for two years. This reinspection will be made, where possible, between the tenth and fourteenth month of the period for which the certificate is valid. No written application for reinspection will be required.

(b) The inspector shall examine all accessible parts of the vessel's hull, machinery, and equipment to be assured that it is in a satisfactory condition.

(c) In general, the scope of the reinspection shall be the same as for the inspection for certification, but will be in less detail unless it is determined that a major change has occurred since the last inspection.

(d) Nothing in this subpart shall be construed as limiting the inspector from making such tests or inspections as he deems necessary to be assured of the seaworthiness of the vessel.

(e) If the reinspection reveals deficiencies in the maintenance as called for by the regulations in this subchapter, such necessary repairs or improvements shall be made as may be ordered.

§ 31.10-18 Firefighting equipment: General—TB/ALL.

(a) It shall be the duty of the owner, master, or person in charge of a tank vessel to require and have performed at least once in every 12 months, the tests and inspections of all hand portable fire extinguishers, semiportable fire extinguishing systems, and fixed fire extinguishing systems on board, as described in paragraphs (b), (c), and (d) of this section. The owner, master, or person in charge shall keep records of such tests and inspections showing the dates when performed, the number and/or other identification of each unit tested and inspected, and the name(s) of the person(s) and/or company conducting the tests and inspections. Such records shall be made available to the marine inspector upon request and shall be kept for the period of validity of the vessel's current certificate of inspection. Where practicable, these records should be kept in or with the vessel's logbook. The conduct of these tests and inspections does not relieve the owner, master, or person in charge of his responsibility to maintain this firefighting equipment in proper condition at all times.

(b) The following tests and inspections of portable fire extinguishing equipment shall be made:

<table>
<thead>
<tr>
<th>Type unit</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump tank (water or antifreeze)</td>
<td>Discharge. Clean hose and inside of extinguisher thoroughly. Recharge with clean water or antifreeze.</td>
</tr>
</tbody>
</table>
§ 31.10–18

(c) The following tests and inspections of fixed fire extinguishing equipment shall be made:

TABLE 31.10–18(c)–Continued

<table>
<thead>
<tr>
<th>Type system</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foam .......</td>
<td>Systems utilizing a soda solution shall have such solution replaced. In all cases, ascertain that powder is not caked.</td>
</tr>
</tbody>
</table>

(d) Deck foam systems shall be tested biennially by discharging foam at approximately 15 seconds from any nozzle designated by the marine inspector. It shall not be required to deliver foam from all foam outlets, but all lines and nozzles shall be tested with water to prove them to be clear of obstruction. Prior to the biennial inspection of deck foam systems utilizing a mechanical foam system, a representative sample of the foam liquid shall be submitted to the manufacturer who will issue a certificate indicating gravity, pH, percentage of water dilution and solid content.

(e) At each inspection for certification and at such other times as considered necessary, the inspector shall determine that all fire extinguishing equipment is in suitable condition and that the tests and inspections required by paragraphs (b) through (i) of this section have been conducted. In addition, the marine inspector may require such tests as are considered necessary to determine the condition of the equipment.

(f) On all fire extinguishing systems, all the piping, controls, valves, and alarms shall be checked by the marine inspector to ascertain that the system is in good operating condition.

(g) The fire main system shall be operated and the pressure checked at the most remote and highest outlets by the marine inspector. All fire hose shall be subjected to a test pressure equivalent to the maximum pressure to which they may be subjected in service, but not less than 100 p.s.i. The marine inspector shall check that the hose couplings are securely fastened in accordance with the regulations of this subchapter.

(h) At each inspection for certification and at such other times as considered necessary, all carbon dioxide cylinders for fixed, semiportable, and portable systems shall be examined and

1 Cylinders must be tested and marked, and all flexible connections on fixed carbon dioxide and halon extinguishers must be tested or renewed, as required by §§ 147.60 and 147.65 of this chapter.

2 Vaporizing-liquid type fire extinguishers containing carbon tetrachloride or chlorobromomethane or other toxic vaporizing liquids shall be removed from all vessels.

TABLE 31.10–18(b)–Continued

<table>
<thead>
<tr>
<th>Type unit</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridge operated (water, antifreeze or loaded stream).</td>
<td>Examine pressure gage and replace if end is punctured or if cartridge is otherwise determined to have leaked or to be in unsuitable condition. Remove liquid, clean hose and inside of extinguisher thoroughly. Recharge with clean water, solution, or antifreeze. Insert charged cartridge.</td>
</tr>
<tr>
<td>Stored pressure (water, antifreeze or loaded stream).</td>
<td>See that pressure gage is in operating range. If not, or if seal is broken, weigh or otherwise determine that full charge is in extinguisher. Recharge if pressure is low or if extinguishing agent is needed.</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>Weigh cylinders. Recharge if weight loss exceeds 10 percent of weight of charge. Inspect hose and nozzle to be sure they are clear.</td>
</tr>
<tr>
<td>Dry chemical (cartridge-operated type).</td>
<td>Examine pressure gage and replace if end is punctured or if cartridge is otherwise determined to have leaked or to be in unsuitable condition. Inspect hose and nozzle to see if they are clear. Insert charged cartridge. Be sure dry chemical is free flowing (not caked) and chamber contains full charge.</td>
</tr>
<tr>
<td>Dry chemical (stored pressure type).</td>
<td>See that pressure gage is in operating range. If not, or if seal is broken, weigh or otherwise determine that full charge of dry chemical is in extinguisher. Recharge if pressure is low or if dry chemical is needed.</td>
</tr>
<tr>
<td>Vaporizing liquid (pump type).</td>
<td>Pump a few strokes into clean pail and replace liquid. Keep water out of extinguisher or liquid. Keep extinguisher completely full of liquid.</td>
</tr>
<tr>
<td>Vaporizing liquid (stored pressure type).</td>
<td>See that pressure gage is in operating range. Weigh or check liquid level to determine that full charge of liquid is in extinguisher. Recharge if pressure is low or if liquid is needed.</td>
</tr>
</tbody>
</table>

1 Cylinders must be tested and marked, and all flexible connections on fixed carbon dioxide and halon extinguishers must be tested or renewed, as required by §§ 147.60 and 147.65 of this chapter.
replaced if any corrosion is found. They shall also be checked by weighing to determine their contents, and if found to be more than 10 percent under the required contents of carbon dioxide, they shall be recharged.

(i) Steam smothering lines shall be tested with at least 50 pounds per square inch of air pressure or by blowing steam through the lines at the working pressure and a survey made for detecting corrosion and defects using hammer test or such other means as may be necessary.


§ 31.10–18a Liquefied gas vessels: additional firefighting equipment inspections.

(a) Once during each 12 month period after the month an original Certificate of Inspection is issued for a liquefied gas vessel under § 31.05–1, the master shall ensure that the firefighting systems required in part 154 of this chapter for a liquefied gas vessel meets the following:

(1) The exterior water spray system must pass a water spray test.

(2) The dry chemical system must meet the manufacturer’s specifications for—

(i) The amount of dry chemical powder; and

(ii) The pressure for nitrogen bottles.

(3) The piping, valves, and controls of the system must be operable.

(b) On the same date that the requirements under paragraph (a) of this section are met, the master shall record in the vessel’s official logbook the following information:

(1) The date of the inspection.

(2) The identification of each device inspected.

(3) The name of the inspector.

[CGD 74–289, 44 FR 26006, May 3, 1979]

§ 31.10–19 All firefighting equipment may be tested—TB/ALL.

(a) During the inspection of firefighting equipment, the Officer in Charge, Marine Inspection, may require fire apparatus to be tested, and used, except as provided under §§ 31.10–18(h) and 34.15–90(a) of this subchapter.

(b) [Reserved]

§ 31.10–20 Definitions relating to hull examinations—TB/ALL.

As used in this part—

(a) Drydock examination means haul- ing out of a vessel or placing a vessel in a drydock or slipway for an examination of all accessible parts of the vessel’s underwater body and all through-hull fittings.

(b) Internal structural examination means an examination of the vessel while afloat or in drydock and consists of a complete examination of the vessel’s main strength members, including the major internal framing, the hull plating, voids, and ballast tanks, but not including cargo or fuel oil tanks.

(c) Cargo tank internal examination means an examination of the vessel while afloat or in drydock and consists of an examination of the internals of all cargo tanks; except, if the vessel is certificated to carry cargoes regulated under part 38 or subchapter O of this chapter, the cargo tank internal examination must be accomplished as specified in parts 38 and 151 of this chapter respectively.

(d) Underwater survey means the examination, while the vessel is afloat, of all accessible parts of the vessel’s underwater body and all through-hull fittings.


§ 31.10–21 Drydock examination, internal structural examination, cargo tank internal examination, and underwater survey intervals—TB/ALL.

(a) Except as provided in paragraphs (b) through (g) of this section, each tank vessel must undergo drydock, internal structural, and cargo tank internal examinations as follows:

(1) Except under paragraph (a)(2) of this section, vessels that operate in salt water must be inspected in accordance with the intervals set forth in table 31.10–21(a). Where table 31.10–21(a) indicates a 2.5 year examination interval, it means a vessel must undergo two examinations within any five year period. No more than three years may elapse between any two examinations.

(b) [Reserved]

389
(2) Vessels that operate in fresh water at least six months in every 12 month period since the last drydock examination must be examined in accordance with the intervals set forth in table 31.10-21(b). Where table 31.10-21(b) indicates a 2.5 year examination interval, it means a vessel must undergo a 2.5 year examination interval;

<table>
<thead>
<tr>
<th></th>
<th>Ship and single hull barge</th>
<th>Double hull barge with internal framing</th>
<th>Double hull barge with external framing</th>
<th>Single hull barge with independent tanks</th>
<th>Wood hull ship and barge</th>
<th>Ship and single hull barge Grade D and E cargoes only</th>
<th>Double hull barge Grade D and E cargoes only</th>
<th>Single hull asphalt barge</th>
<th>Double hull asphalt barge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drydock</td>
<td>2.5</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>2.5</td>
<td>2.5</td>
<td>5.0</td>
<td>2.5</td>
<td>5.0</td>
</tr>
<tr>
<td>Internal structural</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>5.0</td>
<td>2.5</td>
<td>5.0</td>
<td>2.5</td>
<td>10.0</td>
</tr>
<tr>
<td>Cargo tank internal</td>
<td>5.0</td>
<td>5.0</td>
<td>10.0</td>
<td>10.0</td>
<td>5.0</td>
<td>2.5</td>
<td>10.0</td>
<td>10.0</td>
<td>15.0</td>
</tr>
</tbody>
</table>

Notes:
1. Applicable to double hull tank barges (double sides, ends, and bottoms) when the structural framing is on the internal tank surface.
2. Applicable to double hull tank barges (double sides, ends, and bottoms) when the structural framing is on the external tank surface accessible for examination from voids, double bottoms, and other similar spaces.
3. Applicable to single hull tank barges with independent cargo tanks where the cargo tanks are not a contiguous part of the hull structure and which has adequate clearance between the tanks and between the tanks and the vessel's hull to provide access for examination of all tank surfaces and the hull structure.
4. Applicable to single hull tankships and tank barges certificated for the carriage of Grade D and E cargoes only.
5. Applicable to double hull tank barges (double sides, ends, and bottoms) certificated for the carriage of Grade D and E cargoes only.
6. Applicable to single hull tank barges certificated for the carriage of asphalt only.
7. Applicable to double hull tank barges (double sides, ends, and bottoms) certificated for the carriage of asphalt only.
8. Or as specified in part 38 or 151 as applicable.
Coast Guard, DOT § 31.10-21

Two examinations within any five year period. No more than three years may elapse between any two examinations.

<table>
<thead>
<tr>
<th></th>
<th>Ship and single hull barge&lt;sup&gt;3&lt;/sup&gt;</th>
<th>Double hull barge with internal framing&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Double hull barge with external framing&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Single hull barge with independent tanks&lt;sup&gt;3, 9&lt;/sup&gt;</th>
<th>Wood hull ship and barge</th>
<th>Ship and single hull barge Grade D and E cargoes only&lt;sup&gt;6, 9&lt;/sup&gt;</th>
<th>Double hull barge Grade D and E cargoes only&lt;sup&gt;6, 9&lt;/sup&gt;</th>
<th>Single hull asphalt barge&lt;sup&gt;6, 9&lt;/sup&gt;</th>
<th>Double hull asphalt barge&lt;sup&gt;7&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drydock</td>
<td>5.0</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
<td>2.5</td>
<td>5.0</td>
<td>10.0</td>
<td>5.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Internal structural</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>10.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Cargo tank internal</td>
<td>5.0</td>
<td>5.0</td>
<td>10.0</td>
<td>10.0</td>
<td>2.5</td>
<td>5.0</td>
<td>10.0</td>
<td>10.0</td>
<td>15.0</td>
</tr>
</tbody>
</table>

Notes:

1. Applicable to double hull tank barges (double sides, ends, and bottoms) when the structural framing is on the internal tank surface.
2. Applicable to double hull tank barges (double sides, ends, and bottoms) when the structural framing is on the external tank surface accessible for examination from voids, double bottoms, and other similar spaces.
3. Applicable to single hull tank barges with independent cargo tanks where the cargo tanks are not a contiguous part of the hull structure and which has adequate clearance between the tanks and between the tanks and the vessel's hull to provide access for examination of all tank surfaces and the hull structure.
4. Applicable to single hull tankships and tank barges certificated for the carriage of Grade D and E cargoes only.
5. Applicable to double hull tank barges (double sides, ends, and bottoms) certificated for the carriage of Grade D and E cargoes only.
6. Applicable to single hull tank barges certificated for the carriage of asphalt only.
7. Applicable to double hull tank barges (double sides, ends, and bottoms) certificated for the carriage of asphalt only.
8. Or as specified in part 38 or 151 as applicable.
§ 31.10-21a

(b) During each inspection or reinspection for certification, all wing voids, rakes, cofferdams, and other void spaces on tank barges must be opened and checked from on-deck for the presence of water or cargo indicating hull damage or cargo tank leakage. If water or cargo is not present, these spaces need not be gas freed, ventilated, cleaned, or otherwise prepared for personnel entry. If water or cargo is present, an internal structural examination may be required.

(c) If, during an internal structural examination, cargo tank internal examination, or underwater survey, damage or deterioration to the hull plating, structural members, or cargo tanks is discovered, the Officer in Charge, Marine Inspection, may require the vessel to be drydocked or otherwise taken out of service to further assess the extent of the damage and to effect permanent repairs.

(d) Vessels less than 15 years of age (except wooden hull vessels) that are in salt water service with a 2.5 year drydock interval (as indicated in table 31.10-21(a) of this section) or that are in fresh water service with a five year drydock interval (as indicated in table 31.10-21(b) of this section) may be considered for an underwater survey instead of alternate drydock examinations, provided the vessel is fitted with an effective hull protection system. Vessel owners or operators must apply to the Officer in Charge, Marine Inspection, for approval of underwater surveys instead of alternate drydock examinations for each vessel. The application must include the following information:

(1) The procedure to be followed in carrying out the underwater survey.

(2) The location where the underwater survey will be accomplished.

(3) The method to be used to accurately determine the diver location relative to the hull.

(4) The means that will be provided for examining through-hull fittings.

(5) The means that will be provided for taking shaft bearing clearances.

(6) The condition of the vessel, including the anticipated draft of the vessel at the time of the survey.

(7) A description of the hull protection system.

(e) Vessels otherwise qualifying under paragraph (d) of this section, that are 15 years of age or older may be considered for continued participation in or entry into the underwater survey program on a case-by-case basis, if:

(1) Before the vessel’s next scheduled drydocking, the owner or operator submits a request for participation or continued participation to Commandant (G-MOC);

(2) During the vessel’s next drydocking after the request is submitted, no appreciable hull deterioration is indicated as a result of a complete set of hull gaugings; and

(3) The results of the hull gauging and the results of the Coast Guard drydock examination together with the recommendation of the Officer in Charge, Marine Inspection, are submitted to Commandant (G-MOC) for final approval.

(f) Each vessel which has not met with the applicable examination schedules in paragraphs (a) through (e) of this section because it is on a voyage, must undergo the required examinations upon completion of the voyage.

(g) The Commandant (G-MOC) may authorize extensions to the examination intervals specified in paragraph (a) of this section.


§ 31.10-21a Periodic gauging of tank vessel midbodies more than 30 years old that carry certain oil cargoes—TB/ALL.

(a) As used in this section, the term “midbody” means the 40-percent midship length (0.40L) of the tank vessel. The age of the midbody is determined from its year of original construction.

(b) Midbodies of all tank vessels certificated to carry a pollution category I oil cargo listed in 46 CFR Table 30.25-1 must undergo an initial gauging survey and periodic regauging surveys as follows:

(1) An initial midbody gauging survey must be accomplished no later than the next drydocking inspection after the midbody becomes 30 years old.
§ 31.10–24 Integral fuel oil tank examinations—T/ALL.

(a) Each fuel oil tank with at least one side integral to the vessel’s hull and located within the hull (integral fuel oil tank) is subject to inspection as provided in this section. The owner or operator of the vessel shall have the tanks cleaned out and gas freed as necessary to permit internal examination of the tank or tanks designated by the marine inspector. The owner or operator shall arrange for an examination of the fuel tanks of each vessel during an internal structural examination at intervals not to exceed five years.

(b) Integral non-double-bottom fuel oil tanks need not be cleaned out and internally examined if the marine inspector is able to determine by external examination that the general condition of the tanks is satisfactory.

(c) Double-bottom fuel oil tanks on vessels less than 10 years of age need not be cleaned out and internally examined if the marine inspector is able to determine by external examination
that the general condition of the tanks is satisfactory.

(d) All double-bottom fuel oil tanks on vessels 10 years of age or older but less than 15 years of age need not be cleaned out and internally examined if the marine inspector is able to determine by internal examination of at least one forward double-bottom fuel oil tank, and by external examination of all other double-bottom fuel oil tanks on the vessel, that the general condition of the tanks is satisfactory.

(e) All double-bottom fuel oil tanks on vessels 15 years of age or older but less than 25 years of age need not be cleaned out and internally examined if the marine inspector is able to determine by internal examination of at least one forward, one amidships, and one aft double-bottom fuel oil tank, and by external examination of all other double-bottom fuel oil tanks on the vessel, that the general condition of the tanks is satisfactory.

(f) All double-bottom fuel oil tanks on vessels 25 years of age or older need not be cleaned out and internally examined if the marine inspector is able to determine by internal examination of at least one double-bottom fuel oil tank in way of each cargo tank, and by external examination of all other double-bottom fuel oil tanks, that the general condition of the tanks is satisfactory.

§ 31.10–25 Inspection covering repairs and alterations involving safety—TB/ALL.

No extensive alterations involving the safety of a tank vessel either in regard to hull or machinery shall be made without the approval of the Commandant. Before such alterations are carried out, copies of plans and specifications in triplicate for the work involved shall be forwarded to the Officer in Charge, Marine Inspection, in whose zone the repairs will be made, for submission to Headquarters for approval. If approved one set of the plans and specifications, properly stamped and dated, shall be returned to the owner or to the repair yard designated by the owner; one set to the Officer in Charge, Marine Inspection, who forwarded the plans and specifications to Headquarters; and one set shall be retained at Headquarters. If such plans and specifications are not approved, the Commandant shall promptly notify the owner or designated shipyard wherein they fail to comply with the regulations in this chapter. No extensive repairs to the hull or machinery which affect the safety of a vessel shall be made without the knowledge of the Officer in Charge, Marine Inspection.

§ 31.10–30 Stability requirements—TB/ALL.

Each tank vessel must meet the applicable requirements in subchapter S of this chapter.

[CGD 79–023, 48 FR 51006, Nov. 4, 1983]

§ 31.10–32 Loading information—TB/ALL.

(a) This section applies to each tankship and tank barge the construction of which begins on or after September 6, 1977.

(b) Each tank vessel over 300 feet in length must have the loading information prescribed in either § 42.15–1(a) or § 45.105(a) of this chapter. For tank vessels subject to the Load Line Acts the information must be approved by the Commandant or by a recognized classification society that is approved by the Commandant. For tank vessels not subject to the Load Line Acts loading information must be approved by the Commandant. If the vessel is a tankship, the approved information must be provided to the master of the vessel. If the vessel is a tank barge, the information must be provided to the person in charge of handling the cargo during loading or off-loading of the barge.

[CGD 75–041, 42 FR 28887, June 6, 1977; 42 FR 35650, July 11, 1977]

§ 31.10–35 Permit to proceed to another port for repair—TB/ALL.

(a) The Officer in Charge, Marine Inspection, may issue a permit to proceed to another port for repair, Form CG–948, to a vessel if in his judgment it can be done with safety even if the certificate of inspection of the vessel has expired or is about to expire.
(b) Such permit will only be issued upon the written application of the master, owner or agent of the vessel.

(c) The permit will state upon its face the conditions under which it is issued and whether or not the vessel is permitted to carry freight or passengers. Passengers may not be carried if the certificate of inspection has expired.

(d) The permit shall be carried in a manner similar to that described in §31.05-5 for a certificate of inspection.

§31.10-40 Inspection during trial trip—TB/ALL.

On the trial trip of each new or converted tankship, an inspector shall be present to observe from the standpoint of safety in the carriage of flammable and/or combustible liquids in bulk, the operation of boilers, engines, steering gear, and auxiliaries; and if not satisfied with the performance of such boilers and machinery, appliances, and apparatus for stowage, he shall make such requirements as in his judgment will overcome any deficiencies which may have come under his observation.

§31.10-45 Inspection of crew accommodations—TB/ALL.

Crew’s quarters shall be inspected to determine their sanitary condition. The Officer in Charge, Marine Inspection, upon completing such inspection, shall notify the master or officer in charge of the vessel of his findings, which shall be entered in the vessel’s log book.

§31.10-50 Inspection of bilges—TB/ALL.

(a) When inspecting oil-burning vessels, either internal-combustion type or steam-driven type, the marine inspector shall examine the tank tops and bilges in the fireroom and engineroom to see that there is no accumulation of oil which might create a fire hazard.

Subpart 31.15—Manning of Tank Vessels

§31.15-1 Licensed officers and crews—TB/ALL.

The Officer in Charge, Marine Inspection (OCMI), that inspects the vessel enters on the Certificate of Inspection (COI) for each tank vessel the complement of officers and crew that are required by statute and regulation and that in the judgment of the OCMI are necessary for its safe operation. The OCMI may change the complement from time to time by endorsement to the COI for changes in conditions of employment.

[CGD 79-116, 60 FR 17155, Apr. 4, 1995]

§31.15-5 Tank barges—B/ALL.

Tank barges subject to the provisions of this subchapter need not be manned unless, in the judgment of the Officer in Charge, Marine Inspection, such manning is necessary for the protection of life and property and for the safe operation of the vessel.

[CGD 81-059, 54 FR 151, Jan. 4, 1989]

§31.15-10 Towing vessels may carry persons in addition to crew—B/LBR.

(a) Towing vessels engaged in towing tank barges on the Great Lakes, inland waters, or rivers, may be authorized by the Coast Guard District Commander of the district to carry on board such number of persons in addition to its crew as shall be deemed necessary to carry on the legitimate business of such towing vessel or barge, not exceeding, however, one person to every net ton of the towing vessel.

(b) A Coast Guard District Commander granting a license to a vessel engaged in towing to carry persons in addition to its crew shall notify the Officer in Charge, Marine Inspection, in whose jurisdiction the vessel receiving the permit is engaged, and the Officer in Charge, Marine Inspection, shall keep a record of the same.

Subpart 31.20—Waters Operated Over

§31.20-1 Waters—TB/ALL.

The certificate of inspection shall show the waters over which the tank vessel is permitted to operate, such as: all waters; oceans; coastwise; Great Lakes; bays, sounds, and lakes other than the Great Lakes; rivers; or inland waters tributary to the Gulf of Mexico.
§ 31.25—Load Lines

Subpart 31.25—Load Lines

§ 31.25-1 Load lines required—TB/OCL.

All tank vessels of 150 gross tons or over, or 79 feet in length or greater, navigating the oceans, coastwise waters, and Great Lakes are subject to the regulations in parts 42 to 45, inclusive, subchapter E (Load Lines), of this chapter, as applicable.

[CGFR 69-72, 34 FR 17481, Oct. 29, 1969]

Subpart 31.30—Marine Engineering

§ 31.30-1 Marine engineering regulations and material specifications—TB/ALL.

(a) All tank vessels are subject to the regulations contained in parts 50 to 63, inclusive, of subchapter F (Marine Engineering) of this chapter, whenever applicable, except as such regulations are modified by the regulations in this subchapter for tank vessels.

[CGFR 68-82, 33 FR 18804, Dec. 18, 1968]

Subpart 31.35—Electrical Engineering

§ 31.35-1 Electrical installations, lighting and power equipment, batteries, etc.—TB/ALL.

All tank vessels are subject to the regulations contained in subchapter J (Electrical Engineering) of this chapter except as such regulations are modified by the regulations in this subchapter for tank vessels.

§ 31.35-5 Communications; alarm systems, telephone and voice tube systems, engine telegraph systems, etc.—TB/ALL.

All tank vessels are subject to the regulations contained in subchapter J (Electrical Engineering) of this chapter except as such regulations are modified by the regulations in this subchapter for tank vessels.

§ 31.36—Lifesaving Appliances and Arrangements

Subpart 31.36—Lifesaving Appliances and Arrangements

§ 31.36-1 Lifesaving appliances and arrangements—TB/ALL.

All lifesaving appliances and arrangements on tank vessels must be in accordance with subchapter W (Lifesaving Appliances and Arrangements) of this chapter.

[CGD 84-069, 61 FR 25286, May 20, 1996]

Subpart 31.40—Certificates Under International Convention for Safety of Life at Sea, 1974

§ 31.40-1 Application—T/ALL

The provisions of this subpart shall apply to all tankships on an international voyage.

[CGD 95-012, 60 FR 48049, Sept. 18, 1995]

§ 31.40-5 Cargo Ship Safety Construction Certificate—T/ALL.

(a) All tankships on an international voyage are required to have a Cargo Ship Safety Construction Certificate. This certificate shall be issued by the U.S. Coast Guard or the American Bureau of Shipping to certain vessels on behalf of the United States of America as provided in Regulation 12, Chapter I, of the International Convention for Safety of Life at Sea, 1974.

(b) All such tankships shall meet the applicable requirements of this chapter for tankships on an international voyage.


§ 31.40-10 Cargo Ship Safety Equipment Certificate—T/ALL.

(a) All tankships on an international voyage are required to have a Cargo Ship Safety Equipment Certificate.

(b) All such tankships shall meet the applicable requirements of this chapter for tankships on an international voyage.

§ 31.40-15 Cargo Ship Safety Radio Certificate—T/ALL.

(a) The application for a Cargo Ship Safety Radio Certificate is made on
§ 31.40–25 Exemption Certificate—T/ALL.

(a) A tankship may be exempted by the Commandant from complying with certain requirements of the Convention under his administration upon request made in writing to him and transmitted via the Officer in Charge, Marine Inspection.

(b) When an exemption is granted to a tankship by the Commandant under and in accordance with the Convention, an Exemption Certificate describing such exemption shall be issued through the appropriate Officer in Charge, Marine Inspection, in addition to other required certificates.

§ 31.40–30 Safety Management Certificate—T/ALL.

All tankships to which 33 CFR part 96 applies on an international voyage must have a valid Safety Management Certificate and a copy of their company’s valid Document of Compliance certificate on board.


§ 31.40–35 Posting of Convention certificates—T/ALL.

(a) The certificates described in this subpart, or certified copies thereof, when issued to a vessel shall be posted in a prominent and accessible place on the tankship.

(b) The certificates shall be carried in a manner similar to that described in §31.05–5 for a certificate of inspection.

§ 31.40–40 Duration of Convention certificates—T/ALL.

(a) A Cargo Ship Safety Equipment Certificate shall be issued for a period of not more than 24 months.

(b) A Cargo Ship Safety Construction Certificate and a Safety Management Certificate shall be issued for a period of not more than 60 months.

(c) A Cargo Ship Safety Radio Certificate shall be issued for a period of not more than 12 months.

(d) An Exemption Certificate shall not be valid for longer than the period of the certificate to which it refers.

(e) A Convention certificate may be withdrawn, revoked, or suspended at any time when it is determined the vessel is no longer in compliance with applicable requirements. (See §2.01–70 of this chapter for procedures governing appeals.)


§ 31.40–45 American Bureau of Shipping—T/ALL.

(a) The American Bureau of Shipping, with its home office at Two World Trade Center, 106th Floor, New York, NY 10048, is hereby designated as an organization duly authorized to issue the Cargo Ship Safety Construction Certificate to certain tankships on behalf of the United States of America as provided in Regulation 12, chapter I, of the International Convention for Safety of Life at Sea, 1974, and executive order 12234 and the certificate shall be subject to the requirements in this subpart. The American Bureau of Shipping is authorized to place the official seal of the United States of America on the certificate. This designation and delegation to the American Bureau of Shipping shall be in effect from May 26, 1965, until terminated by proper authority and notice of cancellation is published in the FEDERAL REGISTER.

(b) At the option of the owner or agent of a tankship on an international voyage and on direct application to the American Bureau of Shipping, the Bureau may issue to such tankship a Cargo Ship Safety Construction Certificate, having a period of validity of not more than 60 months after ascertaining that the tankship:

(1) Has met the applicable requirements of the Convention; and,

(2) Is currently classed by the Bureau and classification requirements have been dealt with to the satisfaction of the Bureau.
(c) When the Bureau determines that a tankship to which it has issued a Cargo Ship Safety Construction Certificate no longer complies with the Bureau’s applicable requirements for classification, the Bureau shall immediately furnish to the Coast Guard all relevant information, which will be used by the Coast Guard to determine whether or not to withdraw, revoke or suspend the Cargo Ship Safety Construction Certificate.


PART 32—SPECIAL EQUIPMENT, MACHINERY, AND HULL REQUIREMENTS

Subpart 32.01—General

Sec.
32.01-1 Incorporation by reference.

Subpart 32.02—Safety Requirements

32.02-1 Means of escape—T/ALL.
32.02-5 Communication between deckhouses—TB/OCLB.
32.02-10 Rails—TB/ALL.
32.02-15 Guards at dangerous places—TB/ALL.

Subpart 32.05—Markings

32.05-1 Draft marks and draft indicating systems—TB/ALL.
32.05-5 Vessel’s name on equipment—TB/ALL.
32.05-10 Name of tankship—T/ALL.
32.05-15 Name of tank barge—B/ALL.

Subpart 32.15—Navigation Equipment

32.15-1 Whistles—T/ALL.
32.15-10 Sounding machines—T/OCL.
32.15-15 Anchors, Chains, and Hawser—TB/ALL.
32.15-30 Radar—T/OC.
32.15-35 Magnetic Compass and Gyrocompass—T/OC.

Subpart 32.16—Navigation Bridge Visibility

32.16-1 Navigation bridge visibility—T/ALL.

Subpart 32.20—Equipment Installations

32.20-1 Equipment installations during World War II—TB/ALL.
32.20-5 Pressure vacuum relief valves—TB/ALL.
32.20-10 Flame arresters—TB/ALL.
32.20-20 Liquid level gaging—T/ALL.

Subpart 32.22T—Tank Level or Pressure Monitoring Devices

32.22T-1 Scope and applicability.
32.22T-5 Performance standards for tank level or pressure monitoring devices.

Subpart 32.25—General Alarm Systems

32.25-1 General alarm systems for tankships and manned tank barges.

Subpart 32.30—Sound Powered Telephone, Voice Tube, and Engine Order Telegraph Systems

32.30-1 Voice tubes or telephone equipment—T/ALL.
32.30-5 Engine order telegraph equipment—T/ALL.

Subpart 32.35—Main and Auxiliary Machinery

32.35-1 Boilers and machinery—TB/ALL.
32.35-5 Installation of internal combustion engines—TB/ALL.
32.35-10 Steering apparatus on tank vessels—TB/ALL.
32.35-15 Installation of air compressors on tank vessels contracted for on or after June 15, 1977—TB/ALL.

Subpart 32.40—Accommodations for Officers and Crew

32.40-1 Application—TB/ALL.
32.40-5 Intent—T/ALL.
32.40-10 Location of crew spaces—T/ALL.
32.40-15 Construction—T/ALL.
32.40-20 Sleeping accommodations—T/ALL.
32.40-25 Washrooms and toilet rooms—T/ALL.
32.40-30 Messrooms—T/ALL.
32.40-35 Hospital space—T/ALL.
32.40-40 Other spaces—T/ALL.
32.40-45 Heating—T/ALL.
32.40-50 Lighting—T/ALL.
32.40-55 Insect screens—T/ALL.
32.40-60 Crew accommodations on tankships of less than 100 gross tons and manned tank barges—T/ALL.
32.40-65 Crew accommodations on tankships constructed before June 15, 1987—T/ALL.

Subpart 32.45—Electrical Installations

32.45-1 Installation and details.

Subpart 32.50—Pumps, Piping, and Hose for Cargo Handling

32.50-1 Cargo pumps for tank vessels constructed on or after November 30, 1936—TB/ALL.
32.50-3 Cargo discharge—TB/ALL.
32.50-5 Cargo pump gauges on tank vessels constructed on or after November 10, 1936—TB/ALL.
32.50-10 Cargo pumps on tank vessels with independent cargo tanks which were constructed prior to November 10, 1936—TB/ALL.
32.50-15 Cargo piping on tank vessels constructed on or after July 1, 1951—TB/ALL.
32.50-20 Cargo piping for tank vessels constructed between November 10, 1936, and July 1, 1951—TB/ALL.
32.50-25 Cargo pumps and piping on tank vessels constructed prior to November 10, 1936—TB/ALL.
32.50-30 Cargo hose—TB/ALL.
32.50-35 Remote manual shutdown for internal combustion engine driven cargo pump on tank vessels—TB/ALL.

Subpart 32.52—Bilge Systems

32.52-1 Bilge pumps on tank vessels constructed or converted on or after November 19, 1952—TB/ALL.
32.52-5 Bilge piping for pump rooms and adjacent cofferdams on tank vessels constructed or converted on or after November 19, 1952—TB/ALL.
32.52-10 Bilge pumps and piping on tank vessels constructed or converted prior to November 19, 1952—TB/ALL.

Subpart 32.53—Inert Gas System

32.53-1 Application—T/ALL.
32.53-3 Exemptions.
32.53-5 Operation—T/ALL.
32.53-10 General—T/ALL.

Subpart 32.55—Ventilation and Venting

32.55-1 Ventilation of tank vessels constructed on or after July 1, 1951—TB/ALL.
32.55-5 Ventilation of tank vessels constructed between November 10, 1936, and July 1, 1951—TB/ALL.
32.55-10 Ventilation of tank vessels constructed prior to November 10, 1936—TB/ALL.
32.55-15 Ventilation for hold spaces—TB/ALL.
32.55-20 Venting of cargo tanks of tankships constructed on or after July 1, 1951—T/ALL.
32.55-25 Venting of cargo tanks of tank barges constructed on or after July 1, 1951—B/ALL.
32.55-30 Venting of cargo tanks of tank vessels constructed between November 10, 1936, and July 1, 1951—TB/ALL.
32.55-35 Venting of cargo tanks on tank vessels constructed prior to November 10, 1936—TB/ALL.
32.55-40 Ventilation of cofferdams and void spaces of tank vessels constructed on or after November 10, 1936—TB/ALL.
32.55-45 Ventilation of tankships that have a keel laying date on or after January 1, 1975—T/ALL.

Subpart 32.56—Structural Fire Protection for Tank Ships With a Keel Laying Date On or After January 1, 1975

32.56-1 Application—T/ALL.
32.56-5 General—T/ALL.
32.56-10 Navigation positions—T/ALL.
32.56-15 Deck spils—T/ALL.
32.56-20 Insulation of exterior boundaries: Superstructures and deckhouses—T/ALL.
32.56-21 Openings in exterior boundaries: Accommodation, service, and control spaces—T/ALL.
32.56-22 Openings in and insulation of boundaries: Other spaces—T/ALL.
32.56-25 Category A machinery spaces: Windows and port lights—T/ALL.
32.56-30 Category A machinery spaces: Bulkheads and decks—T/ALL.
32.56-35 Doors—T/ALL.
32.56-40 Category A machinery spaces: Insulation—T/ALL.
32.56-45 Draft stops—T/ALL.
32.56-50 Combustible veneers—T/ALL.
32.56-55 Control spaces—T/ALL.
32.56-60 Ventilation ducts—T/ALL.

Subpart 32.57—Structural Fire Protection for Tank Vessels Contracted for On or After January 1, 1963

32.57-1 Application—T/ALL.
32.57-3 Definitions—T/ALL.
32.57-10 Construction—T/ALL.

Subpart 32.59—Minimum Longitudinal Strength and Plating Thickness Requirements for Unclassed Tank Vessels That Carry Certain Oil Cargoes—T/ALL

32.59-1 Minimum section modulus and plating thickness requirements—T/ALL.

Subpart 32.60—Hull Requirements for Tank Vessels Constructed On or After July 1, 1951

32.60-1 Scantlings, material, and workmanship—T/ALL.
32.60-5 Subdivision of cargo space—T/ALL.
32.60-10 Segregation of cargo; Grade A, B, C, or D—T/ALL.
32.60-15 Segregation of cargo; Grade E—T/ALL.
32.60-20 Pumprooms on tank vessels carrying Grade A, B, C, D and/or E liquid cargo—T/ALL.
32.60-25 Living quarters—T/ALL.
32.60-30 Tank vessels with independent tanks—T/ALL.
§ 32.01–1

32.60–35 Tank vessels carrying Grade A liquid cargo—TB/ALL.
32.60–40 Construction and testing of cargo tanks and bulkheads—TB/ALL.
32.60–45 Segregation of spaces containing the emergency source of electric power—TB/ALL.

Subpart 32.63—Hull and Cargo Tank Requirements for Tank Barges Constructed or Converted On or After July 1, 1964, and Carrying Certain Dangerous Bulk Cargoes
32.63–1 Application—B/ALL.
32.63–5 Barge hull classifications—B/ALL.
32.63–8 Alternative arrangements—B/ALL.
32.63–10 Rakes and coamings—B/ALL.
32.63–20 Hull structure—B/ALL.
32.63–25 Cargo tanks and supports—B/ALL.

Subpart 32.65—Hull Requirements for Tank Vessels Constructed On or After November 10, 1936, and Prior to July 1, 1951
32.65–1 Application—TB/ALL.
32.65–5 Scantlings, material, and workmanship—TB/ALL.
32.65–10 Subdivision of cargo space—TB/ALL.
32.65–15 Cofferdams—TB/ALL.
32.65–20 Pumprooms—TB/ALL.
32.65–25 Living quarters—TB/ALL.
32.65–30 Tank vessels with independent tanks—TB/ALL.
32.65–35 Tank vessels carrying Grade A liquids—TB/ALL.
32.65–40 Construction and testing of cargo tanks and bulkheads—TB/ALL.

Subpart 32.70—Hull Requirements for Steel Hull Tank Vessels Constructed Prior to November 10, 1936
32.70–1 Application—TB/ALL.
32.70–5 Hull requirements; general—TB/ALL.
32.70–10 Cofferdams—TB/ALL.
32.70–15 Pumprooms—TB/ALL.
32.70–20 Pump-engine compartment—TB/ALL.
32.70–25 Cargo tanks—TB/ALL.

Subpart 32.75—Hull Requirements for Wood Hull Tank Vessels Constructed Prior to November 10, 1936
32.75–1 Application—TB/ALL.
32.75–5 Hull requirements; general—TB/ALL.
32.75–10 Cargo tanks—TB/ALL.
32.75–15 Electric bonding and grounding for tanks—TB/ALL.
32.75–20 Hold spaces and bulkheads—TB/ALL.

46 CFR Ch. I (10–1–99 Edition)

Subpart 32.80—Tank Barges Constructed of Materials Other Than Steel or Iron
32.80–1 General requirements—B/ALL.

Subpart 32.85—Lamp and Paint Rooms and Similar Compartments on Tankships
32.85–1 Fireproofing of lamp, oil and paint rooms—T/ALL.

Subpart 32.90—Pilot Boarding Equipment
32.90–1 Pilot boarding equipment.


Subpart 32.01—General

§ 32.01–1 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the Federal Register and make the material available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and at the U.S. Coast Guard, Office of Design and Engineering Standards (G–MSE), 2100 Second Street SW., Washington, DC 20593–0001 and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are:

American Bureau of Shipping (ABS)
Two World Trade Center, 106th Floor, New York, NY 10048
Rules for Building and Classing Steel Vessels, 1989—32.15–15; 32.60–10; 32.65–40

American Society for Testing and Materials (ASTM)
100 Barr Harbor Drive, West Conshohocken, PA 19428–2959
ASTM F–1273, Standard Specification for Tank Vent Flame Arresters,
Subpart 32.02—Safety Requirements

§ 32.02-1 Means of escape—T/ALL.

On all tankships where the plans and arrangements will possibly permit, all passageways leading to living quarters, or places where anyone may be regularly employed, shall be provided with not less than two avenues of escape so located that if one of such avenues is not available another may be. The locality and arrangement of such additional means of escape shall be determined by the inspectors as will in their judgment best carry out the purpose for which this provision was made.

§ 32.02-5 Communication between deckhouses—TB/OCLB.

On all tank vessels where the distance between deckhouses is more than 46 meters (150 feet), a fixed means of facilitating communication between both ends of the vessel, such as a raised fore and aft bridge or side tunnels, must be provided. Previously approved arrangements may be retained so long as they are maintained in satisfactory condition to the satisfaction of the Officer in Charge, Marine Inspection.

§ 32.02-10 Rails—TB/ALL.

(a) All tank vessels, except unmanned tank barges, contracted for on or after July 1, 1969, shall have efficient guard rails or bulwarks on decks and bridges. The height of rails or bulwarks shall be at least 39½ inches from the deck except that where this height would interfere with the normal operation of the vessel, a lesser height may be approved by the Commandant. At exposed peripheries of the freeboard and superstructure decks the rails shall be in at least three courses including the top. The opening below the lowest course shall not be more than 9 inches. The courses shall not be more than 15 inches apart. In the case of ships with rounded gunwales, the guard rail supports shall be placed on the flat of the deck. On other decks and bridges the rails shall be in at least two courses, including the top, approximately evenly spaced. All rails shall consist of solid or tubular sections or chains or wire rope or a combination thereof.

(b) Where it can be shown to the satisfaction of the Commandant that a vessel is engaged exclusively on voyages of a sheltered nature, the provisions of paragraph (a) of this section may be relaxed.

(c) Tank vessels contracted for prior to July 1, 1969, except unmanned tank barges, assigned a deeper load line under part 42 of subchapter E (Load Lines) of this chapter shall have efficient guard rails or bulwarks as required by paragraph (a) of this section. Otherwise, existing rails and bulwarks previously approved approved will be considered satisfactory so long as they are maintained in good condition. Minor repairs and alterations may be made to the same standards as the original construction.

(d) All tank vessels in ocean and coastwise service, except unmanned tank barges, constructed on or after June 15, 1987, must have suitable storm rails installed in all passageways and at the deckhouse sides on weather decks where persons on board might have normal access. Storm rails must be installed on both sides of passageways which are six feet or more in width. Tank vessels to which this paragraph applies constructed prior to June 15, 1987, may retain previously accepted or approved installations so long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.

§ 32.02-15 Guards at dangerous places—TB/ALL.

All exposed and dangerous places such as gears and machinery shall be properly protected with covers, guards
§ 32.05–1 Draft marks and draft indicating systems—T/ALL.

(a) All vessels must have draft marks plainly and legibly visible upon the stem and upon the sternpost or rudderpost or at any place at the stern of the vessel as may be necessary for easy observance. The bottom of each mark must indicate the draft.

(b) The draft must be taken from the bottom of the keel to the surface of the water at the location of the marks.

(c) In cases where the keel does not extend forward or aft to the location of the draft marks, due to raked stem or cutaway skeg, the datum line from which the drafts shall be taken, shall be obtained by projecting the line of the bottom of the keel forward or aft, as the case may be, to the location of the draft marks.

(d) In cases where a vessel may have a skeg or other appendage extending locally below the line of the keel, the draft at the end of the vessel adjacent to such appendage shall be measured to a line tangent to the lowest part of such appendage and parallel to the line of the bottom of the keel.

(e) Draft marks must be separated so that the projections of the marks onto a vertical plane are of uniform height equal to the vertical spacing between consecutive marks.

(f) Draft marks must be painted in contrasting color to the hull.

(g) In cases where draft marks are obscured due to operational constraints or by protrusions, the vessel must be fitted with a reliable draft indicating system from which the bow and stern drafts can be determined.


Subpart 32.15—Navigation Equipment

§ 32.15–5 Whistles—T/ALL.

(a) [Reserved]

(b) On tankships contracted for on and after November 19, 1955 means shall be provided to operate the whistle from a position adjacent to the main steering station and from the steering station on top of the pilothouse where such steering station is fitted. Details of the whistle operating devices shall meet the requirements of subchapter J.
Coast Guard, DOT

(Electrical Engineering) of this chapter.

NOTE: Appendix A in 33 CFR subchapter D contains the International Regulations for Preventing Collisions at Sea, 1972.


§ 32.15–10 Sounding machines—T/OCL.

All mechanically propelled vessels in ocean or coastwise service of 500 gross tons and over, and all mechanically propelled vessels in of 500 gross tons and over and certificated for service on the River St. Lawrence eastward of the lower exit of the St. Lambert Lock at Montreal, Canada, must be fitted with an efficient electronic deep-sea sounding apparatus.

[CGD 95-027, 61 FR 25997, May 23, 1996]

§ 32.15–15 Anchors, Chains, and Hawsers—TB/ALL

(a) Application. Use the following table to determine which provisions of this section apply to you:

<table>
<thead>
<tr>
<th>If you own . . .</th>
<th>And . . .</th>
<th>Then . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) A tankship or a manned seagoing barge.</td>
<td>It was constructed before June 15, 1987,</td>
<td>It must meet the requirements of paragraphs (d) and (f).</td>
</tr>
<tr>
<td>(2) A tankship or a manned seagoing barge.</td>
<td>It was constructed on or after June 15, 1987.</td>
<td>It must meet all the requirements of this section except paragraphs (d) and (e).</td>
</tr>
<tr>
<td>(3) An unmanned barge equipped with anchors.</td>
<td></td>
<td>It must meet the requirements of paragraphs (e) and (f).</td>
</tr>
</tbody>
</table>

(b) Ocean, Coastwise, or Great Lakes Service. Tankships in ocean, coastwise, or Great Lakes service and manned seagoing barges must be fitted with anchors, chains and hawsers in general agreement with the standards established by the American Bureau of Shipping. The current standards of other recognized classification societies may also be accepted upon approval by the Commandant.

(c) Lakes, Bays, and Sounds, or River Service. Tankships in lakes, bays, and sounds, or river service must be fitted with such ground tackle and hawsers as deemed necessary by the Officer in Charge, Marine Inspection, depending upon the size of the tankship and the waters on which it operates.

(d) Tankships and Barges Constructed Before June 15, 1987. For each tankship or manned seagoing barge constructed before June 15, 1987, except a barge specified in paragraph (e) of this section, the equipment previously accepted or approved is satisfactory for the same service so long as it is maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection (OCMI). If the service of the vessel changes, the OCMI will evaluate the suitability of the equipment.

(e) Barges Equipped with Anchors to Comply with 33 CFR 155.230(b)(1). Each barge equipped with an anchor, to comply with 33 CFR 155.230(b)(1), must be fitted with an operable anchoring system that includes a cable or chain, and a winch or windlass. All components of the system must be in substantial agreement with the standards issued by the American Bureau of Shipping (ABS). The current standards of other recognized classification societies are acceptable if they are approved by the Commandant (G-MSE).

(f) Operation and Performance. Each anchor, exposed length of chain or cable, and hawser must be visually inspected before the barge begins each voyage. The anchor must be stowed so that it is ready for immediate use in an emergency. The barge must have a working means for releasing the anchor that can be operated safely by one or two persons.


§ 32.15–30 Radar—T/OC.

All tankships of 1,600 gross tons and over in ocean or coastwise service must be fitted with a marine radar system for surface navigation. Facilities for
plotting radar readings must be provided on the bridge.

[CGD 74-074, 42 FR 5963, Jan. 31, 1977]

§ 32.15-35 Magnetic Compass and Gyrocompass—T/OC.

(a) All tankships in ocean or coastwise service must be fitted with a magnetic compass.

(b) All tankships of 1,600 gross tons and over in ocean or coastwise service must be fitted with a gyrocompass in addition to the magnetic compass.

(c) Each tankship must have an illuminated repeater for the gyrocompass required under paragraph (b) that is at the main steering stand unless the gyrocompass is illuminated and is at the main steering stand.

[CGD 74-074, 42 FR 5963, Jan. 31, 1977]

Subpart 32.16—Navigation Bridge Visibility

§ 32.16-1 Navigation bridge visibility—T/ALL.

Each tankship which is 100 meters (328 feet) or more in length and contracted for on or after September 7, 1990, must meet the following requirements:

(a) The field of vision from the navigation bridge, whether the vessel is in a laden or unladen condition, must be such that:

(1) From the conning position, the view of the sea surface is not obscured forward of the bow by more than the lesser of two ship lengths or 500 meters (1,640 feet) from dead ahead to 10 degrees on either side of the vessel. Within this arc of visibility any blind sector caused by cargo, cargo gear, or other permanent obstruction must not exceed 5 degrees.

(2) From the conning position, the horizontal field of vision extends over an arc from at least 22.5 degrees aback the beam on one side of the vessel, through dead ahead, to at least 22.5 degrees aback the beam on the other side of the vessel. Blind sectors forward of the beam caused by cargo, cargo gear, or other permanent obstruction must not exceed 10 degrees each, nor total more than 20 degrees, including any blind sector within the arc of visibility described in paragraph (a)(1) of this section.

(3) From each bridge wing, the field of vision extends over an arc from at least 45 degrees on the opposite bow, through dead ahead, to at least dead astern.

(4) From the main steering position, the field of vision extends over an arc from dead ahead to at least 60 degrees on either side of the vessel.

(5) From each bridge wing, the respective side of the vessel is visible forward and aft.

(b) Windows fitted on the navigation bridge must be arranged so that:

(1) Framing between windows is kept to a minimum and is not installed immediately in front of any work station.

(2) Front windows are inclined from the vertical plane, top out, at an angle of not less than 10 degrees and not more than 25 degrees;

(3) The height of the lower edge of the front windows is limited to prevent any obstruction of the forward view previously described in this section; and

(4) The height of the upper edge of the front windows allows a forward view of the horizon at the conning position, for a person with a height of eye of 1.8 meters (71 inches), when the vessel is at a forward pitch angle of 20 degrees.

(c) Polarized or tinted windows must not be fitted.

[CGD 85-099, 55 FR 32247, Aug. 8, 1990]

Subpart 32.20—Equipment Installations

§ 32.20-1 Equipment installations on vessels during World War II—T/ALL.

Boilers, pressure vessels, machinery, piping, electrical and other installations, including lifesaving, firefighting and other safety equipment, installed on vessels during the Unlimited National Emergency declared by the President on May 27, 1941, and prior to the termination of title V of the Second War Powers Act, as extended (sec. 501, 56 Stat. 180, 50 U.S.C. 635), which do not fully meet the detailed requirements of the regulations in this chapter, may be continued in service if
found to be satisfactory by the Commandant for the purpose intended. In each instance prior to final action by the Commandant, the Officer in Charge, Marine Inspection, shall notify Headquarters of the facts in the case, together with recommendations relative to suitability for retention.

§ 32.20–5 Pressure vacuum relief valves—TB/ALL.

The pressure vacuum relief valve shall be of a type and size approved by the Commandant for the purpose intended. For specifications and procedures re approval, see subpart 162.017 of subchapter Q (Specifications) of this chapter.

§ 32.20–10 Flame arresters—TB/ALL.

Flame arresters must be of a type and size suitable for the purpose intended and meet ASTM F–1273.

[CGD 88–032, 56 FR 35821, July 29, 1991]

§ 32.20–20 Liquid level gaging—T/ALL.

On tankships, the construction or conversion of which is started on or after July 1, 1951, a method for determining the level of the liquid in a cargo tank without opening ullage holes, cargo hatches, or Butterworth plates, shall be provided on all tankships certificated for the carriage of Grade A liquids: Provided, That ullage holes fitted with sounding pipes tightly secured to the underside of the tank tops, open at the bottom, and extending to within 18 inches or less of the bottom of the tank shall be considered as complying with the foregoing requirement.

Subpart 32.22T—Tank Level or Pressure Monitoring Devices

SOURCE: CGD 90–071, 62 FR 14830, Mar. 28, 1997, unless otherwise noted.

§ 32.22T–1 Scope and applicability.

(a) Effective period. This subpart is effective for 2 years from April 28, 1997.

(b) Applicability. The standards set forth in this subpart apply to tank level or pressure monitoring devices developed for use on single-hull tank vessels over 5,000 gross tons carrying oil in bulk as cargo.

(c) Scope. This subpart sets performance standards for tank level or pressure monitoring devices. If a device meeting these standards is developed during the effective period of this subpart, the Coast Guard will address installation requirements separately. During the effective period of this subpart no owner or operator is required to install any tank level or pressure monitoring device meeting the performance standards of this subpart unless required by the Coast Guard in a separate regulation.

§ 32.22T–5 Performance standards for tank level or pressure monitoring devices.

(a) A tank level or pressure monitoring device shall determine the level of the liquid in a cargo tank without opening ullage holes, cargo hatches, or butterworth plates.

(b) A tank level or pressure monitoring device shall meet the following standards:

1. Automatically compensate for changes in cargo volume due to temperature.

2. Meet the requirements in §111.105 of this chapter when used in hazardous locations.

3. Indicate any loss of power or failure of the tank level or pressure monitoring device and monitor the condition of the alarm circuitry and sensor by an electronic self-testing feature.

4. Alarm before cargo in the cargo tank declines to a level of 0.5 percent below the quantity to which it was loaded, or 1,000 gallons of cargo, whichever is less.

5. Operate without degradation in heavy seas, moisture, and varying weather conditions.

6. Not alarm when loading or off loading cargo.

7. Have audible and visible alarm indicators that can be seen and heard on the navigation bridge of the vessel, or towing vessel for non-self-propelled vessels, which are distinctly identifiable as cargo tank level or pressure monitoring alarms.
Subpart 32.25—General Alarm Systems

§ 32.25—1 General alarm systems for tankships and manned tank barges.

A general alarm system must be installed on tankships and manned tank barges which meets the requirements in subchapter J (Electrical Engineering Regulations) of this chapter.

[CGD 74–125A, 47 FR 15230, Apr. 8, 1982]

Subpart 32.30—Sound Powered Telephone, Voice Tube, and Engine Order Telegraph Systems

§ 32.30–1 Voice tubes or telephone equipment—T/ALL.

Each tankship must have communication equipment which meets the requirements in subchapter J (Electrical Engineering Regulations) of this chapter.

[CGD 74–125A, 47 FR 15230, Apr. 8, 1982]

§ 32.30–5 Engine order telegraph equipment—T/ALL.

Each tankship must have an engine order telegraph system which meets the requirements in subchapter J (Electrical Engineering Regulations) of this chapter.

[CGD 74–125A, 47 FR 15230, Apr. 8, 1982]

Subpart 32.35—Main and Auxiliary Machinery

§ 32.35–1 Boilers and machinery—TB/ALL.

Boilers, main and auxiliary machinery, and piping systems shall conform to the requirements of subchapter F (Marine Engineering) of this chapter, except as otherwise provided for in this subchapter.

[CGD 74–125A, 47 FR 15230, Apr. 8, 1982]

§ 32.35–5 Installation of internal combustion engines—TB/ALL.

Each internal combustion engine located on the weather deck shall be provided with a ventilated metal hood or, where space permits, with a well-ventilated metal housing of sufficient size to allow for proper operation and maintenance.

46 CFR Ch. I (10–1–99 Edition)

§ 32.35–10 Steering apparatus on tank vessels—TB/ALL.

Tank vessels shall be provided with steering apparatus as required by part 58 of subchapter F (Marine Engineering) of this chapter.

[CGFR 68–82, 33 FR 18805, Dec. 18, 1968]

§ 32.35–15 Installation of air compressors on tank vessels contracted for on or after June 15, 1977—TB/ALL.

No tank vessel, except an oil pollution clean-up vessel, that carries petroleum products grades A thru D contracted for on or after June 15, 1977 may have an air compressor on an air compressor intake installed in any of the following cargo areas:

(a) A cargo handling room.
(b) An enclosed space containing cargo piping.
(c) A space in which cargo hose is stowed.
(d) A space adjacent to a cargo tank or cargo tank hold.
(e) A space within three meters of any of the following:
(1) A cargo tank opening.
(2) An outlet for cargo gas or vapor.
(3) A cargo pipe flange.
(4) A cargo valve.
(5) An entrance or ventilation opening to a cargo handling room.
(f) Except for tank barges, the cargo deck space. For the purpose of this paragraph, cargo deck space means the volume bounded by the open deck over the cargo tank block, including all ballast tanks within the cargo tank block, extending to the full width of the vessel, plus three meters (about 10 feet) fore and aft of the cargo tank block and up to a height of 2.4 meters (about 8 feet) above the deck.
(g) An enclosed space having an opening into a location described in paragraphs (a)–(f) of this section.
(h) A location similar to those described in paragraphs (a)–(g) of this section in which cargo vapors or gases may be present.

[CGD 75–017, 42 FR 25735, May 19, 1977, as amended by CGD 75–017, 42 FR 45677, Sept. 12, 1977]
Subpart 32.40—Accommodations for Officers and Crew

SOURCE: CGD 95±027, 61 FR 25997, May 23, 1996, unless otherwise noted.

§ 32.40±1 Application—TB/ALL.
(a) The provisions of this subpart, except § 32.40±60 and § 32.40±65, apply to all tankships of 100 gross tons and over constructed on or after June 15, 1987.
(b) Tankships of less than 100 gross tons and manned tank barges must meet the requirements of § 32.40±60.
(c) Tankships of 100 gross tons and over constructed prior to June 15, 1987, must meet the requirements of § 32.40±65.

§ 32.40±5 Intent—T/ALL.
The accommodations provided for officers and crew on all vessels must be securely constructed, properly lighted, heated, drained, ventilated, equipped, located, arranged and insulated from undue noise, heat and odors.

§ 32.40±10 Location of crew spaces—T/ALL.
(a) Crew quarters must not be located farther forward in the vessel than a vertical plane located at 5 percent of the vessel’s length abaft the forward side of the stem at the designed summer load water line. However, for vessels in other than ocean or coastwise service, this distance need not exceed 8.5 meters (28 feet). For the purposes of this paragraph, the vessel’s length must be as defined in § 43.15±1 of subchapter E (Load Lines) of this chapter. Unless approved by the Commandant, no section of the deck head of the crew spaces may be below the deepest load line.
(b) There must be no direct communication, except through solid, close fitted doors or hatches between crew spaces and chain lockers, or machinery spaces.

§ 32.40±15 Construction—T/ALL.
All crew spaces are to be constructed and arranged in a manner suitable to the purpose for which they are intended and so that they can be kept in a clean, workable and sanitary condition.

§ 32.40±20 Sleeping accommodations—T/ALL.
(a) Where practicable, each licensed officer shall be provided with a separate stateroom.
(b) Sleeping accommodations for the crew must be divided into rooms, no one of which may berth more than 4 persons.
(c) Each room must be of such size that there is at least 2.78 square meters (30 square feet) of deck area and a volume of at least 5.8 cubic meters (210 cubic feet) for each person accommodated. The clear head room must not be less than 190 centimeters (75 inches).
(d) In measuring sleeping accommodations any furnishings contained therein for the use of the occupants are not to be deducted from the total volume or from the deck area.
(e) Each person shall have a separate berth and not more than one berth may be placed above another. The berth must be composed of materials not likely to corrode. The overall size of a berth must not be less than 68 centimeters (27 inches) wide by 190 centimeters (75 inches) long, except by special permission of the Commandant. Where two tiers of berths are fitted, the bottom of the lower berth must not be less than 30 centimeters (12 inches) above the deck. The berths must not be obstructed by pipes, ventilating ducts, or other installations.
(f) A locker must be provided for each person accommodated in a room.

§ 32.40±25 Washrooms and toilet rooms—T/ALL.
(a) At least 1 toilet, 1 washbasin, and 1 shower or bathtub must be provided for each 8 members or portion thereof in the crew who do not occupy sleeping accommodations to which private or semi-private facilities are attached.
(b) The toilet rooms and washrooms must be located convenient to the sleeping quarters of the crew to which they are allotted but must not open directly into such quarters except when they are provided as private or semi-private facilities.
(c) All washbasins, showers, and bathtubs must be equipped with adequate plumbing, including hot and cold
§ 32.40–30 Messrooms—T/ALL.

(a) Messrooms must be located as near to the galley as is practicable except where the messroom is equipped with a steam table.

(b) Each messroom must seat the number of persons expected to eat in the messroom at one time.

§ 32.40–35 Hospital space—T/ALL.

(a) Each vessel which in the ordinary course of its trade makes voyages of more than 3 days duration between ports and which carries a crew of 12 or more, must be provided with a hospital space. This space must be situated with due regard to the comfort of the sick so that they may receive proper attention in all weathers.

(b) The hospital must be suitably separated from other spaces and must be used for the care of the sick and for no other purpose.

(c) The hospital must be fitted with berths in the ratio of 1 berth to every 12 members of the crew or portion thereof who are not berthed in single occupancy rooms, but the number of berths need not exceed 6.

(d) The hospital must have a toilet, washbasin, and bathtub or shower conveniently situated. Other necessary suitable equipment such as a clothes locker, a table, and a seat must be provided.

§ 32.40–40 Other spaces—T/ALL.

Each vessel must have—

(a) Sufficient facilities where the crew may wash and dry their own clothes, including at least 1 sink supplied with hot and cold fresh water;

(b) Recreation spaces; and

(c) A space or spaces of adequate size available on an open deck to which the crew has access when off duty.

§ 32.40–45 Lighting—T/ALL.

Each berth must have a light.

§ 32.40–50 Heating and cooling—T/ALL.

(a) All manned spaces must be adequately heated and cooled in a manner suitable to the purpose of the space.

(b) The heating and cooling system for accommodations must be capable of maintaining a temperature of 21 °C (70 °F) under normal operating conditions without curtailing ventilation.

(c) Radiators and other heating apparatus must be so placed and shielded, where necessary, to avoid risk of fire, danger or discomfort to the occupants. Pipes leading to radiators or heating apparatus must be insulated where those pipes create a hazard to persons occupying the space.

§ 32.40–55 Insect screens—T/ALL.

Provisions shall be made to protect the crew quarters against the admission of insects.

§ 32.40–60 Crew accommodations on tankships of less than 100 gross tons and manned tank barges—TB/ALL.

(a) The crew accommodations on all tankships of less than 100 gross tons and all manned tank barges must have sufficient size and equipment, and be adequately constructed to provide for the protection of the crew in manner practicable for the size, facilities, and service of the tank vessel.

(b) The crew accommodations must be consistent with the principles underlying the requirements for crew accommodations of tankships of 100 gross tons or more.

§ 32.40–65 Crew accommodations on tankships constructed before June 15, 1987—T/ALL.

All tankships of 100 gross tons and over constructed before June 15, 1987, may retain previously accepted or approved installations and arrangements so long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.
Subpart 32.45—Electrical Installations

§ 32.45–1 Installation and details.

The installation of all electrical engineering or interior communications systems, together with the details of design, construction, and installation, must meet the requirements of subchapter J (Electrical Engineering Regulations) of this chapter.

[CGD 74–125A, 47 FR 15230, Apr. 8, 1982]

Subpart 32.50—Pumps, Piping, and Hose for Cargo Handling

§ 32.50–1 Cargo pumps for tank vessels constructed on or after November 10, 1936—TB/ALL.

On all tank vessels, the construction or conversion of which is started on or after November 10, 1936, the cargo pumps shall be designed and installed to minimize the danger of sparking. Special care shall be exercised in the design of packing spaces in order to secure ample depth and accessibility of glands. Where cargo pump shafts pierce gastight bulkheads, stuffing boxes with readily accessible gastight glands shall be provided.

§ 32.50–3 Cargo discharge—TB/ALL.

(a) Pumps or other acceptable means shall be used to discharge cargo from gravity type cargo tanks vented at gauge pressures of 4 pounds per square inch or less.

(b) The use of compressed air as the primary means of discharging cargo from such tanks is prohibited.

§ 32.50–5 Cargo pump gauges on tank vessels constructed on or after November 10, 1936—TB/ALL.

(a) [Reserved]

(b) A pressure gage shall be installed for each pump discharge, and it shall be located at a point visible with respect to the pump controls.


§ 32.50–10 Cargo pumps on tank vessels with independent cargo tanks which were constructed prior to November 10, 1936—TB/ALL.

(a) Cargo pumps on tank vessels, the construction or conversion of which was started prior to November 10, 1936, may be located in a hold space containing independent cargo tanks or on deck. If the pump driving unit is of the type permitted in cargo pumprooms, it also may be located in the hold space. If other types of driving units are used, they shall be located on deck or in an engine compartment. If the pump drive shaft passes through decks or bulkheads into a hold space or pumproom, it shall be provided with suitable stuffing boxes at such points.

§ 32.50–15 Cargo piping on tank vessels constructed on or after July 1, 1951—TB/ALL.

(a) On all tank vessels, the construction or conversion of which is started on or after July 1, 1951, the cargo piping shall be:

(1) A fixed cargo piping system shall be installed on a tank vessel carrying Grade A, B, or C cargo. The piping shall be arranged so as to avoid excessive stresses at the joints. For sizes exceeding 2 inches in diameter, flanged, welded, or other approved types of joints shall be employed. Packing material shall be suitable for the cargo carried. Connections at bulkheads shall be made so that the plating does not form part of a flanged joint. Piping may be carried through bunker spaces and deep tanks provided it is run through a pipe tunnel. The tunnel may be omitted where the pipe is extra heavy, all joints are welded, and bends are installed to provide for expansion and contraction.

(2) Tank vessels carrying only Grades D and E cargo may use a portable piping system in lieu of a fixed piping system meeting the requirements of paragraph (a)(1) of this section, provided:

(i) The hose complies with 33 CFR 154.500 or the portable piping complies with part 56 of this chapter;

(ii) The connections comply with 33 CFR 156.130;

(iii) A shutoff valve is at or near the point of entry into the tank;
§ 32.50-20 Cargo piping for tank vessels constructed between November 10, 1936, and July 1, 1951—TB/ALL.

(a) On tank vessels, the construction or conversion of which is started on or after November 10, 1936, and prior to July 1, 1951, the piping shall be arranged so as to avoid excessive stresses at the joints. For sizes exceeding 2 inches in diameter, flanged, welded, or other approved types of joints shall be employed. Packing material shall be suitable for the cargo carried. Connections at bulkheads shall be made so that the plating does not form part of a flanged joint. Piping may be carried through bunker spaces and deep tanks provided it is run through a pipe tunnel. The tunnel may be omitted where the pipe is extra heavy, all joints are welded, and bends are installed to provide for expansion and contraction.

(b) Cargo piping shall not pass through spaces containing machinery where sources of vapor ignition are normally present: Provided, That in special cases the Commandant may permit the piping to pass through such spaces if Grade E liquids only are involved.

(c) Valve operating rods in the cargo tanks shall be solid and of ample size, well guided and supported, and attached to the valve stems in a manner to guard against their working loose. Where such valve rods pass through the deck, gas tight stuffing boxes shall be fitted. The leads of valve rods shall be as direct as possible. All valves and fittings shall be of material, design, and manufacture for the intended service on the cargo system; either rising or nonrising stem valves may be used.

§ 32.50-25 Cargo pumps and piping on tank vessels constructed prior to November 10, 1936—TB/ALL.

On tank vessels, the construction or conversion of which was started prior to November 10, 1936, cargo pumps and piping which do not fully comply with the regulations in this subchapter shall be made as nearly equal to the requirements for tank vessels constructed between November 10, 1936, and July 1, 1951, as is necessary in the interest of safety. Cargo pipe lines may pass through cargo pump engine compartments provided no cargo valves are located therein.

§ 32.50-30 Cargo hose—TB/ALL.

Cargo hose carried on tank vessels must be suitable for oil service and designed to withstand the pressure of the shutoff head of the cargo pump or pump relief valve setting, less static head, but in no case less than 150 pounds per square inch. All hose shall be suitable for the cargo carried. Connections at bulkheads shall be made so that the plating does not form part of a flanged joint. Piping may be carried through bunker spaces and deep tanks provided it is run through a pipe tunnel. The tunnel may be omitted where the pipe is extra heavy, all joints are welded, and bends are installed to provide for expansion and contraction.
§ 32.50-35 Remote manual shutdown for internal combustion engine driven cargo pump on tank vessels—TB/ALL.
(a) Any tank vessel which is equipped with an internal combustion engine driven cargo pump on the weather deck shall be provided with a minimum of one remote manual shutdown station, conspicuously marked, and located at the midpoint of such vessel, or 100 feet from the engine, whichever is the more practical. The remote quick acting manual shutdown shall be installed on the engine so as to provide a quick and effective means of stopping the engine (such as by cutting off the intake air).
(b) This regulation applies to all installations of this type on tank vessels, but for such installations now on existing tankships at the date of next biennial inspection or October 1, 1963, whichever occurs later.

Subpart 32.52—Bilge Systems
§ 32.52-1 Bilge pumps on tank vessels constructed or converted on or after November 19, 1952—TB/ALL.
The number and arrangement of bilge pumps on each tank vessel shall conform to the requirements of subchapter F (Marine Engineering) of this chapter, except as hereinafter provided in this subpart.

§ 32.52-5 Bilge piping for pump rooms and adjacent cofferdams on tank vessels constructed or converted on or after November 19, 1952—TB/ALL.
(a) Provisions shall be made for removing drainage from the pumproom bilges and adjacent cofferdams. A separate bilge pump, ejector, or bilge suction from a cargo pump or cargo stripping pump may be provided for this purpose. The bilge pump shall not be located in nor shall the piping pass through spaces containing machinery where sources of vapor ignition are normally present.
(b) Where a bilge suction is provided from a cargo or stripping pump, a stopcheck valve shall be fitted in the suction branch, and an additional stop valve shall be fitted also if the bilge suction branch can be subjected to a head of oil from the filling line.

§ 32.53-1 Application—T/ALL.
(a) Except as provided in paragraphs (b) and (c) of this section, this subpart applies to:
(1) A U.S. crude oil tanker or product carrier of 100,000 DWT tons (metric) or more or combination carrier of 50,000 DWT tons (metric) or more, that has a keel laying date on or after January 1, 1975.
(2) A new (as defined in 46 U.S.C. 3701) crude oil tanker or product carrier, or foreign flag crude oil tanker or product carrier of 20,000 DWT tons or more entering the navigable waters of the U.S.
(3) A crude oil tanker that is equipped with a cargo tank cleaning system that uses crude oil washing.
(4) An existing product carrier of 20,000 deadweight tons (metric) or more that has tank washing machines with a capacity of more than 60 cubic meters per hour after May 31, 1983.

(5) Any other U.S. or foreign flag:
   (i) Crude oil tanker or product carrier of 70,000 deadweight tons (metric) and over after May 31, 1981;
   (ii) Crude oil tanker between 20,000 and 70,000 deadweight tons (metric) after May 31, 1983;
   (iii) Product carrier between 40,000 and 70,000 deadweight tons (metric) after May 31, 1983.

(b) This subpart does not apply to vessels designed to carry only:
   (1) Liquefied gas cargo; or
   (2) Grade E cargo that is carried at a temperature lower than 5°C below its flash point.

(c) This part does not apply to vessels as stated in 46 U.S.C. 3702.

§ 32.53-3 Exemptions.

(a) The Assistant Commandant for Marine Safety and Environmental Protection grants exemptions for crude oil tankers of less than 40,000 deadweight tons not fitted with high capacity tank washing machines, if the vessel's owner can show that compliance would be unreasonable and impracticable due to the vessel's design characteristics.

(b) Requests for exemptions must be submitted in writing to: Commandant (G-MSO), U.S. Coast Guard, Washington, DC 20593-0001.

(c) Each request must be supported by documentation showing that:
   (1) The system would be detrimental to the safe operation of the vessel;
   (2) It is physically impracticable to install the system;
   (3) Adequate maintenance of the system would be impossible.

(d) The vessel's owner may request a conference. The exemption request file will be available for use in the conference and additional arguments or evidence in any form may be presented. The conference will be recorded. The presiding officer summarizes the material presented at the conference and submits written recommendations to the Assistant Commandant for Marine Safety and Environmental Protection.

(e) The Assistant Commandant for Marine Safety and Environmental Protection reviews the exemption request file and decides whether to grant or deny the exemption. The decision shall include an explanation of the basis on which the exemption is granted or denied, and constitutes final agency action.


§ 32.53-5 Operation—T/ALL.

The master of each tankship to which this subpart applies shall ensure that the inert gas system is operated as necessary to maintain an inert atmosphere in the cargo tanks at the pressure required under § 32.53-30, except when the cargo tanks are gas free.

§ 32.53-10 General—T/ALL.

(a) Each tankship to which this subpart applies must have an inert gas system that meets the requirements of this subpart and is approved in accordance with 46 CFR 50.20.

(b) Each inert gas system must be designed, constructed and installed in accordance with the provisions of SOLAS II-2, regulation 62, with the following provisions:

   (1) Acceptable types of water seals include the wet and semiwet type. Other types of seals may be accepted on a case by case basis if approval is given by the Coast Guard Marine Safety Center.

   (2) If a vapor collection system required to meet part 39 of this subchapter is connected to the inert gas system, the instruction manual required by SOLAS II-2, regulation 62.21 must include procedures relating to vapor collection operations.

Subpart 32.55—Ventilation and Venting

§ 32.55-1 Ventilation of tank vessels constructed on or after July 1, 1951—TB/ALL.

(a) On all tanks vessels, the construction or conversion of which is started on or after July 1, 1951, all enclosed parts of the vessel, other than cargo, fuel and water tanks, cofferdams and void spaces, shall be provided with efficient means of ventilation.

(b) Compartments containing machinery where sources of vapor ignition are normally present shall be ventilated in such a way as to remove vapors from points near the floor level or the bilges. Effective steam or air actuated gas ejectors, blowers or ventilators fitted with heads for natural ventilation, with at least one duct extending to immediately below the floor plates will be approved for this purpose. Machinery spaces below the freeboard deck, in which fuels with flash point of 110° F or lower are used, shall be equipped with power ventilation. (See § 32.60-20 for other requirements concerning pumprooms.)

§ 32.55-5 Ventilation of tank vessels constructed between November 10, 1936, and July 1, 1951—TB/ALL.

(a) On tank vessels, the construction or conversion of which was started on or after November 10, 1936, and prior to July 1, 1951, all enclosed parts of the vessel, other than cargo, fuel, and water tanks and cofferdams, shall be provided with efficient means of ventilation.

(b) Pumprooms and compartments containing machinery where sources of vapor ignition are normally present shall be ventilated in such a way as to remove vapors from points near the floor level or the bilges. Effective steam or air actuated gas ejectors or blowers or ventilators fitted with heads for natural ventilation, will be approved for this purpose. (See § 32.65-20 for other requirements concerning pumprooms.)

§ 32.55-10 Ventilation of tank vessels contracted prior to November 10, 1936—TB/ALL.

Ventilation of tank vessels, the construction or conversion of which was started prior to November 10, 1936, shall be equal to the requirements of tank vessels constructed before July 1, 1951, where the changes are, in the opinion of the Officer in Charge, Marine Inspection, necessary in the interest of safety.


§ 32.55-15 Ventilation for hold spaces—TB/ALL.

Hold spaces containing independent cargo tanks shall be considered to be equivalent to cargo pumprooms and shall be ventilated and safeguarded as such.

§ 32.55-20 Venting of cargo tanks of tankships constructed on or after July 1, 1951—T/ALL.

(a) Venting required. (1) On all tankships, the construction or conversion of which is started on or after July 1, 1951, each cargo tank shall be equipped with a vent. The diameter of a vent shall be not less than 2½ inches.

(2) In any case where a venting system is required for a particular grade of liquid, the venting system permitted for a higher grade of liquid may be used instead.

(b) Grade A liquids. (1) Cargo tanks in which Grade A liquids are to be transported must be fitted with a venting system consisting of a branch vent line from each cargo tank connected to a vent header which must extend to a height above the weather deck equal to at least 13.1 feet and must terminate at a comparable distance from any living or working space, ventilator inlet, or source of ignition. When special conditions will prevent the vent line or header outlets being permanently installed at a height above the deck of 13.1 feet an adjustable system must be provided which, when extended vertically, is capable of reaching a height of 13.1 feet.
(2) A weather hood may be installed at the vent outlet providing it is of such design as not to direct the flow of vapor below the horizontal.

(3) The branch vent lines shall consist of either:
   (i) Pipe with no valves or other hindrances to a free flow of gas; or,
   (ii) Piping fitted with a pressure vacuum relief valve, provided means are supplied for relieving all internal pressure on cargo tanks by fitting the valve with a positive means for opening its pressure valve to allow free passage of gases through the branch vent line or by the installation of a by-pass fitted with a manually operated stop valve.

(4) The vent header shall be fitted with a flame arrester or pressure vacuum relief valve. If a pressure vacuum relief valve is used in the header, means shall be provided for relieving all internal pressure on cargo tanks by fitting the valve with a positive means for opening its pressure valve to allow free passage of gases through the header or by the installation of a by-pass fitted with a manually operated stop valve. A suitable means of relieving pressure shall be fitted in the header in order to prevent excess pressure being built up in the tanks, in the event of overfilling of the latter. The vent header system shall be provided with suitable connections for flushing and draining, and if desired, stop valves may be placed in the individual branch vent lines provided that each stop valve is bypassed by a pressure-vacuum relief valve.

(d) Grade D or E liquids. Cargo tanks in which Grade D or E liquids only are to be transported shall be fitted with gooseneck vents and flame screens.

(e) Tank vents which meet the requirements of SOLAS will be considered equivalent to the provisions of this section.


§ 32.55–25 Venting of cargo tanks of tank barges constructed on or after July 1, 1951—B/ALL.

(a) Venting required. (1) On all tank barges, subject to the provisions of this subchapter the construction or conversion of which is started on or after July 1, 1951, each cargo tank shall be equipped with a vent. The diameter of a vent shall be not less than 2½ inches.

(2) In any case where a venting system is required for a particular grade of liquid, the venting system permitted for a higher grade of liquid may be used instead.

(b) Grade A, B, or C liquids. Cargo tanks in which Grade A, B, or C liquids are to be transported shall be fitted with either individual pressure-vacuum relief valves which shall extend to a reasonable height above the weather deck or shall be fitted with a venting system consisting of branch vent lines connected to a vent header which shall extend to a reasonable height above the weather deck and be fitted with a pressure-vacuum relief valve. The vent header system, if fitted, shall be provided with suitable connections for flushing and draining, and if desired, stop valves may be placed in the individual branch vent lines. Provided, That each such stop valve is bypassed by a pressure-vacuum relief valve.

(c) Grade D or E liquids. Cargo tanks in which Grade D or E liquids only are to be transported shall be fitted with gooseneck vents and flame screens.

§ 32.55–30 Venting of cargo tanks of
      tank vessels constructed between
      November 10, 1936, and July 1,
      1951—TB/ALL.

(a) Venting required. On all tank ves-
      sels, the construction or alteration of
      which is started on or after November
      10, 1936, and prior to July 1, 1951, each
      cargo tank shall be equipped with a
      vent. The details of the venting system
      shall meet the requirements of this
      section, or alternatively, the require-
      ments of either § 32.55–20 or § 32.55–25, as
      applicable, shall be met.

(b) Grade A liquids. (1) Cargo tanks in
      which Grade A liquids are to be trans-
      ported shall be fitted with a venting
      system consisting of branch vent line
      from each cargo tank connected to a
      vent header which shall extend to a
      reasonable height above the weather
      deck and be fitted with a flame ar-
      rester or pressure-vacuum relief valve.
      Each branch vent line may be provided
      with a manually operated control
      valve, provided it is bypassed with a
      pressure-vacuum relief valve or each
      cargo tank to which such a branch vent
      line is connected is fitted with an inde-
      pendent pressure-vacuum relief valve.
      The vent header system shall be pro-
      vided with suitable connections for
      flushing and draining.

      (2) In barges with independent tanks
      carrying Grade A liquids, separate dis-
      charge pipes may be fitted to each
      pressure-vacuum relief valve, or the
      pressure-vacuum relief valve may be
      elevated, so that in either case the dis-
      charge from such valve will not be less
      than 7 feet above the deck where prac-
      ticable.

(c) Grade B or C liquids. Cargo tanks
      in which Grade B or C liquids are to
      be transported shall be fitted with indi-
      vidual pressure-vacuum relief valves or
      shall be fitted with a venting system
      consisting of branch vent lines con-
      nected to a vent header which shall ex-
      tend to a reasonable height above the
      weather deck and be fitted with a
      flame arrester or a pressure-vacuum re-
      lief valve.

(d) Grade D or E liquids. Cargo tanks
      in which Grade D or E liquids only are
      to be transported shall be fitted with
      gooseneck vents and flame screens un-
      less such tanks are vented by pressure-
      vacuum relief valves or a venting sys-
 tem of branch vent lines and a vent
      header.

§ 32.55–35 Venting of cargo tanks on
      tank vessels constructed prior to
      November 10, 1936—TB/ALL.

The venting of cargo tanks of tank
      vessels, the construction or alteration
      of which was started prior to November
      10, 1936, shall be made to equal the re-
      quirements of tank vessels constructed
      before July 1, 1951, where the changes
      are, in the opinion of the Officer in
      Charge, Marine Inspection, necessary
      in the interests of safety: Provided,
      That on such vessels carrying Grade A
      cargo the requirements in § 32.55–30(b)
      shall be met.

§ 32.55–45 Venting of cofferdams and
      void spaces of tank vessels con-
      structed on or after November 10,
      1936—TB/ALL.

(a) Except as provided in paragraph
      (b) of this section, on all tank vessels,
      the construction or conversion of
      which was started on or after Novem-
      ber 10, 1936, cofferdams and void spaces
      shall be provided with gooseneck vents
      fitted with a flame screen or pressure-
      vacuum relief valves. The diameter of a
      vent shall be not less than 2½ inches.

(b) On unmanned tank barges not
      fitted with fixed bilge systems in the
      cofferdams and void spaces, vents for
      cofferdams and void spaces will not be
      required.

§ 32.55–50 Ventilation of tankships
      that have a keel laying date on or
      after January 1, 1975—T/ALL.

Each tankship that has a keel laying
      date on or after January 1, 1975, must
      have deckhouse and superstructure
      ventilation inlets and outlets and other
      openings to the exterior arranged to
      minimize the admission of flammable
      gas to enclosed spaces that contain a
      source of ignition.


Subpart 32.56—Structural Fire Pro-
      tection for Tank Ships With a
      Keel Laying Date On or After
      January 1, 1975

SOURCE: CGD 74–127, 41 FR 3844, J an. 26,
      1976, unless otherwise noted.
§ 32.56-1 Application—T/ALL.

(a) This subpart applies to all tankships that have a keel laying date on or after January 1, 1975.

(b) SOLAS-certificated vessels may be considered equivalent to the provisions of this subpart.


§ 32.56-5 General—T/ALL.

(a) Except as provided in paragraphs (c) and (d) of this section, each category A machinery space must be aft of the cargo area and pumprooms.

(b) Except as provided in paragraphs (c), (d), and (e) of this section, each accommodation space, service space except isolated storage spaces, and control space and each main cargo control station must be aft of:

(1) The cargo area;

(2) All cargo pumprooms; and

(3) All cofferdams that isolate the cargo area from category A machinery spaces.

(c) Except as provided in paragraph (e) of this section, any pumproom may be recessed below accommodation, service, and control spaces and recessed into any category A machinery space if the distance between the deckhead of the recess and the underside of the accommodation, service, or control space is at least equal to the height of the recess.

(d) Accommodation, service, control and certain machinery spaces, such as spaces for bow thrusters, windlass, and emergency fire pumps, may be located forward of the cargo area and pumprooms if it is demonstrated to the Commandant that the overall degree of safety of the vessel is improved and that the degree of fire and life safety for these spaces is not less than the degree of fire and life safety for similar spaces located aft.

(e) On liquefied gas carriers:

(1) Main cargo control stations may be located in the cargo area;

(2) Accommodation, service, and control spaces may be located over cofferdams that isolate cargo tanks other than integral tanks from category A machinery spaces;

(3) Pumprooms may not be recessed into any space below deck.

§ 32.56-10 Navigation positions—T/ALL.

(a) No navigation position may be above the cargo area unless it is approved by the Commandant as necessary for the safe operation of the vessel.

(b) Each navigation position that is above the cargo area must be separated from the deck by an unenclosed space that extends at least 2 meters (6.6 feet) from the deck to the navigation position.

(c) Openings to navigation positions above cargo areas, except air locks, must be at least 2.4 meters (7.9 feet) above the deck.

§ 32.56-15 Deck spills—T/ALL.

A coaming or other barrier at least .3 meters (1 foot) higher than adjacent spill containment barrier must be provided to prevent cargo spills from flowing aft of the housefront.

§ 32.56-20 Insulation of exterior boundaries: Superstructures and deckhouses—T/ALL.

The following exterior boundaries of superstructures and deckhouses that contain accommodation, service, and control spaces, except wheelhouses, must be insulated to “A-60” Class:

(a) The exterior boundaries that face the cargo area.

(b) The portion of the exterior bulkheads and decks within 3 meters (10 feet) of these boundaries.

§ 32.56-21 Openings in exterior boundaries: Accommodation, service, and control spaces—T/ALL.

The following exterior boundaries of accommodation, service, and control spaces, except wheelhouses, must have no openings, and portlights must be of a fixed type with easily operable steel covers on the inside:

(a) The exterior boundaries that face the cargo area.

(b) The portion of the exterior boundaries within 3 meters (10 feet) or the length of the vessel divided by 25, whichever is greater, except that the distance need not exceed 5 meters (16.4 feet), of these boundaries.
§ 32.56–22 Openings in and insulation of boundaries: Other spaces—T/ALL.

If openings are fitted into the following exterior boundaries of any space other than an accommodation, service, or control space, the interior of the space must be insulated to “A–60” Class and the space must not provide access to any accommodation, service, or control space:

(a) The exterior boundaries that face the cargo area.

(b) The portion of the exterior boundaries within 3 meters (10 feet) or the length of the vessel divided by 25, whichever is greater, except that the distance need not exceed 5 meters (16.4 feet), of these boundaries.

§ 32.56–25 Category A machinery spaces: Windows and port lights—T/ALL.

(a) Except as provided in paragraph (b) of this section and subpart 111.105, of this chapter, boundaries of category A machinery spaces and boundaries of cargo pumprooms must not be pierced for windows or portlights.

(b) Skylights that can be closed from outside the spaces they serve may be fitted in boundaries of category A machinery spaces.

§ 32.56–30 Category A machinery spaces: Bulkheads and decks—T/ALL.

(a) Bulkheads and decks that separate category A machinery spaces from cargo pumprooms must be “A” Class construction.

(b) Bulkheads and decks that separate category A machinery spaces or cargo pumprooms, including the pumproom entrance, from accommodation, service, or control spaces must be “A–60” Class construction.

§ 32.56–35 Doors—T/ALL.

(a) Casing doors in category A machinery spaces and all elevator doors must be self-closing and must meet the requirements of 46 CFR 72.05–25(b).

(b) If a means of holding a door open is used, it must be a magnetic holdback or equivalent device that is operated from the bridge or other suitable remote control position.

§ 32.56–40 Category A machinery spaces: Insulation—T/ALL.

Structural insulation within category A machinery spaces must have a barrier such as metal foil, sheet metal, cementitious coating, or other vapor barrier so that the surface of that insulation is impervious to oil and oil vapors.

§ 32.56–45 Draft stops—T/ALL.

(a) Where ceilings or linings are fitted in accommodation, service, or control spaces, “B” Class bulkheads, except those that form passageways, may stop at the ceiling or lining if draft stops of “B” Class construction are fitted between the ceiling or lining and the deck or shell at intervals of 14 meters (46 feet) or less.

(b) Spaces behind the linings of stairways and other trunks must have draft stops at each deck.

§ 32.56–50 Combustible veneers—T/ALL.

(a) Except as provided in paragraph (b) of this section combustible veneers on bulkheads, linings, and ceilings within accommodation, service, or control spaces must be 2 millimeters (.079 inches) or less in thickness.

(b) Veneers on bulkheads, linings, and ceilings in concealed spaces, corridors, stairway enclosures, or control spaces must be an approved interior finish material or a reasonable number of coats of paint.

§ 32.56–55 Control spaces—T/ALL.

Bulkheads and decks that separate control spaces from adjacent spaces must be “A” Class construction and insulated against fire. 46 CFR Table 72.05–10(e) of the Passenger Vessel Regulations may be used as a guide.

§ 32.56–60 Ventilation ducts—T/ALL.

(a) Each duct for ventilation of Category A machinery spaces that passes through accommodation, service, or control spaces must be:
§ 32.57-1

(1) Constructed of steel and insulated to "A-60" Class; or
(2) Constructed of steel, fitted with an automatic fire damper at each boundary where it enters and leaves the Category A machinery space, and insulated to "A-60" Class for a distance of 5 meters (16.4 feet) beyond each machinery space boundary.

(b) Each duct for ventilation of accommodation, service, and control spaces that passes through Category A machinery spaces must be constructed of steel and be fitted with an automatic fire damper at each Category A machinery space boundary.

Subpart 32.57—Structural Fire Protection for Tank Vessels Contracted for On or After January 1, 1963

§ 32.57-1 Application—TB/ALL.

(a) The provisions of this subpart shall apply to all tank vessels contracted for on or after January 1, 1963.

(b) SOLAS-certificated vessels may be considered equivalent to the provisions of this subpart.


§ 32.57-5 Definitions—TB/ALL.

(a) Standard fire test. A "standard fire test" is one which develops in the test furnace a series of time temperature relationships as follows:

- 5 minutes—1,000° F.
- 10 minutes—1,100° F.
- 30 minutes—1,550° F.
- 60 minutes—1,700° F.

(b) "A" Class divisions. "A" Class divisions such as bulkheads and decks, means divisions that are composed of steel or an equivalent metal, suitably stiffened, and made intact with the main structure of the vessel, including the shell, structural bulkheads, or decks. They are constructed so that, if subjected to the standard fire test, they are capable of preventing the passage of flame and smoke for one hour. In addition, they are insulated with approved structural insulation, bulkhead panels, or deck coverings so that the average temperature on the unexposed side does not rise more than 130° C (250° F) above the original temperature, nor does the temperature at any one point, including any joint, rise more than 181° C (325° F) above the original temperature, within the time listed below:

<table>
<thead>
<tr>
<th>Class</th>
<th>Duration</th>
<th>Temperature Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-60</td>
<td>60 minutes</td>
<td>181° C (325° F)</td>
</tr>
<tr>
<td>A-30</td>
<td>30 minutes</td>
<td>181° C (325° F)</td>
</tr>
<tr>
<td>A-15</td>
<td>15 minutes</td>
<td>181° C (325° F)</td>
</tr>
<tr>
<td>A-0</td>
<td>0 minutes</td>
<td>No insulation requirement</td>
</tr>
</tbody>
</table>

(c) "B" Class bulkheads. Bulkheads of the "B" Class shall be constructed with approved incombustible materials and made intact from deck to deck and to shell or other boundaries. They shall be so constructed that, if subjected to the standard fire test, they would be capable of preventing the passage of flame for one-half hour.

(d) "C" Class divisions. Bulkheads or decks of the "C" Class shall be constructed of approved incombustible materials, but need meet no requirements relative to the passage of flame.

(e) Steel. Where the term "steel or other equivalent metal" is used in this subpart, it is intended to require a material which, by itself or due to insulation provided, has structural and integrity qualities equivalent to steel at the end of the applicable fire exposure.

(f) Approved material. Where in this subpart approved materials are required, they refer to materials approved under the applicable subparts of subchapter Q (Specifications) of this chapter, as follows:

- Deck Coverings: 164.006
- Structural Insulations: 164.007
- Bulkhead Panels: 164.008
- Incombustible Materials: 164.009
- Interior Finishes: 164.012

(g) Stairtower. A stairtower is a stairway which penetrates more than a single deck within the same enclosure.


§ 32.57-10 Construction—TB/ALL.

(a) The hull, superstructure, structural bulkheads, decks, and deckhouses shall be constructed of steel. Alternately, the Commandant may permit the use of other suitable material in special cases, having in mind the risk of fire.

(b) Bulkheads of galleys, paint and lamp lockers, and emergency generator...
rooms shall be of "A" Class construction.
(c) The boundary bulkheads and decks separating the accommodations and control stations from cargo, and machinery spaces and from galleys, main pantries and storerooms other than small service lockers shall be of "A" Class Construction.
(d) The following conditions apply within accommodation, service, and control spaces:
(1) Corridor bulkheads in accommodation areas shall be of "A" or "B" Class intact from deck to deck. State-room doors in such bulkheads may have a louver in the lower half.
(2) Stairtowers, elevator, dumb-waiter, and other trunks shall be of "A" Class construction.
(3) Bulkheads not already specified to be of "A" or "B" Class construction may be of "A", "B", or "C" Class Construction.
(4) The integrity of any deck in way of a stairway opening, other than a stairtower, shall be maintained by means of "A" or "B" Class divisions or bulkheads and doors at one level. The doors shall be of the self-closing type. No means shall be provided for locking such doors, except that crash doors or locking devices capable of being easily forced in an emergency may be employed provided a permanent and conspicuous notice to this effect is attached to both sides of the door. Holdback hooks or other means of permanently holding the door open will not be permitted. However, magnetic holdbacks operated from the bridge or from other suitable remote control positions are acceptable.
(5) Interior stairs, including stringers and treads shall be of steel or other suitable material having in mind the risk of fire. This is not intended to preclude the use of other material for nosing, walking surfaces, etc., over the steel.
(6) Except for washrooms and toilet spaces, deck coverings within accommodation spaces shall be of an approved type. However, overlays for leveling or finishing purposes which do not meet the requirements for an approved deck covering may be used in thicknesses not exceeding 1/8 of an inch.
(7) Except as provided in paragraph (d)(7-a) of this section, ceilings, linings, and insulation, including pipe and duct laggings, must be made of approved combustible material.
(7-a) Combustible insulations and vapor barriers that have a maximum extent of burning of 122 millimeters (5 inches) or less when tested in accordance with American Society for Testing and Materials (ASTM) Specification D-1692, "Rate of Burning or Extent of Burning of Cellular Plastics Using a Supported Specimen by a Horizontal Screen", may be used within refrigerated compartments.
(8) Any sheathing, furring or holding pieces incidental to the securing of any bulkhead, ceiling, lining, or insulation shall be of approved incombustible materials.
(9) Bulkheads, linings and ceilings may have a combustible veneer within a room not to exceed 2 millimeters (.079 inch) in thickness. However, combustible veneers, trim, decorations, etc., shall not be used in corridors or hidden spaces. This is not intended to preclude the use of an approved interior finish or a reasonable number of coats of paint.
(e) Wood hatch covers may be used between cargo spaces or between stores spaces. Hatch covers in other locations shall be of steel or equivalent metal construction. Tonnage openings shall be closed by means of steel plates or equivalent metal construction.
(f) Nitrocellulose or other highly flammable or noxious fume-producing paints or lacquers shall not be used.


§ 32.57-10
§ 32.59-1

Subpart 32.59—Minimum Longitudinal Strength and Plating Thickness Requirements for Unclassed Tank Vessels That Carry Certain Oil Cargoes—TB/ALL

§ 32.59-1 Minimum section modulus and plating thickness requirements—TB/ALL.

(a) As used in this section, Rule means the current Rules of the American Bureau of Shipping or other recognized classification society, as appropriate for the vessel’s present service and regardless of the year the vessel was constructed.

(b) The requirements of this section apply to all in-service, unclassed tank vessels certificated to carry a pollution category I oil cargo listed in 46 CFR Table 30.25-1.

(c) For all vessels except those limited on their Certificate of Inspection to river routes only, the minimum midship section modulus must be—

(1) At least 90 percent of that required by Rule; or

(2) Where there is no specific Rule requirement, at least 100 percent of that which is necessary to meet the bending moment developed under a full load condition in still water, using a permissible bending stress of 12.74 kN/cm² (1.30 t/cm², 8.25 Ltf/in²).

(d) Within the 40-percent midship length, the average flange and web thicknesses of each longitudinal stiffener must be as follows:

(1) For deck and bottom stiffeners: at least 85 percent of Rule thickness, unless a buckling analysis demonstrates that lesser thicknesses can be safely tolerated. However, the average thickness must never be less than 80 percent of Rule thickness; and

(2) For side stiffeners: at least 75 percent of Rule thickness.

(e) Within the 40-percent midship length, the average thickness for longitudinal strength plating must be at least as follows:

(1) Weather deck: 75 percent of Rule thickness;

(2) Hatch: 70 percent of Rule thickness;

(3) Trunk: 75 percent of Rule thickness;

(4) Sheer strake: 75 percent of Rule thickness;

(5) Outer sideshell: 75 percent of Rule thickness;

(6) Inner sideshell: 75 percent of Rule thickness;

(7) Outer bottom: 75 percent of Rule thickness;

(8) Inner bottom: 70 percent of Rule thickness;

(9) Keel: 75 percent of Rule thickness;

(10) Bulkheads: 75 percent of Rule thickness.

CGD 91-209, 58 FR 52602, Oct. 8, 1993

Subpart 32.60—Hull Requirements for Tank Vessels Constructed On or After July 1, 1951

NOTE: Requirements for double hull construction for vessels carrying oil, as defined in 33 CFR 157.03, in bulk as cargo are found in 33 CFR 157.10d.

§ 32.60-1 Scantlings, material, and workmanship—TB/ALL.

(a) All tank vessels, the construction or conversion of which is started on or after July 1, 1951, shall conform to the requirements in this subpart in construction of hulls. The hull and deckhouses shall be of steel or iron construction except that the pilothouse and decks over quarters may be constructed of wood. Scantlings, material, and workmanship, subdivision of cargo spaces, fitting of cofferdams, and testing of tanks shall be at least equivalent to the requirements of the American Bureau of Shipping or other recognized classification society.

(b) See subpart 32.57 for structural fire protection requirements for tank vessels contracted for on or after January 1, 1963.

§ 32.60-5 Subdivision of cargo space—TB/ALL.

The cargo space shall be divided into tight compartments as necessary to avoid excessive stresses and to provide stability.

§ 32.60-10 Segregation of cargo; Grade A, B, C, or D—TB/ALL.

(a) General. The galleys, living quarters, navigation spaces, general cargo spaces, boiler rooms, and enclosed spaces where sources of vapor ignition
are normally present, shall be segregated from cargo tanks by cofferdams or pump rooms or tanks, either empty or used to carry liquid having a flashpoint of 150° F. or above, or deck spaces enclosed or open.

(b) Cargo tank spaces. Cargo tank spaces shall extend to the main deck, with hatches and vents located on the weather deck. Liquids having a flash point of not less than 150° F. may be carried in the bulk tanks located beyond the segregating cofferdams and/or pump rooms.

(c) Enclosed spaces. (1) Cargo and vent piping passing through enclosed spaces immediately above the bulk cargo tanks shall be continuous except that flanged joints connecting pipe sections will be permitted.

(2) No openings to cargo tank shall be permitted other than stuffing boxes through which valve control rods or permanently installed gage tapes extend and openings for use of tank cleaning machines. Openings for tank cleaning machines, when not in use, shall be kept closed by means of gas-tight bolted plates and when in use shall be made essentially gas and watertight by covers through which hose or pipe to the tank cleaning machines extend.

(3) The overhead in way of quarters shall be gastight.

(d) Stowage spaces. The spaces described in paragraph (c) of this section may be used for stowage purposes and for general cargo provided that adequate ventilation is furnished.

(e) Openings. (1) Except as provided in paragraph (c) of this section, there shall be no manholes or other openings from cargo tanks to any other enclosed spaces. An exception may be made to allow direct access from cargo tanks to innerbottoms through gas tight bolted manholes, provided:

(i) The innerbottom tanks are voids or ballast tanks only, and

(ii) The innerbottom tanks are protected from sources of ignition similar to the cargo tanks, and any bilge or ballast pumping system serving the innerbottom tanks are treated like cargo pumping systems.

(2) Any vents, sounding tubes, and similar piping passing through such tanks shall be run in a suitable trunk; or such piping shall have a wall thickness equal to or greater than the innerbottom plating, but not less than schedule 80, and shall be welded continuously on both sides of the innerbottom plating.

§ 32.60-15 Segregation of cargo; Grade E—TB/ALL.

(a) General. The galleys, living quarters, navigation spaces, general cargo spaces, boiler rooms, and enclosed spaces containing machinery, where sources of vapor ignition are normally present, shall be segregated from the cargo tanks by bulkheads and intervening spaces are not required.

(b) Cargo tank spaces. Cargo tank spaces can be terminated at any deck with hatches on the same deck, but the vent lines shall be extended to the weather deck. Butterworth openings and extension rods may be located on the tank top.

§ 32.60-20 Pumprooms on tank vessels carrying Grade A, B, C, D and/or E liquid cargo—TB/ALL.

(a) Cargo pumps. In tank vessels carrying Grade A, B, C, or D liquid cargo, cargo pumps shall be isolated from source of vapor ignition by gastight bulkheads. A gastight bulkhead between the pumproom and the pump engine room may be pierced for drive shaft and pump engine control rods provided such openings are fitted with stuffing boxes or other approved gland arrangement. A steam driven pump shall not be considered a source of vapor ignition provided the steam temperature does not exceed 500° F.

(b) Ventilation for pumprooms on tank vessels the construction or conversion of which is started between July 1, 1951, and January 1, 1963. (1) Pumprooms of all tank vessels, the construction or conversion of which is started between July 1, 1951, and January 1, 1963, shall be ventilated in such a way as to remove vapors from points near the floor level or bilges. Pumprooms on tankships handling Grade A, B, or C liquid cargo, with machinery located below the freeboard deck, shall be equipped with power ventilation. Pumprooms
§ 32.60-25

equipped with power ventilation shall have the ventilation outlets terminate more than six feet from any opening to the interior part of the vessel which normally contains sources of vapor ignition.

(2) For all tank vessels, the construction or conversion of which is started between October 1, 1959, and January 1, 1963, the power ventilation shall not produce a source of vapor ignition in either the pumproom or the ventilation systems associated with the pumproom. The capacity of power ventilation units shall be sufficient to effect a complete change of air in not more than 3 minutes, based upon the volume of the pumproom and associated trunks up to the deck at which access from the weather is provided.

(c) Ventilation for pumprooms on tank vessels the construction or conversion of which is started on or after January 1, 1963. (1) For all tank vessels, the construction or conversion of which is started on or after January 1, 1963, the cargo pumprooms shall be fitted in accordance with paragraphs (a) and (d) of this section. Cargo pumprooms on these vessels shall be ventilated in such a way as to remove vapors from points near the floor level or bilges. Cargo pumprooms on tank vessels handling Grade A, B, or C liquid cargo, shall be equipped with power ventilation of the exhaust type having capacity sufficient to effect a complete change of air in not more than 3 minutes based upon the volume of the pumproom and associated trunks up to the deck at which access from the weather is provided.

(2) The power ventilation units shall not produce a source of vapor ignition in either the pumproom or the ventilation systems associated with the pumproom. Inlets to exhaust ducts shall be provided and located near the floor level at points where concentrations of vapors may be expected. Ventilation from the weather deck shall be provided. Power supply ventilation may be fitted in lieu of natural ventilation, but when fitted shall be arranged to avoid turbulence in the cargo pumproom. Cargo pumprooms equipped with power ventilation shall have the ventilation outlets terminate more than 6 feet from any opening to the interior part of the vessel which normally contains sources of vapor ignition, and shall be so located as to minimize the possibility of recirculating contaminated air through the pumproom.

(3) Cargo pumprooms handling Grade D and/or E liquid cargo only shall be fitted with at least two ducts extended to the weather deck, one of which shall be extended to a point near the floor level. This does not preclude installation of power ventilation, if desired.

(4) The ventilation required in this paragraph shall be sufficient to properly ventilate the pumproom with the access openings closed.

(d) Access. The access to a cargo pumproom in a tank vessel carrying Grade A, B, C, or D liquid cargo shall be from the open deck.

§ 32.60-25 Living quarters—TB/ALL.

For living quarters the partitions and sheathing shall be of an approved fire resistive construction. The specification for incombustible materials is in subchapter Q (Specifications) of this chapter.

§ 32.60-30 Tank vessels with independent tanks—TB/ALL.

(a) Independent cargo tanks may be located in hold spaces or in other cargo tanks; however, a working space of at least 15 inches shall be maintained around each independent tank, or else provisions shall be made for moving such tanks to furnish such working space, except that less than 15 inches around such tanks may be permitted if in the judgment of the Officer in Charge, Marine Inspection, having jurisdiction, a satisfactory inspection of the cargo tanks and hull structure can be made.

(b) When an independent cargo tank is located in an enclosed space other than a cargo tank, such enclosed space shall be considered as equivalent to a pumproom and shall be safeguarded as such as required by this subpart.

(c) Cargo tanks independent of the hull structure shall be supported in
saddles or on foundations of steel or other suitable material and securely attached in place to preclude the cargo from being damaged or shifting as a result of collision. The arrangement shall be such as to permit longitudinal and circumferential, or athwartship and vertical, expansion of the cargo tanks. Each tank shall be supported so as to prevent the concentration of excessive loads on the supporting portion of the shell.

§ 32.60–35 Tank vessels carrying Grade A liquid cargo—TB/ALL.

(a) Grade A liquids having a Reid vapor pressure in excess of 25 pounds per square inch shall be transported in cargo tanks which are independent of the hull.

(b) Barges carrying Grade A liquids having a Reid vapor pressure in excess of 25 pounds per square inch shall be of a Type III barge hull as defined in § 32.63–5(b)(3).

[CGFR 70–10, 35 FR 3709, Feb. 25, 1970]

§ 32.60–40 Construction and testing of cargo tanks and bulkheads—TB/ALL.

(a) All cargo tanks vented at gage pressure of 4 pounds per square inch or less shall be constructed and tested as required by standards established by the American Bureau of Shipping or other recognized classification society. The design of cargo tanks integral with the hull and vented at a gage pressure exceeding 4 pounds per square inch but not exceeding 10 pounds per square inch gage pressure will be given special consideration by the Commandant.

(b) Cargo tanks vented at a gage pressure exceeding 10 pounds per square inch are considered to be pressure vessels and shall be of cylindrical or similar design and shall meet the requirements of subchapter F (Marine Engineering) of this chapter.


§ 32.60–45 Segregation of spaces containing the emergency source of electric power—TB/ALL.

(a) The provisions of this section shall apply to all vessels contracted for on or after October 1, 1958.

(b) When a compartment containing the emergency source of electric power, or vital components thereof, adjoins a space containing either the ship’s service generators or machinery necessary for the operation of the ship’s service generators, all common bulkheads and/or decks shall be protected by approved “structural insulation” or other approved material. This protection shall be such as to be capable of preventing an excessive temperature rise in the space containing the emergency source of electric power, or vital components thereof, for a period of at least one hour in the event of fire in the adjoining space. Bulkheads or decks meeting Class A–60 requirements, as defined by § 72.05–10 of subchapter H (Passenger Vessels) of this chapter, will be considered as meeting the requirements of this paragraph.

Subpart 32.63—Hull and Cargo Tank Requirements for Tank Barges Constructed or Converted On or After July 1, 1964, and Carrying Certain Dangerous Bulk Cargoes

§ 32.63–1 Application—B/ALL.

(a) The requirements of this subpart shall apply to all tank barges, the construction or conversion of which is started on or after July 1, 1964, and carrying those cargoes listed in Table 30.25–1 which are defined as:

(1) Flammable liquids having a Reid vapor pressure in excess of 25 pounds per square inch, absolute, in independent tanks (part 32).

(2) Liquefied flammable gases (part 38 of this subchapter).

[CGFR 70–10, 35 FR 3709, Feb. 25, 1970]

§ 32.63–5 Barge hull classifications—B/ALL.

(a) Each barge subject to the provision of this subpart shall be assigned a hull type number. The Commandant will designate the barge hull types to be used for carrying cargoes in order to insure that the vessel is designed consistent with the degree and nature of the hazard of the commodity carried.

(b) For this purpose the barge hull types shall be as follows:
§ 32.63–8 Alternative arrangements—B/ALL.

(a) Alternative arrangements, differing from those specifically required by this subpart, may be considered and approved by the Commandant, if it is demonstrated to his satisfaction that a degree of safety is obtained which is consistent with the intent of this subpart.

§ 32.63–10 Rakes and coamings—B/ALL.

(a) Each barge hull shall be constructed with a suitable blow form (length, shape, and height of headlog) to protect against diving at the maximum speed at which the barge is designed to be towed. In any integrated tow, only the lead barge need comply with this requirement. In any case, the operator of the towing vessel shall be guided by appropriate speed limitations.

(b) All open hopper type barge hulls shall be provided with coamings around the hopper space and, additionally, a 36-inch minimum height plowshare breakwater on the forward rake. Coamings shall have a minimum height of 36 inches forward graduated to a minimum height of 24 inches at midlength and 18 inches thereafter.

§ 32.63–20 Hull structure—B/ALL.

(a) General. In addition to complying with the requirements of §32.60–1, as applicable, barge hulls of Types I and II shall comply with the provisions of this section.

(b) Types I and II barge hull. Under an assumed grounding condition such that the forward rake bulkhead rests upon a pinnacle at the water surface, the maximum hull bending stress shall not exceed the following limits:

(1) Independent tanks may be installed in such a manner that they do not contribute to the strength and stiffness of the barge. In such case, the hull stress shall not exceed either 50 percent of the minimum ultimate tensile strength of the material or 70 percent of the yield strength when specified, whichever is greater.

(2) The Commandant may consider a reduction in hull stress when independent tanks are installed in such a manner as to contribute to the strength and stiffness of the barge and this is accounted for in determining the effective section modulus of the barge. In such case, the hull stress shall not exceed the percentage stress values prescribed in paragraph (b)(1) of this section multiplied by the quantity (1.5·SWT/UTS), where SWT is the stress calculated without including the effect of the tanks, and UTS is the minimum ultimate tensile strength of the material. The value SWT, however, shall in no case be more than 75 percent of UTS.

§ 32.63–25 Cargo tanks and supports—B/ALL.

(a) General. Saddles and hold-down securing straps for independent cargo tanks shall be designed to prevent tank failure due to loads induced in the saddles or straps by barge deflection.

(b) Collision protection. (1) All independent cargo tanks installed on Type I and Type II barge hulls shall be protected with suitable collision chocks or collision straps to withstand a longitudinal collision load of one and one-half times the weight of the tank and cargo. All other independent cargo tanks shall be provided with suitable collision chocks or collision straps to withstand a longitudinal collision load equal to the weight of the tank and cargo.

(2) All cargo tanks shall be so located as to reduce the likelihood of their
being damaged in the event of collision. This protection shall be obtained by locating the cargo tanks not less than 4 feet from the side shell and box-end for Type I hulls and 3 feet for Type II barge hulls, and not less than 25 feet from the headlog at the bow for both types.

(c) Cargo tank design—(1) Types I and II barge hulls. (i) In addition to requirements provided for in applicable regulations for a specific commodity, cargo subject to the provisions of this subpart shall be transported in cargo tanks meeting the requirements of this paragraph. Pressure vessel-type cargo tanks shall have sufficient additional strength so as to limit the maximum combined tank stress, including saddle horn and bending stresses, to 1.5 times the maximum allowable hoop stress in still water, and to the yield strength of the tank material or 70 percent of the minimum ultimate tensile strength of the tank material, if less, in the grounded condition as required by § 32.63-20(b).

(ii) Gravity type cargo tanks shall have sufficient additional strength to limit the maximum combined tank stress, including saddle horn and bending stresses, to the yield strength of the tank material or 70 percent of the minimum ultimate tensile strength of the tank material, if less, in the grounded condition as required by § 32.63-20(b).

(2) Type III barge hulls. In addition to the requirements of this paragraph, pressure vessel-type cargo tanks shall have sufficient additional strength so as to limit the maximum combined stress, including saddle horn and bending stresses, to 1.5 times the maximum allowable hoop stress.

Subpart 32.65—Hull Requirements for Tank Vessels Constructed On or After November 10, 1936, and Prior to July 1, 1951

§ 32.65–1 Application—TB/ALL.

The requirements in this subpart apply to all tank vessels, the construction or conversion of which was started on or after November 10, 1936, and prior to July 1, 1951.

§ 32.65–5 Scantlings, material, and workmanship—TB/ALL.

The hull and deck houses shall be of steel or iron construction except that the pilothouse and decks over quarters may be constructed of wood. Scantlings, material, and workmanship, subdivision of cargo spaces, fitting of cofferdams, and testing of tanks shall be at least equivalent to the requirements of the American Bureau of Shipping or other recognized classification society.

§ 32.65–10 Subdivision of cargo space—TB/ALL.

The cargo space shall be divided into tight compartments as necessary to avoid excessive stresses and to provide stability.

§ 32.65–15 Cofferdams—TB/ALL.

Tank vessels equipped to carry Grade A, B, C, or D liquids shall have their galleys, living quarters, general cargo spaces, boiler rooms, and enclosed spaces containing propelling machinery or other machinery where sources of vapor ignition are normally present, segregated from their cargo tanks by cofferdams or equivalent pumprooms, tanks, or air spaces.

§ 32.65–20 Pumprooms—TB/ALL.

(a) Tank vessels handling Grade A, B, C, or D liquids shall have their cargo pumps isolated from all sources of vapor ignition by gastight bulkheads. Totally enclosed motors of the “explosion proof” type, motors ventilated on both the intake and exhaust by ducts to atmosphere, and engines driven by steam shall not be considered to be sources of vapor ignition. The gastight bulkhead between the pumproom and the pump-engine compartment may be pierced by fixed lights, drive shaft and pump-engine control rods, provided that the shafts and rods are fitted with stuffing boxes where they pass through the gastight bulkhead. The access to a cargo pumproom handling such liquids shall be from the open deck. (See § 32.60–20.0.)

§ 32.65–25 Living quarters—TB/ALL.

Partitions and sheathing shall be of approved fire-resistive construction.
§ 32.65–30 Tank vessels with independent tanks—TB/ALL.

Independent cargo tanks may be located in hold spaces or in other cargo tanks but in all cases a working space of at least 15 inches shall be provided around such independent tanks, or else provisions shall be made for moving them to secure such space. When independent cargo tanks are located in an enclosed space other than a cargo tank, such enclosed space shall be considered as equivalent to a pumproom, and shall be safeguarded as such, as required in the regulations in this subchapter.

§ 32.65–35 Tank vessels carrying Grade A liquids—TB/ALL.

Cargo tanks for Grade A liquids having a Reid vapor pressure in excess of 25 pounds shall be independent of the hull.

§ 32.65–40 Construction and testing of cargo tanks and bulkheads—TB/ALL.

(a) All cargo tanks to be vented at gage pressures of 4 pounds per square inch or less shall be constructed and tested as required by the requirements of the American Bureau of Shipping or other recognized classification society.

(b) All cargo tanks to be vented at gage pressures above 4 pounds per square inch shall be considered as pressure vessels and shall meet the requirements for such vessels as to construction and testing, as set forth in subchapter F (Marine Engineering) of this chapter.

(c) Gastight bulkheads shall be subjected to a thorough hose test.


Subpart 32.70—Hull Requirements for Steel Hull Tank Vessels Constructed Prior to November 10, 1936

§ 32.70–1 Application—TB/ALL.

All steel hull tank vessels, the construction or conversion of which was started prior to November 10, 1936, shall conform to the requirements in this subpart.

§ 32.70–5 Hull requirements; general—TB/ALL.

The scantlings, material, and workmanship, the subdivision of cargo spaces, the arrangement of cofferdams, the testing of tanks and cofferdams, shall be at least equivalent to the requirements of a recognized classification society for the particular service specified in the application for the certificate of inspection and permit for the transportation of liquid flammable cargoes in bulk as of the date when the tank vessel was built or as of the date when the vessel was converted into a tank vessel. In the absence of such classification requirements, the Officer in Charge, Marine Inspection, shall satisfy himself that the vessel’s structure as specified in this section is safe for the service to be specified in its certificate of inspection.

[CGFR 66–33, 31 FR 15268, Dec. 6, 1966]

§ 32.70–10 Cofferdams—TB/ALL.

Tank vessels carrying Grade A, B, or C liquids shall be required to conform to the construction requirements in regard to vertical cofferdams in § 32.65–15, except that a dry cargo compartment shall be considered to be equivalent to a cofferdam, and except as provided for in § 32.70–20.

§ 32.70–15 Pumprooms—TB/ALL.

Tank vessels handling Grade A, B, C or D liquid cargo shall meet the requirements for tank vessels in § 32.65–20 except that the electrical installation shall comply with the requirements of § 32.45–10(c).

§ 32.70–20 Pump-engine compartment—TB/ALL.

No cofferdam will be required between a cargo tank and a compartment containing pumping engines and their auxiliaries which are used exclusively during pumping operations, provided the pumping engine compartment contains no cargo valves and is well ventilated and provided further that internal combustion exhaust within the compartment are completely water jacketed or insulated and that gasoline engine intakes are fitted with effective flame arresters.
§ 32.70–25 Cargo tanks—TB/ALL.

Cargo tanks shall comply with the conditions specified in §§ 32.65–30 and 32.65–35, and shall pass the tests required in § 32.65–40. Provided, however, that less than 15 inches around such tanks may be accepted if in the judgment of the Officer in Charge, Marine Inspection, making the inspection, a satisfactory inspection of the cargo tanks and hull structure can be made.

Subpart 32.75—Hull Requirements for Wood Hull Tank Vessels Constructed Prior to November 10, 1936

§ 32.75–1 Application—TB/ALL.

All wood hull tank vessels, the construction or conversion of which was started prior to November 10, 1936, shall conform to the requirements in this subpart.

§ 32.75–5 Hull requirements; general—TB/ALL.

The scantlings, material, and workmanship, and the fitting and fastening of parts shall be at least equivalent to the requirements of a recognized classification society for the particular service specified in the application for certificate of inspection and permit for the transportation of liquid flammable cargoes in bulk as of the date when the tank vessel was built, or as of the date when the vessel was converted into a tank vessel. In the absence of such classification requirements, the Officer in Charge, Marine Inspection, shall satisfy himself that the vessel’s structure as specified in this section is safe for the service to be specified in its certificate of inspection.

§ 32.75–10 Cargo tanks—TB/ALL.

Cargo tanks shall be independent of the wood hull, shall be made of steel or iron, and shall pass the tests required in § 32.65–40 (a), (b). Where cargo tanks in wood hulls are not arranged to provide working space around them they shall be so constructed as to allow inspection of the hull, tanks, and bilges, and they shall be so installed that they can be moved to allow repairs to the hull structure and to themselves.

§ 32.75–15 Electric bonding and grounding for tanks—TB/ALL.

All independent cargo tanks in wood hull tank vessels shall be electrically bonded together with stranded copper cable of not less than No. 4B and 5 gage and one end of this cable shall be grounded to a copper or brass plate of not less than 2 square feet in area and one-sixteenth inch in thickness and this plate shall be securely fastened to the hull, on the outside, at a point where it shall be covered by water when the tank vessel is unloaded.

§ 32.75–20 Hold spaces and bulkheads—TB/ALL.

In wood hull tank vessels containing independent cargo tanks for the transportation of Grade A, B, C, or D liquids, the hold spaces shall be considered as equivalent to a pumproom and shall be safeguarded and ventilated as such as required by § 32.65–20. Where the hold spaces contain equipment or operations which are sources of vapor ignition, such equipment or operations shall be isolated from other spaces by gastight bulkhead or, if it is impracticable to construct a gastight bulkhead, two structurally tight bulkheads without openings, separated by a well-ventilated air space 24 inches wide, where possible may be used.

Subpart 32.80—Tank Barges Constructed of Materials Other Than Steel or Iron

§ 32.80–1 General requirements—B/ALL.

All tank barges with hulls constructed of materials other than iron or steel, the construction or conversion of which was started prior to September 2, 1945, and to which certificates of inspection were issued prior to March 2, 1946, shall be considered the same as tank barges constructed prior to November 10, 1936.
§ 32.85-1

Subpart 32.85—Lamp and Paint Rooms and Similar Compartments on Tankships

§ 32.85-1 Fireproofing of lamp, oil and paint rooms—T/ALL.

Lamp, oil and paint rooms shall be wholly and tightly lined with metal.

Subpart 32.90—Pilot Boarding Equipment

§ 32.90-1 Pilot boarding equipment.

(a) This section applies to each vessel that normally embarks or disembarks a pilot from a pilot boat or other vessel.

(b) Each vessel must have suitable pilot boarding equipment available for use on each side of the vessel. If a vessel has only one set of equipment, the equipment must be capable of being easily transferred to and rigged for use on either side of the vessel.

(c) Pilot boarding equipment must be capable of resting firmly against the vessel’s side and be secured so that it is clear from overboard discharges.

(d) Each vessel must have lighting positioned to provide adequate illumination for the pilot boarding equipment and each point of access.

(e) Each vessel must have a point of access that has:

1. A gateway in the rails or bulwark with adequate handholds; or
2. Two handhold stanchions and a bulwark ladder that is securely attached to the bulwark rail and deck.

(f) The pilot boarding equipment required by paragraph (b) of this section must include at least one pilot ladder approved under subpart 163.003 of this chapter. Each pilot ladder must be of a single length and capable of extending from the point of access to the water’s edge during each condition of loading and trim, with an adverse list of 15°.

(g) Whenever the distance from the water’s edge to the point of access is more than 30 feet, access from a pilot ladder to the vessel must be by way of an accommodation ladder or equally safe and convenient means.

(h) Pilot hoists, if used, must be approved under subpart 163.002 of this chapter.

[CGD 79-032, 49 FR 25455, June 21, 1984]
§ 34.01-15 Protection for unusual arrangements or special products—TB/ALL.

(a) The provisions of this part contemplate fire protection for tank vessels of conventional design carrying the usual liquid petroleum products in internal tanks. Whenever unusual arrangements exist or special cargoes are carried upon which the vessel’s normal firefighting equipment will be ineffective, additional suitable firefighting equipment of approved type shall be carried.

§ 34.01-15 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the Federal Register and make the material available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC 20593-0001 and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are:

American Society for Testing and Materials (ASTM)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959


National Fire Protection Association (NFPA)

1 Batterymarch Park, Quincy, MA 02269-9101

NFPA 13-1996, Standard for the Installation of Sprinkler Systems—34.30-1


Subpart 34.01—General

§ 34.01-1 Applicability—TB/ALL.

(a) The provisions of this part shall apply to all tank vessels except as otherwise noted in this part.

[CGFR 65-50, 30 FR 16694, Dec. 30, 1965, unless otherwise noted.]

Subpart 34.05—Portable and Semiportable Extinguishers

§ 34.05-1 Application—TB/ALL.

§ 34.05-5 Classification— TB/ALL.

§ 34.05-10 Location—TB/ALL.

§ 34.05-15 Spare charges—TB/ALL.

§ 34.05-20 Semiportable fire extinguishers—TB/ALL.

§ 34.05-90 Vessels contracted for prior to January 1, 1962—TB/ALL.

Subpart 34.10—Fire Axes

§ 34.10-1 Application—TB/ALL.

§ 34.10-5 Number required—TB/ALL.

§ 34.10-10 Location—TB/ALL.

Subpart 34.20—Cargo area definition—T/ALL.

§ 34.20-5 Quantity of foam required—T/ALL.

§ 34.20-10 Controls— T/ALL.

§ 34.20-15 Piping— T/ALL.

§ 34.20-20 Discharge outlets—T/ALL.

§ 34.20-90 Installations contracted for prior to January 1, 1970—T/ALL.

Subpart 34.25—Water Spray Extinguishing Systems, Details

§ 34.25-1 Application—T/ALL.

§ 34.25-5 Capacity and arrangement—T/ALL.

§ 34.25-10 Controls—T/ALL.

§ 34.25-15 Piping—T/ALL.

§ 34.25-20 Spray nozzles— T/ALL.

§ 34.25-90 Installations contracted for prior to January 1, 1964—T/ALL.

Subpart 34.30—Automatic Sprinkler Systems, Details

§ 34.30-1 Application—TB/ALL.


Source: CGFR 65-50, 30 FR 16694, Dec. 30, 1965, unless otherwise noted.
§ 34.05—1 Fire main system—T/ALL.

(a) Fire pumps, piping, hydrants, hose and nozzles shall be installed on all tankships.

(b) The arrangements and details of the fire main system shall be as set forth in subpart 34.10.

[CGFR 65-50, 30 FR 16694, Dec. 30, 1965, as amended by CGD 77-057a, 44 FR 66502, Nov. 19, 1979]

§ 34.05—5 Fire-extinguishing systems—T/ALL.

(a) Approved fire extinguishing systems must be installed on all tankships in the following locations. Previously approved installations may be retained as long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.

(1) Dry cargo compartments. A carbon dioxide or water spray system must be installed for the protection of all dry cargo compartments. Where such compartments are readily accessible by means of doors such spaces need be protected only by the fire main system.

(2) Cargo tanks. A deck foam system must be installed for the protection of all dry cargo compartments. Where such compartments are readily accessible by means of doors such spaces need be protected only by the fire main system.

(3) Lamp and paint lockers and similar spaces. A carbon dioxide or water spray system must be installed in all lamp and paint lockers, oil rooms, and similar spaces.

(4) Pumprooms. A carbon dioxide, inert gas, foam or water spray system must be installed for the protection of all pumprooms.

(5) Boilerrooms. On tankships contracted for on or after November 19, 1952, a carbon dioxide or foam system shall be installed for the protection of all spaces containing oil fired boilers, either main or auxiliary, their fuel oil service pumps and/or such fuel oil units as the heaters, strainers, valves, manifolds, etc., that are subject to the discharge pressure of the fuel oil service pumps.

(6) Machinery spaces. A carbon dioxide system shall be installed for the protection of machinery spaces containing internal combustion propelling engines using fuel having a flashpoint of less than 110 degrees F.

(7) Internal combustion installations. Fire-extinguishing systems shall be provided for internal combustion installations in accordance with the following:

(i) If a fire-extinguishing system is installed to protect an internal combustion installation, the system shall be of the carbon dioxide type.

(ii) On vessels of 1,000 gross tons and over on an international voyage, the construction or conversion of which is contracted for on or after May 26, 1965, a fixed carbon dioxide system shall be installed in all spaces containing internal combustion or gas turbine main propulsion machinery, auxiliaries with an aggregate power of 1,000 b.h.p. or greater, or their fuel oil units, including purifiers, valves, and manifolds.

(iii) On vessels of 1,000 gross tons and over, the construction, conversion or automation of which is contracted for on or after January 1, 1968, a fixed carbon dioxide system shall be installed in all spaces containing internal combustion or gas turbine main propulsion machinery, auxiliaries with an aggregate power of 1,000 b.h.p. or greater, or their fuel oil units, including purifiers, valves, and manifolds.

(b) The arrangements and details of the fire-extinguishing systems shall be as set forth in subparts 34.10 through 34.20.

§ 34.05–10 Portable and semiportable extinguishers—TB/ALL.

(a) All portable and semiportable extinguishers on board tank vessels shall be of an approved type.

(b) The type, size, location and arrangement of portable and semiportable extinguishers shall be as set forth in subpart 34.50.


§ 34.05–20 Fire axes—T/ALL.

(a) Fire axes shall be provided on all tankships.

(b) The location and arrangement of fire axes shall be as set forth in subpart 34.60.

Subpart 34.10—Fire Main System, Details

§ 34.10–1 Application—TB/ALL.

(a) On all tankships the provisions of this subpart, with the exception of § 34.10–90, shall apply to all fire main installations contracted for on or after May 26, 1965. Installations contracted for prior to May 26, 1965, shall meet the requirements of § 34.10–90.

(b) If a fire main system is installed on a tank barge, the system shall meet the intent of this subpart insofar as reasonable and practicable.

§ 34.10–5 Fire pumps—T/ALL.

(a) Tankships shall be equipped with independently driven fire pumps in accordance with table 34.10–5(a).

<table>
<thead>
<tr>
<th>Size vessel, L.O.A. (feet)</th>
<th>Not over 100</th>
<th>100–250</th>
<th>250–400</th>
<th>400–500</th>
<th>Over 650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum number of pumps</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Powerful streams of water per pump</td>
<td>2 1/2</td>
<td>2 1/2</td>
<td>2 1/2</td>
<td>2 1/2</td>
<td>2 1/2</td>
</tr>
<tr>
<td>Minimum hydrant and hose size (inches)</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

(b) Each pump shall be capable of delivering simultaneously the number of streams of water required by table 34.10–5(a) from the outlets having the greatest pressure drop between fire pump(s) and nozzles at a Pitot tube pressure of approximately 75 p.s.i. Where 1 1/2-inch hose is permitted in lieu of 2 1/2-inch hose by footnote 3 of Table 34.10–5(a), the pump capacity shall be determined on the basis that both hoses are used.

(c) On tankships of 1,000 gross tons and over on an international voyage, each required fire pump, while delivering water through the fire main system at a pressure corresponding to that required by § 34.10–15(e), shall have a minimum capacity of at least two-thirds of that required for an independent bilge pump if no length correction is taken for the cargo tank space. However, in no case shall the capacity of each fire pump be less than that otherwise required by this section.

(d) Fire pumps shall be fitted on the discharge side with relief valves set to relieve at 25 p.s.i. in excess of the pressure necessary to maintain the requirements of paragraph (b) of this section.

(e) Fire pumps shall be fitted with a pressure gage on the discharge side of the pumps.

(f) Fire pumps may be used for other purposes provided at least one of the required pumps is kept available for use on the fire system at all times. In no case shall a pump having connection to an oil line be used as a fire pump. Branch lines connected to the fire main for purposes other than fire and deck wash shall be arranged so that the requirements of paragraph (b) of this section and any other services installed on the fire main can be met simultaneously.

(g) On all vessels where two fire pumps are required, they shall be located in separate spaces, and the arrangement of pumps, sea connections, and sources of power shall be such as to insure that a fire in any one space will not put all of the fire pumps out of operation. However, where it is shown to the satisfaction of the Commandant that it is unreasonable or impracticable to meet this requirement due to the size, or arrangement of the vessel, or for other reasons, the installation of
§ 34.10-10 Fire station hydrants, hose and nozzles—T/ALL.

(a) The size of fire station hydrants and hose required shall be as noted in Table 34.10-5(a).

(b) Fire hydrants shall be of sufficient number and so located that any part of living quarters, storerooms, working spaces and weather decks accessible to crew while at sea may be reached with two effective spray patterns of water, one of which shall be from a single 50-foot length of hose. In main machinery spaces all portions of such spaces shall be capable of being reached by at least 2 effective spray patterns of water, each of which shall be from a single 50-foot length of hose from separate outlets.

(c) The outlets at the fire station hydrant shall be limited to any position from the horizontal to the vertical pointing downward so that hose will lead horizontally or downward to minimize possibility of kinking.

(d) All fire station hydrants shall be equipped with spanners suitable for use on the hose at that station.

(e) Each fire station hydrant must have at least 1 length of firehose. Each firehose on the hydrant must have a combination solid stream and water spray firehose nozzle that meets the requirements in subpart 162.027 of this chapter. Firehose nozzles previously approved under subpart 162.027 of this chapter may be retained so long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. A suitable hose rack or other device must be provided. Hose racks on weather decks must be located to afford protection from heavy seas. The hose must be stored in a location that is readily visible.

(f) Each combination firehose nozzle previously approved under subpart 162.027 of this chapter in the locations listed in table 34.10-10(E) must have a low-velocity water spray applicator also previously approved under subpart 162.027 of this chapter that is of the length listed in that table.

(g) The pipes and fire station hydrants shall be so placed that the fire hose may be easily coupled to them. All hydrants shall be so located as to be readily accessible. If deck cargo is carried, it shall not interfere with access to the fire station hydrants, and the pipes shall be arranged as far as practicable to avoid risk of damage by such cargo.

(h) Each fire station hydrant or “y” branch shall be equipped with a valve so that the hose may be removed while there is pressure on the fire main.

(i) Fire station hydrant connections shall be brass, bronze, or other equivalent metal. Couplings shall either:

(1) Use National Standard fire hose coupling threads for the 1½ inch (38 millimeter) and 2½ inch (64 millimeter) hose sizes, i.e. 9 threads per inch for 1½ inch hose, and 7½ threads per inch for 2½ inch hose; or

(2) Be a uniform design for each hose diameter throughout the vessel.

(j) Fire hose shall be 50 feet in length except on weather decks the hose shall be increased in length if necessary to enable a single length to be goose-necked over each side of the vessel. If two fire mains are installed on the weather decks, the length of hose shall be such that it may be goose-necked over the side from the nearest fire main.

(k) Fire hose when part of the fire equipment shall not be used for any other purpose than fire extinguishing, fire drills, and testing.
§ 34.10–90 Installations contracted for prior to May 26, 1965—T/ALL.

(a) Installations contracted for prior to January 1, 1962, shall meet the following requirements:

(1) Existing arrangements, materials and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) Except as further modified by this paragraph, the details of the systems shall be in general agreement with §§ 34.10–5 through 34.10–15 insofar as is reasonable and practicable.

(3) Tankships of less than 500 gross tons shall be equipped with an efficient hand pump capable of delivering 50 gallons per minute or a power-driven pump of equivalent capacity. However, on tankships of 20 gross tons or under where it is impracticable to install a hand or power-operated fire pump, or on tankships with only one man in the crew, at least one additional B-II fire extinguisher may be accepted in lieu of a fire pump.

(4) Tankships of 500 gross tons and over but not over 1,000 gross tons shall be provided with at least one international shore connection which meets ASTM F–1121. Facilities must be available enabling such a connection to be used on either side of the vessel.

(c) Each low-velocity water spray applicator under paragraph (f) of this section must have fixed brackets, hooks, or other means for stowing next to the hydrant.

§ 34.13-1 Application—T/ALL.

Steam smothering fire extinguishing systems are not permitted on vessels contracted for on or after January 1, 1962.
1962. Previously approved installations may be retained as long as they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.

Subpart 34.15—Carbon Dioxide Extinguishing Systems, Details

§ 34.15-1 Application—T/ALL.

(a) Where a carbon dioxide extinguishing system is installed, the provisions of this subpart, with the exception of §34.15-90, shall apply to all installations contracted for on or after January 1, 1962. Installations contracted for prior to January 1, 1962, shall meet the requirements of §34.15-90.

(b) The requirements of this subpart are based on a “high pressure system,” i.e., one in which the carbon dioxide is stored in liquid form at atmospheric temperature. Details for “low pressure systems,” i.e., those in which the carbon dioxide is stored in liquid form at a continuously controlled low temperature, may be specifically approved by the Commandant where it is demonstrated that a comparable degree of safety and fire extinguishing ability is achieved.

§ 34.15-5 Quantity, pipe sizes, and discharge rates—T/ALL.

(a) General. (1) The amount of carbon dioxide required for each space shall be as determined by paragraphs (b) through (d) of this section.

(b) Total available supply. (1) A separate supply of carbon dioxide need not be provided for each space protected. The total available supply shall be at least sufficient for the space requiring the greatest amount.

(c) Dry cargo spaces. (1) The number of pounds of carbon dioxide required for each space shall be equal to the gross volume of the space in cubic feet divided by 30.

(2) Although separate piping shall be led to each cargo hold and ‘tween deck, for the purpose of determining the amount of carbon dioxide required, a cargo compartment will be considered as the space between watertight or firescreen bulkheads and from the tank top or lowest deck to the deck head of the uppermost space on which cargo may be carried. If a trunk extends beyond such deck, the trunk volume shall be included. Tonnage openings shall be considered as sealed for this purpose.

(3) Branch lines to the various cargo holds and ‘tween decks shall not be less than ¾-inch standard pipe size.

(4) No specific discharge rate need be applied to such systems.

(d) Machinery spaces, pumprooms, paint lockers, and similar spaces. (1) Except as provided in paragraph (d)(4) of this section, the number of pounds of carbon dioxide required for each space shall be equal to the gross volume of the space divided by the appropriate factor noted in Table 34.15-5(d)(1). If fuel can drain from the compartment being protected to an adjacent compartment, or if the compartments are not entirely separate, the requirements for both compartments shall be used to determine the amount of carbon dioxide to be provided. The carbon dioxide shall be arranged to discharge into both such compartments simultaneously.

<table>
<thead>
<tr>
<th>Gross volume of compartment, cubic feet</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 500</td>
<td>15</td>
</tr>
<tr>
<td>500 to 1,600</td>
<td>16</td>
</tr>
<tr>
<td>1,600 to 4,500</td>
<td>18</td>
</tr>
<tr>
<td>4,000 to 50,000</td>
<td>20</td>
</tr>
<tr>
<td>50,000 to ............................</td>
<td>22</td>
</tr>
</tbody>
</table>

(2) For the purpose of the above requirement of this paragraph, the volume of a machinery space shall be taken as exclusive of the normal machinery casing unless the boiler, internal combustion propelling machinery, or fuel oil installations subject to the discharge pressure of the fuel oil service pump extend into such space, in which case the volume shall be taken to the top of the casing or the next material reduction in casing area, whichever is lower. The terms “normal machinery casing” and “material reduction in casing area” shall be defined as follows:

(i) By “normal machinery casing” shall be meant a casing the area of which is not more than 40 percent of the maximum area of the machinery space.
(ii) By “material reduction in casing area” shall be meant a reduction to at least 40 percent of the casing area.

(3) For the purpose of the above requirements of this paragraph, the volume of a pumproom shall include the pumproom and all associated trunks up to the deck at which access from the weather is provided.

(4) For tankships on an international voyage contracted for on or after May 26, 1965, the amount of carbon dioxide required for a space containing propulsion boilers or internal combustion propulsion machinery shall be as given by paragraphs (d) (1) and (2) of this section or by dividing the entire volume, including the casing, by a factor of 25, whichever is the larger.

(5) Branch lines in the various spaces shall be noted in Table 34.15-5(d)(5).

<table>
<thead>
<tr>
<th>Minimum pipe size, inches</th>
<th>Maximum quantity of carbon dioxide required, pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>2,500</td>
</tr>
<tr>
<td>3/4</td>
<td>4,400</td>
</tr>
<tr>
<td>1</td>
<td>7,100</td>
</tr>
<tr>
<td>1 1/4</td>
<td>10,450</td>
</tr>
<tr>
<td>1 1/2</td>
<td>15,000</td>
</tr>
</tbody>
</table>

(6) Distribution piping within the space shall be proportioned from the supply line to give proper distribution to the outlets without throttling.

(7) The number, type and location of discharge outlets shall be such as to give a uniform distribution throughout the space.

(8) The total area of all discharge outlets shall not exceed 85 percent nor be less than 35 percent of the nominal cylinder outlet area or the area of the supply pipe, whichever is smaller. The nominal cylinder outlet area in square inches shall be determined by multiplying the factor 0.0022 by the number of pounds of carbon dioxide required, except that in no case shall this outlet area be less than 0.110 square inches.

(9) The discharge of at least 85 percent of the required amount of carbon dioxide shall be complete within 2 minutes.

§ 34.15-10 Controls—T/ALL.

(a) Except as noted in §34.15-20(b), all controls and valves for the operation of the system shall be outside the space protected, and shall not be located in any space that might be cut off or made inaccessible in the event of fire in any of the spaces protected.

(b) If the same cylinders are used to protect more than one space, a manifold with normally closed stop valves shall be used to direct the carbon dioxide into the proper space. If cylinders are used to protect only one space, a normally closed stop valve shall be installed between the cylinders and the space except for systems of the type indicated in §34.15-5(d) which contain not more than 300 pounds of carbon dioxide.

(c) Distribution piping to the dry cargo spaces shall be controlled from not more than two stations. One of the stations controlling the system for the main machinery space shall be located as convenient as practicable to one of the main-escapes from the space. All control stations and the individual valves and controls shall be marked as required by §35.40-10 of the subchapter.

(d) Systems of the type indicated in §34.15-5(d) shall be actuated at each station by one control operating the valve to the space and a separate control releasing at least the required amount of carbon dioxide. These two controls shall be located in a box or other enclosure clearly identified for the particular space. Systems installed without a stop valve shall be operated by one control releasing at least the required amount of carbon dioxide.

(e) Where provisions are made for the simultaneous release of a given amount of carbon dioxide by operation of a remote control, provisions shall also be made for manual control at the cylinders. Where gas pressure from pilot cylinders is used as a means for releasing the remaining cylinders, not less

46 CFR Ch. I (10–1–99 Edition)
Coast Guard, DOT § 34.15-15

than two pilot cylinders shall be used for systems consisting of more than two cylinders. Each of the pilot cylinders shall be capable of manual control at the cylinder, but the remaining cylinders need not be capable of individual manual control.

(f) Systems of the type indicated in § 34.15-5(d), which are of more than 300 pounds of carbon dioxide shall be fitted with an approved delayed discharge so arranged that the alarm will be sounded for at least 20 seconds before the carbon dioxide is released into the space. Such systems of not more than 300 pounds of carbon dioxide shall also have a similar delayed discharge, except for spaces which have a suitable horizontal escape.

(g) All distribution valves and controls shall be of an approved type. All controls shall be suitably protected.

(h) Complete but simple instructions for the operation of the systems must be located in a conspicuous place at or near all pull boxes, stop valve controls and in the CO₂ cylinder storage room. On systems in which the CO₂ cylinders are not within the protected space, these instructions must also include a schematic diagram of the system and instructions detailing alternate methods of discharging the system should the manual release or stop valve controls fail to operate. Each control valve to branch lines must be marked to indicate the related space served.

(i) If the space or enclosure containing the carbon dioxide supply or controls is to be locked, a key to the space or enclosure shall be in a break-glass-type box conspicuously located adjacent to the opening.


§ 34.15-15 Piping—T/ALL.

(a) The piping, valves, and fittings shall have a bursting pressure of not less than 6,000 pounds p.s.i.

(b) All piping, in nominal sizes not over 3/4-inch shall be at least Schedule 40 (standard weight) and in nominal sizes over 3/4-inch, shall be at least Schedule 80 (extra heavy).

(c) All piping, valves, and fittings of ferrous materials shall be protected inside and outside against corrosion unless specifically approved otherwise by the Commandant.

(d) A pressure relief valve or equivalent set to relieve between 2,400 and 2,800 pounds p.s.i. shall be installed in the distributing manifold or such other location as to protect the piping in the event that all branch line shut-off valves are closed.

(e) All deadend lines shall extend at least 2 inches beyond the last orifice and shall be closed with cap or plug.

(f) All piping, valves, and fittings shall be securely supported, and where necessary, protected against injury.

(g) Drains and dirt traps shall be fitted where necessary to prevent the accumulation of dirt or moisture. Drains and dirt traps shall be located in accessible locations where possible.

(h) Piping shall be used for no other purpose except that it may be incorporated with the fire-detecting system.

(i) Piping passing through living quarters shall not be fitted with drains or other openings within such spaces.

(j) Installation test requirements are:

(1) Upon completion of the piping installation, and before the cylinders are connected, a pressure test shall be applied as set forth in this paragraph. Only carbon dioxide or other inert gas shall be used for this test.

(2) The piping from the cylinders to the stop valves in the manifold shall be subjected to a pressure of 1,000 pounds p.s.i. With no additional gas being introduced to the system, it shall be demonstrated that the leakage of the system is such as not to permit a pressure drop of more than 150 pounds per square inch per minute for 2-minute period.

(3) The individual branch lines to the various spaces protected shall be subjected to a test similar to that described in the preceding paragraph with the exception that the pressure used shall be 600 pounds p.s.i. in lieu of 1,000 pounds p.s.i. For the purpose of this test, the distribution piping shall be capped within the space protected at the first joint ahead of the nozzles.

(4) In lieu of the tests prescribed in the preceding paragraphs in this section, small independent systems protecting spaces such as emergency generator rooms, lamp lockers, etc., may be tested by blowing out the piping.
§ 34.15–20 Carbon dioxide storage—T/ALL.

(a) Except as provided in paragraph (b) of this section, the cylinders shall be located outside the spaces protected, and shall not be located in any space that might be cut off or made inaccessible in the event of a fire in any of the spaces protected.

(b) Systems of the type indicated in §34.15–5(d), consisting of not more than 300 pounds of carbon dioxide, may have the cylinders located within the space protected. If the cylinder stowage is within the space protected, the system shall be arranged in an approved manner to be automatically operated by a heat actuator within the space in addition to the regular remote and local controls.

(c) The space containing the cylinders shall be properly ventilated and designed to preclude an anticipated ambient temperature in excess of 130 degrees F.

(d) Cylinders shall be securely fastened and supported, and where necessary, protected against injury.

(e) Cylinders shall be so mounted as to be readily accessible and capable of easy removal for recharging and inspection. Provisions shall be available for weighing the cylinders.

(f) Where subject to moisture, cylinders shall be so installed as to provide a space of at least 2 inches between the flooring and the bottom of the cylinders.

(g) Cylinders shall be mounted in an upright position or inclined not more than 30 degrees from the vertical. However, cylinders which are fitted with flexible or bent siphon tubes may be inclined not more than 80 degrees from the vertical.

(h) Where check valves are not fitted on each independent cylinder discharge, plugs or caps shall be provided for closing outlets when cylinders are removed for inspection or refilling.

(i) All cylinders used for storing carbon dioxide must be fabricated, tested, and marked in accordance with §§147.60 and 147.65 of this chapter.

§ 34.15–25 Discharge outlets—T/ALL.

(a) Discharge outlets shall be of an approved type.

§ 34.15–30 Alarms—T/ALL.

(a) Spaces required to have a delayed discharge by §34.15–10(f) which are protected by a carbon dioxide extinguishing system and are normally accessible to persons on board while the vessel is being navigated, other than paint and lamp lockers and similar small spaces, shall be fitted with an approved audible alarm in such spaces which will be automatically sounded before the carbon dioxide is admitted to the space. The alarm shall be conspicuously and centrally located and shall be marked as required by §35.40–7 of this subchapter. Such alarms shall be so arranged as to sound during the 20-second delay period prior to the discharge of carbon dioxide into the space, and the alarm shall depend on no source of power other than the carbon dioxide.

§ 34.15–35 Enclosure openings—T/ALL.

(a) Except for cargo spaces, the operation of the carbon dioxide system shall automatically shut down any mechanical ventilation to that space. This will not be required where the carbon dioxide system is a secondary system in addition to another approved primary system protecting the space.

(b) Where natural ventilation is provided for spaces protected by a carbon dioxide extinguishing system, provisions shall be made for easily and effectively closing off the ventilation.

(c) Means shall be provided for closing all other openings to the space protected from outside such space. In this respect, relatively tight doors, shutters, or dampers shall be provided for openings in the lower portion of the space. The construction shall be such that openings in the upper portion of the space can be closed off either by permanently installed means or by the
use of canvas or other material which is normally carried by the vessel.

§ 34.15–40 Pressure relief—T/ALL.

(a) Where necessary, relatively tight compartments such as refrigeration spaces, paint lockers, etc., shall be provided with suitable means for relieving excessive pressure accumulating within the compartment when the carbon dioxide is injected.

§ 34.15–90 Installations contracted for prior to January 1, 1962—T/ALL.

(a) Installations contracted for prior to November 19, 1952, shall meet the requirements of this paragraph.

(1) Existing arrangements, materials, and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) The details of the systems shall be in general agreement with §§ 34.15–5 through 34.15–40 insofar as is reasonable and practical, with the exception of § 34.15–5(d)(1) through (3) covering spaces other than cargo spaces, which systems may be installed in accordance with paragraphs (a) (4) through (7) of this section.

(3) For cargo tanks at least one pound of carbon dioxide shall be available for each 30 cubic feet of the largest cargo tank. The discharge of the required amount of carbon dioxide shall be complete within 5 minutes.

(4) In boiler rooms, the bilges shall be protected by a system discharging principally below the floor plates. Perforated pipe may be used in lieu of discharge nozzles for such systems. The number of pounds of carbon dioxide shall be equal to the gross volume of the boiler room divided by 36. In the event of an elevated boiler room which drains to the machinery space, the system shall be installed in the engine room bilge and the gross volume shall be taken to the flat on which the boilers are installed.

(b) Installations contracted for on or after November 19, 1952, but prior to January 1, 1962, shall meet the requirements of this paragraph.

(1) Existing arrangements, materials, and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) The details of the systems shall be in general agreement with §§ 34.15–5 through 34.15–40 insofar as is reasonable and practicable with the exception that delayed discharges need not be provided for installations made prior to July 1, 1957.

Table 34.15–90(a)(7)

<table>
<thead>
<tr>
<th>Number of cylinders</th>
<th>Nominal pipe size, inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over</td>
<td>Not over</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>80</td>
<td>104</td>
</tr>
<tr>
<td>104</td>
<td>165</td>
</tr>
</tbody>
</table>

§ 34.17–1 Application—T/ALL.
(a) Where a fixed foam extinguishing system is installed, the provisions of this subpart with the exception of §34.17–90, shall apply to all installations contracted for on or after January 1, 1962.
(b) Installations contracted for prior to January 1, 1962, shall meet the requirements of §34.17–90.

§ 34.17–5 Quantity of foam required—T/ALL.
(a) Area protected. (1) For machinery spaces and pumprooms, the system shall be so designed and arranged as to spread a blanket of foam over the entire top or bilge of the space protected. The arrangement of piping shall be such as to give a relatively uniform distribution over the entire area protected.
(2) Where an installation is made to protect an oil-fired boiler installation on a flat which is open to or can drain to the lower engine room or other space, both the flat and the lower space shall be protected simultaneously. The flat shall be fitted with suitable coamings on all openings other than deck drains to properly restrain the oil and foam at that level. Other installations of a similar nature will be considered in a like manner.
(b) Rate of application. (1) The rate of discharge to foam outlets protecting the hazard shall be at least as set forth in this paragraph.
(2) For chemical foam systems with stored “A” and “B” solutions, a total of at least 1.6 gallons per minute of the two solutions shall be discharged for each 10 square feet of area protected.
(3) For other types of foam systems, the water rate to the dry-powder generators or air foam production equipment shall be at least 1.6 gallons per minute for each 10 square feet of area protected.
(c) Supply of foam-producing material. (1) There shall be provided a quantity of foam-producing material sufficient to operate the equipment at the minimum discharge rate specified in paragraph (b) of this section for a period of at least 3 minutes.
(d) Separate supply of foam-producing material. (1) A separate supply of foam-producing material need not be provided for each space protected. This includes a deck foam system. The total available supply shall be at least sufficient for the space requiring the greatest amount.
(e) Water supply for required pumps. (1) The water supply shall be from outside and completely independent of the space protected.

§ 34.17–10 Controls—T/ALL.
(a) The foam agent, its container, measuring devices, and other items peculiar to the system shall be of an approved type.
(b) The foam-producing material container and all controls and valves for the operation of the system shall be outside the space protected and shall not be located in such space as might be cut off or made inaccessible in the event of fire in any of the spaces protected. The control space shall be as convenient as practicable to one of the main escapes from the spaces protected, and shall be marked as required by §35.40–10 of this subchapter. Where pumps are required, it shall not be necessary that they be started from the control space.
(c) Complete, but simple instructions for the operation of the system shall be located in a conspicuous place at or near the controls.
(d) The valves to the various spaces served shall be marked as required by §35.40–10 of this subchapter.

§ 34.17–15 Piping—T/ALL.
(a) All piping, valves, and fittings shall meet the applicable requirements of subchapter F (Marine Engineering) of this chapter.
(b) All piping, valves, and fittings of ferrous materials shall be protected inside and outside against corrosion unless specifically approved otherwise by the Commandant.
(c) All piping, valves, and fittings shall be securely supported, and where necessary, protected against injury.
(d) Drains and dirt traps shall be fitted where necessary to prevent the accumulation of dirt or moisture.
Coast Guard, DOT

§ 34.20-1

Application—T/ALL.

(a) Where a deck foam system is installed, the provisions of this subpart, except §34.20-90, apply to all installations that are contracted for on or after January 1, 1970, unless otherwise indicated.

(b) Installations contracted for prior to January 1, 1970, shall meet the requirements of §34.20-90.

(c) Foreign flag crude oil tankers and product carriers required to have fixed deck foam systems by this subpart must have systems that are designed and installed in accordance with Regulation 61 of Chapter II–2 of SOLAS 1974. (Senate Document, 57-1180, GPO, Washington, 1976; "Message from the President of the United States transmitting the International Convention for the
§ 34.20-3 Cargo area definition—T/ALL.

(a) For the purpose of this subpart, the term cargo area is defined as the maximum beam of the vessel times the total longitudinal extent of the cargo tank spaces.

§ 34.20-5 Quantity of foam required—T/ALL.

(a) Area protected. Systems of this type are designed to give primary protection to the spaces over the cargo tanks.

(b) Rate of application. The water rate of the foam production equipment shall be determined as follows:

(1) For usual petroleum products the rate of supply of foam solution shall be not less than the greatest of the following:
   (i) 0.6 liters/min per square meter of cargo tanks deck area, where cargo tanks deck area means the maximum breadth of the ship multiplied by the total longitudinal extent of the cargo tank spaces;
   (ii) 6 liters/min per square meter of the horizontal sectional area of the single tank having the largest such area; or
   (iii) 3 liters/min per square meter of the area protected by the largest monitor, such area being entirely forward of the monitor, but not less than 1,250 liters/min.

(2) For polar solvent products (e.g., alcohols, ketones, etc.) the water rate shall be determined for each vessel. The rate will depend upon the vessel design, products to be carried and foam system to be used.

(c) Supply of foam-producing material. Each deck foam system must have a supply of foam-producing material sufficient to operate the system at its designed rate of foam production for the following periods:

(1) For installations contracted for on or after January 1, 1970, 15 minutes without recharging, except as required in paragraph (c)(2) of this section.

(2) For installations on ships that have a keel laying date on or after January 1, 1975, 20 minutes without recharging.

(d) Separate supply of foam-producing material. Where the same foam-producing material may be used for this system as well as a fixed foam system, separate supplies need not be provided for each space protected. The total available supply shall be at least sufficient for the space requiring the greatest amount.

(e) Water supply. Suitable pumps shall be provided capable of producing the required water rate. The fire pumps required by subpart 34.10 may be used for this purpose; however, the operation of the deck foam system shall not interfere with the simultaneous use of the fire main system.

§ 34.20-10 Controls—T/ALL.

(a) The foam agent, its container, measuring devices, and other items peculiar to this system shall be of an approved type.

(b) The foam agent container and the main controls for operating the system shall be located in a protected space not likely to be made inaccessible in the event of a fire in any portion of the cargo area.

(c) Complete, but simple instructions for the operation of the system shall be located in a conspicuous place at or near the controls.

(d) All valves shall be marked as required by §35.40-17.

(e) The deck foam system on each tankship that has a keel laying date on or after January 1, 1975, must be capable of being actuated, including introduction of foam to the foam main, within three minutes of notification of a fire.

§ 34.20-15 Piping—T/ALL.

(a) All piping, valves, and fittings shall meet the applicable requirements of subchapter F (Marine Engineering) of this chapter.
(b) All piping, valves, and fittings of ferrous materials shall be protected inside and outside against corrosion unless specifically approved otherwise by the Commandant.

(c) The piping and outlet arrangement shall allow the required rate of applications as contained in §34.20-5(b), to any portion of the open deck of the cargo area through the use of the mounted and hand-held appliances that are provided. At least 50 percent of the required rate of application shall be from the mounted appliances. One or more hose outlets for hand-held appliances shall be provided at each foam station. For enclosed spaces, application of at least 1.6 gallons per minute water rate for each 10 square feet of the enclosed area for 5 minutes is acceptable. For the purpose of this paragraph, all piping is assumed to be damaged in way of the fire and an adequate number of valves shall be fitted to prevent loss of foam by closing valves to damaged piping.

(d) All piping, valves, and fittings shall be securely supported, and where necessary, protected against injury.

(e) Drains and dirt traps shall be fitted where necessary to prevent the accumulation of dirt or moisture.

(f) Piping shall not be used for any other purpose than firefighting, drills, and testing.

(g) Tankships of 100,000 or more DWT (metric) and combination carriers of 50,000 or more DWT (metric) that have a keel laying date on or after January 1, 1975, must have at least one foam station port and at least one foam station starboard that are separated from each other by a distance equal to at least one-half the beam of the vessel:

(1) At the housefront or aft of the cargo area in a location that is accessible to the crew for fighting a cargo and a pumproom fire; and

(2) If the tankship has a forward accommodations house, at the after boundary of that house.

§34.20–20 Discharge outlets—T/ALL.

(a) Discharge outlets shall be of an approved type.

(b) At least one mounted foam appliance shall be provided for each station that is required in §34.20–15(c).

(c) The number of hand-held appliances provided shall be at least equal to the number of hose outlets at the two foam stations having the most hose outlets. Hand-held appliances shall be stowed in a well marked, readily accessible position that cannot be isolated by a fire involving the cargo tanks.


§34.20–25 Foam monitor capacity—T/ALL.

The capacity of each foam monitor on ships that have a keel laying date on or after January 1, 1975, must be at least 3 liters per minute per square meter (.073 gallons per minute per square foot) of cargo area protected by that monitor.


§34.20–90 Installations contracted for prior to January 1, 1970—T/ALL.

(a) Installations contracted for prior to January 1, 1970, shall meet the following requirements:

(1) Existing arrangements, materials, and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) For installations contracted for prior to November 19, 1952, see §34.17–90(a)(5).

(3) Installations contracted for on or after November 4, 1957, but prior to January 1, 1970, shall meet the requirements of §§34.20–5 through 34.20–20 insofar as is reasonable and practicable.

§ 34.25-1 Application—T/ALL.
(a) Where a water spray extinguishing system is installed, the provisions of this subpart, with the exception of § 34.25-90, shall apply to all installations contracted for on or after January 1, 1964. Installations contracted for prior to January 1, 1964, shall meet the requirements of § 34.50-90.

§ 34.25-5 Capacity and arrangement—T/ALL.
(a) The capacity and arrangement shall be such as to effectively blanket the entire area of the space protected. The rate of discharge and the arrangement of piping and spray nozzles shall be such as to give a uniform distribution over the entire area protected.
(b) The spacing of the spray nozzles shall be on the basis of the spray pattern provided by the lowest pressure at any spray nozzle in the system. In no instance shall a system be designed for any spray nozzle to be operated at a pressure less than that for which it was approved. The maximum permissible height of the spray nozzle above the protected area shall not exceed that specified in its approval. Whenever there are obstructions to coverage by the spray patterns, additional spray nozzles shall be installed to provide full coverage.
(c) The water supply shall be from outside the space protected and shall in no way be dependent upon power from the space protected. The pump supplying water for the system shall either be reserved exclusively for the system or it may be one of the fire pumps, provided the capacity of the fire pump as set forth in subpart 34.10 is increased by the required capacity of the system, so that this system may be operated simultaneously with the fire main system.

§ 34.25-10 Controls—T/ALL.
(a) There shall be one control valve for the operation of the system located in an accessible position outside the space protected. The control shall be located as convenient as practicable to one of the main escapes from the space protected, and shall be marked as required by § 35.40-18 of this subchapter. It shall not be necessary to start the pumps from the control space.
(b) Complete, but simple instructions for the operation of the system shall be located in a conspicuous place at or near the controls.
(c) The valve to the space protected shall be marked as required by § 35.40-18 of this subchapter.

§ 34.25-15 Piping—T/ALL.
(a) All piping, valves and fittings shall meet the applicable requirements of subchapter F (Marine Engineering) of this chapter.
(b) Distribution piping shall be of materials resistant to corrosion, except that steel or iron pipe may be used if inside corrosion resistant coatings which will not flake off and clog the nozzles are applied. Materials readily rendered ineffective by heat of a fire shall not be used. The piping shall be subject to approval for each installation.
(c) All piping, valves, and fittings shall be securely supported, and where necessary, protected against injury.
(d) Drains, strainers, and dirt traps shall be fitted where necessary to prevent the accumulation of dirt or moisture.
(e) Threaded joints shall be metal to metal, with no thread compound used.
(f) Distribution piping shall be used for no other purpose.
(g) All piping shall be thoroughly cleaned and flushed before installation of the water spray nozzles.

§ 34.25-20 Spray nozzles—T/ALL.
(a) Spray nozzles shall be of an approved type.

§ 34.25-90 Installations contracted for prior to January 1, 1964—T/ALL.
(a) Installations contracted for prior to January 1, 1964, shall meet the following requirements:
(1) Existing arrangements, materials, and facilities previously approved shall be considered satisfactory so long as they meet the minimum requirements of this paragraph and they are maintained in good condition to the satisfaction of the Officer in Charge, Marine
Coast Guard, DOT

Inspection. Minor repairs and alterations may be made to the same standards as the original installation.

(2) The details of the systems shall be in general agreement with §§34.25-5 through 34.25-20 insofar as is reasonable and practicable.

Subpart 34.30—Automatic Sprinkler Systems, Details

§ 34.30–1 Application—TB/ALL.

Automatic sprinkler systems shall comply with NFPA 13-1996.


Subpart 34.50—Portable and Semiportable Extinguishers

§ 34.50–1 Application—TB/ALL.

(a) The provisions of this subpart, with the exception of §34.50–90, shall apply to all vessels contracted for on or after January 1, 1962.

(b) All vessels contracted for prior to January 1, 1962, shall meet the requirements of §34.50–90.

§ 34.50–5 Classification—TB/ALL.

(a) Portable and semiportable extinguishers shall be classified by a combination letter and number symbol. The letter indicating the type of fire which the unit could be expected to extinguish, and the number indicating the relative size of the unit.

(b) The types of fire will be designated as follows:

1. “A” for fires in ordinary combustible materials such as mattresses, piles of wood, shavings, canvas, etc., where the quenching and cooling effects of quantities of water, or solutions containing large percentages of water, are of first importance.

2. “B” for fires in combustible or flammable liquids such as gasoline, lubricating oil, diesel oil, greases, etc., where a blanketing or smothering effect is essential.

3. “C” for fires in electrical equipment where the use of non-conducting extinguishing agent is of first importance so that electrical shock is not experienced by the firefighter.

(c) The number designations for size will start with “I” for the smallest to “V” for the largest. Extinguishers which have a gross weight of 55 pounds or less when fully charged are considered portable. Extinguishers which have a gross weight of more than 55 pounds when fully charged are considered semiportable and shall be fitted with suitable hose and nozzle or other practicable means so that all portions of the space concerned may be reached. Examples of size gradations for some of the typical portable and semiportable extinguishers are set forth in Table 34.50–5(c).

<table>
<thead>
<tr>
<th>Classification type</th>
<th>Soda-acid and water (Gallons)</th>
<th>Foam (Gallons)</th>
<th>Carbon dioxide (Pounds)</th>
<th>Dry chemical (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-II ..................</td>
<td>2½</td>
<td>2½</td>
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<td></td>
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<tr>
<td>B-I ...................</td>
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<tr>
<td>CC-II ..................</td>
<td>15</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 For outside use, double the amount shall be carried.

§ 34.50–10 Location—TB/ALL.

(a) Approved portable and semiportable extinguishers shall be installed in accordance with Table 34.50–10(a). The location of the equipment shall be such as in the opinion of the Officer in Charge, Marine Inspection, will be most convenient in case of emergency. Where special circumstances exist, not covered by Table 34.50–10(a), the Officer in Charge, Marine Inspection, may require such additional equipment as he deems necessary for the proper protection of the vessel.

(b) For additional portable extinguishers as a substitute for sand, see §34.55–10.

(c) Semiportable extinguishers shall be located in the open so as to be readily seen.

(d) If portable extinguishers are not located in the open or behind glass so that they may be readily seen they may be placed in enclosures together with the fire hose, provided such enclosures are marked as required by §35.40–25 of this subchapter.
(e) Portable extinguishers and their stations shall be numbered in accordance with §34.40-25 of this subchapter.

(f) Hand portable or semiportable extinguishers which are required on their nameplates to be protected from freezing shall not be located where freezing temperatures may be expected.

### TABLE 34.50–10(a)—PORTABLE AND SEMIPORTABLE EXTINGUISHERS

<table>
<thead>
<tr>
<th>Tank ships</th>
<th>Quantity and Location</th>
<th>Area</th>
<th>Classification (see §34.50–5)</th>
<th>Tank barges</th>
<th>Quantity and Location</th>
<th>Area</th>
<th>Classification (see §34.50–5)</th>
</tr>
</thead>
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<tr>
<td><strong>Safety Areas</strong></td>
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<tr>
<td>1 required .................................. C-II .................</td>
<td>Wheelhouse and chartroom area.</td>
<td>...</td>
<td>None required.</td>
<td>None required.</td>
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<tr>
<td>1 required in vicinity of exit C-II</td>
<td>Radio room</td>
<td></td>
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<td><strong>Accommodation Areas</strong></td>
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<tr>
<td>1 required in each main passageway on each deck, conveniently located, and so that no room is more than 75 feet from an extinguisher.</td>
<td>A-II or B-II ......</td>
<td>Staterooms, toilet spaces, public spaces, offices, etc., and associated lockers, storerooms, and pantries.</td>
<td>A-II or B-II ......</td>
<td>1 required in vicinity of exit</td>
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<td><strong>Service Areas</strong></td>
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<tr>
<td>1 required for each 2,500 square feet or fraction thereof, suitable for hazard involved.</td>
<td>B-II or C-II ......</td>
<td>Galley's</td>
<td>B-II or C-II ......</td>
<td>1 required, suitable for hazard involved.</td>
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<td>1 required for each 2,500 square feet or fraction thereof, suitable for hazard involved.</td>
<td>A-II or B-II ......</td>
<td>Stores areas, including paint and lamp rooms.</td>
<td></td>
<td>None required.</td>
<td>None required.</td>
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<td><strong>Machinery Area</strong></td>
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<td>2 required 3 ................................ B-II .................</td>
<td>Spaces containing oil fired boilers,</td>
<td>B-II .................</td>
<td>1 required.</td>
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<tr>
<td>and</td>
<td>either main or auxiliary, or any fuel oil units subject to the discharge pressure of the fuel oil service pump.</td>
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<tr>
<td>1 required ................................ B-V4</td>
<td>B-II .................</td>
<td>Spaces containing internal combustion or gas turbine propulsion machinery.</td>
<td></td>
<td>None required.</td>
<td></td>
<td></td>
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<tr>
<td>1 required for each 1,000 B.H.P., but not less than 2 nor more than 65.</td>
<td>B-II .................</td>
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<tr>
<td>1 required 67 ................................ B-III.</td>
<td>B-II .................</td>
<td>Auxiliary spaces containing internal combustion or gas turbine units.</td>
<td>B-II .................</td>
<td>1 required in vicinity of exit</td>
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<tr>
<td>1 required in vicinity of exit8</td>
<td>C-II .................</td>
<td>Auxiliary spaces containing emergency generators.</td>
<td></td>
<td>None required.</td>
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<td><strong>Cargo Areas</strong></td>
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<td>1 required in lower pump-room.</td>
<td>B-II .................</td>
<td>Pumprooms</td>
<td>B-II .................</td>
<td>1 required in vicinity of exit</td>
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<td>None required ................................ Cargo tank area</td>
<td>B-II .................</td>
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<td>2 required.</td>
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</table>

1 Vessels not on an international voyage may substitute 2 C-I.
2 A C-II shall be immediately available to the service generator and main switchboard areas, and further, a C-II shall be conveniently located not more than 50 feet walking distance from any point in all main machinery operating spaces. These extinguishers need not be in addition to other required extinguishers.
3 Vessels of less than 1,000 gross tons require 1.
4 Vessels of less than 1,500 gross tons may substitute 1 B-IV.
5 Only 1 required for vessels under 65 feet in length.
6 If oil burning donkey boiler fitted in space, the B-V previously required for the protection of the boiler may be substituted. Not required where a fixed carbon dioxide system is installed.
7 Not required on vessels of less than 300 gross tons if fuel has a flashpoint higher than 110° F.
8 Not required on vessels of less than 300 gross tons.
9 Not required if fixed system installed.
§ 34.50–15 Spare charges—TB/ALL.

(a) Spare charges shall be carried on all vessels for at least 50 percent of each size and each variety, i.e., foam, soda-acid, carbon dioxide, etc., of portable extinguisher required by §34.50–10(a). However, if the unit is of such variety that it cannot be readily recharged by the vessel’s personnel, one spare unit of the same classification shall be carried in lieu of spare charges for all such units of the same size and variety. This section does not apply to unmanned barges.

(b) Spare charges shall be so packaged as to minimize the hazards to personnel while recharging the units.

§ 34.50–20 Semiportable fire extinguishers—TB/ALL.

(a) The frame or support of each size III, IV, and V fire extinguisher required by Table 34.50–10(a) must be welded or otherwise permanently attached to a bulkhead or deck.

(b) If a size III, IV, or V fire extinguisher has wheels and is not required by Table 34.50–10(a), it must be securely stowed when not in use to prevent it from rolling out of control under heavy sea conditions.

[CGD 77–039, 44 FR 34132, June 14, 1979]

§ 34.50–90 Vessels contracted for prior to January 1, 1962—TB/ALL.

(a) Vessels contracted for prior to January 1, 1962, shall meet the following requirements:

(1) The provisions of §§34.50–5 through 34.50–15 shall be met with the exception that existing installations may be maintained if in the opinion of the Officer in Charge, Marine Inspection, they are in general agreement with the degree of safety prescribed by Table 34.50–10(a). In such cases, minor modifications may be made to the same standard as the original installation: Provided, That in no case will a greater departure from the standards of Table 34.50–10(a) be permitted than presently exists.

(2) [Reserved]

(b) [Reserved]

Subpart 34.60—Fire Axes

§ 34.60–1 Application—T/ALL.

(a) The provisions of this subpart shall apply to all tankships.

(b) [Reserved]

§ 34.60–5 Number required—T/ALL.

(a) All tankships shall carry at least the minimum number of fire axes as set forth in Table 34.60–5(a). Nothing in this paragraph shall be construed as limiting the Officer in Charge, Marine Inspection, from requiring such additional fire axes as he deems necessary for the proper protection of the tankship.

Table 34.60–5(a)

<table>
<thead>
<tr>
<th>Gross tons</th>
<th>Number of axes</th>
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<tbody>
<tr>
<td>Over</td>
<td>Not over</td>
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<tr>
<td>50</td>
<td>50</td>
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<tr>
<td>200</td>
<td>200</td>
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<tr>
<td>500</td>
<td>500</td>
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<tr>
<td>1,000</td>
<td>1,000</td>
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</table>

(b) [Reserved]

§ 34.60–10 Location—T/ALL.

(a) Fire axes shall be distributed throughout the spaces so as to be most readily available in the event of emergency.

(b) If fire axes are not located in the open, or behind glass, so that they may readily be seen, they may be placed in enclosures together with the fire hose, provided such enclosures are marked as required by §35.40–15 of this subchapter.

PART 35—OPERATIONS

Subpart 35.01—Special Operating Requirements

Sec. 35.01–1 Inspection and testing required when making alterations, repairs, or other
448

Pt. 35

such operations involving riveting, welding, burning, or like fire-producing actions—TB/ALL.

35.01-3 Incorporation by reference.

35.01-5 Sanitary condition and crew quarters—T/ALL.

35.01-10 Shipping papers—TB/ALL.

35.01-15 Carriage of persons other than crew—TB/ALL.

35.01-25 Sacrificial anode installations—TB/ALL.

35.01-35 Repairs and alterations to firefighting equipment—TB/ALL.

35.01-45 Open hopper type barges—B/ALL.

35.01-50 Special operating requirements for tank barges carrying certain dangerous bulk cargoes—B/ALL.

35.01-55 Pilot boarding operation.

35.01-60 Person excluded.

Subpart 35.03—Work Vests

35.03-1 Application—TB/ALL.

35.03-5 Approved types of work vests—TB/ALL.

35.03-10 Use—TB/ALL.

35.03-15 Shipboard stowage—TB/ALL.

35.03-20 Shipboard inspections—TB/ALL.

35.03-25 Additional requirements for hybrid work vests.

Subpart 35.05—Officers and Crews

35.05-1 Licensed officers and crews of tankships—T/ALL.

35.05-5 [Reserved]

35.05-10 [Reserved]

35.05-15 Tank vessel security—TB/ALL.

35.05-20 Physical condition of crew—TB/ALL.

35.05-25 Illness, alcohol, drugs—TB/ALL.

Subpart 35.07—Logbook Entries

35.07-1 Application—TB/ALL.

35.07-5 Logbooks and records—TB/ALL.

35.07-10 Actions required to be logged—TB/ALL.

Subpart 35.08—Stability Information

35.08-1 Posting of stability letter.

Subpart 35.10—Fire and Emergency Requirements

35.10-1 Emergency training, musters, and drills—T/ALL.

35.10-3 Display of plans—TB/ALL.

35.10-5 Muster lists, emergency signals, and manning—T/ALL.

35.10-15 Emergency lighting and power systems—T/ALL.

35.15-1 Notice and reporting of casualty and voyage records—TB/ALL.

Subpart 35.20—Navigation

35.20-1 Notice to mariners; aids to navigation—T/OCLB.

35.20-5 Draft of tankships—T/OC.

35.20-7 Verification of vessel compliance with applicable stability requirements—TB/ALL.

35.20-10 Steering gear test—T/ALL.

35.20-20 Master’s and officer’s responsibility—TB/ALL.

35.20-30 Flashing the rays of a searchlight or other blinding light—T/ALL.

35.20-35 Whistling—T/ALL.

35.20-40 Maneuvering characteristics—T/OC.

35.20-45 Use of Auto Pilot—T/ALL.

Subpart 35.25—Engine Department

35.25-1 Examination of boilers and machinery by engineer—T/ALL.

35.25-5 Repairs of boilers and unfired pressure vessels and reports of repairs or accidents by chief engineer—TB/ALL.

35.25-10 Requirements for fuel oil—T/ALL.

35.25-15 Carrying of excess steam—TB/ALL.

Subpart 35.30—General Safety Rules

35.30-1 Warning signals and signs—TB/ALL.

35.30-5 Fires, matches, and smoking—TB/ALL.

35.30-10 Cargo tank hatches, ullage holes, and Butterworth plates—TB/ALL.

35.30-15 Combustible gas indicator—TB/ALL.

35.30-20 Emergency equipment—TB/ALL.

35.30-25 Explosives—TB/ALL.

35.30-30 Portable electrical equipment—TB/ALL.

35.30-35 Spark producing devices—TB/ALL.

35.30-40 Flammable liquid and gas fuels as ship’s stores—TB/ALL.

Subpart 35.35—Cargo Handling

35.35-1 Persons on duty—TB/ALL.

35.35-5 Electric bonding—TB/ALL.

35.35-10 Closing of freeing-ports, scuppers, and sea valves—TB/ALL.

35.35-15 Connecting for cargo transfer—TB/ALL.

35.35-20 Inspection before transfer of cargo—TB/ALL.

35.35-25 Approval to start transfer of cargo—TB/ALL.

35.35-30 “Declaration of Inspection” for tank vessels—TB/ALL.

35.35-35 Duties of person in charge of transfer—TB/ALL.
Coast Guard, DOT

§ 35.01-1

(a) The provisions of “Standard for the Control of Gas Hazards on Vessels to be Repaired,” NFPA No. 306, published by National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269, shall be used as a guide in conducting the inspections and issuance of certificates required by this section.

(b) Until an inspection has been made to determine that such operation can be undertaken with safety, no alterations, repairs, or other such operations involving riveting, welding, burning, or like fire-producing actions shall be made:

(1) Within or on the boundaries of cargo tanks which have been used to carry flammable or combustible liquid or chemicals in bulk, or within spaces adjacent to such cargo tanks; or,

(2) Within or on the boundaries of fuel tanks; or,

(3) To pipe lines, heating coils, pumps, fittings, or other appurtenances connected to such cargo or fuel tanks.

(c) Such inspections shall be made and evidenced as follows:

(1) In ports or places in the United States or its territories and possessions, the inspection shall be made by a marine chemist certified by the National Fire Protection Association; however, if the services of such certified marine chemist are not reasonably available, the Officer in Charge, Marine Inspection, upon the recommendation of the vessel owner and his contractor or their representative, shall select a person who, in the case of an individual vessel, shall be authorized to make such inspection. If the inspection indicates that such operations can be undertaken with safety, a certificate setting forth the fact in writing and qualified as may be required, shall be issued by the certified marine chemist or the authorized person before the work is started. Such qualifications shall include any requirements as may be deemed necessary to maintain, insofar as can reasonably be done, the safe conditions in the spaces certified, throughout the operation and shall include such additional tests and certifications as considered required. Such qualifications and requirements shall include precautions necessary to eliminate or minimize hazards that may be present from protective coatings or residues from cargoes.

(2) When not in such a port or place, and a marine chemist or such person authorized by the Officer in Charge, Marine Inspection, is not reasonably available, the inspection shall be made
§ 35.01-3 Incorporation by reference.

(a) Certain materials are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of the change must be published in the Federal Register and the material made available to the public. All approved material is on file at the Office of the Federal Register, Washington, DC 20408 and at the U.S. Coast Guard, Office of Operating and Environmental Standards, 2100 Second Street SW., Washington, DC 20593-0001, and is available from the address indicated in paragraph (b).

(b) The material approved for incorporation by reference in this part, and the sections affected is:

American Society for Testing and Materials
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
Section affected—35.30-20(c)(3)
ASTM Adjunct F 1626, Symbols for Use in Accordance with Regulation II-2/20 of the 1974 SOLAS Convention, PCN 12-616260-01, © 1996-35.10-3
International Maritime Organization (IMO)
Publications Section, 4 Albert Embankment, London, SE1 7SR United Kingdom. Resolution A.654(16), Graphical Symbols for Fire Control Plans—35.10-3

NOTE: All other documents referenced in this part are still in effect.

46 CFR Ch. I (10–1–99 Edition)

§ 35.01-5 Sanitary condition and crew quarters—T/ALL.

It shall be the duty of the master and chief engineer of every tankship to see that such vessel and crew's quarters are kept in a sanitary condition.

§ 35.01-10 Shipping papers—TB/ALL.

Each loaded tank vessel shall have on board a bill of lading, manifest, or shipping document giving the name of the consignee and the location of the delivery point, the kind, grades, and approximate quantity of each kind and grade of cargo, and for whose account the cargo is being handled. The tank vessel shall not be delayed in order to secure exact quantities of cargo. Such manifests or bills of lading may be made out by the master, master of the towing vessel, owner, or agent of the owner: Provided, however, That in the case of unmanned barges where shipping papers are not available, an entry in the logbook of the towing vessel giving the name of the shipper and location of shipping point, the name of the consignee and location of delivery point, the approximate kind, grade, and quantity of cargo in each barge of the tow, and for whose account the cargo is being handled, shall be considered as complying with the requirements of this section.

§ 35.01-15 Carriage of persons other than crew—TB/ALL.

No person not connected with the operation of a tank ship or tank barge or not having legitimate business with said vessel, shall be permitted aboard while vessel is under way unless specifically allowed by its certificate.

§ 35.01-25 Sacrificial anode installations—TB/ALL.

(a) The installation of magnesium sacrificial anodes in cargo tanks utilized for the carriage of flammable or
§ 35.01-45 Open hopper type barges—B/ALL.

(a) With the exception of those open hopper type barges constructed or modified in conformance with the requirements of subpart 32.63 of this subchapter, the special operating conditions in this section apply to all other open hopper type barges carrying those cargoes listed in Table 30.25-1, of this chapter, which are defined as:

(1) Flammable liquids having a Reid vapor pressure in excess of 25 pounds per square inch, absolute, in independent tanks (part 32 of this subchapter).

(2) Liquefied flammable gases (part 38 of this subchapter).

(b) All open hopper type barges, while carrying in bulk any of the cargoes described in paragraph (a) of this section, shall be operated in conformance with the provisions in this section. However, the provisions in this section are not applicable to such barges when empty (not necessarily cleaned or gas-freed).

(c)(1) Except as otherwise provided in this section, no such open hopper type barge shall be placed as a lead barge in any tow. Such barges shall be placed in protected positions within the tow so that the danger from diving or swamping will be minimized. Where, due to operating conditions, compliance with this paragraph is impossible, the provisions of paragraph (c)(3) of this section apply. The person in charge of the towing vessels shall be responsible for compliance with this paragraph.

(2) No such open hopper type barge shall be moved from a loading facility unless all void spaces and bilges are substantially free of water. Periodic inspections and necessary pumping shall be carried out to insure the maintenance of such water-free conditions, in order to minimize the free surface effect in both the longitudinal and transverse directions. Except when otherwise considered necessary for inspection or pumping, all hatch covers and other hull closure devices for void spaces and hull compartments shall be closed and secured at all times. In the case of unmanned barges, the person in charge of the towing vessel shall be deemed to be in charge of the barge, and all requirements to be carried out...
§ 35.01-50 Special operating requirements for tank barges carrying certain dangerous bulk cargoes—B/ALL.

(a) The requirements of this section shall apply to all tank barges carrying those cargoes listed on Table 30.25-1, of this chapter, which are defined as:

1. Flammable liquids having a Reid vapor pressure in excess of 25 pounds per square inch, absolute, in independent tanks (part 32 of this subchapter).

2. Liquefied flammable gases (part 38 of this subchapter).

(b) All tank barges constructed or modified in conformance with the requirements of subpart 32.63 of this subchapter are exempt from the provisions of §35.01-45.

(c) When it is necessary to operate box or square-end barges as lead barges of tows, the person in charge of the towing vessel shall control the speed to insure protection against diving and swamping of such barges, having due regard to their design and freeboard, and to the operating conditions.

(d) To show that special operating requirements apply to a specific open hopper type barge, additional placards or signs shall be displayed in at least four different locations on the barge when the cargoes described in paragraph (a) of this section are carried in any form in the cargo tanks. The placards or signs shall be posted on the barge approximately amidships on each side and near the centerline of each end, facing outboard. Racks, or other suitable means, for mounting such placards or signs shall be so arranged as to provide clear visibility and shall be protected from becoming readily damaged or obscured. The placards or signs shall be at least equal in dimensions to the DOT standard tank car "Dangerous" placard (10¾ inches square or larger), and shall display a circle (10 inches in diameter or larger) with alternating quadrants of white and red, and so mounted that the red quadrants are centered on the vertical axis. The shipper and/or owner of the barge shall be responsible for the installation of the required placards or signs, including maintenance of them while such barge is in temporary storage with cargo aboard. The person in charge of the towing vessel shall be responsible for the continued maintenance of the placards or signs while such barge is in transit.

§ 35.03–10 Person excluded.

Masters and pilots shall exclude from the pilothouse and navigation bridge while underway, all persons not connected with the navigation of the vessel. However, licensed officers of vessels, persons regularly engaged in training, regulating, evaluating, or learning the profession of pilot, officials of the United States Coast Guard, United States Navy, United States Coast and Geodetic Survey, United States Army Corps of Engineers, Maritime Administration, and National Transportation Safety Board may be allowed in the pilothouse or upon the navigation bridge upon the responsibility of the master or pilot.

[CGD 91–023, 59 FR 16779, Apr. 8, 1994]

Subpart 35.03—Work Vests

§ 35.03–1 Application—TB/ALL.

(a) Provisions of this subpart shall apply to all tank vessels.

§ 35.03–5 Approved types of work vests—TB/ALL.

(a) Each buoyant work vest carried under the permissive authority of this section must be approved under—

(1) Subpart 160.053 of this chapter; or

(2) Subpart 160.077 of this chapter as a commercial hybrid PFD.


§ 35.03–10 Use—TB/ALL.

(a) Approved buoyant work vests are considered to be items of safety apparel and may be carried aboard tank vessels to be worn by crew members when working near or over the water under favorable working conditions. They shall be used under the supervision and control of designated ship's officers. When carried, such vests shall not be accepted in lieu of any portion of the required number of approved life preservers and shall not be substituted for the approved life preservers required to be worn during drills and emergencies.
§ 35.03–15 Shipboard stowage—TB/ALL.

(a) The approved buoyant work vests shall be stowed separately from the regular stowage of approved life preservers.

(b) The locations for the stowage of work vests shall be such as not to be easily confused with that for approved life preservers.

§ 35.03–20 Shipboard inspections—TB/ALL.

(a) Each work vest shall be subject to examination by a marine inspector to determine its serviceability. If found to be satisfactory, it may be continued in service, but shall not be stamped by a marine inspector with a Coast Guard stamp. If a work vest is found not to be in a serviceable condition, then such work vest shall be removed from the vessel. If a work vest is beyond repair, it shall be destroyed or mutilated in the presence of a marine inspector so as to prevent its continued use as a work vest.

§ 35.03–25 Additional requirements for hybrid work vests.

(a) In addition to the other requirements in this subpart, commercial hybrid PFD’s must be—

(1) Used, stowed, and maintained in accordance with the procedures set out in the manual required for these devices by §160.077–29 of this chapter and any limitation(s) marked on them; and

(2) Of the same or similar design and have the same method of operation as each other hybrid PFD carried on board.


Subpart 35.05—Officers and Crews

§ 35.05–1 Licensed officers and crews of tankships—T/ALL.

No tankship of the United States shall be navigated unless she shall have in her service and on board such complement of licensed officers and crew, including certificated lifeboatmen and certificated tankermen where required by the regulations in this subchapter, separately stated, as called for in her certificate of inspection.

§ 35.05–5 [Reserved]

§ 35.05–10 [Reserved]

§ 35.05–15 Tank vessel security—TB/ALL.

(a) Manned tank vessel. At least one member of the crew of a manned tank vessel shall be on board at all times except when the vessel is gas free or is moored at a dock or terminal at which watchman service is provided.

(b) Unmanned barge. (1) The owner, managing operator, master, and person in charge of a vessel towing a tank barge that need not be manned, and each of them, shall be responsible for monitoring the security and integrity of the tank barge and for ensuring adherence to proper safety precautions. These responsibilities include, but are not limited to—

(i) Ensuring that any tank barge added to the tow has all tank openings properly secured; has its freeing-ports and scuppers, if any, unobstructed; meets any loadline or freeboard requirements; and neither leaks cargo into the water, voids, or cofferdams nor leaks water into the tanks, voids, or cofferdams;

(ii) Ensuring that every tank barge in the tow is properly secured within the tow;

(iii) Ensuring that periodic checks are made of every tank barge in the tow for leakage of cargo into the water, voids, or cofferdams and for leakage of water into the tanks, voids, or cofferdams;

(iv) Knowing the cargo of every tank barge in the tow, any hazards associated with the cargo, and what to do on discovery of a leak;

(v) Ensuring that the crew of the vessel know the cargo of every tank barge in the tow, any hazards associated with the cargo, and what to do on discovery of a leak;

(vi) Reporting to the Coast Guard any leaks from a tank barge in the tow into the water, as required by 33 CFR 151.15; and

(vii) Ensuring that the crew of the vessel and other personnel in the vicinity of the tank barges in the tow follow the proper safety precautions for tank
vessels, and that no activity takes place in the vicinity of the barges that could create a hazard.

(2) When a barge is moored and contains more oil than the normal clingage and unpumpable bilge or sump residues, the barge must be kept under surveillance by a person responsible for the security of the barge and for keeping unauthorized persons off the barge.

(3) When a barge is moored and contains no oil but is not gas free:
   (i) It must be maintained under surveillance as required in paragraph (b)(2) of this section; or
   (ii) All cargo tank hatches must be clearly marked in not less than three inch lettering “Danger—Keep Out,” and all hatch covers must be closed and dogged down in such a way that the hatch cannot be opened by the use of bare hands alone.


§ 35.07-10 Actions required to be logged—TB/ALL.

(a) The master or person in charge of a vessel that is required by 46 U.S.C. 11301 to have an official logbook shall maintain the logbook on form CG-706. The official logbook is available free to masters of U.S.-flag vessels from the officer in Charge, Marine Inspection, as form CG-706B or CG-706C, depending on the number of persons employed in the crew. When the voyage is completed, the master or person in charge shall file the logbook with the Officer in Charge, Marine Inspection.

(b) The master or person in charge of a vessel that is not required by 46 U.S.C. 11301 to have an official logbook, shall maintain, on board, an unofficial logbook or record in any form desired for the purposes of making entries therein as required by law or regulations in this subchapter. Such logs or records are not filed with the Officer in Charge, Marine Inspection, but must be kept available for review by a marine inspector for a period of 1 year after the date to which the records refer. Separate records of tests and inspections of fire fighting equipment must be maintained with the vessel’s logs for the period of validity of the vessel’s certificate of inspection.

[CGD 95-027, 61 FR 25999, May 23, 1996]

§ 35.07-5 Logbooks and records—TB/ALL.

(a) No person, known by the individual in charge of a tank vessel to be physically or mentally incapable of performing the duties assigned him.

§ 35.05-25 Illness, alcohol, drugs—TB/ALL.

(a) No person, known by the individual in charge of a tank vessel to be under the influence of liquor or other stimulant, or to be ill to such an extent as to unfit him for any particular service on the tank vessel, shall be allowed to perform such service while in such condition.

(b) When a member of the crew of a tank vessel which is loading bulk cargo of Grade A, B, or C arrives at the gangway and is observed to be in an intoxicated condition, he shall not be permitted to board the vessel without escort.

Subpart 35.07—Logbook Entries

§ 35.07-1 Application—TB/ALL.

(a) Except as specifically noted, the provisions of this subpart shall apply to all tank vessels.

§ 35.07-10 Actions required to be logged—TB/ALL.

(a) General—TB/ALL. The actions and observations noted in this section shall be entered in the Official Logbook or in logs or records considered to take place of the Official Logbooks. This section contains no requirements which are not made in specific laws or in other regulations in this subchapter, the items being merely grouped together for convenience.

(b) Entries—TB/ALL. Entries shall be made in the logs of tankships with respect to the following:
   (1) Onboard training, musters, and drills: held in accordance with subchapter W (Lifesaving Appliances or Arrangements) of this chapter.
   (2) Draft and load line marks. For tankships of 150 gross tons and over,
§ 35.08–1 Posting of stability letter.

If a stability letter is issued under §170.120 of this chapter, it must be posted under glass or other suitable transparent material in the pilothouse of the vessel.

[CGD 79–023, 48 FR 51006, Nov. 4, 1983]

Subpart 35.10—Fire and Emergency Requirements

§ 35.10–1 Emergency training, musters, and drills—T/ALL.

Onboard training, musters, and drills must be in accordance with subchapter W (Lifesaving Appliances and Arrangements) of this chapter.

[CGD 84–069, 61 FR 25286, May 20, 1996]

§ 35.10–3 Display of plans—TB/ALL.

Barges with sleeping accommodations for more than six persons and all self-propelled vessels shall have permanently exhibited for the guidance of the officer in charge of the vessel the following plans:

(a) General arrangement plans showing for each deck the fire control stations, the various sections enclosed by fire-resisting bulkheads, together with particulars of the fire alarms, detecting systems, the sprinkler installation (if any), the fire extinguishing appliances, means of access to different compartments, decks, etc., and the ventilating systems including particulars of the maste fan controls, the positions of dampers, the location of the remote means of stopping fans, and identification numbers of the ventilating fans serving each section. If cargo compartments are “specially suited for vehicles,” they shall be so indicated on the plan. Alternatively, at the discretion of the Commandant, the aforementioned details may be set out in any other medium, such as a booklet or on computer software, provided that the aforementioned details are available to each officer and a copy is retained on board at all times and is accessible during emergencies. For vessels constructed on or after September 30, 1997 or for existing vessels which have their plans redrawn, the symbols used to identify the aforementioned details shall be in accordance with IMO Assembly resolution A.654(16). These identical symbols can also be found in ASTM Adjunct F 1626.

(b) Plans showing clearly for each deck the boundaries of the watertight...
(c) The information contained in the plans shall be kept up-to-date, and any changes shall be recorded as soon as possible.


§ 35.10–5 Muster lists, emergency signals, and manning—T/ALL.

The requirements for muster lists, emergency signals, and manning must be in accordance with subchapter W (Lifesaving Appliances and Arrangements) of this chapter.

[CGD 84–069, 61 FR 25287, May 20, 1996]

§ 35.10–15 Emergency lighting and power systems—T/ALL.

(a) Where fitted, it shall be the duty of the master to see that the emergency lighting and power systems are tested and inspected at least once in each week that the vessel is navigated to be assured that the system is in proper operating condition.

(b) Internal combustion engine driven emergency generators shall be tested under load for at least 2 hours, at least once in each month that the vessel is navigated.

(c) Storage batteries for emergency lighting and power systems shall be tested at least once in each 6-month period that the vessel is navigated to demonstrate the ability of the storage battery to supply the emergency loads for the period of time specified in Table 112.05–5(a) of this chapter.

(d) The date of the tests required by this section and the condition and performance of the apparatus shall be noted in the vessel’s Official Logbook or in logs or records considered to take the place of the Official Logbook.


Subpart 35.15—Notice and Reporting of Casualty and Voyage Records

§ 35.15–1 Notice and reporting of casualty and voyage records—TB/ALL.

The requirements for providing notice and reporting of marine casualties and for retaining voyage records are contained in part 4 of this chapter.


Subpart 35.20—Navigation

§ 35.20–1 Notice to mariners; aids to navigation—T/OCLB.

(a) Licensed officers are required to acquaint themselves with the latest information published by the Coast Guard and the U.S. Navy regarding aids to navigation, and neglect to do so is evidence of neglect of duty. It is desirable that vessels navigating oceans and coastwise and Great Lakes water shall have available in the pilothouse for convenient reference at all times a file of the applicable Notice to Mariners.

(b) Weekly Notices to Mariners (Great Lakes Edition), published by the Commander, 9th Coast Guard District, contain announcements and information on changes in aids to navigation and other marine information affecting the safety of navigation on the Great Lakes. These notices may be obtained free of charge, by making application to Commander, 9th Coast Guard District.

(c) Weekly Notices to Mariners (worldwide coverage) are prepared jointly by the U.S. Naval Oceanographic Office, the U.S. Coast and Geodetic Survey and the U.S. Coast Guard. They include changes in aids to navigation in assembled form for the 1st, 5th, 7th, Greater Antilles Section, 8th, 11th, 13th, 14th, and 17th Coast Guard Districts. Foreign marine information is also included in these notices. These notices are available without charge from the U.S. Naval Oceanographic Office, Washington, DC 20390, Branch
§ 35.20–5
Oceanographic Offices, U.S. Collector of Customs of the major seaports in the United States and are also on file in the U.S. Consulates where they may be inspected.

(d) As appropriate for the intended voyage, all vessels must carry adequate and up-to-date:

(1) Charts;
(2) Sailing directions;
(3) Coast pilots;
(4) Light lists;
(5) Notices to mariners;
(6) Tide tables;
(7) Current tables; and
(8) All other nautical publications necessary. 1


§ 35.20–5 Draft of tankships—T/OC.
The master of every tankship shall, whenever leaving port, enter the maximum draft of his vessel in the logbook.

§ 35.20–7 Verification of vessel compliance with applicable stability requirements—T/ALL.

(a) Except as provided in paragraph (d) of this section, after loading and prior to departure and at all other times necessary to assure the safety of the vessel, the master or person in charge shall determine that the vessel complies with all applicable stability requirements in the vessel’s trim and stability book, stability letter, Certificate of Inspection, and Load Line Certificate, as the case may be. The vessel may not depart until it is in compliance with these requirements.

(b) When determining compliance with applicable stability requirements the vessel’s draft, trim, and stability must be determined as necessary.

(c) If a log book is required by § 35.20–5, then the master or person in charge must enter an attestation statement verifying that the vessel complies with the applicable stability requirements at the times specified in paragraph (a) and any stability calculations made in support of the determination must be retained on board the vessel for the duration of the voyage.

(d) Stability verification is not required for tank barges whose Certificate of Inspection carries draft restrictions for purposes other than stability.

[CGD 88–037, 57 FR 41821, Sept. 11, 1992]

§ 35.20–10 Steering gear test—T/ALL.
On all tankships making voyages of more than 48 hours’ duration, the entire steering gear, the whistle, the means of communication, and the signaling appliances between the bridge or pilothouse and engineroom shall be examined and tested by a licensed officer of the vessel within a period of not more than 12 hours before leaving port. All such vessels making voyages of less than 48 hours’ duration or operating on lakes, bays, sounds, and rivers shall be so examined and tested at least once in every week. The fact and time of such examination and test shall be recorded in the ship’s logbook.

§ 35.20–20 Master’s and officer’s responsibility—T/ALL.
Nothing in this part shall exonerate any master or officer in command from the consequences of any neglect to keep a proper lookout or the neglect of any precaution which may be required by the ordinary practice of seamen or by the special circumstances of the case.

§ 35.20–30 Flashing the rays of a searchlight or other blinding light—T/ALL.
No person shall flash, or cause to be flashed, the rays of a searchlight or other blinding light onto the bridge or into the pilothouse of any vessel under way.

[CGD 95–027, 61 FR 26000, May 23, 1996]

§ 35.20–35 Whistling—T/ALL.
The unnecessary sounding of a vessel’s whistle is prohibited within any harbor limits of the United States.

[CGD 95–027, 61 FR 26000, May 23, 1996]
§ 35.20–40 Maneuvering characteristics—T/OC.

For each ocean and coastwise tanker of 1,600 gross tons or over, the following apply:

(a) The following maneuvering information must be prominently displayed in the pilothouse on a fact sheet:

(1) For full and half speed, a turning circle diagram to port and starboard that shows the time and the distance of advance and transfer required to alter the course 90 degrees with maximum rudder angle and constant power settings.

(2) The time and distance to stop the vessel from full and half speed while maintaining approximately the initial heading with minimum application of rudder.

(3) For each vessel with a fixed propeller, a table of shaft revolutions per minute for a representative range of speeds.

(4) For each vessel with a controllable pitch propeller a table of control settings for a representative range of speeds.

(5) For each vessel that is fitted with an auxiliary device to assist in maneuvering, such as a bow thruster, a table of vessel speeds at which the auxiliary device is effective in maneuvering the vessel.

(b) The maneuvering information must be provided for the normal load and normal ballast condition for:

(1) Calm weather—wind 10 knots or less, calm sea;

(2) No current;

(3) Deep water conditions—water depth twice the vessel’s draft or greater; and

(4) Clean hull.

(c) At the bottom of the fact sheet, the following statement must appear:

**WARNING**

The response of the (name of the vessel) may be different from those listed above if any of the following conditions, upon which the maneuvering information is based, are varied:

(1) Calm weather—wind 10 knots or less, calm sea;

(2) No current;

(3) Water depth twice the vessel’s draft or greater;

(4) Clean hull; and

(5) Intermediate drafts or unusual trim.

(d) The information on the fact sheet must be:

(1) Verified six months after the vessel is placed in service; or

(2) Modified six months after the vessel is placed into service and verified within three months thereafter.

(e) The information that appears on the fact sheet may be obtained from:

(1) Trial trip observations;

(2) Model tests;

(3) Analytical calculations;

(4) Simulations;

(5) Information established from another vessel of similar hull form, power, rudder and propeller; or

(6) Any combination of the above.

The accuracy of the information in the fact sheet required is that attainable by ordinary shipboard navigation equipment.

(f) The requirements for information for fact sheets for specialized craft such as semi-submersibles, hydrofoils, hovercraft and other vessels of unusual design will be specified on a case by case basis.

[CGD 73–78, 40 FR 2689, Jan. 15, 1975]

§ 35.20–45 Use of Auto Pilot—T/ALL.

Except as provided in 33 CFR 164.13, when the automatic pilot is used in:

(a) Areas of high traffic density;

(b) Conditions of restricted visibility; and

(c) All other hazardous navigational situations, the master shall ensure that:

(1) It is possible to immediately establish manual control of the ship’s steering;

(2) A competent person is ready at all times to take over steering control; and

(3) The changeover from automatic to manual steering and vice versa is made by, or under, the supervision of the officer of the watch.

§ 35.25-1

Subpart 35.25—Engine Department

§ 35.25-1 Examination of boilers and machinery by engineer—T/ALL.

It shall be the duty of an engineer when assuming charge of the boilers to examine the same forthwith and thoroughly. If any part thereof is found in bad condition, the engineer shall immediately report the facts to the master, owner, or agent, and to the nearest Officer in Charge, Marine Inspection.

§ 35.25-5 Repairs of boilers and unfired pressure vessels and reports of repairs or accidents by chief engineer—T/ALL.

(a) Before making any repairs to boilers or unfired pressure vessels, the chief engineer shall submit a report covering the nature of the repairs to the Officer in Charge, Marine Inspection, at or nearest to the port where the repairs are to be made.

(b) In the event of an accident to a boiler, unfired pressure vessel, or machinery tending to render the further use of the item itself unsafe until repairs are made, or if by ordinary wear such items become unsafe, a report shall be made by the chief engineer immediately to the Officer in Charge, Marine Inspection, or if at sea, immediately upon arrival at port.

§ 35.25-10 Requirements for fuel oil—T/ALL.

(a) Oil to be used as fuel to be burned under boilers on tankships shall have a flashpoint of not less than 140°F (Pensky-Martens Closed Cup Method, ASTM D 93).

(b) It shall be the duty of the chief engineer to make an entry in the log of each supply of fuel oil received on board, stating the quantity received, the name of the vendor, the name of the oil producer, and the flashpoint (Pensky-Martens Closed Cup Method, ASTM D 93) for which it is certified by the producer.

(c) It shall be the further duty of the chief engineer to draw and seal at the time the supply is received on board, a half-pint sample of each lot of fuel oil, such sample to be preserved until that particular supply of oil is exhausted.

§ 35.25-15 Carrying of excess steam—T/ALL.

It shall be the duty of the chief engineer of any tank vessel to see that a steam pressure is not carried in excess of that allowed by the certificate of inspection, and to see that the safety valves, once set by the inspector, are in no way tampered with or made inoperative.

Subpart 35.30—General Safety Rules

§ 35.30-1 Warning signals and signs—T/ALL.

(a) Red warning signals. During transfer of bulk cargo while fast to a dock, a red signal (flag by day and electric lantern at night) shall be so placed that it will be visible on all sides. While transferring bulk cargo at anchor, a red flag only shall be displayed.

(b) Warning sign at gangway. A sign shall be displayed to warn persons approaching the gangway, while a vessel is moored or anchored unless it is empty and gas-freed. The sign shall state in letters not less than 2 inches high substantially as follows:

**Warning**

No open lights.
No smoking.
No visitors.

(c) Warning sign in radio room. A sign shall be placed in radio room warning against the use of radio equipment during transfer of Grade A, B, or C liquids, except by permission of senior deck officer.

(d) [Reserved]

(e) Additional placards or signs required in connection with the movement of certain open hopper type barges are described in § 35.01-45.

§ 35.30-5 Fires, matches, and smoking—TB/ALL

(a) General. In making the determinations required under paragraphs (b), (c), and (d) of this section the senior deck officer on duty, who shall be a licensed officer or certificated tankerman, shall exercise his skill and experience with due regard to attendant conditions and circumstances, including consideration for location of shore side facilities, maintenance of mobility, provision for fire protection, state or change of winds, tides, sea, weather conditions, forces of nature and other circumstances generally beyond human control.

(b) Boiler fires. Boiler fires are normally permitted during cargo transfer operations: Provided, That prior to loading Grades A, B, and C cargoes, the senior deck officer on duty, who shall be a licensed officer or certificated tankerman, shall make an inspection to determine whether in his judgment boiler fires may be maintained with reasonable safety during the loading operation.

(c) Smoking. Smoking is prohibited on the weather decks of tank vessels when they are not gas free or are alongside docks. At other times and places the senior deck officer on duty, who shall be a licensed officer or certificated tankerman, shall designate when and where the crew may smoke: Provided, That prior to loading Grade A, B, or C cargo the master or senior deck officer on duty shall make an inspection to determine whether in his judgment smoking may be permitted with reasonable safety during the loading operation.

(d) Matches. The use of other than safety matches is forbidden aboard tank vessels at all times.

§ 35.30-10 Cargo tank hatches, ullage holes, and Butterworth plates—TB/ALL.

No cargo tank hatches, ullage holes, or Butterworth plates shall be opened or shall remain open without flame screens, except under the supervision of the senior members of the crew on duty, unless the tank opened is gas free.

§ 35.30-15 Combustible gas indicator—TB/ALL.

(a) The provisions of this section shall apply only to United States flag vessels.

(b) Manned tank barges and tankships authorized to carry Grade A, B, C, or D liquids at any temperature, or Grade E liquids at elevated temperatures, shall be provided with a combustible gas indicator suitable for determining the presence of explosive concentrations of the cargo carried. An indicator which bears the label of Underwriters' Laboratories Inc., Factory Mutual Engineering Division, or other organizations acceptable to the Commandant will be accepted as meeting this requirement.

§ 35.30-20 Emergency equipment—TB/ALL

(a) Two emergency outfits, stored for use in widely separated, accessible locations, are required for the following:

(1) All tankships on international voyage.

(2) All tankships over 1,000 gross tons.

(3) All tankships having cargo tanks which exceed 15 feet in depth, measured from the deck to the lowest point at which cargo is carried.

(b) One emergency outfit is required for all manned tank barges having cargo tanks which exceed 15 feet in depth, measured from the deck to the lowest point at which cargo is carried.

(c) Each emergency outfit shall be equipped as follows:

(1) One pressure-demand, open-circuit, self-contained breathing apparatus, approved by the Mine Safety and Health Administration (MSHA) and by the National Institute for Occupational Safety and Health (NIOSH) and having at a minimum a 30-minute air supply, a full facepiece, and a spare charge.

(2) One lifeline with a belt or a suitable harness.

(3) One, Type II or Type III, flashlight constructed and marked in accordance with ASTM F1014-1986.

(4) One fire ax.
§ 35.30–25

(5) Boots and gloves of rubber or other electrically nonconducting material.

(6) A rigid helmet which provides effective protection against impact.

(7) Protective clothing of material that will protect the skin from the heat of fire and burns from scalding steam. The outer surface shall be water resistant.

(d) A self-contained compressed-air breathing apparatus previously approved by MSHA and NIOSH under part 160, subpart 160.011, of this chapter may continue in use as required equipment if it was part of the vessel’s equipment on November 23, 1992, and as long as it is maintained in good condition to the satisfaction of the Officer in Charge, Marine Inspection.

(e) Lifelines shall be of steel or bronze wire rope. Steel wire rope shall be either inherently corrosion resistant or made so by galvanizing or tinning. Each end shall be fitted with a hook with keeper having a throat opening which can be readily slipped over a 5/8-inch bolt. The total length of the lifeline shall be dependent upon the size and arrangement of the vessel, and more than one line may be hooked together to achieve the necessary length. No individual length of lifeline may be less than 50 feet in length. The assembled lifeline shall have a minimum breaking strength of 1,500 pounds.

§ 35.30–26

§ 35.30–30 Portable electric equipment—TB/ALL.

Portable electric equipment must not be used in a hazardous location described in subpart 111.105 of this chapter except:

(a) Self-contained, battery-fed, explosion-proof lamps approved by Underwriters Laboratories Inc., Factory Mutual Research Corporation, or other independent laboratory recognized by the Commandant, for use in a Class I, Division 1 location for the electrical group classification of the cargo;

(b) Intrinsically safe equipment approved by Underwriters Laboratories Inc., Factory Mutual Research Corporation, or other independent laboratory recognized by the Commandant, for use in a Class I, Division 1 location for the electrical group classification of the cargo; and

(c) Any electrical equipment, if:

(1) The hazardous location is:

(i) Enclosed; and

(ii) Gas free;

(2) The adjacent compartments are:

(i) Gas free; and

(ii) Inerted;

(iii) Filled with water;

(iv) Filled with Grade E liquid; or

(v) Spaces where flammable gases are not expected to accumulate; and

(3) Each compartment where flammable gas is expected to accumulate is:

(i) Closed; and

(ii) Secured.

§ 35.30–35 Spark producing devices—TB/ALL.

(a) Where Grades A, B, C, and D liquid cargoes are involved, power driven or manually operated spark producing devices shall not be used in bulk cargo tanks, fuel oil tanks, cargo pump rooms, or enclosed spaces immediately above or adjacent to bulk cargo tanks unless all the following conditions are met:

(1) The compartment itself is gas-free;

(2) The compartments adjacent and the compartments diagonally adjacent are either (i) gas-free, (ii) inerted, (iii) filled with water, (iv) contain Grade E liquid and are closed and secured, or (v)
Coast Guard, DOT

§ 35.35–1 Persons on duty—TB/ALL.

(a) On each tankship required to be documented under the laws of the United States, the owner, managing operator, master, and person in charge of the vessel, and each of them, shall ensure that—

(1) Enough “Tankerman-PICs” or restricted “Tankerman-PICs”, and “Tankerman-Assistants”, authorized for the classification of cargo carried, are on duty to safely transfer liquid cargo in bulk or safely clean cargo tanks; and

(2) Each transfer of liquid cargo in bulk and each cleaning of a cargo tank is supervised by a person qualified to be the person in charge of the transfer or the cleaning under subpart C of 33 CFR part 155.

(b) On each United States tank barge subject to inspection—

(1) The owner, managing operator, master, and person in charge of the vessel, and each of them, shall ensure that no transfer of liquid cargo in bulk or cleaning of a cargo tank takes place unless under the supervision of a qualified person designated as the person in charge of the transfer or the cleaning under subpart C of 33 CFR part 155; and

(2) The person designated as the person in charge of the transfer shall ensure that—

(i) Enough qualified personnel are on duty to safely transfer liquid cargo in bulk or safely clean cargo tanks; and

(ii) The approved portable extinguishers required by Table 34.50–10(a) of this chapter are aboard and readily available before any transfer of liquid cargo in bulk or any operation of barge machinery or boilers.

(c) On each foreign tankship, the owner, managing operator, master, and person in charge of the vessel, and each of them, shall ensure that—

(1) Enough personnel, qualified for the classification of cargo carried, are on duty to safely transfer liquid cargo in bulk or safely clean cargo tanks; and

(2) Each transfer of liquid cargo in bulk and each cleaning of a cargo tank is supervised by a qualified person designated as a person in charge of the transfer or the cleaning under subpart C of 33 CFR part 155.

(d) On each foreign tank barge—

(1) The owner, managing operator, master, and person in charge of the vessel, and each of them, shall ensure that no transfer of liquid cargo in bulk or cleaning of a cargo tank takes place unless under the supervision of a qualified person designated as the person in charge of the transfer or the cleaning under subpart C of 33 CFR part 155.

(2) The person designated as the person in charge of the transfer shall ensure that enough qualified personnel are on duty to safely transfer liquid cargo in bulk or safely clean cargo tanks.

(e) The person in charge of the transfer of liquid cargo in bulk on the tank vessel shall be responsible for the safe
loading and discharge of the liquid cargo in bulk.

(f) The person in charge of the transfer of liquid cargo in bulk on each United States tank vessel, when lightering to or from a foreign tank vessel, shall ensure that the person in charge on the foreign tank vessel, or his or her interpreter, is capable of reading, speaking, and understanding the English language well enough to allow a safe transfer.

[CGD 79-116, 60 FR 17155, Apr. 4, 1995]

§ 35.35-5 Electric bonding—TB/ALL.

A tank vessel may be electrically connected to the shore piping, through which the cargo is to be transferred, prior to the connecting of a cargo hose. This electrical connection, if made, shall be maintained until after the cargo hose has been disconnected, and any spillage has been removed.


§ 35.35-10 Closing of freeing-ports, scuppers, and sea valves—TB/ALL.

The person in charge of each transfer of liquid cargo in bulk shall ensure that all freeing-ports and scuppers are properly plugged during the transfer except on tank vessels using water for cooling decks. Although under no circumstances may sea valves be secured by locks, the valves must be closed, and lashed or sealed, to indicate that they should not be opened during the transfer.

[CGD 79-116, 60 FR 17156, Apr. 4, 1995]

§ 35.35-15 Connecting for cargo transfer—TB/ALL.

(a) Movement of the vessel must be considered to insure safe cargo transfer. Suitable material must be used in joints and in couplings to insure that connections are tight. A bolted flanged coupling must not have less than four bolts, under any circumstances.

(b) When cargo connections are supported by ship’s tackle, the person in charge of the transfer of liquid cargo in bulk shall determine the weights involved to ensure that adequate tackle is used.

(c) Pans or buckets shall be placed under cargo hose connections on the tank vessel.


§ 35.35-20 Inspection before transfer of cargo—TB/ALL.

Before the transfer of liquid cargo in bulk, the person in charge of the transfer shall inspect the vessel to ensure the following:

(a) Warnings are displayed as required.

(b) No repair work in way of cargo spaces is being carried on without his permission.

(c) Cargo connections have been made as described in §35.35-15 and cargo valves are set.

(d) All cargo connections have been made to the vessel’s pipeline, and not through an open end hose led through a hatch.

(e) In loading Grades A, B, and C cargoes, there are no fires or open flames present on the deck, or in any compartment which is located on, facing, open, and adjacent to that part of the deck on which cargo connections have been made.

(f) The shore terminal or the other tank vessel concerned has reported itself in readiness for transfer of cargo.

(g) All sea valves connected to the cargo piping system are closed.

(h) In loading Grades A, B, and C cargoes, that an inspection has been made to determine whether boiler fires can be maintained with reasonable safety.

(i) In loading Grades A, B, and C cargoes, that an inspection has been made to determine whether galley fires can be maintained with reasonable safety.

(j) In loading Grades A, B, or C cargoes, that an inspection has been made to determine whether smoking may be permitted with reasonable safety in areas other than the weather deck.

(k) On tankships the construction or conversion of which is started on or after July 1, 1951, which are to load or discharge Grade A cargo, all openings in the top of the tanks, except the branch vent lines and covers to ullage hole sounding pipes, are tightly closed. (See §§32.20-20 and 32.55-20 of this subchapter.)
§ 35.35–25 Approval to start transfer of cargo—TB/ALL.

When the person in charge of the transfer of liquid cargo in bulk has ensured that the requirements of §§ 35.35–20 and 35.35–30 have been met, he or she may give approval to start the transfer.

[CGD 79–116, 60 FR 17156, Apr. 4, 1995]

§ 35.35–30 “Declaration of Inspection” for tank vessels—TB/ALL.

(a) After an inspection under § 35.35–20, but before a transfer of cargo, fuel oil, or bunkers may commence as described in this section and 33 CFR 156.120 and 156.150, the person in charge of the transfer shall prepare, in duplicate, a Declaration of Inspection. The original must be kept aboard the vessel, and the duplicate provided to the terminal supervisor or that person’s representative. The supervisor or the representative may, upon demand, inspect the vessel to determine whether its condition is as stated on the Declaration of Inspection.

(b) The Declaration of Inspection may be in any form, but must contain at least:

Declaration of Inspection Before Transfer of Liquid Cargo in Bulk

Date ___________________________

Vessel ___________________________

Port of ___________________________

Product[s] being transferred—

(Classification[s] and Kind[s])

I, ____________________________, the person in charge of the transfer of liquid cargo in bulk about to begin, do certify that I have personally inspected this vessel with reference to the following requirements set forth in 46 CFR 35.35–20, and that opposite each of the applicable items listed below I have indicated whether the vessel complies with all pertinent regulations.

(1) Are warnings displayed as required?

(2) Is there any repair work in way of cargo spaces being carried on for which permission has not been given?

(3) Have cargo connections been made as described in 46 CFR 35.35–15 and are cargo valves set?

(4) Have all cargo connections been made to the vessel’s pipeline and not through an open-end hose led through a hatch?

(5) Are there any fires or open flames present on the deck or in any compartment of the vessel?

(6) Are the vapor recovery hoses connected to the facility, tested and operating properly?

(7) Are there any open flames or lighters from vessels or an open manifold vapor transfer system?

(8) Is each vapor recovery hose of sufficient capacity to handle all vapor from a single cargo tank?

(9) Are the fire-protection systems of the facility and vessel in proper order?

[CGD 79–116, 60 FR 17156, Apr. 4, 1995]
which is located on, open or adjacent to or facing the main deck of the vessels on which the cargo connections have been made?

(6) Has the shore terminal or other tank vessel concerned reported itself in readiness for transfer of cargo?

(7) Are sea valves connected to the cargo piping system closed?

(8) If Grades A, B, or C cargoes are to be loaded and boiler fires are lighted, has an inspection been made to determine whether these fires may be maintained with reasonable safety?

(9) If Grades A, B, or C cargoes are to be loaded and galley fires are lighted, has an inspection been made to determine whether the galley fires may be maintained with reasonable safety?

(10) If Grades A, B, or C cargoes are to be loaded, has an inspection been made to determine whether smoking is to be permitted in areas not on the weather decks?

(11) If smoking is to be permitted in areas not on the weather decks, have those areas been designated?

(12) Is the inert gas system being operated as necessary to maintain an inert atmosphere in the cargo tanks in compliance with 46 CFR 32.53-3?

(13) Have the applicable sections of the vessel response plan been reviewed before commencing transfer, and arrangements or contingencies made for implementation of the Plan should the need arise?

(c) In addition to the requirements in paragraph (b) of this section, if a transfer operation includes the collection of cargo vapor from a vessel’s cargo tanks through a vapor control system not located on the vessel, the Declaration of Inspection must include the following as an appendix:

(1) Is each part of the vapor collection system aligned to allow vapor to flow to the facility vapor connection or, if lightering, to the other vessel?

(2) Are the vapor collection hoses or arms connected to the vessel’s vapor collection connection?

(3) Are the vessel and facility vapor connections electrically isolated?

(4) Have the initial transfer rate and the maximum transfer rate been determined?

(5) Have the maximum and minimum operating pressures at the facility vapor connection, or the vessel vapor connection if lightering, been determined?

(6) Have all alarms required by §§39.20-7, 39.20-9 and 39.40-3(a) of this subchapter been tested within 24 hours prior to the start of the transfer operation and found to be operating properly?

(7) Is each vapor recovery hose free of unrepaired loose covers, kinks, bulges, soft spots, or any other defect which would permit the discharge of vapors through the hose material, and gouges, cuts, or slashes that penetrate the first layer of hose reinforcement?

(8) Has the oxygen concentration of all inerted cargo tanks been verified to be 8 percent or less?


§ 35.35-35 Duties of person in charge of transfer—TB/ALL.

The person in charge of the transfer of liquid cargo in bulk, fuel oil in bulk, or bunkers in bulk shall control the transfer as follows:

(a) Supervise the operations of cargosystem valves.

(b) Commence transfer of cargo at slow rate of cargo flow.

(c) Observe cargo connections for leakage.

(d) Observe pressure on cargo system.

(e) If transfer is loading (rather than discharging), observe rate of loading to avoid overflow of tanks.

(f) Comply with 33 CFR 156.120 and 156.150.


§ 35.35-40 Conditions under which transfer operations shall not be commenced or if started shall be discontinued—TB/ALL.

Cargo transfer operations shall not be started or, if started, shall be discontinued under the following conditions:

(a) During severe electrical storms.

(b) If a fire occurs on the wharf or on the tanker or in the vicinity.

§ 35.35-42 Restrictions on vessels alongside a tank vessel loading or unloading cargo of Grade A, B, or C—TB/ALL.

(a) No vessel may come alongside or remain alongside a tank vessel in way of its cargo tanks while it is loading or unloading cargo of Grade A, B, or C...
Coast Guard, DOT

§ 35.35-45 Auxiliary steam, air, or electric current—B/ALL.

When discharging cargo from one or more barges, the towing vessel may furnish steam, air, or electric current for pumps on barges or dock, but in no case shall the cargo pass through or over the towing vessel.

§ 35.35-50 Termination of transfer operations—TB/ALL.

(a) When transfer operations are completed the valves on cargo connections on the vessel shall be closed. The cargo connections shall be drained of cargo.

(b) [Reserved]

§ 35.35-55 Transfer of other cargo or stores on tank vessels—TB/ALL.

(a) No packaged goods, freight, or ship's stores may be loaded or unloaded during the loading or unloading of cargo of Grade A, B, or C except by permission of the person in charge of the transfer of liquid cargo in bulk. No explosives may be loaded, unloaded, or carried as cargo on any tank vessel containing cargo of Grade A, B, or C.

(b) Where package and general cargo is carried directly over bulk cargo tanks, it shall be properly dunnaged to prevent chafing of metal parts and securely lashed or stowed.

§ 35.35-60 Transportation of other cargo or stores on tank barges—B/ALL.

(a) Tank barges may be permitted to transport deck cargoes directly over bulk cargo spaces when the nature of such deck cargoes and the methods of loading and unloading same do not create an undue hazard. Such tank barges shall have their decks properly dunnaged to prevent chafing between the steel parts of the vessel and the deck cargo.

(b) [Reserved]

§ 35.35-70 Maintenance of cargo handling equipment—TB/ALL.

The cargo handling equipment shall be maintained by the tank vessel's personnel in accordance with the regulations in this subchapter, including the following:

(a) Cargo hose shall not be used in transfer operations in which the pressures are such that leakage of cargo occurs through the body of the hose.

(b) Cargo pump relief valves shall be tested at least once each year to determine that they function satisfactorily at the pressure at which they are set to open.

(c) Cargo pump pressure gage shall be tested at least once a year for accuracy.

(d) The cargo discharge piping of all tank vessels shall be tested at least once each year for tightness, at the maximum working pressure.

§ 35.35-75 Emergencies—TB/ALL.

In case of emergencies nothing in the regulations in this subchapter shall be construed as preventing the senior officer present from pursuing the most effective action in his judgment for rectifying the conditions causing the emergency.

§ 35.35-85 Air compressors—TB/ALL.

No person may operate, install, or reinstall an air compressor in a cargo area described in § 32.35-15 of this subchapter.


Subpart 35.40—Posting and Marking Requirements—TB/ALL.

§ 35.40-1 General alarm contact maker—TB/ALL.

Each general alarm contact maker must be marked in accordance with requirements in subchapter J (Electrical Engineering Regulations) of this chapter.

[CGD 74-125A, 47 FR 15231, Apr. 8, 1982]
§ 35.40–5 General alarm bells—TB/ALL.
General alarm bells must be marked in accordance with requirements in subchapter J (Electrical Engineering Regulations) of this chapter.
[CGD 74–125A, 47 FR 15231, Apr. 8, 1982]

§ 35.40–6 Emergency lights—TB/ALL.
Emergency lights must be marked in accordance with requirements in subchapter J (Electrical Engineering Regulations) of this chapter.
[CGD 74–125A, 47 FR 15231, Apr. 8, 1982]

§ 35.40–7 Carbon dioxide alarm—TB/ALL.
Adjacent to all carbon dioxide fire extinguishing alarms installed after November 19, 1952, there shall be conspicuously marked: "WHEN ALARM SOUNDS VACATE AT ONCE. CARBON DIOXIDE BEING RELEASED."

§ 35.40–10 Steam, foam, or CO₂ fire smothering apparatus—TB/ALL.
Steam, foam, or CO₂ fire smothering apparatus shall be marked "STEAM FIRE APPARATUS" or "FOAM FIRE APPARATUS" or "CO₂ FIRE APPARATUS," as appropriate, in not less than 2-inch red letters. The valves of all branch pipes leading to the several compartments shall be distinctly marked to indicate the compartments or parts of the vessel to which they lead.

§ 35.40–15 Fire hose stations—TB/ALL.
At each fire hose valve there shall be marked in not less than 2-inch red letters and figures: "FIRE STATION 1," 2, 3, etc.

§ 35.40–17 Foam hose/monitor stations—TB/ALL.
(a) At each required foam hose/monitor valve there shall be marked in not less than 2-inch red letters and figures: "FOAM STATION 1," 2, 3, etc.
(b) [Reserved]

§ 35.40–18 Water spray systems—TB/ALL.
(a) Water spray system apparatus shall be marked: "WATER SPRAY SYSTEM," as appropriate, in not less than 2-inch red letters.

(b) The control valve, and its control if located remotely, shall be distinctly marked to indicate the compartment protected.

§ 35.40–20 Emergency equipment—TB/ALL.
Each locker and space where emergency equipment is stowed must be marked "EMERGENCY EQUIPMENT" or "SELF-CONTAINED BREATHING APPARATUS", as appropriate.

§ 35.40–25 Fire extinguishers—TB/ALL.
Each fire extinguisher shall be marked with a number and the location where stowed shall be marked in corresponding numbers in at least ½ inch figures.

§ 35.40–30 Instructions for changing steering gear—TB/ALL.
Instructions in at least ½ inch letters and figures shall be posted in the steering engineroom, relating in order, the different steps to be taken in changing to the emergency steering gear. Each clutch, gear wheel, lever, valve or switch which is used during the changeover shall be numbered or lettered on a brass plate or painted so that the markings can be recognized at a reasonable distance. The instructions shall indicate each clutch or pin to be “in” or “out” and each valve or switch which is to be “opened” or “closed” in shifting to any means of steering for which the vessel is equipped. Instructions shall be included to line up all steering wheels and rudder amidship before changing gears.

§ 35.40–35 Rudder orders—TB/ALL.
At all steering stations, there shall be installed a suitable notice on the wheel or device or in such other position as to be directly in the helmsman’s line of vision, to indicate the direction in which the wheel or device must be turned for “right rudder” or “left rudder.”

§ 35.40–40 Marking and instructions for fire and emergency equipment—TB/ALL.
Lifesaving appliances, instructions to passengers, and stowage locations for all tank vessels must be in accordance
PART 36—ELEVATED TEMPERATURE CARGOES

Subpart 36.01—General

§36.01-1 Scope of regulations—TB/ALL.

(a) The regulations in this part contain requirements for the transportation in bulk of materials considered to be Grade E liquids when shipped in molten form at elevated temperatures.

(b) The materials covered by this part shall meet the applicable regulations of this subchapter, except that materials having a flash point of 300°F. or above, shall be exempt from the requirements prescribed in the following sections of this subchapter:

(1) Inspection prior to making repairs—§35.05-1(b).

(2) Watchman for a tank vessel—§35.05-15.

(3) Warning sign at gangway—§35.30-1(b).

(4) Cargo tank hatches, ullage holes and Butterworth plates—§35.30-10.

(5) Men on duty—§35.35-1.

(6) Inspection prior to transfer of cargo—§35.35-20.

(7) Approval to start transfer of cargo—§35.35-25.

(8) “Declaration of inspection” for tank ships—§35.35-30.

(c) The regulations governing the transportation in the solid state of materials referred to in §36.01-1(a) are contained in part 148 of subchapter N (Dangerous Cargoes) of this chapter.

§36.01-5 Certificate of inspection—TB/ALL.

(a) The certificate of inspection shall be endorsed for the carriage of elevated temperature cargoes as follows: “Inspected and approved for the carriage of Grade E combustible liquids when transported in molten form at elevated temperatures.”

(b) [Reserved]

Subpart 36.05—Cargo Tanks

§36.05-1 Installation of cargo tanks—TB/ALL.

(a) All cargo tanks carrying liquids at elevated temperatures for the purpose of maintaining the material in the molten form shall be installed with the access openings located above the weather deck.

(b) [Reserved]

§36.05-10 Protection of personnel—TB/ALL.

(a) Decks, bulkheads, or other structures shall be insulated with an approved incombustible material, or other suitable means of protection shall be employed where practicable and necessary for the protection of personnel.

(b) [Reserved]
§ 36.10–1

Subpart 36.10—Piping, Valves, Fittings, and Accessory Equipment

§ 36.10–1 Cargo pump relief valves—TB/ALL.
(a) Cargo pump relief valves and pressure gages may be omitted, however, a suitable device shall be fitted to stop the pumping before the designed pressure of the piping is exceeded.
(b) [Reserved]

Subpart 36.20—Vents and Ventilation

§ 36.20–1 Flame screens—TB/ALL.
(a) Flame screens may be omitted in the vent lines on cargo tanks.
(b) [Reserved]

§ 36.20–5 Ventilation of pumproom—TB/ALL.
(a) Where personnel are required to enter pumprooms located below the weather deck under normal circumstances of handling cargo, such pumprooms shall be equipped with power ventilation.
(b) [Reserved]

Subpart 36.30—Periodic Inspections

§ 36.30–1 Lagged tanks—TB/ALL.
(a) Lagged tanks shall have part of the lagging removed on the lower portion of the cargo tanks as directed by the marine inspector, at least once every eight years for external examination.
(b) [Reserved]

PART 38—LIQUEFIED FLAMMABLE GASES

Subpart 38.01—General

§ 38.01–1 Scope of regulations—TB/ALL.
38.01–2 Transportation of portable cylinders or portable tanks containing or having previously contained liquefied flammable gases in dry cargo spaces—TB/ALL.
38.01–3 Incorporation by reference.
38.01–5 Certificate of inspection—TB/ALL.

Subpart 38.05—Design and Installation

§ 38.05–1 Design and construction of vessels—general—TB/ALL.
§ 38.01-3 Incorporation by reference.

(a) Certain standards and specifications are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of change must be published in the Federal Register and the material made available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and is available from the

381
§ 38.01-5 Certificate of inspection—TB/ALL.

(a) The certificate of inspection shall be endorsed for the carriage of liquefied flammable gases as follows:

Inspected and approved for the carriage of liquefied flammable gases (1) at a pressure not to exceed —— p.s.i., and (2) at temperatures not less than ——°F.

(b) Tanks approved to carry cargoes at below ambient temperatures shall have the applicable limiting temperatures indicated on the certificate. Tanks designed to carry cargoes only at ambient temperatures should have the word “ambient” entered in these spaces.

Subpart 38.05—Design and Installation

§ 38.05-1 Design and construction of vessels—general—TB/ALL.

(a) Vessels designed for the carriage of liquefied gases shall comply with the applicable requirements of this subchapter.

(b) Access and ventilation intakes to the machinery, accommodation and working spaces should be so arranged as to prevent the flow of cargo vapor from the weather deck into such spaces. In this respect openings in the forward or after ends of poopies, forecastles, and deckhouses adjacent the cargo area shall be at least 24 inches above the cargo handling deck.

(c) Materials used in the fabrication of cargo tanks and piping shall have adequate notch toughness at the service temperature. Where a secondary barrier is required, the material of that barrier and of contiguous hull structure shall have sufficient notch toughness at the lowest temperature which may result during the containment of leakage cargo within the secondary barrier. Materials used in the fabrication of the cargo containment and handling system shall satisfy the requirements for toughness specified in subchapter F (Marine Engineering) of this chapter.

(d) Cargo tank spaces are to be isolated from the remainder of the vessel by cofferdams in accordance with §32.60-10 of this subchapter. In a non-pressure vessel configuration, the void between the primary and secondary barriers shall not be acceptable as the required cofferdam between the tank spaces and the main machinery spaces.

(e) Compartments containing cargo tanks or pipes shall be accessible from the weather deck only. No openings from these compartments to other parts of the vessel are permitted.

(f) Barges utilized for the carriage of liquefied gases shall be of Type II barge hull as defined in §32.63-5(b)(2) of this subchapter. The Commandant may, based on the properties of the liquefied gas to be carried, require a Type I barge hull, as defined in §32.63-5(b)(1) of this subchapter, to ensure the hull is consistent with the degree and nature of the hazard of the liquefied gas to be carried.

cargo tank. However, the service temperature shall in no case be taken higher than given by the following formula:

$$t_s = t_w - 0.25(t_w - t_b)$$

(1)

where:

- $t_s$ = Service temperature.
- $t_w$ = Boiling temperature of gas at normal working pressure of tank but not higher than +32°F.
- $t_b$ = Boiling temperature of gas at atmospheric pressure.

(c) Heat transmission studies, where required, shall assume the minimum ambient temperatures of 0°F still air and 32°F still water, and maximum ambient temperatures of 115°F still air and 90°F still water.

(d) Cargo tanks in vessels in ocean; Great Lakes; lakes, bays, and sounds; or coastwise service shall be designed to withstand, simultaneously, the following dynamic loadings:

1. Rolling 30° each side (120°) in 10 seconds.
2. Pitching 6° half amplitude (24°) in 7 seconds.
3. Heaving L/80 half amplitude (L/20) in 8 seconds.

(e) Cargo tanks on barges shall be designed in accordance with §32.63–25 of this subchapter.

(f) Each liquefied flammable gas tank shall be provided with not less than a 15-inch by 23-inch or an 18-inch nominal diameter manhole fitted with a cover located above the maximum liquid level and as close to the top of the tank as possible. Where access trunks are fitted to the tanks, the nominal diameter of the trunks shall be not less than 30 inches.

(g) Cargo tanks vented above 10 pounds per square inch gage shall be of the pressure vessel type.

§ 38.05–3 Design and construction of pressure vessel type cargo tanks—TB/ALL.

(a) Cargo tanks of pressure vessel configuration (e.g., cylindrical, spherical, etc.) shall be designed, fabricated, inspected, and tested in accordance with the applicable requirements of part 54 of subchapter F (Marine Engineering) of this chapter, except as otherwise provided for in this part.

(b) The requirements of this section anticipate that cargo tanks constructed as pressure vessels will, by themselves, constitute the cargo containment system and usually will not require a secondary barrier.

(c) In the design of the tank, consideration shall be given to the possibility of the tank being subjected to external loads. Consideration shall also be given to excessive loads that can be imposed on the tanks by their support due to static and dynamic forces under operating conditions or during testing. The design shall show the manner in which the tanks are to be installed, supported, and secured, and shall be approved prior to tank installation.

(d) Cargo tanks constructed as pressure vessels will, by themselves, constitute the cargo containment system and usually will not require a secondary barrier.

(e) Unlagged cargo tanks, where the cargo is transported, at or near ambient temperatures, shall be designed for the vapor pressure of the gas at 115°F. The design shall also be based on the minimum internal pressure (maximum vacuum), plus the maximum external static head to which the tank may be subjected. Whenever surrounding cargo is at a greater temperature than the maximum allowable temperature of the liquefied flammable gas tanks, the liquefied flammable gas cargo is to be such that the design pressure of the liquefied flammable gas tank is not exceeded.

(f) Where cargo tanks, in which the cargo is transported at or near ambient temperature, are lagged with an insulation material of a thickness to provide a thermal conductance of not more than 0.075 B.t.u. per square foot per degree Fahrenheit differential in temperature per hour, the tanks shall be designed for a pressure of not less than the vapor pressure of the gas at 105°F. The insulation material shall conform to the requirements of §38.05–20. The design shall also be based on the minimum internal pressure (maximum vacuum) plus the maximum external static head to which the tank may be subjected.

(g) Cargo tanks in which the temperature is maintained below the normal atmospheric temperature by refrigeration or other acceptable means shall be designed for a pressure of not
§ 38.05-4 Design and construction of nonpressure vessel type cargo tanks—TB/ALL.

(a) The requirements in this section anticipate a cargo containment system consisting of a primary tank which is structurally self-supporting and, where required, a secondary barrier. Other vessel or cargo tank configurations, such as membrane type liners externally supported, will be considered upon submission of substantiating data, and based upon such additional tests as the Commandant may direct.

(b) A secondary barrier is an arrangement or structure designed to contain the cargo temporarily if leakage develops in the primary container. A secondary barrier shall be provided where leakage from the primary container may cause lowering of the temperature of the ship's structure to an unsafe level. The secondary barrier shall be constructed of material suitable to contain the cargo at the service temperature.

(c) The design of the cargo containment systems shall be such that under normal service conditions, or upon failure of the primary tank, the hull structure shall not be cooled down to a temperature which is unsafe for the materials involved. Structural members not suitable for the service temperatures of the cargo shall be protected by a secondary barrier consisting of suitable structural containment together with necessary associated insulation. Heat transmission studies and tests may be required to demonstrate that the arrangement is feasible and that the final material temperatures are acceptable.

(d) The design and construction of the cargo tanks shall be at least equivalent to the standards established by the American Bureau of Shipping or other recognized classification society. For special tanks, or designs not contemplated by standards of the classification society, a detailed analysis of the entire tank, or designated parts thereof, shall be made and submitted to the Commandant for approval.

(e) The cargo tank shall be designed for a head of cargo at least equal to the highest level the liquid cargo may attain plus the maximum venting pressure. In no case shall a head of cargo less than 4 feet above the cargo hatch or expansion trunk be used.

(f) The design shall investigate the thermal stresses induced in the cargo tank during loading. Where necessary, devices for spray loading or other methods of precooling or cooling during loading shall be included in the design.

(g) All weld intersections or crossings in joints of primary tank shells shall be radiographed for a distance of 10 thicknesses from the intersection. All other welding in the primary tank and in the secondary barrier shall be spot radiographed in accordance with the requirements of part 54 of subchapter F (Marine Engineering) of this chapter.

§ 38.05-5 Markings—TB/ALL.

(a)(1) Upon satisfactory completion of tests and inspection, pressure vessel and nonpressure vessel type cargo tanks, shall have markings as required by §54.10-20 of subchapter F (Marine Engineering) of this chapter except that for nonpressure vessel type tanks,
the Coast Guard number and pressure vessel class shall be omitted.

(2) Hydrostatic test for pressure vessel type tanks shall be that specified in § 38.25–1(b). In the case of nonpressure vessel type tanks, the hydrostatic test pressure shall mean the pressure specified in § 38.25–1(d), while the maximum allowable pressure shall mean the maximum venting pressure as used in § 38.05–4(e). Where it is not feasible to attach the nameplate to the tank, it shall be conspicuously displayed nearby.

(b) All tank inlet and outlet connections, except safety relief valves, liquid level gaging devices, and pressure gages, shall be labeled to designate whether they terminate in the vapor or liquid space. Labels of corrosion-resistant material may be attached to valves.

(c) All tank markings shall be permanently and legibly stamped in a readily visible position, and shall not be obscured by painting. If the tanks are lagged, the markings attached to the tank proper shall be duplicated on a corrosion-resistant plate secured to the outside jacket of the lagging.

§ 38.05–10 Installation of cargo tanks—general—TB/ALL.

(a) Cargo tanks shall be supported on foundations of steel or other suitable material and securely anchored in place to prevent the tanks from shifting when subjected to external forces. Each tank shall be so supported as to prevent the concentration of excessive loads on the supporting portions of the shell or head as prescribed under § 38.05–2(d).

(b) Cargo tanks installed in barges shall comply with the requirements of § 32.63–25 of this subchapter.

(2) Cargo tanks installed in barges shall comply with the requirements of § 32.63–25 of this subchapter.

(2) Cargo tanks installed in barges shall comply with the requirements of § 32.63–25 of this subchapter.

(b) Foundations, and stays where required, shall be designed for support and constraint of the weight of the full tank, and the dynamic loads imposed thereon. Thermal movement shall also be considered.

(c) Foundations and stays which may be exposed to the cargo shall be suitable for the temperatures involved and be impervious to the cargo.

(d) The design of the foundations and stays shall consider the resonance of the cargo tank, or parts thereof, and the vibratory forces, found in the tank vessel. If necessary, effective damping arrangements shall be provided.

(e) Independent containment systems shall be so arranged as to provide a minimum clearance of not less than 24 inches from the vessel’s side and not less than 15 inches from the vessel’s bottom to provide access for inspection of the hull. Clearances for collision protection, where required by other parts of the regulations in this subchapter, may increase the clearances specified here.

(1) For pressure vessel type tanks the distance between adjacent tanks and between tanks and vessel’s structure shall be adequate to permit access for inspection and maintenance of all tank surfaces and hull structure as approved by the Commandant. Alternate provisions may be made for inspection and maintenance of the vessel’s structure and tanks by moving such tanks or by providing equivalent acceptable means for remote inspection.

(2) For nonpressure vessel type containment systems, access shall be arranged to permit inspection of one side each of the primary tank and secondary barrier, under normal shipyard conditions. Containment systems which, because of their peculiar design, cannot be visually inspected to this degree, may be specially considered provided an equivalent degree of safety is attained.

(f) Cargo tanks may be installed on deck, under deck, or with the tanks protruding through the deck. All tanks shall be installed with the manhole openings located in the open above the weather deck. Provided an equivalent degree of safety is attained, the Commandant may approve cargo tanks installed with manhole openings located below the weather deck.

(g) For pressure vessel type cargo tanks, the following conditions apply:

(1) Liquefied flammable gas cargo tanks may be located in cargo tanks or in spaces which meet the requirements for cofferdams as defined in § 30.10–13 of this subchapter. When liquefied flammable gas cargo tanks are installed in cargo tanks, such cargo tanks may be
476

§ 38.05-20 Insulation—TB/ALL.

(a) Where used, tank insulation shall satisfy the following requirements for combustibility, installation, and arrangement:

(1) Insulation in a location exposed to possible high temperature or source of ignition shall be either:

(i) Incombustible, complying with the requirements of subpart 164.009 of subchapter Q (Specifications) of this chapter; or,


(2) Insulation in a location protected against possible ignition by enclosure in a tight steel envelope in which inert conditions are maintained need satisfy no requirement for combustibility except chemical stability.

(3) Insulation in a location protected against possible high temperature or source of ignition by continuous surrounding structural voids or ballast tanks need satisfy no requirement for combustibility except chemical stability.

(b) All insulation shall be of a vapor-proof construction, or have a vapor-proof coating of a fire-retardant material acceptable to the Commandant. Unless the vapor barrier is inherently weather resistant, tanks exposed to the weather shall be fitted with a removable sheet metal jacket of not less than 0.083-inch thick over the vapor-proof coating and flashed around all openings so as to be weather tight. Weather resistant coatings shall have sheet metal over areas subject to mechanical damage.

(c) The insulation shall be adequately protected in areas of probable mechanical damage.

(d) Insulation which forms an integral part of the secondary barrier shall meet the following additional requirements:

(1) When the secondary barrier is called upon to contain the cargo, insulating material which is contacted shall not be affected by the cargo. Samples of the insulating material shall be tested in the cargo for solubility, absorption and shrinkage. The samples shall be checked for the above effects at intervals not exceeding 1 week, for a total test period of 6 weeks.

(2) Any adhesives, sealers, coatings, or vapor barrier compounds used in conjunction with the insulating material shall be similarly tested to insure suitable cargo resistive properties.

(3) The insulation shall have sufficient mechanical strength for the proposed design. Additionally, the thermal expansion of the insulation relative to the material to which it is affixed shall be considered in the design.
(e) The insulation for the piping systems shall be at least of the “self-extinguishing” type described in paragraph (a) of this section, and comply with the requirements contained in paragraphs (b) and (c) of this section.

§ 38.05-25 Refrigerated systems—TB/ALL.

(a) When a liquefied flammable gas is carried below atmospheric temperature under the requirements of § 38.05-3(f) or § 38.05-4, maintenance of the tank pressure below the maximum allowable pressure shall be provided by one or more of the following means:

1. A refrigeration or liquefaction system which regulates the pressure in the tanks. A standby compressor or equivalent equipment, of a capacity equal to one of the working units shall be provided.

2. A system whereby the vapors are utilized as fuel for shipboard use.

3. A system allowing the liquefied flammable gas to warm up and increase in pressure. The insulation and tank design pressure shall be adequate to provide for a suitable margin for the operating time and temperatures involved.

4. Other systems acceptable to the Commandant.

(b) A system whereby the vapors are vented to the atmosphere at sea only may be employed in conjunction with paragraph (a)(1) of this section. The pressure control valves shall be independent of the safety relief valves. See § 38.20-1(j).

Subpart 38.10—Piping, Valves, Fittings, and Accessory Equipment

§ 38.10-1 Valves, fittings, and accessories—TB/ALL.

(a) All valves, flanges, fittings, and accessory equipment shall be of a type suitable for use with liquefied flammable gases, and shall be made of steel or grade A malleable iron, acceptable for the service temperature and pressure according to the requirements of part 56 of subchapter F (Marine Engineering) of this chapter. Other materials may be specially considered and approved by the Commandant.

(b) All valves, flanges, fittings, and accessory equipment shall have a pressure rating at operating temperatures not less than the maximum allowable pressure to which they may be subjected. Piping which is not protected by a relief valve or which can be isolated from its relief valve by other valves shall be designed for the greatest of the cargo vapor pressure at 115°F, or the maximum allowable pressure of the cargo tank, or the requirements of § 38.10-10(a). Cargo liquid piping which may be subject to liquid full conditions shall be fitted with relief valves. The escape from piping systems relief valves shall be piped to a venting system or to a suitable vapor recovery system. Provision shall be made for the proper venting of all valves, fittings, etc., in which pressure buildup may occur, especially in refrigerated systems, because of an increase in product temperature.

(c) Welded connections shall be used wherever possible with the number of flanged joints kept to the minimum necessary for assembly and cleaning. Sockets in sizes 3 inches and smaller and slipon flanges in sizes 4 inches and smaller may be used. Threaded joints may be used in sizes of 1 inch and smaller. Where threaded joints are used, they shall be visible and accessible for inspection under all service conditions, and limited to instrument and control lines properly valved from the main lines. Where threaded joints are sealed by brazing or welding, they need not be exposed.

(d) Valve seat material, packing, gaskets, etc., shall be resistant to the action of the liquefied flammable gas. All flange and manhole cover gaskets shall be compressed asbestos, spiral-wound metal asbestos, metal jacketed asbestos, solid aluminum, corrugated steel, solid steel, or iron, or other materials with equal or better resistance to fire exposure.

(e) Provisions shall be made by the use of offsets, loops, bands, expansion joints, etc., to protect the piping and tank from excessive stress due to thermal movement and/or movements of the tank and hull structure. Expansion joints shall be held to a minimum and where used shall be of the bellows type and subject to special approval by the Commandant.
§ 38.10–1  46 CFR Ch. I (10–1–99 Edition)

(f) Low temperature piping shall be thermally isolated from the hull structure. Arrangements should provide for the protection of the hull structure from leaks in way of pumps, flanges, joints, etc.

(g) Each tank shall be provided with the necessary fill and discharge liquid and vapor shutoff valves, safety relief valve connections, refrigeration connections where necessary, liquid level gaging devices, thermometer well and pressure gage, and shall be provided with suitable access for convenient operation. Piping shall enter the cargo tanks above weather deck and as close to the top of the tank or dome as possible, except as otherwise permitted in this section. Connections to the tanks shall be protected against mechanical damage and tampering. No underdeck cargo piping shall be installed between the outboard side of the cargo containment system and the shell of the vessel, unless provision is made to maintain the minimum inspection and collision protection clearances of § 38.05–10(e) between the piping and the shell.

(h) Cargo loading and discharge piping may be connected to the tanks below the weather deck or below the liquid level subject to approval by the Commandant, provided:

(1) A remotely controlled quick-closing shutoff valve is flanged to the tank outlet connection. The control mechanism for this valve shall meet the requirements of § 38.10–5.

(2) The piping which is below the weather deck or liquid level shall be joined by welding except for a flanged connection to the quick-closing shutoff valve and a flanged connection to the cargo pump.

(3) The design and arrangement of this piping, including the flange bolting shall be such that excessive stresses will not be transmitted to the cargo tank outlet connection or the quick-closing valve, even in the event of abnormal displacement of the piping.

(4) Except for those vessels, the design of which permits the exclusion of a weather tight deck over the tanks, the space in which such piping is located shall be accessible only from the weather deck and shall be vented to a safe location above the weather deck.

(i) All connections to tanks, except safety relief valves and liquid level gaging devices, shall have manually operated shutoff valves located as close to the tank as possible. In addition, all liquid and vapor connections on pressure vessel type tanks except safety relief valves, liquid level gaging devices, and filling and discharge lines, shall be equipped with either an automatic excess flow valve or a remotely controlled quick-closing shutoff valve of the fail closed type. These valves, except when necessary for the operation of the system, shall remain closed. For pressure vessel type tanks operating at low pressure and with service temperature near the cargo atmospheric boiling point, the Commandant may approve individual installations where the liquid and vapor connections normally requiring automatic excess flow valves or remotely controlled quick-closing shutoff valves are fitted with manually operated shutoff valves only.

(j) The control system for quick-closing shutoff valves shall be provided with a remote control in at least two locations and be of a type acceptable to the Commandant. The control system shall also be provided with a fusible element designed to melt between 208°F and 220°F, which will cause the quick-closing shutoff valves to close in case of fire. The quick-closing shutoff valves shall be capable of local manual operation.

(k) Excess flow valves, where required by this subchapter, shall close automatically at the rated flow of vapor or liquid as specified by the manufacturer. The piping, including valves, fittings, and appurtenances protected by an excess flow valve, shall have a greater capacity than the rated flow of the excess flow valve.

(l) Liquid level gaging devices which are so constructed that outward flow of tank contents shall not exceed that passed by a No. 54 drill size (0.055-inch diameter) opening, need not be equipped with excess flow valves.

(m) Pressure gage connections need not be equipped with excess flow valves if the openings are not larger than No. 54 drill size (0.055-inch diameter).
Coast Guard, DOT

§ 38.10-10 Cargo piping—TB/ALL.

(a) The piping shall be designed for a working pressure of not less than the maximum pressure to which it may be subjected but in no case less than the design pressure of the cargo tanks. In the case of piping on the discharge side of the liquid pumps or vapor compressors, the design pressure shall not be less than the pump or compressor discharge relief valve setting; or, provided the piping is not protected by relief of the vessel, and having no pipe connections between the cargo tank spaces and the engineroom or boilerroom, except that eductors may be supplied from engineroom pumps.

(2) Secondary containment spaces of structurally self-supporting tanks shall be provided with suitable means for pumping out leaked cargo. These should be arranged so as to provide the following alternatives:

(i) Return of the cargo to the same primary tank or other tank.

(ii) Pumping the cargo off the ship either in port through a regular shore unloading connection or at sea overboard in a safe manner.

[CGFR 66-33, 31 FR 15269, Dec. 6, 1966, as amended by CGFR 68-82, 33 FR 18807, Dec. 18, 1968]

§ 38.10-5 Filling and discharge pipes—TB/ALL.

(a) Filling and discharge connections shall be provided with the manually operated valve required by § 38.10-1(i) and with a positive acting remote controlled quick-closing valve. The remote controlled quick-closing valve shall satisfy the requirements of § 38.10-1(j).

(b) For pressure vessel type tanks the remote controlled quick-closing valves shall be located on the inside of the tank or on the outside where the piping enters the tank. For pressure vessel type tanks operating at low pressure and with service temperature near the cargo atmospheric boiling point, the Commandant may approve individual installations where these valves are located at the loading and discharge headers.

(c) For nonpressure vessel type tanks the remote controlled quick-closing valves may be located at the loading and discharge headers.

§ 38.10-10 Cargo piping—TB/ALL.

(a) The piping shall be designed for a working pressure of not less than the maximum pressure to which it may be subjected but in no case less than the design pressure of the cargo tanks. In the case of piping on the discharge side of the liquid pumps or vapor compressors, the design pressure shall not be less than the pump or compressor discharge relief valve setting; or, provided the piping is not protected by relief...
§ 38.10-15 Safety relief valves—TB/ALL.

(a) Each tank shall be fitted with or (subject to approval by the Commandant) connected to one or more safety relief valves designed, constructed and flow tested for capacity in conformance with subpart 162.017 or 162.018 of subchapter Q (Specifications) of this chapter.

(b) Safety relief valves conforming to subpart 162.017 of subchapter Q (Specifications) of this chapter may be used on tanks for a maximum pressure of 10 pounds per square inch gage. Safety relief valves conforming to subpart 162.018 of subchapter Q (Specifications) of this chapter may be used for any pressure.

(c) The safety relief valves shall have a combined relieving capacity to discharge the greater of the following with not more than 20 percent rise in pressure (in the tank) above the maximum allowable pressure:

1. The vapors evaporated by an ambient air temperature of 115°F. plus the maximum flow rate of the cargo filling pipes.
2. The vapors generated under fire exposure computed using the formulas of §54.15-25(c) of subchapter F (Marine Engineering) of this chapter.

(d) The safety relief valves shall meet the arrangement and inspection requirements of §54.15-25 of subchapter F (Marine Engineering) of this chapter.

(e) Means shall be provided to protect nonpressure vessel tanks from excessive external pressure.

(f) Void spaces between the primary and secondary barriers of nonpressure vessel type tanks shall be protected by relief devices. The relief setting shall not be higher than the void test pressure, and shall not exceed 90 percent of the setting of the safety relief valve protecting the primary tank.

[CGFR 68-82, 33 FR 18807, Dec. 18, 1968]

§ 38.10-20 Liquid level gaging devices—TB/ALL.

(a) Each tank shall be fitted with a liquid level gaging device of approved design to indicate the maximum level to which the tank may be filled with liquid:

1. Between −20°F. and 130°F. for unrefrigerated service; or,
2. Within the operating temperature range for tanks operating below atmospheric temperature.

(b) Liquid level gaging devices may be of the following types: Rotary tube, slip tube, magnetic, automatic float, or similar types approved by the Commandant. Except as otherwise provided in this section, fixed tube devices are not acceptable as the primary gaging device.

(c) All gaging devices shall be arranged so that the maximum liquid level for product being carried, to which the tank may be filled is readily determinable. The maximum gallonage capacity as required by §38.15-1 shall be:

1. Marked on the tank system nameplate or gaging device; or,
2. Shown in the ullage tables.

(d) Gaging devices that require bleeding of the product to the atmosphere, such as the rotary tube, fixed tube, and slip tube, shall be so designed that the bleed valve maximum opening is not larger than a No. 54 drill size (0.055-inch diameter), unless provided with an excess flow valve.
Coast Guard, DOT

§ 38.15—5

(e) For pressure vessel type tanks each automatic float, continuous reading tape or similar type gage not mounted directly on the tank or dome shall be fitted with a shutoff device located as close to the tank as practicable. When an automatic float gaging device, which gages the entire height of the tank is used, a fixed tube gage set in the range of 85 percent to 90 percent of the water capacity of the tank shall be provided in addition as a means of checking the accuracy of the automatic float, gage, or other alternate means acceptable to the Commandant may be used.

(f) A gaging device shall be designed for a pressure at least equal to the maximum allowable pressure of the tank on which it is installed.

(g) Gage glasses of the columnar type are prohibited.

(h) Flat sight glasses may be used in the design of automatic float continuous reading tape gages: Provided, That such glasses shall be made of high strength material suitable for the operating temperatures of not less than one-half inch in thickness and adequately protected by a metal cover.

§ 38.15—1 Filling of tanks—TB/ALL.

(a) Refrigerated and semirefrigerated tanks shall be filled so that there is an outage of at least 2 percent of the volume of the tank at the temperature corresponding to the vapor pressure of the cargo at the safety relief valve setting. A reduction in the required outage may be permitted by the Commandant when warranted by special design considerations. Normally then, the maximum volume to which a tank may be loaded is:

\[ V_L = 0.98 \frac{d_r V}{d_L} \]

where:

- \( V_L \) = maximum volume to which tank may be loaded.
- \( V \) = volume of tank.
- \( d_r \) = density of cargo at the temperature required for a cargo vapor pressure equal to the relief valve setting.
- \( d_L \) = density of cargo at the loading temperature and pressure.

(b) Nonrefrigerated tanks shall be filled so that their filling densities shall not exceed the ratios indicated in Table 38.15-1(b).

(c) The “filling density” is defined as the percent ratio of the weight of the gas in a tank to the weight of water the tank will hold at 60°F.

### Table 38.15-1(b) Maximum Permissible Filling Densities for Tanks Operating at or Near Ambient Temperature

<table>
<thead>
<tr>
<th>Specific gravity at 60°F</th>
<th>Maximum permitted filling density</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unlagged tanks—water capacity</td>
</tr>
<tr>
<td></td>
<td>1,200 gal. and under</td>
</tr>
<tr>
<td>0.473–0.480</td>
<td>38 41 42</td>
</tr>
<tr>
<td>0.481–0.488</td>
<td>39 42 43</td>
</tr>
<tr>
<td>0.489–0.495</td>
<td>40 43 44</td>
</tr>
<tr>
<td>0.496–0.503</td>
<td>41 44 45</td>
</tr>
<tr>
<td>0.504–0.510</td>
<td>42 45 46</td>
</tr>
<tr>
<td>0.511–0.519</td>
<td>43 46 47</td>
</tr>
<tr>
<td>0.520–0.527</td>
<td>44 47 48</td>
</tr>
<tr>
<td>0.529–0.536</td>
<td>45 48 49</td>
</tr>
<tr>
<td>0.537–0.544</td>
<td>46 49 50</td>
</tr>
<tr>
<td>0.545–0.552</td>
<td>47 50 51</td>
</tr>
<tr>
<td>0.553–0.560</td>
<td>48 51 52</td>
</tr>
<tr>
<td>0.561–0.568</td>
<td>49 52 53</td>
</tr>
<tr>
<td>0.569–0.576</td>
<td>50 53 54</td>
</tr>
<tr>
<td>0.577–0.584</td>
<td>51 54 55</td>
</tr>
<tr>
<td>0.585–0.592</td>
<td>52 55 56</td>
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<tr>
<td>0.593–0.600</td>
<td>53 56 57</td>
</tr>
<tr>
<td>0.601–0.608</td>
<td>54 57 58</td>
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<tr>
<td>0.609–0.617</td>
<td>55 58 59</td>
</tr>
<tr>
<td>0.618–0.626</td>
<td>56 59 60</td>
</tr>
<tr>
<td>0.627–0.634</td>
<td>57 60 61</td>
</tr>
</tbody>
</table>

NOTE: Increase in filling densities to provide for seasonal changes may be considered by the Commandant upon presentation of factual evidence that safe operation can be effected.

§ 38.15—5 Cargo hose—TB/ALL.

(a) When the liquid and vapor line hoses used for loading and discharging the cargo are carried on board the vessel, they shall be of flexible metal and fabricated of seamless steel pipe and flexible joints of steel or bronze, or of other suitable material resistant to the action of the cargo. Hose used in refrigerated systems shall be suitable for the minimum temperature to which it may be subjected and shall be acceptable to the Commandant.

(b) Hose subject to tank pressure, or the discharge pressure of pumps or vapor compressors, shall be designed for a bursting pressure of not less than five times the maximum safety relief valve setting of the tank, pump, or compressor.

(c) Before being placed in service each new cargo hose, with all necessary
§ 38.15–10 Leak detection systems—T/ALL.

(a) A detection system shall be permanently installed to sense cargo leaks. The detectors shall be located within the space so as to permit the sensing of an initial leak and prevent an undetected gas accumulation. The sensitivity shall be in accordance with paragraph (b) of this section. The detectors shall be fitted in the following compartments:

1. Between the primary and secondary barriers for nonpressure vessel type tanks.
2. Cargo handling rooms and spaces containing cargo piping or cargo handling systems.
3. All enclosed spaces, except tanks and cofferdams, which are separated from the cargo tanks by only the secondary barrier.
4. Other spaces where gas concentrations might be expected.
5. Cargo holds, containing pressure vessel type tanks and no cargo piping, are exempt from the requirements of this paragraph.

(b) The indicating instruments for the detection system shall be located on the bridge or at the cargo control station. An audio and visual warning shall be given before any gas concentration reaches 30 percent of the lower explosive limit. The alarm shall indicate both on the bridge and at the cargo control station. Sampling of each detector shall be at least once every half hour.

(c) Means shall be provided to measure the full range of cargo gas concentration in the spaces.

§ 38.15–15 Electrical installations—T/ALL.

(a) All electrical installations shall comply with the requirements contained in this subchapter and in subchapter J (Electrical Engineering) of this chapter for tank vessels, except as otherwise specified in this part.

(b) Spaces containing cargo pumps, compressors, and piping are considered as equivalent to a tank vessel pump room, and no electrical devices, except Coast Guard approved intrinsically safe devices, shall be installed in these spaces. Electric motors shall be segregated from these spaces by a gastight bulkhead. Electric lighting of the explosion-proof type may be installed in these spaces provided all switching is done from outside the space.

(c) All cargo tanks, piping, valves, etc., shall be effectively grounded to the vessel’s hull. Tanks with an insulated inner shell (primary barrier) shall have an effective grounding bond to the outer shell (secondary barrier) or to the vessel’s hull.

(d) Electric submerged motor cargo pumps may be used, when in compliance with the following requirements and subject to approval by the Commandant.

1. Design details of the submerged motor pump, with an evaluation of the cooling efficiency of the product being pumped, shall be submitted.

2. Provisions shall be made to exclude air from the tanks containing cargo in either vapor or liquid phase. The pump motor shall be deenergized when this condition is not satisfied.

3. A liquid level sensing device shall automatically shut down the motor and sound an alarm at a predetermined low liquid level. The alarm location may be the station from which cargo handling is controlled or such other location outside the cargo area as is acceptable to the Commandant.

4. Details of the power cable, tank penetrations and pump connections shall be submitted.

5. An auxiliary means of emptying the cargo tanks shall be provided in accordance with §38.10–10(d).

6. Means for positively disconnecting the power supply between the switchboard and the pump power.
Coast Guard, DOT

§ 38.15–20 Remote shutdowns—TB/ALL.

(a) All machinery associated with cargo loading, unloading, or cooling shall be capable of being shut down from a remote location. This location may be the station from which the cargo handling is controlled or such other location outside the cargo area as is acceptable to the Commandant.

(b) [Reserved]

Subpart 38.20—Venting and Ventilation

§ 38.20–1 Venting—T/ALL.

(a) Each safety relief valve installed on a cargo tank shall be connected to a branch vent of a venting system which shall be constructed so that the discharge of gas will be directed vertically upward to a point which shall extend to a height above the weather deck equal to at least one-third the beam of the vessel and to a minimum of at least 10 feet, and shall terminate at a comparable distance from any other living or working space, ventilator inlet, or source of vapor ignition. When special conditions will prevent the vent line header outlets being permanently installed at a height above the deck of one-third the beam of the vessel, then an adjustable system shall be provided which, when extended vertically, shall be capable of reaching a height of one-third the beam of the vessel.

(b) The capacity of branch vents or vent headers shall depend upon the number of cargo tanks connected to such branch or header as provided for in the Table 38.20–1(b), and upon the total safety relief valve discharge capacity.

(c) In addition to the requirements specified in paragraphs (a) and (b) of this section, the size of the branch vents or vent headers, shall be such that the back pressure in the relief valve discharge lines shall not be more than 10 percent of the safety relief valve setting. In nonpressure vessel vent systems, however, where the maximum back pressure of 10 percent of the relief valve setting is insufficient to move the gases through any but an extremely large diameter vent pipe, the back pressure may exceed 10 percent provided:

(1) The pressure in the tank during venting does not exceed 120 percent of the tank maximum allowable pressure; and,

(2) The safety relief valve is sized to discharge the required capacity with the tank pressure and vent back pressure actually used.

(d) Return bends and restrictive pipe fittings are not permitted.

(e) Vents and headers shall be so installed as to prevent excessive stresses on safety relief valve mountings.

(f) The vent discharge riser shall be so located as to provide protection against mechanical injury and such discharge pipes shall be fitted with loose raincaps or other suitable means to prevent entrance of rain or snow.

(g) No valve of any type shall be fitted in the vent pipe between the safety relief valve and the vent outlets.

(h) Provisions shall be made to drain condensate from the vent header piping. Special precautions shall be taken that condensate does not accumulate at or near the relief valves.

(i) Relief valves discharging liquid cargo shall not be connected to the
§ 38.20–5 Venting—T/ALL.

(a) Safety relief valves on cargo tanks in barges may be connected to individual or common risers which shall extend to a reasonable height above the deck. An alternate arrangement consisting of a branch vent header system as required by § 38.20–1 may be installed. In any case, the provisions of § 38.20–1 (d) through (j) shall apply.

(b) Arrangements providing for venting cargo tanks at sea on unmanned barges will be considered by the Commandant upon presentation of plans.

§ 38.20–10 Ventilation—T/ALL.

(a) A power ventilation system shall be provided for compartments containing pumps, compressors, pipes, control spaces, etc. connected with the cargo handling facilities. These compartments shall be ventilated in such a way as to remove vapors from points near the floor level or bilges, or other areas where vapor concentrations may be expected. The compartments shall be equipped with power ventilation of the exhaust type having capacity sufficient to effect a complete change of air in not more than 3 minutes equal to the volume of the compartment and associated trunks.

(b) The power ventilation units shall not produce a source of vapor ignition in either the compartment or the ventilation system associated with the compartment. Inlets to exhaust ducts shall be provided and located at points where concentrations of vapors may be expected. Ventilation from the weather deck shall be provided. Ventilation outlets shall terminate away from any openings to the interior part of the vessel a lateral distance at least equal to that specified in § 38.20–1(a). These outlets shall be so located as to minimize the possibility of recirculating contaminated air through the compartment.

(c) Means shall be provided for purging the following spaces of cargo vapors:

(1) The space surrounding nonpressure vessel type tanks, i.e., within the secondary barrier.

(2) The space surrounding pressure vessel type tanks whose piping connections are below the weather deck in accordance with § 38.10–1(h).

(3) The space surrounding tanks whose manhole openings are below the weather deck in accordance with § 38.05–10(f).

(d) Power ventilation shall be provided for each auxiliary machinery or working space located on and accessible from the cargo handling deck. Such ventilation systems shall be designed to preclude the entry of cargo vapors into the space via the open access or the ventilation system itself.

Subpart 38.25—Periodic Tests and Inspections

§ 38.25–1 Tests and inspections—T/B/ALL.

(a) Each tank shall be subjected to the tests and inspections described in this section in the presence of a marine inspector, except as otherwise provided in this part.

(1) An internal inspection of the tank is conducted within—

(i) Ten years after the last internal inspection if the tank is a pressure vessel type cargo tank on an unmanned barge carrying cargo at temperatures of −67 °F (−55 °C) or warmer; or

(ii) Eight years after the last internal inspection if the tank is of a type other than that described in paragraph (a)(1)(i) of this section.

(2) An external examination of unlagged tanks and the visible parts of lagged tanks shall be made at each inspection for certification and at such other times as considered necessary.

(3) The owner shall ensure that the amount of insulation deemed necessary by the marine inspector is removed
Coast Guard, DOT § 38.25-10

from insulated tanks during each internal inspection to allow spot external examination of the tanks and insulation, or the thickness of the tanks may be gauged by a nondestructive means accepted by the marine inspector without the removal of insulation.

(4) If required by the Officer in Charge, Marine Inspection, the owner shall conduct nondestructive testing of each tank in accordance with §38.25-3.

(5) If the tank is a pressure vessel type cargo tank with an internal inspection interval of 10 years, is 30 years old or older, determined from the date it was built, the owner shall conduct nondestructive testing of that tank, in accordance with §38.25-3, during each internal inspection.

(b) If the marine inspector considers a hydrostatic test necessary to determine the condition of the tank, the owner shall perform the test at a pressure of 1½ times the tank's—

(1) Maximum allowable pressure, as determined by the safety relief valve setting; or

(2) Design pressure, when cargo tanks operate at maximum allowable pressures reduced below the design pressure in order to satisfy special mechanical stress relief requirements.

NOTE: See the ASME Code, Section VIII, Appendix 3 for information on design pressure.

(c) For pressure vessels designed and/or supported such that they cannot safely be filled with water, the Commandant will consider a pneumatic test in lieu of the hydrostatic test. A leak test shall be performed in conjunction with the pneumatic test. Pneumatic testing shall be in accordance with subchapter F (Marine Engineering) of this chapter.

(d) Nonpressure vessel type tanks shall be tested to a pressure equal to the pressure on the bottom of the tank under the design conditions listed in §38.05-4(e).

(e) In the application of the requirements for testing of the cargo tanks, the test shall in no case be less severe than the worst anticipated service condition of the cargo loading.

(f) In the design and testing of the independent cargo tanks, consideration shall be given to the possibility of the independent tanks being subjected to external loads.


§38.25-3 Nondestructive testing—TB/ALL.

(a) Before nondestructive testing may be conducted to meet §38.25-1(a)(4) and (a)(5), the owner shall submit a proposal to the Officer in Charge, Marine Inspection for acceptance that includes—

(1) The test methods and procedures to be used, all of which must meet section V of the ASME Boiler and Pressure Vessel Code (1986);

(2) Each location on the tank to be tested; and

(3) The test method and procedure to be conducted at each location on the tank.

(b) If the Officer in Charge, Marine Inspection rejects the proposal, the Officer in Charge, Marine Inspection informs the owner of the reasons why the proposal is rejected.

(c) If the Officer in Charge, Marine Inspection accepts the proposal, then the owner shall ensure that—

(1) The proposal is followed; and

(2) Nondestructive testing is performed by personnel meeting ASNT "Recommended Practice No. SNT-TC-1A (1988), Personnel Qualification and Certification in Nondestructive Testing."

(d) Within 30 days after completing the nondestructive test, the owner shall submit a written report of the results to the Officer in Charge, Marine Inspection.

[CGD 85-061, 54 FR 50963, Dec. 11, 1989]

§38.25-5 Removal of defective tanks—TB/ALL.

If a tank fails to pass the tests prescribed in this subpart, it shall be removed from service unless otherwise authorized by the Commandant.

§38.25-10 Safety relief valves—TB/ALL.

(a) The cargo tank safety relief valves shall be inspected at least once in every 2 years.
(b) The safety relief valve discs must be lifted from their seats in the presence of a marine inspector by either liquid, gas, or vapor pressure at least once every 5 years to determine the accuracy of adjustment and, if necessary, must be reset.


PART 39—VAPOR CONTROL SYSTEMS

Subpart 39.10—General

Sec.
39.10-1 Applicability—TB/ALL.
39.10-3 Definitions—TB/ALL.
39.10-5 Incorporation by reference—TB/ALL.
39.10-9 Vessel vapor processing unit—TB/ALL.
39.10-11 Personnel training—TB/ALL.
39.10-13 Submission of vapor control system designs—TB/ALL.

Subpart 39.20—Design and Equipment

39.20-1 Vapor collection system—TB/ALL.
39.20-3 Cargo gauging system—TB/ALL.
39.20-7 Tankship liquid overfill protection—TB/ALL.
39.20-9 Tank barge liquid overfill protection—TB/ALL.
39.20-11 Vapor overpressure and vacuum protection—TB/ALL.
39.20-13 High and low vapor pressure protection for tankships—TB/ALL.

Subpart 39.30—Operations

39.30-1 Operational requirements—TB/ALL.

Subpart 39.40—Lightering and Topping-Off Operations with Vapor Balancing

39.40-1 General requirements for vapor balancing—TB/ALL.
39.40-3 Design and equipment for vapor balancing—TB/ALL.
39.40-5 Operational requirements for vapor balancing—TB/ALL.


SOURCE: CGD 88-102, 55 F.R. 25446, June 21, 1990, unless otherwise noted.
Coast Guard, DOT § 39.10−5

Lightering or lightering operation means the transfer of a bulk liquid cargo from a tank vessel to a service vessel.

Marine Safety Center means the Commanding Officer, U.S. Coast Guard Marine Safety Center, 400 Seventh Street, SW., Washington, DC 20590−0001.

Maximum allowable transfer rate means the maximum volumetric rate at which a vessel may receive cargo or ballast.

New vapor collection system means a vapor collection system which is not an existing vapor collection system.

Service vessel means a vessel which transports bulk liquid cargo between a facility and another vessel.

Topping−off operation means the transfer of a bulk liquid cargo from a service vessel to another vessel in order to load the receiving vessel to a deeper draft.

Vapor balancing means the transfer of vapor displaced by incoming cargo from a vessel's cargo tanks and to transport the vapor to a vapor processing unit.

Vapor control system means an arrangement of piping and equipment used to control vapor emissions collected from a vessel. It includes the vapor collection system and vapor processing unit.

Vapor processing unit means the components of a vapor control system that recovers, destroys, or disperses vapor collected from a vessel.

Vessel vapor connection means the point in a vessel's fixed vapor collection system where it connects with the vapor collection hose or arm.

§ 39.10−5 Incorporation by reference—TB/ALL.

(a) Certain materials are incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than the one listed in paragraph (b) of this section, notice of change must be published in the Federal Register and the material made available to the public. All approved material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC and at the U.S. Coast Guard, Office of Operating and Environmental Standards (G−MSO), 2100 Second Street, SW., Washington, DC 20593−0001, and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part, and the sections affected are:

American Petroleum Institute (API),
1220 L Street NW., Washington, DC 20005


American National Standards Institute (ANSI),
11 West 42nd Street, New York, NY 10036

ANSI B16.5, Steel Pipe Flanges and Flanged Fittings, 1981 ........................................ 39.20−1

American Society for Testing and Materials (ASTM),
100 Barr Harbor Drive, West Conshohocken, PA 19428−2959


International Electrotechnical Commission (IEC), Bureau Central de la Commission Electrotechnique Internationale, 1 rue de Varembe, Geneva, Switzerland


IEC 309−2−Plugs, Socket−Outlets and Couplers for Industrial Purposes: Part 2, Dimensional Interchangeability Requirements for Pin and Contact−tube Accessories, 1981 ......................... 39.20−9

National Electrical Manufacturers Association (NEMA), 2101 L St. NW., Washington, DC 20036

ANSI/NEMA WD6−Wiring Devices, Dimensional Requirements, 1988 .............................. 39.20−9
§ 39.10–9

Vessel vapor processing unit—TB/ALL.

Each vessel which has a vapor processing unit located on board must meet the requirements of 33 CFR part 154, subpart E to the satisfaction of the Commandant (G–MSO) in addition to complying with the requirements of this part.


§ 39.10–11 Personnel training—TB/ALL.

(a) A person in charge of a transfer operation utilizing a vapor collection system must have completed a training program covering the particular system installed on the vessel. Training must include drills or demonstrations using the installed vapor control system covering normal operations and emergency procedures.

(b) The training program required by paragraph (a) of this section must cover the following subjects:

(1) Purpose of a vapor control system;
(2) Principles of the vapor control system;
(3) Components of the vapor control system;
(4) Hazards associated with the vapor control system;
(5) Coast Guard regulations in this part;
(6) Operating procedures, including:
   (i) Testing and inspection requirements,
   (ii) Pre-transfer procedures,
   (iii) Connection sequence,
   (iv) Start-up procedures,
   (v) Normal operations; and
(7) Emergency procedures.


§ 39.10–13 Submission of vapor control system designs—TB/ALL.

(a) Plans, calculations, and specifications for a new vessel vapor collection system must be submitted to the Marine Safety Center for approval prior to installation.

(b) An existing vapor collection system installation that has been Coast Guard approved to transfer cargo vapor to specific facilities must be reviewed and approved by the Marine Safety Center prior to transferring vapors to other facilities.

(c) The owners/operators of a foreign flag vessel may submit certification by the classification society which classes the vessel that the vessel meets the requirements of this part as an alternative to meeting the requirements in paragraphs (a) and (b) of this section.

(d) Upon satisfactory completion of plan review and inspection of the vapor collection system or receipt of the certification provided for in paragraph (d) of this section, the Officer in Charge, Marine Inspection, shall endorse the Certificate of Inspection for U.S. flag vessels, or the Certificate of Compliance for foreign flag vessels, that the vessel is acceptable for collecting the vapor from crude oil, gasoline blends, and benzene, or any other vapor it is found acceptable to collect.


Subpart 39.20—Design and Equipment

§ 39.20–1 Vapor collection system—TB/ALL.

(a) Each vapor collection system must meet the following requirements:

(1) Except as allowed by paragraph (a)(3) of this section or the Commandant (G–MSO), vapor collection piping must be permanently installed, with the vessel’s vapor connection located as close as practical to the loading manifold;
Coast Guard, DOT § 39.20–3

(2) If the vessel collects vapors from incompatible cargoes simultaneously, it must keep the incompatible vapors separate throughout the entire vapor collection system;

(3) A vessel certified to carry cargo listed in Table 151.05 of part 151 or Table 1 of part 153 of this chapter may have vapor connections located in the vicinity of each tank in order to preserve segregation of cargo systems, in lieu of common header piping;

(4) A means must be provided to eliminate liquid condensate which may collect in the system, such as draining and collecting liquid from each low point in the line;

(5) Vapor collection piping must be electrically bonded to the hull and must be electrically continuous; and

(6) An inerted tankship must have a means to isolate the inert gas supply from the vapor collection system. The inert gas main isolation valve required by SOLAS 74, as amended, chapter II–2, Regulation 62.10.8 may be used to satisfy this requirement.

(b) The vapor collection system must not interfere with the proper operation of the cargo tank venting system.

(c) An isolation valve capable of manual operation must be provided at the vessel vapor connection. The valve must have an indicator to show clearly whether the valve is in the open or closed position, unless the valve position can be readily determined from the valve handle or valve stem.

(d) The last 1.0 meter (3.3 feet) of vapor piping before the vessel vapor connection must be:

(1) Painted red/yellow/red with:
   (i) The red bands 0.1 meter (0.33 feet) wide, and
   (ii) The middle yellow band 0.8 meter (2.64 feet) wide; and

(2) Labeled “VAPOR” in black letters at least 50 millimeters (2 inches) high.

(e) Each vessel vapor connection flange must have a permanently attached 0.5 inch diameter stud at least 1.0 inch long projecting outward from the flange face. The stud must be located at the top of the flange, midway between bolt holes, and in line with the bolt hole pattern.

(f) Each hose used for transferring vapors must:

(1) Have a design burst pressure of at least 25 psig;

(2) Have a maximum allowable working pressure of at least 5 psig;

(3) Be capable of withstanding at least 2.0 psi vacuum without collapsing or constricting;

(4) Be electrically continuous with a maximum resistance of ten thousand (10,000) ohms;

(5) Have flanges with:
   (i) A bolt hole arrangement complying with the requirements for 150 pound class ANSI B16.5 flanges, and
   (ii) One or more 0.625 inch diameter holes in the flange located midway between bolt holes and in line with the bolt hole pattern;

(6) Be abrasion resistant and resistant to kinking; and

(7) Have the last 1.0 meter (3.3 feet) of each end of the vapor hose marked in accordance with paragraph (d) of this section.

(g) Vapor hose handling equipment must be provided with hose saddles which provide adequate support to prevent kinking or collapse of hoses.

§ 39.20–3 Cargo gauging system—TB/AL.

(a) Each cargo tank of a tank vessel that is connected to a vapor collection system must be equipped with a cargo gauging device which:

(1) Provides a visual indication of the liquid level in the tank for the full range of liquid levels in the tank;

(2) Indicates the liquid level in the tank at the location where cargo transfer is controlled; and

(3) Provides a visual indication of the liquid level in the cargo tank when the
§ 39.20–7 Tankship liquid overfill protection—T/ALL.

(a) Each cargo tank of a tankship must be equipped with an intrinsically safe high level alarm and a tank overfill alarm.

(b) The high level alarm and tank overfill alarm required by paragraph (a) of this section, if installed after July 23, 1990 must:

(1) Be independent of each other;

(2) Alarm in the event of loss of power to the alarm system or failure of electrical circuitry to the tank level sensor; and

(3) Be able to be checked at the tank for proper operation prior to each transfer or contain an electronic self-testing feature which monitors the condition of the alarm circuitry and sensor.

(c) The high level alarm required by paragraph (a) of this section must:

(1) Alarm before the tank overfill alarm, but no lower than 95 percent of tank capacity;

(2) Be identified with the legend “High Level Alarm” in black letters at least 50 millimeters (2 inches) high on a white background; and

(3) Have audible and visible alarm indications that can be seen and heard on the vessel where cargo transfer is controlled.

(d) The tank overfill alarm required by paragraph (a) of this section must:

(1) Be independent of the cargo gauging system;

(2) Have audible and visible alarm indications that can be seen and heard on the vessel where cargo transfer is controlled and in the cargo deck area;

(3) Be identified with the legend “TANK OVERFILL ALARM” in black letters at least 50 millimeters (2 inches) high on a white background; and

(4) Alarm early enough to allow the person in charge of transfer operations to stop the transfer operation before the cargo tank overflows.

(e) If a spill valve is installed on a cargo tank fitted with a vapor collection system, it must meet the requirements of §39.20–9(c) of this part.

(f) If a rupture disk is installed on a cargo tank fitted with a vapor collection system, it must meet the requirements of §39.20–9(d) of this part.

§ 39.20–9 Tank barge liquid overfill protection—B/ALL.

Each cargo tank of a tank barge must have one of the following liquid overfill protection arrangements.

(a) A system meeting the requirements of §39.20–7 of this part which:

(1) Includes a self-contained power supply;

(2) Is powered by generators installed on the barge; or

(3) Receives power from a facility and is fitted with a shore tie cable and a 120 volt 20 amp explosion-proof plug which meets:

(i) ANSI/NEMA WD6;

(ii) NFPA 70, Articles 410-57 and 501–12; and

(iii) §111.105–9 of this chapter.

(b) An intrinsically safe overfill control system which:

(1) Is independent of the cargo gauging device required by §39.20–3(a) of this part;

(2) Actuates an alarm and automatic shutdown system at the facility overfill control panel, or on the vessel to be lightered if a lightering operation, 60 seconds before the tank becomes 100 percent liquid full;

(3) Is able to be checked at the tank for proper operation prior to each loading;

(4) Consists of components which, individually or in series, will not generate or store a total of more than 1.2 V, 0.1 A, 25 mW, or 20 microjoules;

(5) Has at least one tank overfill sensor switch with normally closed contacts per cargo tank;

(6) Has all tank overfill sensor switches connected in series;

(7) Has interconnecting cabling that meets §111.105–15(b) of this chapter; and

(8) Has a male plug with a 5 wire, 16 amp connector body meeting IEC 309–1/309–2 which is:
Coast Guard, DOT

§ 39.30-1

Operational requirements—TB/ALL.

(a) Vapor from a tank vessel may not be transferred to:
   (1) A facility in the United States which does not have its letter of adequacy endorsed as meeting the requirements of 33 CFR part 154, subpart E; or...
(2) In the case of a lightering or topping off operation, a vessel which does not have its certificate of inspection or certificate of compliance endorsed as meeting the requirements of this part.

(b) The pressure drop through the vapor collection system from the most remote cargo tank to the vessel vapor connection must be:

(1) Determined for each cargo handled by the vapor collection system at the maximum transfer rate and at lesser transfer rates;

(2) Based on a 50 percent cargo vapor and air mixture, and a vapor growth rate appropriate for the cargo being loaded; and

(3) Included in the vessel's oil transfer procedures as a table or graph showing the liquid transfer rate versus the pressure drop.

(c) If a vessel carries vapor hoses, the pressure drop through the hoses must be included in the pressure drop calculations required by paragraph (b) of this section.

(d) The rate of cargo transfer must not exceed the maximum allowable transfer rate as determined by the lesser of the following:

(1) Eighty (80) percent of the total venting capacity of the pressure relief valves in the cargo tank venting system when relieving at the set pressure required by §39.20-11(a) of this part;

(2) The total vacuum relieving capacity of the vacuum relief valves in the cargo tank venting system when relieving at the set pressure required by §39.20-11(a) of this part;

(3) The rate based on pressure drop calculations at which, for a given pressure at the facility vapor connection, or if lightering at the vapor connection of the vessel receiving cargo, the pressure in any cargo tank connected to the vapor collection system exceeds 80 percent of the setting of any pressure relief valve in the cargo tank venting system.

(4) A cargo tank must not be filled higher than:

(1) 98.5 percent of the cargo tank volume; or

(2) The level at which an overfill alarm complying with §39.20-7 or §39.20-9(b)(2) of this part is set.

(5) A cargo tank must not be opened to the atmosphere during cargo transfer operations except as provided in paragraph (g) of this section.

(g) A cargo tank may be opened to the atmosphere for gauging or sampling while a tank vessel is connected to a vapor control system if the following conditions are met:

(1) The cargo tank is not being filled;

(2) Except when the tank is inerted, any pressure in the cargo tank vapor space is first reduced to atmospheric pressure by the vapor control system;

(3) The cargo is not required to be closed or restricted gauged by Table 151.05 of part 151 or Table 1 in part 153 of this chapter; and

(4) For static accumulating cargo, all metallic equipment used in sampling or gauging is electrically bonded to the vessel before it is put into the tank, remains bonded to the vessel until it is removed from the tank, and if the tank is not inerted, a period of 30 minutes has elapsed since loading of the tank was completed.

(h) If a vessel carries vapor hoses, the pressure drop through the hoses must be included in the pressure drop calculations required by paragraph (b) of this section.

(i) If a vessel carries vapor hoses, the pressure drop through the hoses must be included in the pressure drop calculations required by paragraph (b) of this section.

(j) If cargo vapor is collected by a facility that requires the vapor from the vessel to be inerted in accordance with 33 CFR 154.820(a) or (b), the oxygen content in the vapor space of each cargo tank connected to the vapor collection system must not exceed 8 percent by volume at the start of cargo transfer. The oxygen content of each tank must be measured at a point one meter (3.28 feet) below the tanktop and at a point equal to one-half of the ullage. Where tanks have partial bulkheads, the oxygen content of each area of that tank formed by each partial bulkhead must be measured at a point one meter (3.28 feet) below the tanktop and at a point equal to one-half of the ullage.

(k) If the vessel is equipped with an inert gas system, the isolation valve required by §39.20-1(a)(6) of this part must remain closed during vapor transfer.

(l) Unless equipped with an automatic self-test and circuit monitoring feature, each high level alarm and tank overfill alarm required by §39.20-7 or
§ 39.20–9 of this part, on a cargo tank being loaded, must be tested at the tank for proper operation within 24 hours prior to the start of cargo transfer.


Subpart 39.40—Lightering and Topping-Off Operations with Vapor Balancing

§ 39.40–1 General requirements for vapor balancing—TB/ALL.

(a) Except as provided in paragraph (b) of this section, each vessel which uses vapor balancing while conducting a lightering or topping-off operation must meet the requirements of this subpart in addition to the requirements of subparts 39.10, 39.20, and 39.30 of this part.

(b) An arrangement to control vapor emissions during a lightering or topping-off operation which does not use vapor balancing must receive approval from the Commandant (G–MSO).

(c) A vapor balancing operation must not use a compressor or blower to assist vapor transfer without approval from the Commandant (G–MSO).

(d) Vapor balancing is prohibited when the cargo tanks on a vessel discharging cargo and a vessel receiving cargo are inerted and the cargo tanks on a vessel receiving cargo are not inerted.

(e) A vessel which intends to engage in a lightering or topping-off operation while collecting cargo vapor from other than crude oil, gasoline, or benzene must receive specific approval from the Commandant (G–MSO).


§ 39.40–3 Design and equipment for vapor balancing—TB/ALL.

(a) If the cargo tanks on a vessel discharging cargo and a vessel receiving cargo are inerted, the service vessel must:

1. Have a means to inert the vapor transfer hose prior to transferring cargo vapor; and

2. Have an oxygen analyzer with a sensor or sampling connection fitted within 3 meters (9.74 ft.) of the vessel vapor connection which:

(i) Activates an audible and visible alarm at a location on the service vessel where cargo transfer is controlled when the oxygen content in the vapor collection system exceeds 8 percent by volume;

(ii) Has an oxygen concentration indicator located on the service vessel where the cargo transfer is controlled; and

(iii) Has a connection for injecting a span gas of known concentration for calibration and testing of the oxygen analyzer.

(b) If the cargo tanks on a vessel discharging cargo are not inerted, the vapor collection line on the service vessel must be fitted with a detonation arrester that meets the requirements of 33 CFR 154.822(a) located within 3 meters (9.74 ft.) of the vessel vapor connection.

(c) An electrical insulating flange or one length of non-conductive hose must be provided between the vessel vapor connection on the service vessel and the vapor connection on the vessel being lightered or topped-off.

§ 39.40–5 Operational requirements for vapor balancing—TB/ALL.

(a) During a lightering or topping-off operation each cargo tank being loaded must be connected by the vapor collection system to a cargo tank which is being discharged.

(b) If the cargo tanks on both the vessel discharging cargo and the vessel receiving cargo are inerted, the following requirements must be met:

1. Each tank on a vessel receiving cargo which is connected to the vapor collection system must be tested prior to cargo transfer to ensure that the oxygen content in the vapor space does not exceed 8 percent by volume. The oxygen content of each tank must be measured at a point one meter (3.28 feet) below the tanktop and at a point equal to one-half of the ullage. Where tanks have partial bulkheads, the oxygen content of each area of that tank formed by each partial bulkhead must be measured at a point one meter (3.28 feet) below the tanktop and at a point equal to one-half of the ullage;
(2) The oxygen analyzer required by §39.40-3(a) must be tested for proper operation prior to the start of each transfer operation;

(3) The oxygen content of vapors being transferred must be continuously monitored during the transfer operation;

(4) Cargo transfer must be terminated if the oxygen content exceeds 8 percent by volume and must not be restarted until the oxygen content in the tanks of the vessel receiving cargo is reduced to 8 percent by volume or less; and

(5) The vapor transfer hose must be purged of air and inerted prior to starting vapor transfer.

(c) The isolation valve, required by §39.20-1(c) of this part, located on the service vessel must not be opened until the pressure in the vapor collection system on the vessel discharging cargo exceeds the pressure in the vapor collection system on the vessel discharging cargo.

(d) The cargo transfer rate must be controlled from the vessel discharging cargo, and must not exceed the maximum allowable transfer rate for the vessel receiving cargo.

(e) The pressure in the vapor space of any cargo tank connected to the vapor collection line on either the vessel receiving cargo or the vessel discharging cargo must not exceed 80 percent of the lowest setting of any pressure relief valve during ballasting or cargo transfer.

(f) All impressed current cathodic protection systems must be deenergized during cargo transfer operations.

(g) Tank washing is prohibited unless the cargo tanks on both the vessel discharging cargo and the vessel receiving cargo are inerted or the tank is isolated from the vapor collection line.

INDEX

SUBCHAPTER D—TANK VESSELS

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Transportation.

Part, subpart, or section

A

Accident or casualty report ................................................................. Subpart 35.15
Accommodations for crew .................................................................. Subpart 32.40
Application .......................................................................................... 32.40-1
Construction ........................................................................................ 32.40-15
Heating and cooling ............................................................................ 32.40-50
Hospital space ..................................................................................... 32.40-35
Insect screens ....................................................................................... 32.40-55
Location of Crew spaces .................................................................... 32.40-10
Messrooms ............................................................................................ 32.40-30
On tankships constructed before June 15, 1987 .................................. 32.40-65
On tankships of less than 100 gross tons and manned tank barges ....... 32.40-60
Other spaces ....................................................................................... 32.40-40
Sleeping Accommodations ................................................................ 32.40-20
Washrooms and toilet rooms .............................................................. 32.40-25

Aids to Navigation:

Charts or information regarding ....................................................... 35.20-1
Coast pilots .......................................................................................... 35.20-1
Current tables ...................................................................................... 35.20-1
Light lists .............................................................................................. 35.20-1
Nautical publications .......................................................................... 35.20-1
Notice to Mariners .............................................................................. 35.20-1
Sailing directions ............................................................................... 35.20-1
Tide tables ........................................................................................... 35.20-1
Air compressor .................................................................................. 32.35-15, 35.35-85
Alarm bells ......................................................................................... 32.25
Marking required .............................................................................. 35.40-5
Switches, markings of ........................................................................ 35.40-1
Alarm systems .................................................................................... Subpart 32.25
Alcohol or drugs, used by crew ........................................................... 35.05-25
Alterations and repairs, regulations governing .................................. 30.01-10, 31.10-25
American Bureau of Shipping ............................................................. 31.10-1

Annual inspection:

Application for: ............................................................................... 31.01-15
Fire extinguishers ............................................................................. 31.10-18
Anode installations, sacrificial ......................................................... 35.01-25
Appeal right of .................................................................................. 30.20-50
Application for inspection ............................................................... 30.01-15, 31.10-20
Application, electrical installations Subpart 32.45
Application of regulations:

Governing alterations and repairs .................................................... 30.01-10
Vessels on an international voyage .................................................. 30.01-6
Approved, definition ....................................................................... 30.10-3
Cargo handling: 
Cargo gear inspection ........................................................................... 30.10-16, 31.37 
Cargo gear certificates or registers ........................................ 30.10-16, Subpart 31.37 
Cargoes regulated ................................................................................. Subpart 30.25 
Cargoes elevated temperatures .................................................................. Part 36 
Cargo discharge ................................................................................................ 32.5-3 
Cargo definition .............................................................................................. 30.10-5 
Cargo gear certificates or registers ........................................ 31.10-16, Subpart 31.37 
Cargo gear inspection ............................................................................. Subpart 31.37 
Cargo handling: 
Equipment maintenance ........................................................................ 35.35-70 
General ........................................................................................................ 35.35 
Liquefied petroleum gases ........................................................................ Subpart 38.15 
Loading information .................................................................................. 35.35 
Safety requirements .................................................................................... 35.30 
Unmanned tank barges .................................................................................. 35.35-1 
Cargo handling room, definitions........................................................... 30.10-6 

46 CFR Ch. I (10–1–99 Edition)
Subchapter D Index

Cargo hose ........................................................................................................ 35.35-15, 35.35-70, 38.15-5
Cargo piping ...................................................................................................... 40.15-1, 38.10-10
Cargo pumps .................................................................................................... Subpart 32.50
Cargo pump relief valves .................................................................................. 36.10-1
Cargo pump, testing of .................................................................................. 35.35-70
Cargo tank hatches, ullage holes and Butterworth plates, safety rules regard-
ging .................................................................................................................. 35.30-10
Cargo tanks:
Construction and testing of ........................................................................ 32.60-40, 32.65-40, 32.70-25, 32.75-10
Design and installation of ............................................................................. 38.05
Electric bonding and grounding of ............................................................... 32.75-15
Filling densities ............................................................................................... 38.15-1
Fire extinguishing systems for ...................................................................... 34.05-5
Hydrostatic test of .......................................................................................... 38.25-1
Installation for carrying liquids at elevated temperatures ......................... 36.05-1
Independent .................................................................................................. 32.60-30, 32.65-30, 32.70-25, 32.75-10
Lagging ............................................................................................................ 30.05-20
Liquefied petroleum gases ......................................................................... Part 38
Liquid level gauging devices ......................................................................... 38.10-20, 32.20-20
Marking of ...................................................................................................... 38.05-5
Periodic test .................................................................................................... 38.25-1
Piping ............................................................................................................. 35.35-15
Refrigeration system used with .................................................................... 38.05-25
Removal from service .................................................................................... 38.25-5
Venting of ...................................................................................................... Subpart 32.55, 38.20-1, 38.20-5
Cargo transfer:
Approval of .................................................................................................... 35.35-25
Conditions affecting ..................................................................................... 35.35-40
Connecting of cargo hose ............................................................................ 35.35-15
Declaration of inspection ............................................................................. 35.35-30
Duties of senior deck officer ......................................................................... 35.35-35
Electric bonding ............................................................................................ 35.35-5
Filling densities .............................................................................................. 38.15-1
Handling of packaged goods, etc .................................................................. 35.35-55
Inspection prior to .......................................................................................... 35.35-20
Liquefied flammable gases .......................................................................... 38.15-5
Maintenance of equipment .......................................................................... 35.35-70
Men on duty .................................................................................................. 35.35-1
Tank barges .................................................................................................... 35.35-60
Termination of ............................................................................................... 35.35-50
Towing vessels furnishing steam, air or electricity .................................... 35.35-45
Vapor control systems .................................................................................. Part 39
Vessels coming alongside during .................................................................. 35.35-42
Carriage of person other than crew ............................................................... 35.01-15
Casualty or accident report .......................................................................... Subpart 35.15
Certificate of class .......................................................................................... 31.10-5
Certificate of inspection:
Application for .............................................................................................. 31.01-15, 31.01-20
Cargoes of elevated temperatures, carriage of ........................................... 36.01-5
Delivery of ...................................................................................................... 31.05-1
Endorsed for liquefied flammable gas .......................................................... 38.01-5
Indication of water traveled on ...................................................................... 31.20-1
Ocean or unlimited coastwise vessels on inland and Great Lakes Routes-TB/OC .......................................................................................... 30.01-7
Posting of ...................................................................................................... 31.05-5
Terms, endorsements ...................................................................................... 31.05-15
Certificates regarding shipboard cargo gear .............................................. 31.10-16, 31.37
Certificates under International Convention for Safety of Life at Sea ................................................................. 31.10-16, 31.37
1960 American Bureau of Shipping ................................................................. 31.40-45
Application ........................................................................................................ 31.40-1
Cargo Ship Safety Equipment Certificate ....................................................... 31.40-10
Cargo Ship Safety Radiotelegraphy Certificate ............................................. 31.40-15
Cargo Ship Safety Radiotelephony Certificate .............................................. 31.40-20
Duration of Convention Certificate ................................................................. 31.40-25
Exemption Certificate ....................................................................................... 31.40-25
Posting of Convention Certificates ................................................................ 31.40-35
Certified crewmembers .................................................................................. 31.15-1
Certified definition ............................................................................................ 30.10-7
Charts of navigable waters required ................................................................. 35.20-1
Chief Engineer:
  Repairs of boilers and unfired pressure vessels and reports or accidents ..... 35.10-5
  Classification requirements, definition ....................................................... 30.10-9
  CO₂ fire apparatus, marking required ......................................................... 35.40-10
  Coast Guard District Commander ............................................................... 30.10-19
  Coast pilots ................................................................................................... 35.10-1
  Coastwise, definition .................................................................................... 30.10-11
Cofferdam:
  Definition of ................................................................................................ 30.10-13
  Location of .................................................................................................. 32.60-10, 32.65-15, 32.70-10
  Requirements of ........................................................................................... 32.70-10
  Venting of .................................................................................................... 32.55-45
  Combustible gas indicator ............................................................................ 35.10-15
  Combustible liquids, definition .................................................................... 30.10-15
  Commandant, definition ............................................................................ 30.10-17
  Commodities regulated ............................................................................... Subpart 30.25
  Communication, interior system ................................................................... Subpart 32.30
Construction and testing of cargo tanks and bulkheads on tank vessels ........ 32.65-40, 32.60-40, 32.75-10
Construction of tank barges of materials other than steel or iron, requirements 32.80-1
Construction of tank vessels:
  Cargo spaces segregated from cargo tanks ................................................. 32.57-10, 32.60
  Ceilings ........................................................................................................ 32.57-1
  Deck ............................................................................................................ 32.57-10
  Enclosed spaces ........................................................................................... 32.60-10
  General cargo spaces .................................................................................. 32.60-15
  Hatch covers ................................................................................................ 32.57-10
  Hull requirements ........................................................................................ 32.60, 32.65, 32.70, 32.75
  Lamp Lockers ............................................................................................... 32.57-10
  Living quarters ............................................................................................. 32.60-25, 32.65-25
  Location of cargo tank spaces ...................................................................... 32.60-10
  Location of independent tanks .................................................................... 32.60-30
  Machinery .................................................................................................... 32.35-1
  Paint lockers ................................................................................................. 32.57-10
  Requirements for scantlings, material and workmanship .......................... 32.60-1, 32.65-1, 32.70-5, 32.75-5
  Segregation of cargo .................................................................................... 32.60-10
  Stowage spaces ............................................................................................ 32.60-10
  Subdivision of cargo space .......................................................................... 32.60-10, 32.65-5, 32.75-10
  Testing of cargo tanks and bulkheads ......................................................... 32.60-40, 32.65-40, 32.70-25, 32.75-10
Subchapter D Index

Construction of vessels for liquefied gases ...................................................... 38.05-1
Construction of wood hull tank vessels:
  Application of regulations ........................................................................... 32.75-1
  Hold spaces ................................................................................................. 32.75-20
  Independent cargo tanks ............................................................................ 32.75-10
Convention certificates ........................................................................ Subpart 31.40
Conversion of vessels to tank vessels ............................................................ 31.10-10
Crew:
  Certified members of .................................................................................... 31.15-1
  Illness of ..................................................................................................... 35.05-25
  Licensed officers .......................................................................................... 31.15-1
  Physical condition of .................................................................................. 35.05-20
  Required for cargo handling ...................................................................... 35.35-1
Crew accommodations:
  Inspection of ............................................................................................... 31.10-45
  Requirements for ............................................................................ Subpart 32.40
  Sanitary condition of ................................................................................... 35.01-5
Current tables .................................................................................................. 35.20-1
Deck foam system ................................................................................ Subpart 34.20
Declaration of inspection prior to bulk cargo transfer ................................. 35.35-30
Delivery of certificate of inspection ............................................................... 31.05-1
Design:
  Cargo tanks.................................................................................................. 38.05-2
  Main and auxiliary machinery ..................................................................... 32.35-1
  Vapor control system ........................................................................ Subpart 39.20
Devices, spark producing ............................................................................... 35.30-35
Display of Plans .............................................................................................. 35.10-3
Draft marks ................................................................................................. 32.05-1, 35.20-5
Drills:
  Boat .............................................................................................................. 35.10-5
  Fire .............................................................................................................. 35.10-5
  Line throwing appliance .............................................................................. 35.10-1
Drydock or hauling out ................................................................................. 31.10-20

Effective date of regulation ........................................................................... 30.01-15
Electric bonding and grounding ................................................................. 32.75-15, 35.35-5
Electrical installations ................................................................................ 31.35, 32.45
Elevated temperature cargoes:
  Cargo pump relief valves ............................................................................. 36.10-1
  Certificate of inspection .............................................................................. 36.01-5
  Flame Screens, vents and ventilations ....................................................... 36.20-1
  Installation of cargo tanks ........................................................................... 36.05-1
  Lagged tanks, periodic inspections ............................................................ 36.30-1
  Protection of personnel ................................................................................ 36.05-10
Ventilation of pump room ............................................................................ 36.20-5
Emergency:
  Authority of senior officer ......................................................................... 35.35-75
  Breathing equipment, marking .................................................................. 35.40-20
  Lighting and power systems .................................................................... 35.10-15
  Outfit .......................................................................................................... 35.30-20
  Repairs to firefighting equipment .............................................................. 35.01-35
  Signals ......................................................................................................... 35.10-5
46 CFR Ch. I (10–1–99 Edition)

Training ........................................................................................................35.10-1
Enclosed ventilating system, fire extinguishing system ....................... 34.05-5
Enforcement ..............................................................................................30.20-1
Engineering, electrical ........................................................................31.35, 32.45
Engineering, marine Subpart ....................................................................31.30
Equipment:
    Cargo handling.................................................................................. Subpart 32.50
    Emergency ...................................................................................... 35.30-20
    Fire and emergency, marking.......................................................... Subpart 35.40, 35.40-40
    Installed but not required................................................................. 34.01-5
    Portable electrical ........................................................................ 35.30-30
    Previously approved ........................................................................ 30.01-15
    Equipment installations ................................................................. Subpart 32.20
    Equipment installations on vessels during World War II ................ 32.20-1
    Equipment, navigation .................................................................. Subpart 32.15
    Equivalents ..................................................................................... 30.15-1
    Escape, means of .......................................................................... Subpart 32.02-1
    Examination of tail shaft ................................................................ 61.15-15
Examination of sea chests, sea valves, sea strainers, and bilge injection
    valves.............................................................................................. 31.10-20
    Exemption certificate ........................................................................ 31.40-25
    Explosives, transportation of ......................................................... 35.30-25

F
Fire axes ....................................................................................................... 34.05-20, 34.60
Location of .............................................................................................. 34.60-10
Number required .................................................................................. 34.60-5
Fire drills .................................................................................................... 35.10-5
Fire extinguishers, portable and semiportable:
    Application ...................................................................................... 34.50-1
    Classification .................................................................................. 34.50-5
    Location ............................................................................................ 34.50-10
    Spare charges ................................................................................ 34.50-15
    Vessels contracted for prior to January 1, 1962 ................................ 34.50-90
Fire extinguishing deck foam system:
    Application ...................................................................................... 34.20-1
    Area protected ................................................................................ 34.20-5
    Cargo area definitions ..................................................................... 34.20-3
    Controls ............................................................................................ 34.20-10
    Discharge outlets .......................................................................... 34.20-20
    Installations contracted for prior to January 1, 1970 ....................... 34.20-90
    Marking ............................................................................................ 35.40-10
    Piping ............................................................................................... 34.20-15
    Quantity of foam required ............................................................. 34.20-5
    Rate of application .......................................................................... 34.20-5
    Separate supply of foam-producing material .................................... 34.20-5
    Supply of foam producing material ............................................. 34.20-5
    Water supply .................................................................................. 34.20-5
Fire extinguishing fixed foam systems:
    Additional protection required ........................................................ 34.17-25
    Application ...................................................................................... 34.17-1
    Area protected ................................................................................ 34.17-5
    Controls ............................................................................................ 34.17-10
    Discharge outlets .......................................................................... 34.17-20
    Installations contracted for prior to January 1, 1962 ....................... 34.17-90
    Piping ............................................................................................... 34.17-15
    Rate of Application ........................................................................... 34.17-5
Subchapter D Index

Separate supply of foam-producing material ........................................... 34.17-5
Supply of foam producing material ......................................................... 34.17-5
Water supply for required pumps ............................................................. 34.17-5

Fire extinguishing systems:
Boilerrooms .......................................................................................... 34.05-5
Carbon dioxide ......................................................................................... 34.15
Cargo tanks .............................................................................................. 34.05-5
Dry cargo compartments ......................................................................... 34.05-5
Enclosed compartments .......................................................................... 34.05-5
Foam, deck ............................................................................................... 34.05-20
Foam, fixed ................................................................................................. Subpart 34
Foam, fixed ................................................................................................. Subpart 34
Immediate contracts for prior to January 1, 1962 ..................................... 34.10-90
Immediate contracts for prior to January 1, 1962 ..................................... 34.13-1
Immediate contracts for prior to January 1, 1962 ..................................... 34.17-90

Fire extinguishing system, steam smothering:
Application .............................................................................................. 34.01-1
Fire protection, structural, for tank vessels contracted for on or after
Fire protection, structural, for tank vessels contracted for on or after
Fire protection, structural, for tank vessels contracted for on or after

Firefighting equipment:
Fire axes .................................................................................................. 34.05-20, 34.60
Fire main system ..................................................................................... 34.05-1
Hose .......................................................................................................... 34.10-10
Nozzles .................................................................................................... 34.40-10
Hydrants ................................................................................................... 34.40-15
Installed and required .............................................................................. 34.01-5
Portable, vessel’s name on ....................................................................... 34.01-5
Portable, vessel’s name on ....................................................................... 34.40-40
Protection for unusual arrangements or special products ....................... 34.01-10
Testing and inspection .......................................................................... 31.10-18, 31.10-19

Fire main system:
Application .............................................................................................. 34.10-1
Fire protection, structural, for tank vessels contracted for on or after
Fire protection, structural, for tank vessels contracted for on or after
Fire protection, structural, for tank vessels contracted for on or after

Fire station................................................................................................. 34.05-5
Fitting and piping for liquefied petroleum gases ........................................ 38.10-10
Fittings, cargo .......................................................................................... Subpart 32
Fittings, cargo .......................................................................................... Subpart 32
Flame arresters ........................................................................................ 30.10-10
Flame arresters ........................................................................................ 30.10-20
Flame arresters ........................................................................................ 30.10-23
Flame arresters ........................................................................................ 32.20-10
Flame arresters ........................................................................................ 36.20-20
Flammable liquid, definition .................................................................... 30.10-22
Flammable liquid and gas fuels as ships' stores ........................................ 34.01-10
Flammable liquid and gas fuels as ships' stores ........................................ 35.40-20
Flammable or inflammable, definition ....................................................... 30.10-21
Flashpoint, definition .............................................................................. 30.10-27
Foam hose/monitor stations .................................................................... 35.40-17
Fresh air breath apparatus ...................................................................... 35.30-20, 35.40-20
Fuel, oil, requirements ............................................................................ 35.25-10
Fuel, oil and gas fuels .............................................................................. 35.30-40
Fuel, oil and gas fuels .............................................................................. 35.30-40
Fuel, oil, requirements ............................................................................ 35.30-40
Functions, assignment of ........................................................................ 30.01-3

G

Galley fires, safety rules ......................................................................... 35.30-5

G
46 CFR Ch. I (10-1-99 Edition)

Gangway signs ................................................................. 35.30-1
Gas chemist certified by American Bureau of Shipping .................... 35.01-1
Gas free, definition ................................................................ 30.10-29
Gear, shipboard cargo, certificates or registers .................................. 31.10-16, 31.37
General alarm switch, marking of ............................................... 35.40-1
General alarm systems:
Alarm bells for tankships constructed on or after September 15, 1943 .................................................. 32.25-1
Alarm bells for tankships constructed prior to September 15, 1943 ...... 32.25
Alarm bells for manned barges .................................................... 32.25
General rules and regulations .................................................... 30.10-31
Grade D, combustible liquid ........................................................ 30.10-15
Grade E, combustible liquid ........................................................ 30.10-15
Great Lakes .......................................................................... 30.10-33

H

Hauling out or drydocking .......................................................... 31.10-20
Headquarters ........................................................................... 30.10-35
Hose, cargo ............................................................................. 32.50-30
Hospital accommodations ......................................................... 32.40-1
Hull and cargo tank requirements:
Alternative arrangements .......................................................... 32.63-8
Application ............................................................................. 32.63-1
Barge hull classifications ............................................................ 32.63-5
Cargo tanks and supports ........................................................ 32.63-25
Hull structure .......................................................................... 32.63-20
Rakes and coamings ................................................................. 32.63-10
Hull requirements .................................................................... 32.60, 32.63, 32.65, 32.70, 32.75, 32.80
Hydrostatic test for cargo tanks .................................................. 30.25-1

I

Independent cargo tanks ......................................................... 32.60-30, 32.60-35, 32.65-30, 32.70-25 32.75-10
Inert gas system ........................................................................ Subpart 32.53
Inspection:
Alternations and repairs .......................................................... 31.10-25
Bilges ..................................................................................... 31.10-50
Certificate of ........................................................................... Subpart 31.05
Conversion of a vessel to a tank vessel, application for .................. 31.01-20
Crew accommodations ............................................................. 31.10-45
During trial trip ........................................................................ 31.10-40
General requirements ............................................................. Subpart 31.01
Initial, scope of ........................................................................ 31.01-5
Lagged tanks .......................................................................... 36.30-1
New tank vessel ....................................................................... 31.01-20, 31.10-5
Plans and specifications ............................................................ 31.10-5
Recognized classification society .............................................. 31.10-1
Required ................................................................................ 31.01-1
Required before making repairs ................................................. 35.01-1
Required, liquefied, petroleum gas tanks ..................................... 38.25-1
Required on new tank vessels ................................................... 31.01-1
Safety valves .......................................................................... 38.25-10
Two years .............................................................................. 31.10-15, 31.10-17
Inspection and certification of cargo gear ..................................... 31.10-16
Inspection and test, periodic, of independent cargo tanks .............. 38.25
Inspection of cargo gear:
Additions to gear .................................................................... 31.37-60
Subchapter D Index

Advance notice that cargo gear testing is desired .................................................. 31.37-80
Alterations, renewals, or repairs of cargo gear ...................................................... 31.37-65
Annealing ............................................................................................................ 31.37-55
Cargo gear plans ................................................................................................ 31.37-15
Certification ........................................................................................................ 31.10-16
Definitions of terms ............................................................................................ 31.37-3
Dismantling or disassembling ............................................................................... 31.37-3
Factors of safety .................................................................................................. 31.37-25
Loose gear certificates and tests ......................................................................... 31.37-30
Marking of booms and cranes ............................................................................ 31.37-45
Proof test of cargo gear as a unit ........................................................................ 31.37-40
Records ............................................................................................................... 31.37-75
Responsibility for conducting required tests and examinations ......................... 31.37-85
Responsibility of ship's officer for inspection of cargo gear ................................ 31.37-70
Safe working load ............................................................................................... 31.37-3
Tests and examinations of shipboard cargo gear ................................................. 31.37-5
Thorough examination ........................................................................................ 31.37-3
Ton ...................................................................................................................... 31.37-3
When made ........................................................................................................... 31.37-1
Installation of cargo tanks .................................................................................... 38.05-10
Installation of internal combustion engines ......................................................... 32.35-5
Installations made during the Unlimited National Emergency ............................. 32.20-1
Internal combustion installations, fire extinguishing systems ......................... 34.05-5
International voyage ........................................................................................... 30.01-6
Interior communications system:
  Bell signals between engineroom and pilothouse ............................................. 32.30-5
  Inspection of .................................................................................................... 32.30
  Telegraph systems ............................................................................................ 32.30
  Telephone equipment ....................................................................................... 32.30-1
  Voice tubes ...................................................................................................... 32.30-1
Issuance of certificates of inspection ................................................................... 31.05-1

L

Lagging for independent cargo tanks ..................................................................... 38.05-20
Lakes, bays and sounds ........................................................................................ 30.10-41
Lamp and paintrooms:
  Fire extinguishing system for .......................................................................... 34.05-5
  Fireproofing of .................................................................................................. 32.35-4
  Licensed officers required ............................................................................... 31.15-1
Lifeboat drills ...................................................................................................... 35.10-5
Lifesaving Appliances and Approaches ................................................................. Subpart 31.36
  Actions to be required ..................................................................................... 35.07-10
  Certificate of inspection regulation ................................................................. 31.05-1
  Drills .................................................................................................................. 35.10-1
  Inspections required ........................................................................................ 31.01-1
  Musters ............................................................................................................ 35.10-5
Lights, flashing the ray of ................................................................................... 35.20-30
Light List ............................................................................................................. 35.20-1
Liquid, flammable ............................................................................................... 30.10-22
Liquid level gauging devices ............................................................................. 32.20-20, 38.10-1, 38.10-2, 38.20-3
Liquefied flammable gas ..................................................................................... 30.10-39
Cargo hose .......................................................................................................... 38.15-5
Cargo piping ....................................................................................................... 38.10-10
Certificate of inspection .................................................................................... 38.01-5
Design and construction of cargo tanks ............................................................. 38.05-2
Design and construction of nonpressure vessel type cargo tanks ..................... 38.05-4
Design and construction of pressure vessel type cargo tanks ........................... 38.05-3

503
Design and construction of vessels, general .................................................. 38.05-1
Electrical installations .................................................................................. 38.15-15
Filling and discharge pipes ........................................................................ 38.10-5
Filling of tanks .............................................................................................. 38.15-1
Installation of cargo tanks ........................................................................... 38.05-10
Insulation ........................................................................................................ 38.05-20
Leak detection systems ................................................................................ 38.15-10
Liquid level gauging devices ...................................................................... 38.10-20
Markings ......................................................................................................... 38.05-5
Machinery spaces, fire extinguishing systems for ........................................... 38.05-5
Machinery, main and auxiliary: ..................................................................... 38.05-5
Remote shutdowns ......................................................................................... 38.15-20
Removal of defective tanks .......................................................................... 38.25-5
Safety relief valves ......................................................................................... 38.25-10
Safety relief valves for pressure vessel type tanks ......................................... 38.10-15
Scope of regulations ..................................................................................... 38.01-1
Tests and inspections .................................................................................... 38.25-1
Transportation of ........................................................................................... Part 38
Transportation of portable cylinders or portable tanks containing or having previously contained liquefied flammable gases in dry cargo spaces .................................................................................................................. 38.01-2
Valves, fittings, and accessories .................................................................... 38.10-1
Vapor control system .................................................................................... Part 39
Ventilation ........................................................................................................ 38.20-10
Venting .......................................................................................................... 38.20-1, 38.20-5
Living quarters ................................................................................................ 32.60-25, 32.65-25
Load lines ........................................................................................................ Subpart 31.25
Loading information ....................................................................................... 31.10-32
Logbook entries: Actions required to be logged ................................................. 35.07-10
Application ..................................................................................................... 35.07-1
Draft of tank ship ............................................................................................ 35.20-5
Fire and lifeboat drills .................................................................................... 35.10-5
Fuel oil requirements ...................................................................................... 35.25-10
Logbooks and records .................................................................................. 35.07-5
Steering gear tests ........................................................................................ 35.20-10

M

Machinery spaces, fire extinguishing systems for ........................................... 38.05-5
Machinery, main and auxiliary: Accident report by chief engineer ......................... 35.25-5
Air compressors ............................................................................................. 32.35-15
Construction ................................................................................................... 32.35-1
Design ............................................................................................................ 32.35-1
Examination by engineer ............................................................................... 32.25-1
Installation of internal combustion engines .................................................... 32.35-5
Steering apparatus ......................................................................................... 32.35-10
Maneuvering characteristics, display of ......................................................... 35.20-40
Manning: Tank vessels ...................................................................................... 31.15, 35.35-1
Marine engineering and material specifications .............................................. Subpart 31.30
Marine inspector, authority of ...................................................................... 31.01-10
Markings: Booms and cranes .......................................................................... 31.37-45
CO₂ alarm ....................................................................................................... 35.40-7
Draft marks .................................................................................................... 32.05-1
Emergency breathing apparatus ................................................................... 35.40-20
Emergency lights ......................................................................................... 35.40-6
Subchapter D Index

Fire and emergency equipment .............................................................. Subpart 35.40
Firehose stations ................................................................................. 35.40-15
General alarm bell .................................................................................. 35.40-5
General alarm bell switch ...................................................................... 35.40-1
Lifesaving equipment ............................................................................. 35.40-40
Portable fire extinguishers ................................................................. 35.40-25
Steam, foam or CO$_2$ apparatus ............................................................. 35.40-10
Steering station ..................................................................................... 35.40-35
Tanks for liquefied flammable gas, marking of ...................................... 38.05-5
Vapor control system piping ................................................................. 39.20-1
Vessel’s name ....................................................................................... 32.05-10, 32.05-15
Vessel’s name on equipment ............................................................... 32.05-5

Master:
Casualty or accident report ................................................................. 35.15-1
Licensed officer ..................................................................................... 35.05-1
Station bills and muster list ................................................................. 35.10-1, 35.10-5
Master’s and officer’s responsibility..................................................... 35.20-20

Matches:
Use of .................................................................................................... 35.30-5

Materials specification .......................................................................... Subpart 31.30
Material, scantlings and workmanship ................................................. 32.60-1, 32.65-1
Means of escape ..................................................................................... 32.02-1
Muster list ............................................................................................. 35.10-1, 35.10-5

N
Nautical publications .............................................................................. 35.20-1
Navigation, use of Auto Pilot ............................................................... 35.20-45
Navigation equipment:
Anchors for seagoing barges ............................................................... 32.15-15
Magnetic compass and gyro compass .................................................. 32.15-35
Radar ..................................................................................................... 32.15-30
Sounding machines ............................................................................. 32.15-10
Whistles ................................................................................................ 32.15-5
New tank vessels, inspection of .......................................................... 31.10-5
New tank vessels, plans for inspection of ............................................ 31.10-5(a)
Notice to mariners ................................................................................ 35.20-1

O
Ocean, definition .................................................................................. 30.10-45
Officer in Charge, Marine Inspection .................................................. 30.10-47
Officers required on tank vessels .......................................................... Subpart 35.05
Open hopper type barges ..................................................................... 35.01-45
Overfill protection, liquid, tank barge ................................................. 39.20-9
Overfill protection, liquid, tank ship ................................................... 39.20-7
Overpressure and vacuum protection, vapor, tank barge and ship ...... 39.20-11
Oxygen breathing apparatus, marking of ............................................ 35.40-20

P
Paintrooms ............................................................................................ Subparts 32.85, 34.05-05
Penalties for violations of regulations .................................................. 30.20-10
Period covered by certificate of inspection ......................................... 31.05-10
Permit definition .................................................................................. 30.10-49
Permit to proceed to another port for repairs ...................................... 31.10-35
Piping:
Fire extinguishing systems .. 34.10-10, 34.10-15, 34.10-90, 34.17-15, 34.20-15,
Piping, bilge........................................................................................................ 32.52-5
Piping, cargo ..................................................................................................... 32.52-5
Cargo tanks .................................................................................................... 38.10-10
Steering apparatus ........................................................................................ 32.35-10
Placard of lifesaving signals and breeches buoy instructions........... Subpart 35.12
   Application ................................................................................................. 35.12-1
   Availability .................................................................................................. 35.12-5
Plans, Display of ........................................................................................ 35.10-3
   Plans for inspection of new tank vessels ....................................... 31.10-5(a)
   Portable and semiportable extinguishers ............................................. 34.05-10, 34.50
   Portable tanks-interpretive rulings ......................................................... 30.01-20
   Portable electrical equipment ................................................................. 35.30-30
   Posting of certificate of inspection ......................................................... 31.05-5
   Pressure-vacuum relief valve ................................................................. 30.10-55, 32.20-5
   Prevention of oil pollution .................................................................. 35.01-40
   Proof test of cargo gear as a unit ............................................................ 31.37-40
   Protection for personnel ........................................................................ 36.05-10
Pumprooms:
   Electrical installations .............................................................................. 32.60-20
   Fire extinguishing systems for ............................................................... 34.05-5
   Lighting .................................................................................................... 32.60-20
   Location of ................................................................................................ 32.60-20, 32.65-20
   Requirements for .................................................................................... 32.70-15, 32.70-20
   Ventilation ............................................................................................... 32.60-20, 36.20-5
   Pumps, bilge .............................................................................................. 32.60-20, 36.20-5
   Pumps, cargo ............................................................................................ 32.52-1

Q

Quarters, living ............................................................................................. 32.60-25, 32.65-25

R

Radar .............................................................................................................. 32.15-30
Radio room warning signs .......................................................................... 35.30-1
Recognized classification society, definition ........................................... 30.10-57
Refrigerated systems .................................................................................. 38.05-25
Registers regarding shipboard cargo gear ............................................. 31.10-16, Subpart 31.37
Regulations:
   Application of .......................................................................................... 30.01-5
   Authority vested in Commandant .......................................................... 30.01-1
   Effective date ............................................................................................ 30.01-15
   Explanation of vessel description .......................................................... 30.01-5
   Governing alterations and repairs ........................................................ 30.01-10
   Liquefied flammable gas ....................................................................... Part 38
   Scope of .................................................................................................... Part 38
   Vapor control system ............................................................................ Part 39
   Reid vapor pressure, definition ............................................................. 30.10-59
   Reinspection ............................................................................................ 31.10-17
Relief valves:
   Cargo pump ............................................................................................... 36.10-1
   Cargo pump, testing of ........................................................................... 35.35-70
   Cargo tanks .............................................................................................. 38.10-15
Repairs:
   Application of regulations ..................................................................... 30.01-10
   Firefighting equipment .......................................................................... 35.01-35
   Inspection before making ..................................................................... 35.01-1
   Involving hot work .................................................................................. 35.01-1
   Permit to proceed to another port ........................................................ 31.10-35
Subchapter D Index

Reports of engineers ................................................................. 35.25-5
Right of appeal ........................................................................... 30.20-50
Rivers, definition ....................................................................... 30.10-61
Rudder:
  Indicators .................................................................................. 35.40-35

S

Safety requirements:
  Means of escape ................................................................. 32.02-1
Safety relief valves for cargo tanks .............................................. 38.10-15
Safety rules ............................................................................. Subpart 35.30
Safety valve seal, breaking of .................................................... 35.25-20
Sailing directions ...................................................................... 35.20-1
Sanitary inspection by master and chief engineer ......................... 35.01-5
Scantlings, material and workmanship ....................................... 32.60-1, 32.65-5
Scuppers, closing of ................................................................. 35.35-10
Sea chests, examination of ....................................................... 31.10-20
Sea strainers, examination of ................................................... 31.10-20
Sea valves, closing of ............................................................... 35.35-10
Segregation of spaces containing the emergency source of electric
  power ...................................................................................... 32.60-45
Shipboard cargo gear, certificates or registers ............................ 31.10-16, Subpart 31.37
Shipping papers required ........................................................... 35.01-10
Sleeping quarters ..................................................................... Subpart 32.40
Smoking safety rules ................................................................. 35.30-5
Sounding machines .................................................................. 32.15-10
Spark arrester .......................................................................... 30.10-63
Spark producing devices ............................................................ 35.30-35
Spray nozzles ........................................................................... 34.10-10
Specifications, material ............................................................. Subpart 31.30
Special operating requirements ................................................ Subpart 35.01
Special operating requirements for tank barges carrying certain dan-
  gerous bulk cargoes .............................................................. 35.01-50
Stability requirements ............................................................... 31.10-30
Station bills required .................................................................. 35.10-1
Steam fire extinguishing systems, marking of ......................... 35.40-10
Steam, carrying of excess .......................................................... 35.25-15
Steam smothering system .......................................................... Subpart 34.13
Steel hull tank vessels ................................................................. Subparts 32.70, 32.60, 32.63, 32.65
Steering apparatus on tank vessel ............................................. 32.35-10
Steering gear, instruction for changing .................................... 35.40-30
Steering gear test ..................................................................... 35.20-10
Steering orders, marking .......................................................... 35.40-35
Stowage of package and general cargo .................................... 35.35-55
Subdivision of cargo spaces ...................................................... 32.60-5, 32.65-10

T

Tank barge:  
  Carrying bulk cargoes having dangerous characteristics in addition to
    flammability and combustibility ............................................ 35.01-50
Definition .................................................................................. 30.10-65
Watchman for ........................................................................... 35.05-15
Tankerman, definition ............................................................... 30.10-71
Tankship:
  Definition .................................................................................. 30.10-67
  Licensed officers and crew ...................................................... 35.05-1

507
Tanks, portable-interpretive rulings ................................................................. 30.01-20
Tank vessel:
  Definition ........................................................................................................ 30.10-69
Laid up or dismantled .................................................................................... 31.01-1
Telegraph equipment, engine order ............................................................... Subpart 32.30
Telephone equipment, sound powered .......................................................... Subpart 32.30
Testing of firefighting equipment ................................................................. 31.10-19
Tide tables ........................................................................................................ 35.03-1
Toilet facilities ............................................................................................... 32.40-25
Towing vessels ............................................................................................... 31.10-40, 35.35-45
Trial trip inspection ....................................................................................... 31.10-40

U
Ullage holes, safety rules regarding ................................................................. 35.30-10

V
Valves:
  Back pressure check type ........................................................................... 38.10-1, 38.10-5
  Excess flow .................................................................................................... 38.10-1, 38.10-5
  Liquefied flammable gas ............................................................................ 38.10-5
  Pressure vacuum relief ................................................................................ 30.10.5, 32.20.5
  Relief ........................................................................................................... 35.35-70, 38.10-1, 38.10-10, 38.10-15
  Shutoff .......................................................................................................... 38.10-1
Vapor balancing:
  Design and equipment for .......................................................................... 39.40-3
  General requirements for ............................................................................ 39.40-1
  Operational requirements for ...................................................................... 39.40-5
Vapor collection system ................................................................................... Part 39
  Applicability ................................................................................................ 39.10-1
  Cargo gauging system .................................................................................. 39.20-3
  Definitions ..................................................................................................... 39.10-3
  Design and equipment .................................................................................. Subpart 39.20
  General requirements ................................................................................... Subpart 39.10
  Lightering and topping-off operations with vapor balancing ................. Subpart 39.40
  Operational requirements .......................................................................... 39.30-1
  Operations .................................................................................................... Subpart 39.30
  Personnel training ....................................................................................... 39.10-11
  Submission of vapor control system designs ............................................ 39.10-13
  Tank barge and ship vapor overpressure and vacuum protection ......... 39.20-11
  Tank barge liquid overfill protection .......................................................... 39.20-9
  Tankship high and low vapor pressure protection ..................................... 39.20-13
Vessel vapor processing units ........................................................................ 39.10-9
Ventilation and venting:
  Cargo tanks ................................................................................................ Subpart 32.55
  Cargo tanks, independent .......................................................................... Subpart 38.20
  Cofferdams ................................................................................................ Subpart 32.55
  Flame screen ............................................................................................... 36.20-1
  Hold spaces .................................................................................................. 32.20-15
  Pumproom .................................................................................................. 36.20-5
  Tank ships with a keel laying date on or after January 1, 1975 ............... 32.55-50
  Vessels coming alongside ......................................................................... 35.35-42
  Vessels converted to tank vessels ............................................................... 31.10-10
  Vessel’s name on equipment ..................................................................... 35.40-40
  Vessel’s name ............................................................................................. 32.05-10, 32.05-15
  Vortices ...................................................................................................... 32.30-1
Subchapter D Index

W

Warning signals and signs.............................................................. 35.30-1
Warning signs.................................................................................. 35.30-1
Washing facilities........................................................................... 32.40-25
Watchman for tank barge................................................................. 35.05-15
Water spray extinguishing systems, details ................................... Subpart 34-25
  Application .................................................................................. 34.25-1
  Capacity and arrangement .......................................................... 34.25-5
  Controls ....................................................................................... 34.25-10
  Installations contracted for prior to January 1, 1964 ...................... 34.25-90
  Piping ......................................................................................... 34.25-15
  Spray nozzles ............................................................................... 34.25-20
Water spray systems, marking of ................................................... 35.40-18
Waters, travel permitted on............................................................... Subpart 31.20
Welding repairs .............................................................................. 35.01-1
Whistles .......................................................................................... 32.15-5
Whistle signals for drills................................................................. 35.10-5
Whistling, unnecessary................................................................. 35.20-35
Work vests:
  Application of ............................................................................ 35.03-1
  Approved unicellular plastic foam .............................................. 35.03-5
  Shipboard inspection .................................................................. 35.03-20
  Shipboard stowage ..................................................................... 35.03-15
  Use .............................................................................................. 35.03-10
Workmanship, material, and scantlings ...................................... 132.60-1, 32.65-5
A list of CFR titles, subtitles, chapters, subchapters and parts and an alphabetical list of agencies publishing in the CFR are included in the CFR Index and Finding Aids volume to the Code of Federal Regulations which is published separately and revised annually.

- Material Approved for Incorporation By Reference
- Table of CFR Titles and Chapters
- Alphabetical List of Agencies Appearing in the CFR
- List of CFR Sections Affected
Material Approved for Incorporation by Reference

(Revised as of October 1, 1999)

The Director of the Federal Register has approved under 5 U.S.C. 552(a) and 1 CFR part 51 the incorporation by reference of the following publications. This list contains only those incorporations by reference effective as of the revision date of this volume. Incorporations by reference found within a regulation are effective upon the effective date of that regulation. For more information on incorporation by reference, see the preliminary pages of this volume.

46 CFR (PARTS 1-40)
46 CFR
COAST GUARD, DEPARTMENT OF TRANSPORTATION

American Boat and Yacht Council, Inc.
3069 Solomon’s Island Road, Edgewater, MD 21037
25.45–2
25.45–2
ABYC E-1-1972, Bonding of Direct Current Systems ............................. 28.345
ABYC H-25-1986, Portable Fuel Systems for Flammable Liquids ....... 28.335
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28.380

American Bureau of Shipping
Publications Dept., Two World Trade Center, 106th Floor, New York, NY 10048
Rules for Building and Classing Steel Vessels, 1989 .............................. 32.15; 32.60; 32.65
Rules for Building and Classing Steel Vessels, 1996 .............................. 31.01-3(b)
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U.S. Supplement to ABS Rules for Steel Vessels for Vessels on International Voyages, October 21, 1996.
U.S. Supplement to ABS Rules for Mobile Offshore Drilling Units, November 1, 1998.
8.110(b); 31.01-3(b)

American National Standards Institute (ANSI)
11 West 42nd Street, New York, NY 10036 Telephone: (212) 642-4900
ANSI B16.5-81 Steel Pipe Flanges and Flanged Fittings ............................. 39.10-5; 39.20-1
8.230

American Petroleum Institute (API)
1220 L Street NW., Washington, DC 20005-4070; Telephone: (202) 682-8000
Title 46—Shipping

46 CFR (PARTS 1–40)—Continued

COAST GUARD, DEPARTMENT OF TRANSPORTATION—Continued


American Society for Nondestructive Testing (ASNT)
P.O. Box 21142, Columbus, OH 43221

Recommended Practice No. SNT–TC–1A (1988), Personnel Qualification and Certification in Nondestructive Testing. 38.25–3(c)(2)

American Society for Testing and Materials
100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959, Telephone (610) 832-9585, FAX (610) 832-9555

ASTM D 93–80 Test for Flash Point by Pensky-Martens Closed Tester. 35.25–10

ASTM D 323–79 Test for Vapor Pressure of Petroleum Products (Reid Method). 30.10–22; 30.10–59

ASTM F 1014–86 Standard Specification for Flashlights on Vessels 33.15–10(f); 35.30–20(c)(3)

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ASTM F 1273–91 Tank Vent Flame Arresters 32.20

ASTM F 1626 Symbols for Use in Accordance with Regulation II-2/20 of the 1974 SOLAS Convention As Amended PCN: 12–616260–01 (1996). 35.01–3; 35.10–3; 35.30–10

American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016–5990; Telephone: (800) THE–ASME


Coast Guard
Commandant [G–MVI], 2100 2nd St. SW., Washington, DC 20593

160.14 “Compass and Mounting, dated Dec. 14, 1944” (Specification for Compasses: Magnetic, Liquid-filled, Mariners, Compensating, for Life boats (with mounting) for Merchant Vessels.), 1944. 33.15–10

Department of Defense
DODSSP Standardization Document Order Desk, 700 Robbins Ave., Bldg 4D, Philadelphia, PA 19111-5098

Federal Specifications:

ZZ–H–451 Hose, Fire, Woven-Jacketed Rubber or Cambric-Lined, with Couplings, F 34.10–10

International Electrotechnical Commission (IEC)
Bureau Central de la Commission Electrotechnique Internationale, 1 rue de Varembe, Geneva, Switzerland


514
Material Approved for Incorporation by Reference

46 CFR (PARTS 1-40)—Continued
COAST GUARD, DEPARTMENT OF TRANSPORTATION—Continued

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A.654 (XVI) Graphical Symbols for Fire Control Plans, October 19, 1989. 35.01-3; 35.10-3
IMO Resolution A.658(16), Use and Fitting of Retro-Reflective Materials on Life-Saving Appliances, dated November 1989. 28.135


Lloyd’s Register of Shipping (LR)

100 Leadenhall Street, London, ECA 3BP

Rules and Regulations for the Classification of Ships, 1998 ........................... 31.01-3(b)
Lloyd’s Register of Shipping Supplemental Requirements, 1998 .......................... 31.01-3(b)

National Electrical Manufacturers Association (NEMA)

1300 North 17th Street, Suite 1847, Rosslyn, VA 22209; Telephone: (703) 841-3200; FAX: (703) 841-3300

ANSI/NEMA WD6 Wiring Devices-Dimensional Requirements, 1988 39.10-5; 39.20-9

National Fire Protection Association

1 Batterymarch Park, Quincy, MA 02269-9101, Telephone: (800) 344-3555

306 Control of Gas Hazards on Vessels, 1975 ................................. 35.01-1
302-89 Fire Protection Standard for Motor Craft, Pleasure and Commercial. 25.45

NFPA 13-1996 Standard for the Installation of Sprinkler Systems 34.01-15; 34.30-1
28.345
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Oil Companies International Marine Forum (OCIMF)

6th Floor, Portland House, Stag Place, London, SWIE 5BH, England

Title 46—Shipping

46 CFR (PARTS 1–40)—Continued

COAST GUARD, DEPARTMENT OF TRANSPORTATION—Continued

46 CFR

Society of Automotive Engineers
400 Commonwealth Dr., Warrendale, PA 15096–0001, Telephone: (412) 776–4841

SAE J1942–1989, Hose and Hose Assemblies for Marine Applications 28.405

Underwriters Laboratories, Inc.

UL 19–78 Woven Jacketed, Rubber Lined Fire Hose ......................... 34.10–10
UL 217–1985, Single and Multiple Station Smoke Detectors .............. 28.325; 28.40; 28.830
UL 1111–88 Marine Carburetor Flame Arresters ............................ 25.35
Table of CFR Titles and Chapters  
(Revised as of October 1, 1999)

Title 1—General Provisions

I Administrative Committee of the Federal Register (Parts 1—49)
II Office of the Federal Register (Parts 50—299)
IV Miscellaneous Agencies (Parts 400—500)

Title 2—[Reserved]

Title 3—The President

I Executive Office of the President (Parts 100—199)

Title 4—Accounts

I General Accounting Office (Parts 1—99)
II Federal Claims Collection Standards (General Accounting Office—Department of Justice) (Parts 100—299)

Title 5—Administrative Personnel

I Office of Personnel Management (Parts 1—1199)
II Merit Systems Protection Board (Parts 1200—1299)
III Office of Management and Budget (Parts 1300—1399)
V The International Organizations Employees Loyalty Board (Parts 1500—1599)
VI Federal Retirement Thrift Investment Board (Parts 1600—1699)
VII Advisory Commission on Intergovernmental Relations (Parts 1700—1799)
VIII Office of Special Counsel (Parts 1800—1899)
IX Appalachian Regional Commission (Parts 1900—1999)
XI Armed Forces Retirement Home (Part 2100)
XIV Federal Labor Relations Authority, General Counsel of the Federal Labor Relations Authority and Federal Service Impasses Panel (Parts 2400—2499)
 XV Office of Administration, Executive Office of the President (Parts 2500—2599)
 XVI Office of Government Ethics (Parts 2600—2699)
 XXI Department of the Treasury (Parts 3100—3199)
 XXII Federal Deposit Insurance Corporation (Part 3201)
Title 5—Administrative Personnel—Continued

XXIII Department of Energy (Part 3301)
XXIV Federal Energy Regulatory Commission (Part 3401)
XXV Department of the Interior (Part 3501)
XXVI Department of Defense (Part 3601)
XXVIII Department of Justice (Part 3801)
XXIX Federal Communications Commission (Parts 3900–3999)
XXX Farm Credit System Insurance Corporation (Parts 4000–4099)
XXXI Farm Credit Administration (Parts 4100–4199)
XXXIII Overseas Private Investment Corporation (Part 4301)
XXXV Office of Personnel Management (Part 4501)
XL Interstate Commerce Commission (Part 5001)
XLII Commodity Futures Trading Commission (Part 5101)
XLIII National Science Foundation (Part 5301)
XLVII Public Health Service (Part 5501)
XLVI Postal Rate Commission (Part 5601)
XLVIII Federal Trade Commission (Part 5701)
L Nuclear Regulatory Commission (Part 5801)
LI Department of Transportation (Part 6001)
LII Export-Import Bank of the United States (Part 6201)
LIII Department of Education (Parts 6300–6399)
LIV Environmental Protection Agency (Part 6401)
LV General Services Administration (Part 6701)
LVII Board of Governors of the Federal Reserve System (Part 6801)
LIX National Aeronautics and Space Administration (Part 6901)
LX United States Postal Service (Part 7001)
LXI Equal Employment Opportunity Commission (Part 7101)
LXII Inter-American Foundation (Part 7301)
LXV Department of Housing and Urban Development (Part 7501)
LXVI National Archives and Records Administration (Part 7601)
LXIX Tennessee Valley Authority (Part 7901)
LXI Consumer Product Safety Commission (Part 8101)
LXXI Federal Mine Safety and Health Review Commission (Part 8401)
LXXII Federal Retirement Thrift Investment Board (Part 8601)
LXXIII Office of Management and Budget (Part 8701)

Title 6—[Reserved]
Title 7—Agriculture

SUBTITLE A—Office of the Secretary of Agriculture (Parts 0—26)

SUBTITLE B—Regulations of the Department of Agriculture

I Agricultural Marketing Service (Standards, Inspections, Marketing Practices), Department of Agriculture (Parts 27—209)

II Food and Nutrition Service, Department of Agriculture (Parts 210—299)

III Animal and Plant Health Inspection Service, Department of Agriculture (Parts 300—399)

IV Federal Crop Insurance Corporation, Department of Agriculture (Parts 400—499)

V Agricultural Research Service, Department of Agriculture (Parts 500—599)

VI Natural Resources Conservation Service, Department of Agriculture (Parts 600—699)

VII Farm Service Agency, Department of Agriculture (Parts 700—799)

VIII Grain Inspection, Packers and Stockyards Administration (Federal Grain Inspection Service), Department of Agriculture (Parts 800—899)

IX Agricultural Marketing Service (Marketing Agreements and Orders; Fruits, Vegetables, Nuts), Department of Agriculture (Parts 900—999)

X Agricultural Marketing Service (Marketing Agreements and Orders; Milk), Department of Agriculture (Parts 1000—1199)

XI Agricultural Marketing Service (Marketing Agreements and Orders; Miscellaneous Commodities), Department of Agriculture (Parts 1200—1299)

XII Northeast Dairy Compact Commission (Parts 1300—1399)

XIII Commodity Credit Corporation, Department of Agriculture (Parts 1400—1499)

XIV Foreign Agricultural Service, Department of Agriculture (Parts 1500—1599)

XV Rural Telephone Bank, Department of Agriculture (Parts 1600—1699)

XVI Rural Utilities Service, Department of Agriculture (Parts 1700—1799)

XVII Rural Housing Service, Rural Business-Cooperative Service, Rural Utilities Service, and Farm Service Agency, Department of Agriculture (Parts 1800—2099)

XVIII Office of Inspector General, Department of Agriculture (Parts 2100—2199)

XIX Office of Information Resources Management, Department of Agriculture (Parts 2200—2299)

XX Office of Operations, Department of Agriculture (Parts 2300—2399)

XXI Office of Energy, Department of Agriculture (Parts 2400—2499)

XXX Office of the Chief Financial Officer, Department of Agriculture (Parts 2500—2599)

XXXI Office of Environmental Quality, Department of Agriculture (Parts 2600—2699)

519
Title 7—Agriculture—Continued

XXXII Office of Procurement and Property Management, Department of Agriculture (Parts 3200—3299)

XXXIII Office of Transportation, Department of Agriculture (Parts 3300—3399)

XXXIV Cooperative State Research, Education, and Extension Service, Department of Agriculture (Parts 3400—3499)

XXXV Rural Housing Service, Department of Agriculture (Parts 3500—3599)

XXXVI National Agricultural Statistics Service, Department of Agriculture (Parts 3600—3699)

XXXVII Economic Research Service, Department of Agriculture (Parts 3700—3799)

XXXVIII World Agricultural Outlook Board, Department of Agriculture (Parts 3800—3899)

XLI [Reserved]

XLII Rural Business-Cooperative Service and Rural Utilities Service, Department of Agriculture (Parts 4200—4299)

Title 8—Aliens and Nationality

I Immigration and Naturalization Service, Department of Justice (Parts 1—599)

Title 9—Animals and Animal Products

I Animal and Plant Health Inspection Service, Department of Agriculture (Parts 1—199)

II Grain Inspection, Packers and Stockyards Administration (Packers and Stockyards Programs), Department of Agriculture (Parts 200—299)

III Food Safety and Inspection Service, Department of Agriculture (Parts 300—599)

Title 10—Energy

I Nuclear Regulatory Commission (Parts 0—199)

II Department of Energy (Parts 200—699)

III Department of Energy (Parts 700—999)

X Department of Energy (General Provisions) (Parts 1000—1099)

XVII Defense Nuclear Facilities Safety Board (Parts 1700—1799)

Title 11—Federal Elections

I Federal Election Commission (Parts 1—9099)

Title 12—Banks and Banking

I Comptroller of the Currency, Department of the Treasury (Parts 1—199)
Title 12—Banks and Banking—Continued

II Federal Reserve System (Parts 200—299)
III Federal Deposit Insurance Corporation (Parts 300—399)
IV Export-Import Bank of the United States (Parts 400—499)
V Office of Thrift Supervision, Department of the Treasury (Parts 500—599)
VI Farm Credit Administration (Parts 600—699)
VII National Credit Union Administration (Parts 700—799)
VIII Federal Financing Bank (Parts 800—899)
IX Federal Housing Finance Board (Parts 900—999)
X Federal Financial Institutions Examination Council (Parts 1100—1199)
XI Farm Credit System Insurance Corporation (Parts 1400—1499)
XII Department of the Treasury (Parts 1500—1599)
XIII Office of Federal Housing Enterprise Oversight, Department of Housing and Urban Development (Parts 1700—1799)
XIV Community Development Financial Institutions Fund, Department of the Treasury (Parts 1800—1899)

Title 13—Business Credit and Assistance

I Small Business Administration (Parts 1—199)
III Economic Development Administration, Department of Commerce (Parts 300—399)

Title 14—Aeronautics and Space

I Federal Aviation Administration, Department of Transportation (Parts 1—199)
II Office of the Secretary, Department of Transportation (Aviation Proceedings) (Parts 200—399)
III Commercial Space Transportation, Federal Aviation Administration, Department of Transportation (Parts 400—499)
V National Aeronautics and Space Administration (Parts 1200—1299)

Title 15—Commerce and Foreign Trade

SUBTITLE A—OFFICE OF THE SECRETARY OF COMMERCE (PARTS 0—29)
SUBTITLE B—REGULATIONS RELATING TO COMMERCE AND FOREIGN TRADE
I Bureau of the Census, Department of Commerce (Parts 30—199)
II National Institute of Standards and Technology, Department of Commerce (Parts 200—299)
III International Trade Administration, Department of Commerce (Parts 300—399)
IV Foreign-Trade Zones Board, Department of Commerce (Parts 400—499)
Title 15—Commerce and Foreign Trade—Continued

Chap.

VII Bureau of Export Administration, Department of Commerce (Parts 700—799)

VIII Bureau of Economic Analysis, Department of Commerce (Parts 800—899)

IX National Oceanic and Atmospheric Administration, Department of Commerce (Parts 900—999)

XI Technology Administration, Department of Commerce (Parts 1100—1199)

XIII East-West Foreign Trade Board (Parts 1300—1399)

XIV Minority Business Development Agency (Parts 1400—1499)

Subtitle C—Regulations Relating to Foreign Trade Agreements

XX Office of the United States Trade Representative (Parts 2000—2099)

Subtitle D—Regulations Relating to Telecommunications and Information

XXIII National Telecommunications and Information Administration, Department of Commerce (Parts 2300—2399)

Title 16—Commercial Practices

I Federal Trade Commission (Parts 0—999)

II Consumer Product Safety Commission (Parts 1000—1799)

Title 17—Commodity and Securities Exchanges

I Commodity Futures Trading Commission (Parts 1—199)

II Securities and Exchange Commission (Parts 200—399)

IV Department of the Treasury (Parts 400—499)

Title 18—Conservation of Power and Water Resources

I Federal Energy Regulatory Commission, Department of Energy (Parts 1—399)

III Delaware River Basin Commission (Parts 400—499)

VI Water Resources Council (Parts 700—799)

VIII Susquehanna River Basin Commission (Parts 800—899)

XIII Tennessee Valley Authority (Parts 1300—1399)

Title 19—Customs Duties

I United States Customs Service, Department of the Treasury (Parts 1—199)

II United States International Trade Commission (Parts 200—299)

III International Trade Administration, Department of Commerce (Parts 300—399)
Chap.

**Title 20—Employees’ Benefits**

I Office of Workers’ Compensation Programs, Department of Labor (Parts 1—199)
II Railroad Retirement Board (Parts 200—399)
III Social Security Administration (Parts 400—499)
IV Employees’ Compensation Appeals Board, Department of Labor (Parts 500—599)
V Employment and Training Administration, Department of Labor (Parts 600—699)
VI Employment Standards Administration, Department of Labor (Parts 700—799)
VII Benefits Review Board, Department of Labor (Parts 800—899)
VIII Joint Board for the Enrollment of Actuaries (Parts 900—999)
IX Office of the Assistant Secretary for Veterans’ Employment and Training, Department of Labor (Parts 1000—1099)

**Title 21—Food and Drugs**

I Food and Drug Administration, Department of Health and Human Services (Parts 1—1299)
II Drug Enforcement Administration, Department of Justice (Parts 1300—1399)
III Office of National Drug Control Policy (Parts 1400—1499)

**Title 22—Foreign Relations**

I Department of State (Parts 1—199)
II Agency for International Development (Parts 200—299)
III Peace Corps (Parts 300—399)
IV International Joint Commission, United States and Canada (Parts 400—499)
V United States Information Agency (Parts 500—599)
VII Overseas Private Investment Corporation (Parts 700—799)
IX Foreign Service Grievance Board Regulations (Parts 900—999)
X Inter-American Foundation (Parts 1000—1099)
XI International Boundary and Water Commission, United States and Mexico, United States Section (Parts 1100—1199)
XII United States International Development Cooperation Agency (Parts 1200—1299)
XIII Board for International Broadcasting (Parts 1300—1399)
XIV Foreign Service Labor Relations Board; Federal Labor Relations Authority; General Counsel of the Federal Labor Relations Authority; and the Foreign Service Impasse Disputes Panel (Parts 1400—1499)
XV African Development Foundation (Parts 1500—1599)
XVI Japan-United States Friendship Commission (Parts 1600—1699)
XVII United States Institute of Peace (Parts 1700—1799)
## Title 23—Highways

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Federal Highway Administration, Department of Transportation (Parts 1—999)</td>
</tr>
<tr>
<td>II</td>
<td>National Highway Traffic Safety Administration and Federal Highway Administration, Department of Transportation (Parts 1200—1299)</td>
</tr>
<tr>
<td>III</td>
<td>National Highway Traffic Safety Administration, Department of Transportation (Parts 1300—1399)</td>
</tr>
</tbody>
</table>

## Title 24—Housing and Urban Development

<table>
<thead>
<tr>
<th>Subtitle A</th>
<th>Office of the Secretary, Department of Housing and Urban Development (Parts 0—99)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtitle B</td>
<td>Regulations Relating to Housing and Urban Development (Parts 0—99)</td>
</tr>
<tr>
<td>I</td>
<td>Office of Assistant Secretary for Equal Opportunity, Department of Housing and Urban Development (Parts 100—199)</td>
</tr>
<tr>
<td>II</td>
<td>Office of Assistant Secretary for Housing-Federal Housing Commissioner, Department of Housing and Urban Development (Parts 200—299)</td>
</tr>
<tr>
<td>III</td>
<td>Government National Mortgage Association, Department of Housing and Urban Development (Parts 300—399)</td>
</tr>
<tr>
<td>IV</td>
<td>Office of Multifamily Housing Assistance Restructuring, Department of Housing and Urban Development (Parts 400—499)</td>
</tr>
<tr>
<td>V</td>
<td>Office of Assistant Secretary for Community Planning and Development, Department of Housing and Urban Development (Parts 500—599)</td>
</tr>
<tr>
<td>VI</td>
<td>Office of Assistant Secretary for Community Planning and Development, Department of Housing and Urban Development (Parts 600—699) [Reserved]</td>
</tr>
<tr>
<td>VII</td>
<td>Office of the Secretary, Department of Housing and Urban Development (Housing Assistance Programs and Public and Indian Housing Programs) (Parts 700—799)</td>
</tr>
<tr>
<td>VIII</td>
<td>Office of the Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Section 8 Housing Assistance Programs, Section 202 Direct Loan Program, Section 202 Supportive Housing for the Elderly Program and Section 811 Supportive Housing for Persons With Disabilities Program) (Parts 800—899)</td>
</tr>
<tr>
<td>IX</td>
<td>Office of Assistant Secretary for Public and Indian Housing, Department of Housing and Urban Development (Parts 900—999)</td>
</tr>
<tr>
<td>X</td>
<td>Office of Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Interstate Land Sales Registration Program) (Parts 1700—1799)</td>
</tr>
<tr>
<td>XII</td>
<td>Office of Inspector General, Department of Housing and Urban Development (Parts 2000—2099)</td>
</tr>
<tr>
<td>XX</td>
<td>Office of Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Parts 3200—3299)</td>
</tr>
<tr>
<td>XXV</td>
<td>Neighborhood Reinvestment Corporation (Parts 4100—4199)</td>
</tr>
</tbody>
</table>
Title 25—Indians

I Bureau of Indian Affairs, Department of the Interior (Parts 1—299)
II Indian Arts and Crafts Board, Department of the Interior (Parts 300—399)
III National Indian Gaming Commission, Department of the Interior (Parts 500—599)
IV Office of Navajo and Hopi Indian Relocation (Parts 700—799)
V Bureau of Indian Affairs, Department of the Interior, and Indian Health Service, Department of Health and Human Services (Part 900)
VI Office of the Assistant Secretary-Indian Affairs, Department of the Interior (Part 1001)
VII Office of the Special Trustee for American Indians, Department of the Interior (Part 1200)

Title 26—Internal Revenue

I Internal Revenue Service, Department of the Treasury (Parts 1—799)

Title 27—Alcohol, Tobacco Products and Firearms

I Bureau of Alcohol, Tobacco and Firearms, Department of the Treasury (Parts 1—299)

Title 28—Judicial Administration

I Department of Justice (Parts 0—199)
III Federal Prison Industries, Inc., Department of Justice (Parts 300—399)
V Bureau of Prisons, Department of Justice (Parts 500—599)
VI Offices of Independent Counsel, Department of Justice (Parts 600—699)
VII Office of Independent Counsel (Parts 700—799)

Title 29—Labor

Subtitle A—Office of the Secretary of Labor (Parts 0—99)
Subtitle B—Regulations Relating to Labor
I National Labor Relations Board (Parts 100—199)
II Office of Labor-Management Standards, Department of Labor (Parts 200—299)
III National Railroad Adjustment Board (Parts 300—399)
IV Office of Labor-Management Standards, Department of Labor (Parts 400—499)
V Wage and Hour Division, Department of Labor (Parts 500—899)
IX Construction Industry Collective Bargaining Commission (Parts 900—999)
X National Mediation Board (Parts 1200—1299)
Title 29—Labor—Continued

XII Federal Mediation and Conciliation Service (Parts 1400—1499)
XIV Equal Employment Opportunity Commission (Parts 1600—1699)
XVII Occupational Safety and Health Administration, Department of Labor (Parts 1900—1999)
XX Occupational Safety and Health Review Commission (Parts 2200—2499)
XXV Pension and Welfare Benefits Administration, Department of Labor (Parts 2500—2599)
XXVII Federal Mine Safety and Health Review Commission (Parts 2700—2799)
XL Pension Benefit Guaranty Corporation (Parts 4000—4999)

Title 30—Mineral Resources

I Mine Safety and Health Administration, Department of Labor (Parts 1—199)
II Minerals Management Service, Department of the Interior (Parts 200—299)
III Board of Surface Mining and Reclamation Appeals, Department of the Interior (Parts 300—399)
IV Geological Survey, Department of the Interior (Parts 400—499)
VI Bureau of Mines, Department of the Interior (Parts 600—699)
VII Office of Surface Mining Reclamation and Enforcement, Department of the Interior (Parts 700—799)

Title 31—Money and Finance: Treasury

Subtitle A—Office of the Secretary of the Treasury (Parts 0—50)
Subtitle B—Regulations Relating to Money and Finance
I Monetary Offices, Department of the Treasury (Parts 51—199)
II Fiscal Service, Department of the Treasury (Parts 200—299)
IV Secret Service, Department of the Treasury (Parts 400—499)
V Office of Foreign Assets Control, Department of the Treasury (Parts 500—599)
VI Bureau of Engraving and Printing, Department of the Treasury (Parts 600—699)
VII Federal Law Enforcement Training Center, Department of the Treasury (Parts 700—799)
VIII Office of International Investment, Department of the Treasury (Parts 800—899)

Title 32—National Defense

Subtitle A—Department of Defense
I Office of the Secretary of Defense (Parts 1—399)
V Department of the Army (Parts 400—699)
VI Department of the Navy (Parts 700—799)
Title 32—National Defense—Continued

VII Department of the Air Force (Parts 800–1099)
  SUBTITLE B—OTHER REGULATIONS RELATING TO NATIONAL DEFENSE

XII Defense Logistics Agency (Parts 1200–1299)

XVI Selective Service System (Parts 1600–1699)

XVIII National Counterintelligence Center (Parts 1800–1899)

XIX Central Intelligence Agency (Parts 1900–1999)

XX Information Security Oversight Office, National Archives and Records Administration (Parts 2000–2099)

XXI National Security Council (Parts 2100–2199)

XXIV Office of Science and Technology Policy (Parts 2400–2499)

XXVII Office for Micronesian Status Negotiations (Parts 2700–2799)

XXVIII Office of the Vice President of the United States (Parts 2800–2899)

XXIX Presidential Commission on the Assignment of Women in the Armed Forces (Part 2900)

Title 33—Navigation and Navigable Waters

I Coast Guard, Department of Transportation (Parts 1–199)

II Corps of Engineers, Department of the Army (Parts 200–399)

IV Saint Lawrence Seaway Development Corporation, Department of Transportation (Parts 400–499)

Title 34—Education

SUBTITLE A—OFFICE OF THE SECRETARY, DEPARTMENT OF EDUCATION (PARTS 1–99)

SUBTITLE B—REGULATIONS OF THE OFFICES OF THE DEPARTMENT OF EDUCATION

I Office for Civil Rights, Department of Education (Parts 100–199)

II Office of Elementary and Secondary Education, Department of Education (Parts 200–299)

III Office of Special Education and Rehabilitative Services, Department of Education (Parts 300–399)

IV Office of Vocational and Adult Education, Department of Education (Parts 400–499)

V Office of Bilingual Education and Minority Languages Affairs, Department of Education (Parts 500–599)

VI Office of Postsecondary Education, Department of Education (Parts 600–699)

VII Office of Educational Research and Improvement, Department of Education (Parts 700–799)

XI National Institute for Literacy (Parts 1100–1199)

SUBTITLE C—REGULATIONS RELATING TO EDUCATION

XII National Council on Disability (Parts 1200–1299)
Title 35—Panama Canal

Chap.
I Panama Canal Regulations (Parts 1—299)

Title 36—Parks, Forests, and Public Property

I National Park Service, Department of the Interior (Parts 1—199)
II Forest Service, Department of Agriculture (Parts 200—299)
III Corps of Engineers, Department of the Army (Parts 300—399)
IV American Battle Monuments Commission (Parts 400—499)
V Smithsonian Institution (Parts 500—599)
VII Library of Congress (Parts 700—799)
VIII Advisory Council on Historic Preservation (Parts 800—899)
IX Pennsylvania Avenue Development Corporation (Parts 900—999)
X Presidio Trust (Parts 1000—1099)
XI Architectural and Transportation Barriers Compliance Board (Parts 1100—1199)
XII National Archives and Records Administration (Parts 1200—1299)
XIV Assassination Records Review Board (Parts 1400—1499)

Title 37—Patents, Trademarks, and Copyrights

I Patent and Trademark Office, Department of Commerce (Parts 1—199)
II Copyright Office, Library of Congress (Parts 200—299)
IV Assistant Secretary for Technology Policy, Department of Commerce (Parts 400—499)
V Under Secretary for Technology, Department of Commerce (Parts 500—599)

Title 38—Pensions, Bonuses, and Veterans’ Relief

I Department of Veterans Affairs (Parts 0—99)

Title 39—Postal Service

I United States Postal Service (Parts 1—999)
III Postal Rate Commission (Parts 3000—3099)

Title 40—Protection of Environment

I Environmental Protection Agency (Parts 1—799)
V Council on Environmental Quality (Parts 1500—1599)
VII Environmental Protection Agency and Department of Defense; Uniform National Discharge Standards for Vessels of the Armed Forces (Parts 1700—1799)

Title 41—Public Contracts and Property Management

Subtitle B—Other Provisions Relating to Public Contracts

528
Title 41—Public Contracts and Property Management—Continued

50 Public Contracts, Department of Labor (Parts 50-1—50-999)
51 Committee for Purchase From People Who Are Blind or Severely Disabled (Parts 51-1—51-99)
60 Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor (Parts 60-1—60-999)
61 Office of the Assistant Secretary for Veterans Employment and Training, Department of Labor (Parts 61-1—61-999)

Subtitle C—Federal Property Management Regulations System

101 Federal Property Management Regulations (Parts 101-1—101-99)
105 General Services Administration (Parts 105-1—105-999)
109 Department of Energy Property Management Regulations (Parts 109-1—109-99)
114 Department of the Interior (Parts 114-1—114-99)
115 Environmental Protection Agency (Parts 115-1—115-99)
128 Department of Justice (Parts 128-1—128-99)

Subtitle D—Other Provisions Relating to Property Management [Reserved]

Subtitle E—Federal Information Resources Management Regulations System

201 Federal Information Resources Management Regulation (Parts 201-1—201-99) [Reserved]

Subtitle F—Federal Travel Regulation System

300 General (Parts 300-1—300-99)
301 Temporary Duty (TDY) Travel Allowances (Parts 301-1—301-99)
302 Relocation Allowances (Parts 302-1—302-99)
303 Payment of Expenses Connected with the Death of Certain Employees (Part 303-70)
304 Payment from a Non-Federal Source for Travel Expenses (Parts 304-1—304-99)

Title 42—Public Health

I Public Health Service, Department of Health and Human Services (Parts 1—199)
IV Health Care Financing Administration, Department of Health and Human Services (Parts 400—499)
V Office of Inspector General—Health Care, Department of Health and Human Services (Parts 1000—1999)

Title 43—Public Lands: Interior

Subtitle A—Office of the Secretary of the Interior (Parts 1—199)
Subtitle B—Regulations Relating to Public Lands
I Bureau of Reclamation, Department of the Interior (Parts 200—499)
II Bureau of Land Management, Department of the Interior (Parts 1000—9999)
Title 43—Public Lands: Interior—Continued

III Utah Reclamation Mitigation and Conservation Commission (Parts 10000—10005)

Title 44—Emergency Management and Assistance

I Federal Emergency Management Agency (Parts 0—399)

IV Department of Commerce and Department of Transportation (Parts 400—499)

Title 45—Public Welfare

Subtitle A—Department of Health and Human Services (Parts 1—199)

Subtitle B—Regulations Relating to Public Welfare

II Office of Family Assistance (Assistance Programs), Administration for Children and Families, Department of Health and Human Services (Parts 200—299)

III Office of Child Support Enforcement (Child Support Enforcement Program), Administration for Children and Families, Department of Health and Human Services (Parts 300—399)

IV Office of Refugee Resettlement, Administration for Children and Families Department of Health and Human Services (Parts 400—499)

V Foreign Claims Settlement Commission of the United States, Department of Justice (Parts 500—599)

VI National Science Foundation (Parts 600—699)

VII Commission on Civil Rights (Parts 700—799)

VIII Office of Personnel Management (Parts 800—899)

X Office of Community Services, Administration for Children and Families, Department of Health and Human Services (Parts 1000—1099)

XI National Foundation on the Arts and the Humanities (Parts 1100—1199)

XII Corporation for National and Community Service (Parts 1200—1299)

XIII Office of Human Development Services, Department of Health and Human Services (Parts 1300—1399)

XVI Legal Services Corporation (Parts 1600—1699)

XVII National Commission on Libraries and Information Science (Parts 1700—1799)

XVIII Harry S. Truman Scholarship Foundation (Parts 1800—1899)

XXI Commission on Fine Arts (Parts 2100—2199)

XXIII Arctic Research Commission (Part 2301)

XXIV James Madison Memorial Fellowship Foundation (Parts 2400—2499)

XXV Corporation for National and Community Service (Parts 2500—2599)
Title 46—Shipping

I Coast Guard, Department of Transportation (Parts 1—199)
II Maritime Administration, Department of Transportation (Parts 200—399)
III Coast Guard (Great Lakes Pilotage), Department of Transportation (Parts 400—499)
IV Federal Maritime Commission (Parts 500—599)

Title 47—Telecommunication

I Federal Communications Commission (Parts 0—199)
II Office of Science and Technology Policy and National Security Council (Parts 200—299)
III National Telecommunications and Information Administration, Department of Commerce (Parts 300—399)

Title 48—Federal Acquisition Regulations System

1 Federal Acquisition Regulation (Parts 1—99)
2 Department of Defense (Parts 200—299)
3 Department of Health and Human Services (Parts 300—399)
4 Department of Agriculture (Parts 400—499)
5 General Services Administration (Parts 500—599)
6 Department of State (Parts 600—699)
7 United States Agency for International Development (Parts 700—799)
8 Department of Veterans Affairs (Parts 800—899)
9 Department of Energy (Parts 900—999)
10 Department of the Treasury (Parts 1000—1099)
11 Department of Transportation (Parts 1200—1299)
12 Department of Commerce (Parts 1300—1399)
13 Department of the Interior (Parts 1400—1499)
14 Environmental Protection Agency (Parts 1500—1599)
15 Office of Personnel Management Federal Employees Health Benefits Acquisition Regulation (Parts 1600—1699)
16 Office of Personnel Management (Parts 1700—1799)
17 National Aeronautics and Space Administration (Parts 1800—1899)
18 United States Information Agency (Parts 1900—1999)
19 Nuclear Regulatory Commission (Parts 2000—2099)
20 Office of Personnel Management, Federal Employees Group Life Insurance Federal Acquisition Regulation (Parts 2100—2199)
21 Social Security Administration (Parts 2300—2399)
22 Department of Housing and Urban Development (Parts 2400—2499)
23 National Science Foundation (Parts 2500—2599)
24 Department of Justice (Parts 2800—2899)
25 Department of Labor (Parts 2900—2999)

531
Title 48—Federal Acquisition Regulations System—Continued

34 Department of Education Acquisition Regulation (Parts 3400—3499)
35 Panama Canal Commission (Parts 3500—3599)
44 Federal Emergency Management Agency (Parts 4400—4499)
51 Department of the Army Acquisition Regulations (Parts 5100—5199)
52 Department of the Navy Acquisition Regulations (Parts 5200—5299)
53 Department of the Air Force Federal Acquisition Regulation Supplement (Parts 5300—5399)
54 Defense Logistics Agency, Department of Defense (Part 5452)
57 African Development Agency, Department of Defense (Part 5452)
57 African Development Foundation (Parts 5700—5799)
61 General Services Administration Board of Contract Appeals (Parts 6100—6199)
63 Department of Transportation Board of Contract Appeals (Parts 6300—6399)
99 Cost Accounting Standards Board, Office of Federal Procurement Policy, Office of Management and Budget (Parts 9900—9999)

Title 49—Transportation

Subtitle A—Office of the Secretary of Transportation (Parts 1—99)
Subtitle B—Other Regulations Relating to Transportation
I Research and Special Programs Administration, Department of Transportation (Parts 100—199)
II Federal Railroad Administration, Department of Transportation (Parts 200—299)
III Federal Highway Administration, Department of Transportation (Parts 300—399)
IV Coast Guard, Department of Transportation (Parts 400—499)
V National Highway Traffic Safety Administration, Department of Transportation (Parts 500—599)
VI Federal Transit Administration, Department of Transportation (Parts 600—699)
VII National Railroad Passenger Corporation (AMTRAK) (Parts 700—799)
VIII National Transportation Safety Board (Parts 800—999)
X Surface Transportation Board, Department of Transportation (Parts 1000—1399)
XI Bureau of Transportation Statistics, Department of Transportation (Parts 1400—1499)

Title 50—Wildlife and Fisheries

I United States Fish and Wildlife Service, Department of the Interior (Parts 1—199)
Title 50—Wildlife and Fisheries—Continued

II National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce (Parts 200—299)

III International Fishing and Related Activities (Parts 300—399)

IV Joint Regulations (United States Fish and Wildlife Service, Department of the Interior and National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce); Endangered Species Committee Regulations (Parts 400—499)

V Marine Mammal Commission (Parts 500—599)

VI Fishery Conservation and Management, National Oceanic and Atmospheric Administration, Department of Commerce (Parts 600—699)

CFR Index and Finding Aids

Subject/Agency Index
List of Agency Prepared Indexes
Parallel Tables of Statutory Authorities and Rules
List of CFR Titles, Chapters, Subchapters, and Parts
Alphabetical List of Agencies Appearing in the CFR
<table>
<thead>
<tr>
<th>Agency</th>
<th>CFR Title, Subtitle or Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Committee of the Federal Register</td>
<td>1, I</td>
</tr>
<tr>
<td>Advanced Research Projects Agency</td>
<td>32, I</td>
</tr>
<tr>
<td>Advisory Commission on Intergovernmental Relations</td>
<td>5, VII</td>
</tr>
<tr>
<td>Advisory Committee on Federal Pay</td>
<td>5, IV</td>
</tr>
<tr>
<td>Advisory Council on Historic Preservation</td>
<td>36, VIII</td>
</tr>
<tr>
<td>African Development Foundation</td>
<td>22, XV</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 57</td>
</tr>
<tr>
<td>Agency for International Development, United States</td>
<td>22, II</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 7</td>
</tr>
<tr>
<td>Agricultural Marketing Service</td>
<td>7, I, IX, X, XI</td>
</tr>
<tr>
<td>Agricultural Research Service</td>
<td>7, V</td>
</tr>
<tr>
<td>Agriculture Department</td>
<td></td>
</tr>
<tr>
<td>Agricultural Marketing Service</td>
<td>7, I, IX, X, XI</td>
</tr>
<tr>
<td>Agricultural Research Service</td>
<td>7, V</td>
</tr>
<tr>
<td>Animal and Plant Health Inspection Service</td>
<td>7, III; 9, I</td>
</tr>
<tr>
<td>Chief Financial Officer, Office of</td>
<td>7, XXX</td>
</tr>
<tr>
<td>Commodity Credit Corporation</td>
<td>7, XIV</td>
</tr>
<tr>
<td>Cooperative State Research, Education, and Extension Service</td>
<td>7, XXXIV</td>
</tr>
<tr>
<td>Economic Research Service</td>
<td>7, XXXVII</td>
</tr>
<tr>
<td>Energy, Office of</td>
<td>7, XXXIX</td>
</tr>
<tr>
<td>Environmental Quality, Office of</td>
<td>7, XXXI</td>
</tr>
<tr>
<td>Farm Service Agency</td>
<td>7, VII, XVIII</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 4</td>
</tr>
<tr>
<td>Federal Crop Insurance Corporation</td>
<td>7, IV</td>
</tr>
<tr>
<td>Food and Nutrition Service</td>
<td>7, II</td>
</tr>
<tr>
<td>Food Safety and Inspection Service</td>
<td>9, III</td>
</tr>
<tr>
<td>Foreign Agricultural Service</td>
<td>7, XV</td>
</tr>
<tr>
<td>Forest Service</td>
<td>36, II</td>
</tr>
<tr>
<td>Grain Inspection, Packers and Stockyards Administration</td>
<td>7, VIII; 9, II</td>
</tr>
<tr>
<td>Information Resources Management, Office of</td>
<td>7, XXXVII</td>
</tr>
<tr>
<td>Inspector General, Office of</td>
<td>7, XXVI</td>
</tr>
<tr>
<td>National Agricultural Library</td>
<td>7, XII</td>
</tr>
<tr>
<td>National Agricultural Statistics Service</td>
<td>7, XXXVI</td>
</tr>
<tr>
<td>Natural Resources Conservation Service</td>
<td>7, VI</td>
</tr>
<tr>
<td>Operations, Office of</td>
<td>7, XXVIII</td>
</tr>
<tr>
<td>Procurement and Property Management, Office of</td>
<td>7, XXXII</td>
</tr>
<tr>
<td>Rural Business-Cooperative Service</td>
<td>7, XVIII, XLII</td>
</tr>
<tr>
<td>Rural Development Administration</td>
<td>7, XLI</td>
</tr>
<tr>
<td>Rural Housing Service</td>
<td>7, XVIII, XXXV</td>
</tr>
<tr>
<td>Rural Telephone Bank</td>
<td>7, XVI</td>
</tr>
<tr>
<td>Rural Utilities Service</td>
<td>7, XVIII, XVIII, XLII</td>
</tr>
<tr>
<td>Secretary of Agriculture, Office of</td>
<td>7, Subtitle A</td>
</tr>
<tr>
<td>Transportation, Office of</td>
<td>7, XXXIII</td>
</tr>
<tr>
<td>World Agricultural Outlook Board</td>
<td>7, XXXVIII</td>
</tr>
<tr>
<td>Air Force Department</td>
<td>32, VII</td>
</tr>
<tr>
<td>Federal Acquisition Regulation Supplement</td>
<td>48, 53</td>
</tr>
<tr>
<td>Alcohol, Tobacco and Firearms, Bureau of</td>
<td>27, I</td>
</tr>
<tr>
<td>AMTRAK</td>
<td>49, VII</td>
</tr>
<tr>
<td>American Battle Monuments Commission</td>
<td>36, IV</td>
</tr>
<tr>
<td>American Indians, Office of the Special Trustee</td>
<td>25, VII</td>
</tr>
<tr>
<td>Animal and Plant Health Inspection Service</td>
<td>7, III; 9, I</td>
</tr>
<tr>
<td>Appalachian Regional Commission</td>
<td>5, IX</td>
</tr>
</tbody>
</table>
Agency
Architectural and Transportation Barriers Compliance Board 36, XI
Arctic Research Commission 45, XXIII
Armed Forces Retirement Home 5, XI
Army Department 32, V
Engineers, Corps of
Federal Acquisition Regulation 48, SI
Assassination Records Review Board 36, XIV
Benefits Review Board 20, VII
Bilingual Education and Minority Languages Affairs, Office of
Blind or Severely Disabled, Committee for Purchase From
People Who Are
Board for International Broadcasting 22, XIII
Census Bureau 15, I
Central Intelligence Agency 32, XIX
Chief Financial Officer, Office of
Child Support Enforcement, Office of 45, III
Children and Families, Administration for
Christopher Columbus Quincentenary Jubilee Commission 45, XXII
Civil Rights, Commission on 45, VII
Civil Rights, Office for 34, I
Coast Guard 33, I; 46, I; 49, IV
Coast Guard (Great Lakes Pilotage) 46, III
Commerce Department 44, IV
Census Bureau 15, I
Economic Affairs, Under Secretary 37, V
Economic Analysis, Bureau of 15, VIII
Economic Development Administration 13, III
Emergency Management and Assistance 44, IV
Export Administration, Bureau of 15, VII
Federal Acquisition Regulation 48, 13
Fishery Conservation and Management 50, VI
Foreign-Trade Zones Board 15, IV
International Trade Administration 15, III; 19, III
National Institute of Standards and Technology 15, II
National Marine Fisheries Service 50, II, IV, VI
National Oceanic and Atmospheric Administration 15, IX; 50, II, III, IV, VI
National Telecommunications and Information Administration 15, XXIII; 47, III
Administration
National Weather Service 15, IX
Patent and Trademark Office 37, I
Productivity, Technology and Innovation, Assistant Secretary for
Secretary for
Secretary of Commerce, Office of
Technology, Under Secretary for 37, V
Technology Administration 15, XI
Technology Policy, Assistant Secretary for 37, IV
Commercial Space Transportation 14, III
Commodity Credit Corporation 7, XIV
Commodity Futures Trading Commission 5, XI; 17, I
Community Planning and Development, Office of Assistant Secretary for
Community Services, Office of 45, X
Comptroller of the Currency 12, I
Construction Industry Collective Bargaining Commission 29, IX
Consumer Product Safety Commission 5, LXXI; 16, II
Cooperative State Research, Education, and Extension Service 7, XXXIV
Copyright Office 37, II
Corporation for National and Community Service 45, XII, XXV
Cost Accounting Standards Board 48, 99
Council on Environmental Quality 40, V
Customs Service, United States 19, I
Defense Contract Audit Agency 32, I
Defense Department 5, XXVI; 32, Subtitle A;
Advanced Research Projects Agency 40, VII
Air Force Department 32, VII
Army Department
Defense Intelligence Agency
Defense Logistics Agency
Engineers, Corps of
Federal Acquisition Regulation
National Imagery and Mapping Agency
Navy Department
Secretary of Defense, Office of
Defense Contract Audit Agency
Defense Intelligence Agency
Defense Logistics Agency
Defense Nuclear Facilities Safety Board
Delaware River Basin Commission
Drug Enforcement Administration
East-West Foreign Trade Board
Economic Affairs, Under Secretary
Economic Analysis, Bureau of
Economic Development Administration
Economic Research Service
Education, Department of
Bilingual Education and Minority Languages Affairs, Office of
Civil Rights, Office of
Educational Research and Improvement, Office of
Elementary and Secondary Education, Office of
Federal Acquisition Regulation
Postsecondary Education, Office of
Secretary of Education, Office of
Special Education and Rehabilitative Services, Office of
Vocational and Adult Education, Office of
Educational Research and Improvement, Office of
Elementary and Secondary Education, Office of
Employees' Compensation Appeals Board
Employees Loyalty Board
Employment and Training Administration
Employment Standards Administration
Endangered Species Committee
Energy, Department of
Federal Acquisition Regulation
Federal Energy Regulatory Commission
Property Management Regulations
Environmental Quality, Office of
Equal Employment Opportunity Commission
Equal Opportunity, Office of Assistant Secretary for
Executive Office of the President
Administration, Office of
Environmental Quality, Council on
Management and Budget, Office of
National Drug Control Policy, Office of
National Security Council
Presidential Documents
Science and Technology Policy, Office of
Trade Representative, Office of the United States
Export Administration, Bureau of
Export-Import Bank of the United States
Family Assistance, Office of
Farm Credit Administration
Farm Credit System Insurance Corporation
Farm Service Agency
Federal Acquisition Regulation
<table>
<thead>
<tr>
<th>Agency</th>
<th>CFR Title, Subtitle or Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Aviation Administration</td>
<td>14, I</td>
</tr>
<tr>
<td>Commercial Space Transportation</td>
<td>14, III</td>
</tr>
<tr>
<td>Federal Claims Collection Standards</td>
<td>4, II</td>
</tr>
<tr>
<td>Federal Communications Commission</td>
<td>5, XXIX; 47, I</td>
</tr>
<tr>
<td>Federal Contract Compliance Programs, Office of</td>
<td>41, 60</td>
</tr>
<tr>
<td>Federal Crop Insurance Corporation</td>
<td>7, IV</td>
</tr>
<tr>
<td>Federal Deposit Insurance Corporation</td>
<td>5, XXII; 12, III</td>
</tr>
<tr>
<td>Federal Election Commission</td>
<td>11, I</td>
</tr>
<tr>
<td>Federal Emergency Management Agency</td>
<td>44, 44</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 21</td>
</tr>
<tr>
<td>Federal Employees Health Benefits Acquisition Regulation</td>
<td>48, 16</td>
</tr>
<tr>
<td>Federal Energy Regulatory Commission</td>
<td>5, XXIV; 18, I</td>
</tr>
<tr>
<td>Federal Financial Institutions Examination Council</td>
<td>12, XI</td>
</tr>
<tr>
<td>Federal Financing Bank</td>
<td>12, VIII</td>
</tr>
<tr>
<td>Federal Highway Administration</td>
<td>23, I, II; 49, III</td>
</tr>
<tr>
<td>Federal Home Loan Mortgage Corporation</td>
<td>1, IV</td>
</tr>
<tr>
<td>Federal Housing Enterprise Oversight Office</td>
<td>12, XVII</td>
</tr>
<tr>
<td>Federal Housing Finance Board</td>
<td>12, 1X</td>
</tr>
<tr>
<td>Federal Labor Relations Authority, and General Counsel of</td>
<td>5, XIV; 22, XIV</td>
</tr>
<tr>
<td>the Federal Labor Relations Authority</td>
<td></td>
</tr>
<tr>
<td>Federal Law Enforcement Training Center</td>
<td>31, VII</td>
</tr>
<tr>
<td>Federal Maritime Commission</td>
<td>46, 1V</td>
</tr>
<tr>
<td>Federal Mediation and Conciliation Service</td>
<td>29, XII</td>
</tr>
<tr>
<td>Federal Mine Safety and Health Review Commission</td>
<td>5, LXXIV; 29, XXVII</td>
</tr>
<tr>
<td>Federal Pay, Advisory Committee on</td>
<td>5, 4V</td>
</tr>
<tr>
<td>Federal Prison Industries, Inc.</td>
<td>28, III</td>
</tr>
<tr>
<td>Federal Procurement Policy Office</td>
<td>48, 99</td>
</tr>
<tr>
<td>Federal Property Management Regulations</td>
<td>41, 101</td>
</tr>
<tr>
<td>Federal Property Management Regulations System</td>
<td>41, Subtitle C</td>
</tr>
<tr>
<td>Federal Railroad Administration</td>
<td>49, II</td>
</tr>
<tr>
<td>Federal Register, Administrative Committee of</td>
<td>1, I</td>
</tr>
<tr>
<td>Federal Register, Office of</td>
<td>1, II</td>
</tr>
<tr>
<td>Federal Reserve System</td>
<td>12, II</td>
</tr>
<tr>
<td>Board of Governors</td>
<td></td>
</tr>
<tr>
<td>Federal Retirement Thrift Investment Board</td>
<td>5, LVIII</td>
</tr>
<tr>
<td>Federal Service Impasses Panel</td>
<td>5, VI, LXXVI</td>
</tr>
<tr>
<td>Federal Trade Commission</td>
<td>5, XIV</td>
</tr>
<tr>
<td>Federal Transit Administration</td>
<td>5, XLVII; 16, I</td>
</tr>
<tr>
<td>Federal Travel Regulation System</td>
<td>49, VI</td>
</tr>
<tr>
<td>Fine Arts, Commission on</td>
<td>45, XXI</td>
</tr>
<tr>
<td>Fiscal Service</td>
<td>31, II</td>
</tr>
<tr>
<td>Fish and Wildlife Service, United States</td>
<td>50, I, IV</td>
</tr>
<tr>
<td>Fishery Conservation and Management</td>
<td>50, VI</td>
</tr>
<tr>
<td>Food and Drug Administration</td>
<td>21, I</td>
</tr>
<tr>
<td>Food and Nutrition Service</td>
<td>7, II</td>
</tr>
<tr>
<td>Food Safety and Inspection Service</td>
<td>9, III</td>
</tr>
<tr>
<td>Foreign Agricultural Service</td>
<td>7, XV</td>
</tr>
<tr>
<td>Foreign Assets Control, Office of</td>
<td>31, V</td>
</tr>
<tr>
<td>Foreign Claims Settlement Commission of the United States</td>
<td>45, V</td>
</tr>
<tr>
<td>Foreign Service Grievance Board</td>
<td>22, 1X</td>
</tr>
<tr>
<td>Foreign Service Impasses Disputes Panel</td>
<td>22, XIV</td>
</tr>
<tr>
<td>Foreign Service Labor Relations Board</td>
<td>22, XIV</td>
</tr>
<tr>
<td>Foreign-Trade Zones Board</td>
<td>15, IV</td>
</tr>
<tr>
<td>Forest Service</td>
<td>36, II</td>
</tr>
<tr>
<td>General Accounting Office</td>
<td>41, I, II</td>
</tr>
<tr>
<td>General Services Administration</td>
<td>5, LVIII</td>
</tr>
<tr>
<td>Contract Appeals, Board of</td>
<td>48, 61</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 5</td>
</tr>
<tr>
<td>Federal Property Management Regulations System</td>
<td>41, 101, 105</td>
</tr>
<tr>
<td>Federal Travel Regulation System</td>
<td>41, Subtitle F</td>
</tr>
<tr>
<td>General Payment From a Non-Federal Source for Travel Expenses</td>
<td>41, 304</td>
</tr>
<tr>
<td>Payment of Expenses Connected With the Death of Certain Employees</td>
<td>41, 303</td>
</tr>
<tr>
<td>Relocation Allowances</td>
<td>41, 302</td>
</tr>
</tbody>
</table>

538
<table>
<thead>
<tr>
<th>Agency</th>
<th>CFR Title, Subtitle or Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary Duty (TDY) Travel Allowances</td>
<td>41, 301</td>
</tr>
<tr>
<td>Geological Survey</td>
<td>30, IV</td>
</tr>
<tr>
<td>Government Ethics, Office of</td>
<td>5, XVI</td>
</tr>
<tr>
<td>Government National Mortgage Association</td>
<td>24, III</td>
</tr>
<tr>
<td>Grain Inspection, Packers and Stockyards Administration</td>
<td>7, VIII; 9, II</td>
</tr>
<tr>
<td>Harry S. Truman Scholarship Foundation</td>
<td>45, XVIII</td>
</tr>
<tr>
<td>Health and Human Services, Department of</td>
<td>5, XLV; 45, Subtitle A</td>
</tr>
<tr>
<td>Child Support Enforcement, Office of</td>
<td>45, III</td>
</tr>
<tr>
<td>Children and Families, Administration for</td>
<td>45, II, III, IV, X</td>
</tr>
<tr>
<td>Community Services, Office of</td>
<td>45, X</td>
</tr>
<tr>
<td>Family Assistance, Office of</td>
<td>45, II</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 3</td>
</tr>
<tr>
<td>Food and Drug Administration</td>
<td>21, I</td>
</tr>
<tr>
<td>Health Care Financing Administration</td>
<td>42, IV</td>
</tr>
<tr>
<td>Human Development Services, Office of</td>
<td>45, XIII</td>
</tr>
<tr>
<td>Indian Health Service</td>
<td>25, V</td>
</tr>
<tr>
<td>Inspector General (Health Care), Office of</td>
<td>42, V</td>
</tr>
<tr>
<td>Public Health Service</td>
<td>42, I</td>
</tr>
<tr>
<td>Refugee Resettlement, Office of</td>
<td>45, IV</td>
</tr>
<tr>
<td>Health Care Financing Administration</td>
<td>42, IV</td>
</tr>
<tr>
<td>Housing and Urban Development, Department of</td>
<td>5, LXV; 24, Subtitle B</td>
</tr>
<tr>
<td>Community Planning and Development, Office of Assistant Secretary for</td>
<td>24, V, VI</td>
</tr>
<tr>
<td>Equal Opportunity, Office of Assistant Secretary for</td>
<td>24, I</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 24</td>
</tr>
<tr>
<td>Federal Housing Enterprise Oversight, Office of</td>
<td>12, XVII</td>
</tr>
<tr>
<td>Government National Mortgage Association</td>
<td>24, III</td>
</tr>
<tr>
<td>Housing—Federal Housing Commissioner, Office of Assistant Secretary for</td>
<td>24, II, VIII, X, XX</td>
</tr>
<tr>
<td>Inspector General, Office of</td>
<td>24, XII</td>
</tr>
<tr>
<td>Multifamily Housing Assistance Restructuring, Office of</td>
<td>24, IV</td>
</tr>
<tr>
<td>Public and Indian Housing, Office of Assistant Secretary for</td>
<td>24, IX</td>
</tr>
<tr>
<td>Secretary, Office of</td>
<td>24, Subtitle A, VII</td>
</tr>
<tr>
<td>Housing—Federal Housing Commissioner, Office of Assistant Secretary for</td>
<td>24, II, VIII, X, XX</td>
</tr>
<tr>
<td>Immigration and Naturalization Service</td>
<td>8, I</td>
</tr>
<tr>
<td>Independent Counsel, Office of</td>
<td>29, VII</td>
</tr>
<tr>
<td>Indian Affairs, Bureau of</td>
<td>25, I, V</td>
</tr>
<tr>
<td>Indian Affairs, Office of the Assistant Secretary</td>
<td>25, VI</td>
</tr>
<tr>
<td>Indian Arts and Crafts Board</td>
<td>25, II</td>
</tr>
<tr>
<td>Indian Health Service</td>
<td>25, V</td>
</tr>
<tr>
<td>Information Agency, United States</td>
<td>22, V</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 19</td>
</tr>
<tr>
<td>Information Resources Management, Office of</td>
<td>7, XXVII</td>
</tr>
<tr>
<td>Information Security Oversight Office, National Archives and Records Administration</td>
<td>32, XX</td>
</tr>
<tr>
<td>Inspector General</td>
<td></td>
</tr>
<tr>
<td>Agriculture Department</td>
<td>7, XXVI</td>
</tr>
<tr>
<td>Health and Human Services Department</td>
<td>42, V</td>
</tr>
<tr>
<td>Housing and Urban Development Department</td>
<td>24, XII</td>
</tr>
<tr>
<td>Institute of Peace, United States</td>
<td>22, XVII</td>
</tr>
<tr>
<td>Inter-American Foundation</td>
<td>5, LXIII; 22, X</td>
</tr>
<tr>
<td>Intergovernmental Relations, Advisory Commission on</td>
<td>5, VII</td>
</tr>
<tr>
<td>Interior Department</td>
<td></td>
</tr>
<tr>
<td>American Indians, Office of the Special Trustee</td>
<td>25, VII</td>
</tr>
<tr>
<td>Endangered Species Committee</td>
<td>50, IV</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 14</td>
</tr>
<tr>
<td>Federal Property Management Regulations System</td>
<td>41, 134</td>
</tr>
<tr>
<td>Fish and Wildlife Service, United States</td>
<td>50, I, IV</td>
</tr>
<tr>
<td>Geological Survey</td>
<td>30, IV</td>
</tr>
<tr>
<td>Indian Affairs, Bureau of</td>
<td>25, I, V</td>
</tr>
<tr>
<td>Indian Affairs, Office of the Assistant Secretary</td>
<td>25, VI</td>
</tr>
<tr>
<td>Indian Arts and Crafts Board</td>
<td>25, II</td>
</tr>
<tr>
<td>Land Management, Bureau of</td>
<td>43, II</td>
</tr>
<tr>
<td>Minerals Management Service</td>
<td>30, II</td>
</tr>
<tr>
<td>Mines, Bureau of</td>
<td>30, VI</td>
</tr>
<tr>
<td>Agency</td>
<td>CFR Title, Subtitle or Chapter</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>National Indian Gaming Commission</td>
<td>25, III</td>
</tr>
<tr>
<td>National Park Service</td>
<td>36, I</td>
</tr>
<tr>
<td>Reclamation, Bureau of</td>
<td>43, I</td>
</tr>
<tr>
<td>Secretary of the Interior, Office of</td>
<td>43, Subtitle A</td>
</tr>
<tr>
<td>Surface Mining and Reclamation Appeals, Board of</td>
<td>30, III</td>
</tr>
<tr>
<td>Surface Mining Reclamation and Enforcement, Office of</td>
<td>30, VII</td>
</tr>
<tr>
<td>Internal Revenue Service</td>
<td>26, I</td>
</tr>
<tr>
<td>International Boundary and Water Commission, United States Mexico</td>
<td>22, XI</td>
</tr>
<tr>
<td>International Development, United States Agency for</td>
<td>22, II</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 7</td>
</tr>
<tr>
<td>International Development Cooperation Agency, United States States</td>
<td>22, XII</td>
</tr>
<tr>
<td>International Development, United States Agency for</td>
<td>22, II; 48, 7</td>
</tr>
<tr>
<td>Overseas Private Investment Corporation</td>
<td>5, XXXIII; 22, VII</td>
</tr>
<tr>
<td>International Fishing and Related Activities</td>
<td>50, III</td>
</tr>
<tr>
<td>International Investment, Office of</td>
<td>31, VIII</td>
</tr>
<tr>
<td>International Joint Commission, United States and Canada</td>
<td>22, IV</td>
</tr>
<tr>
<td>International Organizations Employees Loyalty Board</td>
<td>5, V</td>
</tr>
<tr>
<td>International Trade Administration</td>
<td>15, III; 19, III</td>
</tr>
<tr>
<td>International Trade Commission, United States</td>
<td>19, II</td>
</tr>
<tr>
<td>Interstate Commerce Commission</td>
<td>5, XL</td>
</tr>
<tr>
<td>James Madison Memorial Fellowship Foundation</td>
<td>45, XXIV</td>
</tr>
<tr>
<td>Japan-United States Friendship Commission</td>
<td>22, XVI</td>
</tr>
<tr>
<td>Joint Board for the Enrollment of Actuaries</td>
<td>20, VIII</td>
</tr>
<tr>
<td>Justice Department</td>
<td>5, XXVIII; 28, I</td>
</tr>
<tr>
<td>Drug Enforcement Administration</td>
<td>21, II</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 28</td>
</tr>
<tr>
<td>Federal Claims Collection Standards</td>
<td>4, II</td>
</tr>
<tr>
<td>Federal Prison Industries, Inc.</td>
<td>28, III</td>
</tr>
<tr>
<td>Foreign Claims Settlement Commission of the United States States</td>
<td>45, V</td>
</tr>
<tr>
<td>Immigration and Naturalization Service</td>
<td>8, I</td>
</tr>
<tr>
<td>Offices of Independent Counsel</td>
<td>28, VI</td>
</tr>
<tr>
<td>Prisons, Bureau of</td>
<td>28, V</td>
</tr>
<tr>
<td>Property Management Regulations</td>
<td>41, 128</td>
</tr>
<tr>
<td>Labor Department</td>
<td>5, XLII</td>
</tr>
<tr>
<td>Benefits Review Board</td>
<td>20, VII</td>
</tr>
<tr>
<td>Employees' Compensation Appeals Board</td>
<td>20, IV</td>
</tr>
<tr>
<td>Employment and Training Administration</td>
<td>20, V</td>
</tr>
<tr>
<td>Employment Standards Administration</td>
<td>20, VI</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 29</td>
</tr>
<tr>
<td>Federal Contract Compliance Programs, Office of</td>
<td>41, 60</td>
</tr>
<tr>
<td>Federal Procurement Regulations System</td>
<td>41, 50</td>
</tr>
<tr>
<td>Labor-Management Standards, Office of</td>
<td>29, II; 19, IV</td>
</tr>
<tr>
<td>Mine Safety and Health Administration</td>
<td>30, I</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration</td>
<td>29, XVII</td>
</tr>
<tr>
<td>Pension and Welfare Benefits Administration</td>
<td>29, XXV</td>
</tr>
<tr>
<td>Public Contracts</td>
<td>41, 50</td>
</tr>
<tr>
<td>Secretary of Labor, Office of</td>
<td>29, Subtitle A</td>
</tr>
<tr>
<td>Veterans' Employment and Training, Office of the Assistant Secretary</td>
<td>41, 61; 20, IX</td>
</tr>
<tr>
<td>Wage and Hour Division</td>
<td>29, V</td>
</tr>
<tr>
<td>Workers' Compensation Programs, Office of</td>
<td>20, I</td>
</tr>
<tr>
<td>Labor-Management Standards, Office of</td>
<td>29, II; 19, IV</td>
</tr>
<tr>
<td>Land Management, Bureau of</td>
<td>43, II</td>
</tr>
<tr>
<td>Legal Services Corporation</td>
<td>45, XVI</td>
</tr>
<tr>
<td>Library of Congress</td>
<td>36, VII</td>
</tr>
<tr>
<td>Copyright Office</td>
<td>37, II</td>
</tr>
<tr>
<td>Management and Budget, Office of</td>
<td>5, III, LXXVII; 48, 99</td>
</tr>
<tr>
<td>Marine Mammal Commission</td>
<td>50, V</td>
</tr>
<tr>
<td>Maritime Administration</td>
<td>46, II</td>
</tr>
<tr>
<td>Merit Systems Protection Board</td>
<td>5, II</td>
</tr>
<tr>
<td>Micronesian Status Negotiations, Office for</td>
<td>32, XXVII</td>
</tr>
<tr>
<td>Mine Safety and Health Administration</td>
<td>30, I</td>
</tr>
<tr>
<td>Minerals Management Service</td>
<td>30, II</td>
</tr>
<tr>
<td>Mines, Bureau of</td>
<td>30, VI</td>
</tr>
<tr>
<td>Agency</td>
<td>CFR Title, Subtitle or Chapter</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Minority Business Development Agency</td>
<td>15, XIV</td>
</tr>
<tr>
<td>Miscellaneous Agencies</td>
<td>1, IV</td>
</tr>
<tr>
<td>Monetary Offices</td>
<td>31, I</td>
</tr>
<tr>
<td>Multifamily Housing Assistance Restructuring, Office of</td>
<td>24, IV</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>5, LIX; 14, V</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 18</td>
</tr>
<tr>
<td>National Agricultural Library</td>
<td>7, XLI</td>
</tr>
<tr>
<td>National Agricultural Statistics Service</td>
<td>7, XXXVI</td>
</tr>
<tr>
<td>National Archives and Records Administration</td>
<td>5, L XVI; 36, XII</td>
</tr>
<tr>
<td>Information Security Oversight Office</td>
<td>32, XX</td>
</tr>
<tr>
<td>National Bureau of Standards</td>
<td>15, II</td>
</tr>
<tr>
<td>National Capital Planning Commission</td>
<td>1, IV</td>
</tr>
<tr>
<td>National Commission for Employment Policy</td>
<td>1, IV</td>
</tr>
<tr>
<td>National Commission on Libraries and Information Science</td>
<td>45, XVII</td>
</tr>
<tr>
<td>National and Community Service, Corporation for</td>
<td>45, XII, XXV</td>
</tr>
<tr>
<td>National Council on Disability</td>
<td>34, XII</td>
</tr>
<tr>
<td>National Credit Union Administration</td>
<td>12, VII</td>
</tr>
<tr>
<td>National Drug Control Policy, Office of</td>
<td>21, III</td>
</tr>
<tr>
<td>National Foundation on the Arts and the Humanities</td>
<td>45, XI</td>
</tr>
<tr>
<td>National Highway Traffic Safety Administration</td>
<td>23, II, III; 49, V</td>
</tr>
<tr>
<td>National Imagery and Mapping Agency</td>
<td>32, I</td>
</tr>
<tr>
<td>National Indian Gaming Commission</td>
<td>25, III</td>
</tr>
<tr>
<td>National Institute for Literacy</td>
<td>34, XI</td>
</tr>
<tr>
<td>National Institute of Standards and Technology</td>
<td>15, II</td>
</tr>
<tr>
<td>National Labor Relations Board</td>
<td>5, L XVI; 29, I</td>
</tr>
<tr>
<td>National Marine Fisheries Service</td>
<td>50, II, IV, VI</td>
</tr>
<tr>
<td>National Mediation Board</td>
<td>29, X</td>
</tr>
<tr>
<td>National Oceanic and Atmospheric Administration</td>
<td>15, IX; 50, II, III, IV, VI</td>
</tr>
<tr>
<td>National Park Service</td>
<td>36, I</td>
</tr>
<tr>
<td>National Railroad Adjustment Board</td>
<td>29, III</td>
</tr>
<tr>
<td>National Railroad Passenger Corporation (AMTRAK)</td>
<td>49, VII</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>5, XLIII; 45, VI</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 25</td>
</tr>
<tr>
<td>National Security Council</td>
<td>32, XX</td>
</tr>
<tr>
<td>National Security Council and Office of Science and Technology Policy</td>
<td>47, II</td>
</tr>
<tr>
<td>National Telecommunications and Information Administration</td>
<td>15, XXIII; 47, III</td>
</tr>
<tr>
<td>National Transportation Safety Board</td>
<td>49, VIII</td>
</tr>
<tr>
<td>National Weather Service</td>
<td>15, IX</td>
</tr>
<tr>
<td>Natural Resources Conservation Service</td>
<td>7, VI</td>
</tr>
<tr>
<td>Navajo and Hopi Indian Relocation, Office of</td>
<td>25, IV</td>
</tr>
<tr>
<td>Navy Department</td>
<td>32, VI</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 52</td>
</tr>
<tr>
<td>Neighborhood Reinvestment Corporation</td>
<td>24, XXV</td>
</tr>
<tr>
<td>Northeast Dairy Compact Commission</td>
<td>7, XIII</td>
</tr>
<tr>
<td>Nuclear Regulatory Commission</td>
<td>5, XLVIII; 10, I</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 20</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration</td>
<td>29, XVII</td>
</tr>
<tr>
<td>Occupational Safety and Health Review Commission</td>
<td>29, XX</td>
</tr>
<tr>
<td>Offices of Independent Counsel</td>
<td>28, VI</td>
</tr>
<tr>
<td>Operations Office</td>
<td>7, XXVIII</td>
</tr>
<tr>
<td>Overseas Private Investment Corporation</td>
<td>5, XXXIII; 22, VII</td>
</tr>
<tr>
<td>Panama Canal Commission</td>
<td>48, 35</td>
</tr>
<tr>
<td>Panama Canal Regulations</td>
<td>35, I</td>
</tr>
<tr>
<td>Patent and Trademark Office</td>
<td>37, I</td>
</tr>
<tr>
<td>Payment From a Non-Federal Source for Travel Expenses</td>
<td>41, 304</td>
</tr>
<tr>
<td>Payment of Expenses Connected With the Death of Certain Employees</td>
<td>41, 303</td>
</tr>
<tr>
<td>Peace Corps</td>
<td>22, III</td>
</tr>
<tr>
<td>Pennsylvania Avenue Development Corporation</td>
<td>36, IX</td>
</tr>
<tr>
<td>Pension and Welfare Benefits Administration</td>
<td>29, XXV</td>
</tr>
<tr>
<td>Pension Benefit Guaranty Corporation</td>
<td>29, XL</td>
</tr>
<tr>
<td>Personnel Management, Office of</td>
<td>5, I, XXXV; 45, VIII</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 17</td>
</tr>
<tr>
<td>Federal Employees Group Life Insurance Federal Acquisition Regulation</td>
<td>48, 21</td>
</tr>
<tr>
<td>Agency</td>
<td>CFR Title, Subtitle or Chapter</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Federal Employees Health Benefits Acquisition Regulation</td>
<td>48, 16</td>
</tr>
<tr>
<td>Postal Rate Commission</td>
<td>5, XLVI; 39, III</td>
</tr>
<tr>
<td>Postal Service, United States</td>
<td>5, LX; 39, I</td>
</tr>
<tr>
<td>Postsecondary Education, Office of</td>
<td>34, VI</td>
</tr>
<tr>
<td>President's Commission on White House Fellowships</td>
<td>1, IV</td>
</tr>
<tr>
<td>Presidential Commission on the Assignment of Women in the Armed Forces</td>
<td>32, XXIX</td>
</tr>
<tr>
<td>Presidential Documents</td>
<td>3</td>
</tr>
<tr>
<td>Presidio Trust</td>
<td>36, X</td>
</tr>
<tr>
<td>Prisons, Bureau of</td>
<td>28, V</td>
</tr>
<tr>
<td>Procurement and Property Management, Office of</td>
<td>7, XXXII</td>
</tr>
<tr>
<td>Productivity, Technology and Innovation, Assistant Secretary</td>
<td>37, IV</td>
</tr>
<tr>
<td>Public Contracts, Department of Labor</td>
<td>41, 50</td>
</tr>
<tr>
<td>Public and Indian Housing, Office of Assistant Secretary for</td>
<td>24, 1X</td>
</tr>
<tr>
<td>Public Health Service</td>
<td>42, I</td>
</tr>
<tr>
<td>Railroad Retirement Board</td>
<td>20, II</td>
</tr>
<tr>
<td>Reclamation, Bureau of</td>
<td>43, 1</td>
</tr>
<tr>
<td>Refugee Resettlement, Office of</td>
<td>45, 1V</td>
</tr>
<tr>
<td>Regional Action Planning Commissions</td>
<td>13, V</td>
</tr>
<tr>
<td>Relocation Allowances</td>
<td>41, 302</td>
</tr>
<tr>
<td>Research and Special Programs Administration</td>
<td>49, I</td>
</tr>
<tr>
<td>Rural Business-Cooperative Service</td>
<td>7, XVIII, XLII</td>
</tr>
<tr>
<td>Rural Development Administration</td>
<td>7, XLII</td>
</tr>
<tr>
<td>Rural Housing Service</td>
<td>7, XVIII, XXXV</td>
</tr>
<tr>
<td>Rural Telephone Bank</td>
<td>7, XVI</td>
</tr>
<tr>
<td>Rural Utilities Service</td>
<td>7, XVII, XVIII, XLII</td>
</tr>
<tr>
<td>Saint Lawrence Seaway Development Corporation</td>
<td>33, 1V</td>
</tr>
<tr>
<td>Science and Technology Policy, Office of</td>
<td>32, XXIV</td>
</tr>
<tr>
<td>Science and Technology Policy, Office of, and National Security Council</td>
<td>47, II</td>
</tr>
<tr>
<td>Secret Service</td>
<td>31, 1V</td>
</tr>
<tr>
<td>Securities and Exchange Commission</td>
<td>17, 11</td>
</tr>
<tr>
<td>Selective Service System</td>
<td>32, XVI</td>
</tr>
<tr>
<td>Small Business Administration</td>
<td>13, 1</td>
</tr>
<tr>
<td>Smithsonian Institution</td>
<td>36, V</td>
</tr>
<tr>
<td>Social Security Administration</td>
<td>20, 11; 48, 23</td>
</tr>
<tr>
<td>Soldiers' and Airmen's Home, United States</td>
<td>5, XI</td>
</tr>
<tr>
<td>Special Counsel, Office of</td>
<td>5, VIII</td>
</tr>
<tr>
<td>Special Education and Rehabilitative Services, Office of</td>
<td>34, 31</td>
</tr>
<tr>
<td>State Department</td>
<td>22, 1</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 6</td>
</tr>
<tr>
<td>Surface Mining and Reclamation Appeals, Board of</td>
<td>30, 31</td>
</tr>
<tr>
<td>Surface Mining Reclamation and Enforcement, Office of</td>
<td>30, 31</td>
</tr>
<tr>
<td>Surface Transportation Board</td>
<td>49, X</td>
</tr>
<tr>
<td>Susquehanna River Basin Commission</td>
<td>18, VIII</td>
</tr>
<tr>
<td>Technology Administration</td>
<td>15, XI</td>
</tr>
<tr>
<td>Technology Policy, Assistant Secretary for</td>
<td>37, 1V</td>
</tr>
<tr>
<td>Technology, Under Secretary for</td>
<td>37, V</td>
</tr>
<tr>
<td>Tennessee Valley Authority</td>
<td>5, LXIX; 18, XIII</td>
</tr>
<tr>
<td>Thrift Supervision Office, Department of the Treasury</td>
<td>12, V</td>
</tr>
<tr>
<td>Trade Representative, United States, Office of</td>
<td>15, XX</td>
</tr>
<tr>
<td>Transportation, Department of</td>
<td>5, L</td>
</tr>
<tr>
<td>Coast Guard</td>
<td>33, 11; 46, 1; 49, 1V</td>
</tr>
<tr>
<td>Coast Guard (Great Lakes Pilotage)</td>
<td>46, III</td>
</tr>
<tr>
<td>Commercial Space Transportation</td>
<td>14, III</td>
</tr>
<tr>
<td>Contract Appeals, Board of</td>
<td>48, 13</td>
</tr>
<tr>
<td>Emergency Management and Assistance</td>
<td>44, 1V</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 12</td>
</tr>
<tr>
<td>Federal Aviation Administration</td>
<td>14, I</td>
</tr>
<tr>
<td>Federal Highway Administration</td>
<td>23, 1, 11; 49, 11</td>
</tr>
<tr>
<td>Federal Railroad Administration</td>
<td>49, 11</td>
</tr>
<tr>
<td>Federal Transit Administration</td>
<td>49, VI</td>
</tr>
<tr>
<td>Maritime Administration</td>
<td>46, 11</td>
</tr>
<tr>
<td>National Highway Traffic Safety Administration</td>
<td>23, 11, 111; 49, 49</td>
</tr>
<tr>
<td>Research and Special Programs Administration</td>
<td>49, 11</td>
</tr>
<tr>
<td>Saint Lawrence Seaway Development Corporation</td>
<td>33, 1V</td>
</tr>
<tr>
<td>Agency</td>
<td>CFR Title, Subtitle or Chapter</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Secretary of Transportation, Office of</td>
<td>14, II; 49, Subtitle A</td>
</tr>
<tr>
<td>Surface Transportation Board</td>
<td>49, X</td>
</tr>
<tr>
<td>Transportation Statistics Bureau</td>
<td>49, XI</td>
</tr>
<tr>
<td>Transportation, Office of</td>
<td>7, XXXIII</td>
</tr>
<tr>
<td>Transportation Statistics Bureau</td>
<td>49, XI</td>
</tr>
<tr>
<td>Travel Allowances, Temporary Duty (TDY)</td>
<td>41, 301</td>
</tr>
<tr>
<td>Treasury Department</td>
<td>5, XXI; 12, XV; 17, IV</td>
</tr>
<tr>
<td>Alcohol, Tobacco and Firearms, Bureau of</td>
<td>27, I</td>
</tr>
<tr>
<td>Comptroller of the Currency</td>
<td>12, XVIII</td>
</tr>
<tr>
<td>Customs Service, United States</td>
<td>19, I</td>
</tr>
<tr>
<td>Engraving and Printing, Bureau of</td>
<td>31, VI</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 10</td>
</tr>
<tr>
<td>Federal Law Enforcement Training Center</td>
<td>31, VII</td>
</tr>
<tr>
<td>Fiscal Service</td>
<td>31, II</td>
</tr>
<tr>
<td>Foreign Assets Control, Office of</td>
<td>31, V</td>
</tr>
<tr>
<td>Internal Revenue Service</td>
<td>26, I</td>
</tr>
<tr>
<td>International Investment, Office of</td>
<td>31, VIII</td>
</tr>
<tr>
<td>Monetary Offices</td>
<td>31, I</td>
</tr>
<tr>
<td>Secret Service</td>
<td>31, IV</td>
</tr>
<tr>
<td>Secretary of the Treasury, Office of</td>
<td>31, Subtitle A</td>
</tr>
<tr>
<td>Thrift Supervision, Office of</td>
<td>12, V</td>
</tr>
<tr>
<td>Truman, Harry S. Scholarship Foundation</td>
<td>45, XVIII</td>
</tr>
<tr>
<td>United States and Canada, International Joint Commission</td>
<td>22, IV</td>
</tr>
<tr>
<td>United States and Mexico, International Boundary and Water Commission, United States Section</td>
<td>22, XI</td>
</tr>
<tr>
<td>Utah Reclamation Mitigation and Conservation Commission</td>
<td>43, III</td>
</tr>
<tr>
<td>Veterans Affairs Department</td>
<td>38, I</td>
</tr>
<tr>
<td>Federal Acquisition Regulation</td>
<td>48, 8</td>
</tr>
<tr>
<td>Veterans’ Employment and Training, Office of the Assistant</td>
<td>41, 61; 20, IX</td>
</tr>
<tr>
<td>Secretary for</td>
<td></td>
</tr>
<tr>
<td>Vice President of the United States, Office of</td>
<td>32, XXVIII</td>
</tr>
<tr>
<td>Vocational and Adult Education, Office of</td>
<td>34, 1V</td>
</tr>
<tr>
<td>Wage and Hour Division</td>
<td>29, V</td>
</tr>
<tr>
<td>Water Resources Council</td>
<td>18, VI</td>
</tr>
<tr>
<td>Workers’ Compensation Programs, Office of</td>
<td>20, I</td>
</tr>
<tr>
<td>World Agricultural Outlook Board</td>
<td>7, XXXVIII</td>
</tr>
</tbody>
</table>
List of CFR Sections Affected

All changes in this volume of the Code of Federal Regulations which were made by documents published in the Federal Register since January 1, 1986, are enumerated in the following list. Entries indicate the nature of the changes effected. Page numbers refer to Federal Register pages. The user should consult the entries for chapters and parts as well as sections for revisions.


### 1986

<table>
<thead>
<tr>
<th>46 CFR</th>
<th>SL FR</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Authority citation revised; section authority citations removed</td>
<td>22805</td>
</tr>
<tr>
<td>1.10</td>
<td>(b) and (c) revised</td>
<td>22805</td>
</tr>
<tr>
<td>1.25</td>
<td>(a) revised</td>
<td>22805</td>
</tr>
<tr>
<td>2</td>
<td>Authority citation revised; subpart and section authority citations removed</td>
<td>19340</td>
</tr>
<tr>
<td>2.01-3</td>
<td>Added</td>
<td>19340</td>
</tr>
<tr>
<td>4</td>
<td>Heading and authority citation revised; section authority citations removed</td>
<td>19341</td>
</tr>
<tr>
<td>4.01-1</td>
<td>Revised</td>
<td>19341</td>
</tr>
<tr>
<td>4.04-1-4.04-5</td>
<td>(Subpart 4.04) Added</td>
<td>19341</td>
</tr>
<tr>
<td>5.64</td>
<td>Removed</td>
<td>19341</td>
</tr>
<tr>
<td>10.07-9</td>
<td>(b), (e), and (g) revised; interim</td>
<td>52330</td>
</tr>
<tr>
<td></td>
<td>Confirmed</td>
<td>10838</td>
</tr>
<tr>
<td>25</td>
<td>Authority citation revised; section authority citations removed</td>
<td>4350</td>
</tr>
<tr>
<td>25.25-5</td>
<td>(f) added</td>
<td>4350</td>
</tr>
<tr>
<td>35</td>
<td>Authority citation revised; section authority citations removed</td>
<td>4350</td>
</tr>
<tr>
<td>35.03-5</td>
<td>Revised</td>
<td>4350</td>
</tr>
<tr>
<td>35.03-25</td>
<td>Added</td>
<td>4350</td>
</tr>
<tr>
<td>(a) introductory text and (1) corrected</td>
<td>15497</td>
<td></td>
</tr>
</tbody>
</table>

### 1987

<table>
<thead>
<tr>
<th>46 CFR</th>
<th>SL FR</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.05</td>
<td>(b) Note amended; interim</td>
<td>38623</td>
</tr>
<tr>
<td>4.03-35</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>4.03-45</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>4.03-50</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>4.03-55</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>4.05-10</td>
<td>Revised</td>
<td>47534</td>
</tr>
<tr>
<td>4.05-12</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>4.05-35</td>
<td>Added</td>
<td>47534</td>
</tr>
<tr>
<td>5.201</td>
<td>Revised</td>
<td>47535</td>
</tr>
<tr>
<td>5.205</td>
<td>Added</td>
<td>47535</td>
</tr>
<tr>
<td>5.901</td>
<td>(d), (e) and (f) added</td>
<td>47535</td>
</tr>
<tr>
<td>10</td>
<td>Revised; interim; eff. in part</td>
<td>38623</td>
</tr>
<tr>
<td></td>
<td>12-1-88</td>
<td>38623</td>
</tr>
<tr>
<td>10.103</td>
<td>Amended; interim; eff. 4-1-89</td>
<td>38666</td>
</tr>
<tr>
<td>10.201</td>
<td>(f)(1) revised; interim; eff. 4-1-89</td>
<td>38666</td>
</tr>
<tr>
<td>10.205</td>
<td>(f)(1) revised; interim; eff. 4-1-89</td>
<td>38666</td>
</tr>
<tr>
<td>10.468</td>
<td>Text added; interim; eff. 4-1-89</td>
<td>38667</td>
</tr>
<tr>
<td>10.470</td>
<td>Added; interim; eff. 4-1-89</td>
<td>38668</td>
</tr>
<tr>
<td>10.540</td>
<td>Text added; interim; eff. 4-1-89</td>
<td>38668</td>
</tr>
<tr>
<td>10.701-10.713</td>
<td>(Subpart G) Added; interim</td>
<td>38659</td>
</tr>
<tr>
<td>10.920</td>
<td>Text added; interim; eff. 4-1-89</td>
<td>38669</td>
</tr>
<tr>
<td>10.950</td>
<td>Table amended; interim; eff. 4-1-89</td>
<td>38669</td>
</tr>
<tr>
<td>15</td>
<td>Redesignated from Part 157 and revised; interim</td>
<td>38652</td>
</tr>
<tr>
<td>15.301</td>
<td>(b), (8), (9), and (10) added; interim; eff. 10-1-89</td>
<td>38670</td>
</tr>
</tbody>
</table>
### 46 CFR—Continued

#### Chapter I—Continued

- **15.520** Text added; interim; eff. 10-1-89. ........................................ 38670
- **26.08-1** (Subpart 26.08) Text and authority citation revised ........... 47535
- **26.25-1—26.25-5** (Subpart 26.25)_removed; interim ......................... 38652
- **30 Authority citation revised; section authority citations removed ........ 7774
- **30.25-1** Revised........................................................................... 7774
- **31 Authority citation revised; section authority citations removed ....... 39649
- **31.10-20** Removed........................................................................ 38652
- **31.10-21** Added............................................................................ 39649
- **31.10-22** Added............................................................................ 39651
- **31.10-24** Added............................................................................ 39651
- **32 Authority citation revised; section authority citations removed ...... 18362
- **32.01-10** (d) added....................................................................... 18362
- **32.15-15** Revised........................................................................ 18362
- **32.15-20** Removed........................................................................ 18362
- **32.15-25** Removed........................................................................ 18362
- **32.40-1—32.40-90** (Subpart 32.40) Removed; interim ......................... 18362
- **32.40-1** (a) and (c) corrected....................................................... 22751
- **32.40-35** (d) corrected.................................................................. 22751
- **32.40-40** (c) and (l) corrected....................................................... 22751
- **35.30-5** Removed; interim............................................................. 39652
- **35.05-10** Removed; interim............................................................ 39652
- **35.15-1 (Subpart 35.15)** Revised.................................................... 47535

#### 1988

### 46 CFR

#### Chapter I

- **1.01** (b)(2) amended..................................................................... 34533
- **1.05 (a)(1) and (2) amended.......................................................... 34533
- **2 Authority citation revised......................................................... 7774, 36023, 37564
- **2.01-7** (a) table amended.............................................................. 36023
- **2.45-20** (a) amended.................................................................... 34533
- **2.75-5** (a) amended..................................................................... 34533
- **2.75-10** (b) amended................................................................. 34533
- **2.75-15** (a) amended.................................................................... 34533
- **2.75-17(d)(1) amended............................................................... 34533
- **2.75-60** Revised.......................................................................... 37564
- **4 Authority citation revised......................................................... 47077

### 46 CFR—Continued

#### Chapter I—Continued

- **4.03-2** Added................................................................................. 47077
- **4.03-4** Added................................................................................. 47077
- **4.03-5** Added................................................................................. 47077
- **4.03-6** Added................................................................................. 47077
- **4.03-7** Added................................................................................. 47077
- **4.05-1** (e) revised.......................................................................... 47077
- **4.05-20** Amended.......................................................................... 34533
- **4.06—4.06-60** (Subpart A) Added................................................... 47078
- **5 Authority citation revised......................................................... 37564
- **5.569** Table amended................................................................. 47078
- **6 Authority citation revised......................................................... 37564
- **6.06** Heading, (a), (b) introductory text, and (d) amended.............. 34533
- **7 Authority citation revised......................................................... 37564
- **9 Authority citation revised......................................................... 37564
- **10 Authority citation revised; section authority citations removed .... 37564
- **10.103** Amended.......................................................................... 31006
- **10.482** Added................................................................................. 31006
- **12 Authority citation revised; subpart and section authority citations removed ........................................... 37564
- **14 Authority citation revised; subpart and section authority citations removed ........................................... 37564
- **15 Authority citation revised; section authority citations removed .... 37565
- **15.301** (a) and (b) introductory text amended; (b)(6) added............. 18562
- **16 Authority citation revised; section authority citations removed .... 37565
- **16.105** Corrected.......................................................................... 48367
- **16.370** (a) and (c) corrected.......................................................... 48367
- **24 Authority citation revised; section authority citations removed .... 36023, 37565
- **24.01-10** Removed......................................................................... 36023
- **24.05-1** (a) table amended............................................................ 36023
- **25 Authority citation revised......................................................... 31006
- **25.26-1—25.26-5** (Subpart 25.26) Added; eff. 10-3-88 ..................... 31006
- **25.45-1** Amended.......................................................................... 36023
- **26 Authority citation revised; section authority citations removed .... 37565
List of CFR Sections Affected

### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>26.08-1</td>
<td>(Subpart 26.08) Authority citation correctly revised</td>
<td>13117</td>
</tr>
<tr>
<td>26.08-1</td>
<td>Corrected</td>
<td>13117</td>
</tr>
<tr>
<td>30</td>
<td>Authority citation revised</td>
<td>28972, 36023, 37565</td>
</tr>
<tr>
<td>30.01-2</td>
<td>(b) table amended (OMB numbers)</td>
<td>34297</td>
</tr>
<tr>
<td>30.01-5</td>
<td>(a)(1)(ii), (2)(ii) and (3)(iii) and (d) table amended</td>
<td>36023</td>
</tr>
<tr>
<td>30.01-25</td>
<td>(c) amended</td>
<td>36024</td>
</tr>
<tr>
<td>30.10-35</td>
<td>Amended</td>
<td>34533</td>
</tr>
<tr>
<td>31</td>
<td>Authority citation revised; section authority citations removed</td>
<td>7748, 36024, 37565</td>
</tr>
<tr>
<td>31.10-1</td>
<td>(b) amended</td>
<td>34534</td>
</tr>
<tr>
<td>31.10-18</td>
<td>(b) table footnote 1 and (c) table footnote 1 revised</td>
<td>7748</td>
</tr>
<tr>
<td>31.10-20</td>
<td>(a) and (d) amended</td>
<td>32229</td>
</tr>
<tr>
<td>31.10-21</td>
<td>(a)(1) and (2) amended; (b) through (f) redesignated as (c) through (g); new (b) added; (a) introductory text, (1) Table 31.10-21(a) and (2) Table 31.10-21(b), new (c) introductory text, and new (f) revised</td>
<td>32230</td>
</tr>
<tr>
<td>31.10-24</td>
<td>Heading revised; (a) amended</td>
<td>32230</td>
</tr>
<tr>
<td>31.10-33</td>
<td>(a)(2) amended</td>
<td>34533</td>
</tr>
<tr>
<td>32</td>
<td>Interpretation</td>
<td>32050</td>
</tr>
<tr>
<td>32.53-3</td>
<td>(a), (b), (d), and (e) amended</td>
<td>34534</td>
</tr>
<tr>
<td>33</td>
<td>Authority citation revised; section authority citations removed</td>
<td>36024, 37565</td>
</tr>
<tr>
<td>33.01-3</td>
<td>Added</td>
<td>17703</td>
</tr>
<tr>
<td>33.15-10</td>
<td>(j) revised</td>
<td>17704</td>
</tr>
<tr>
<td>34</td>
<td>Authority citation revised</td>
<td>7748, 37565</td>
</tr>
<tr>
<td>34.15-20</td>
<td>(i) revised</td>
<td>7748</td>
</tr>
<tr>
<td>35</td>
<td>Authority citation revised</td>
<td>36024, 37565</td>
</tr>
<tr>
<td>35.01-3</td>
<td>Added</td>
<td>17704</td>
</tr>
<tr>
<td>35.01-45</td>
<td>(d) amended</td>
<td>36024</td>
</tr>
<tr>
<td>35.12-5</td>
<td>(a) amended; (b) removed</td>
<td>27688</td>
</tr>
<tr>
<td>35.15-1</td>
<td>Heading and text corrected</td>
<td>13117</td>
</tr>
</tbody>
</table>

### 1989

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>46 CFR—Continued</td>
<td>54 FR Page</td>
<td>547</td>
</tr>
</tbody>
</table>
### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.211</td>
<td>(c) revised</td>
<td>135</td>
</tr>
<tr>
<td>10.217</td>
<td>(a)(1) revised</td>
<td>135</td>
</tr>
<tr>
<td>10.219</td>
<td>Revised</td>
<td>135</td>
</tr>
<tr>
<td>10.304</td>
<td>(a) revised</td>
<td>135</td>
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<td>(d) and (g) introductory text revised; (h) added</td>
<td>135</td>
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<td>(a), (b), and (c)(3) revised; (d) added</td>
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<td>Figures 10.403-1 and 10.403-2 removed; Figure 10.403 added</td>
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</tr>
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<td>10.406</td>
<td>(b)(2) revised</td>
<td>138</td>
</tr>
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<td>10.410</td>
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</tr>
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<td>10.412</td>
<td>Revised</td>
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</tr>
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<td>138</td>
</tr>
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<td>10.421</td>
<td>Added</td>
<td>138</td>
</tr>
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<td>10.422</td>
<td>(b)(4) revised</td>
<td>139</td>
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<td>10.424</td>
<td>Revised</td>
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</tr>
<tr>
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<td>Revised</td>
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<td>10.428</td>
<td>Redesignated as 10.427 and (a) (1) and (2) and (b) revised; new 10.428 redesignated from 10.429 and revised</td>
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</tr>
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<td>10.429</td>
<td>Redesignated as 10.428 and revised; new 10.429 added</td>
<td>139</td>
</tr>
<tr>
<td>10.430</td>
<td>Revised</td>
<td>139</td>
</tr>
<tr>
<td>10.440</td>
<td>Removed</td>
<td>140</td>
</tr>
<tr>
<td>10.442</td>
<td>Revised</td>
<td>140</td>
</tr>
<tr>
<td>10.444</td>
<td>Revised</td>
<td>140</td>
</tr>
<tr>
<td>10.446</td>
<td>Added</td>
<td>140</td>
</tr>
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<td>Added</td>
<td>140</td>
</tr>
<tr>
<td>10.452</td>
<td>Revised</td>
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<tr>
<td>10.454</td>
<td>(a) and (d) revised</td>
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<td>Redesignated as 10.457; new 10.456 redesignated from 10.455 and (b) revised and (d) added</td>
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<td>10.457</td>
<td>Redesignated from 10.456</td>
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<td>Added</td>
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</tr>
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<td>10.460</td>
<td>Section and Figure removed</td>
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<td>10.462</td>
<td>(b), (c), and (d) revised</td>
<td>141</td>
</tr>
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<td>(e) introductory text revised</td>
<td>142</td>
</tr>
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<td>10.466</td>
<td>(a) revised; (c) through (g) redesignated as (e), (c), (f), (g), and (h); new (d) and (g)(4) added</td>
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</tr>
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<td>10.468</td>
<td>Regulation at 53 FR 38668 effective date suspended</td>
<td>8334</td>
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<td>10.470</td>
<td>Regulation at 53 FR 38668 effective date suspended</td>
<td>8334</td>
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<tr>
<td>10.480</td>
<td>(k) revised</td>
<td>142</td>
</tr>
<tr>
<td>10.501</td>
<td>(b) introductory text revised</td>
<td>142</td>
</tr>
<tr>
<td>10.502</td>
<td>(b) introductory text revised; (c) added</td>
<td>142</td>
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<td>Redesignated as 10.505 and Figure 10.505 revised; new 10.504 added</td>
<td>142</td>
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<td>10.505</td>
<td>Redesignated from 10.504 and new Figure 10.505 revised</td>
<td>142</td>
</tr>
<tr>
<td>10.540</td>
<td>Regulation at 53 FR 38669 effective date suspended</td>
<td>8334</td>
</tr>
<tr>
<td>10.701</td>
<td>10.713 (Subpart G) Addition at 52 FR 38659 confirmed</td>
<td>132</td>
</tr>
<tr>
<td>10.701</td>
<td>(d) revised</td>
<td>144</td>
</tr>
<tr>
<td>10.703</td>
<td>(a) introductory text revised; (d) added</td>
<td>144</td>
</tr>
<tr>
<td>10.705</td>
<td>(b) revised</td>
<td>144</td>
</tr>
<tr>
<td>10.805</td>
<td>(d) revised</td>
<td>144</td>
</tr>
<tr>
<td>10.901</td>
<td>(c) removed</td>
<td>144</td>
</tr>
<tr>
<td>10.903</td>
<td>(a) and (b)(2) revised</td>
<td>144</td>
</tr>
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<td>10.905</td>
<td>Removed</td>
<td>144</td>
</tr>
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<td>10.910</td>
<td>Tables 10.910-1 and 10.910-2 revised</td>
<td>144</td>
</tr>
<tr>
<td>10.920</td>
<td>Regulation at 52 FR 38669 effective date suspended</td>
<td>8334</td>
</tr>
<tr>
<td>10.950</td>
<td>Table 10.950 revised</td>
<td>147</td>
</tr>
<tr>
<td>15</td>
<td>Redesignation from Part 157 and revision at 52 FR 38652 confirmed</td>
<td>132</td>
</tr>
<tr>
<td>15.301</td>
<td>(a) amended</td>
<td>149</td>
</tr>
<tr>
<td>15.301</td>
<td>Regulation at 52 FR 38670 effective date suspended</td>
<td>8334</td>
</tr>
<tr>
<td>15.301</td>
<td>Revised</td>
<td>149</td>
</tr>
<tr>
<td>15.501</td>
<td>(b) revised</td>
<td>149</td>
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<tr>
<td>15.510</td>
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<td>50379</td>
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<tr>
<td>15.520</td>
<td>Regulation at 52 FR 38670 effective date suspended</td>
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</tr>
<tr>
<td>15.801</td>
<td>Revised</td>
<td>149</td>
</tr>
<tr>
<td>15.805</td>
<td>(a)(4) added</td>
<td>149</td>
</tr>
</tbody>
</table>
List of CFR Sections Affected

46 CFR—Continued

Chapter I—Continued
15.810 (a) through (d) redesignated as (b) through (e); new (a) added; new (b) introductory text and (d) revised ......................149
15.901 Revised ..................................150
15.905 Revised ..................................150
15.910 (a) and (b) revised ...................150
15.915 Revised ..................................150
16.205 (a) revised ...........................26378
(a) revised ..................................52944
16.207 (b) revised ...........................53287
24.01–7 Added..................................50380
25 Authority citation revised........18409
25.01–3 Added; interim ....................6401
25.01–5 Added (OMB number); interim .........................................6401
25.26–1 (a) introductory text revised.........................................14812
25.45–1–25.45–2 (Subpart 25.45) Revised; interim ..........................6402
25.50–1 (Subpart 25.50) Added; interim........................................18409
30 Authority citation revised.........40009
30.10–71 Revised ..............................150
30.20–50 Revised ..............................50380
30.25–1 Regulation at 53 FR 28972 confirmed.................................................12629
Table 30.25–1 revised; interim............40009
31.15–1 (b) revised.............................150
31.15–5 Revised ...............................151
35.05–5 Removal at 52 FR 38652 confirmed..................................................132
35.05–10 Removal at 52 FR 38652 confirmed ..................................................132
35.35–1 (b) revised.............................151
38.01–3 Added; interim ......................50962
38.25–1 (a) (1), (3), and (b) revised: (a) (4), (5), and (b) note added; interim......................................................50962
38.25–3 Added; interim ......................50963

1990

46 CFR

Chapter I
2.01–6 (a)(1), (3), (4), and (b)(1) revised..............................................30659
2.01–7 (a) Table 2.01–7(a) footnote 6revised ...........................................30659
2.01–8 (a) revised ..................................30659
2.01–25 Heading, (a) introductory text revised ..................................30659
10.103 Amended; interim .............14798

46 CFR—Continued

Chapter I—Continued
10.107 (b)(1) revised; interim.........14799
10.201 (f)(1) revised; interim ..........14799
10.205 (f)(1) revised; interim ..........14799
10.468 Regulation at 54 FR 8334 withdrawn; added; interim ............14799
10.470 Regulation at 54 FR 8334 withdrawn; added; interim ..................14801
10.472 Regulation at 54 FR 8334 withdrawn; added; interim ..................14802
10.474 Regulation at 54 FR 8334 withdrawn; added; interim ..................14802
10.476 Added; interim ......................14802
10.540 Regulation at 54 FR 8334 withdrawn; added; interim ..................14802
10.542 Added; interim ......................14802
10.544 Added; interim ......................14802
10.920 Regulation at 54 FR 8334 withdrawn; added; interim ..................14802
10.950 Regulation at 54 FR 8334 withdrawn; Table 10.950 amended; interim ..........................14804
15.301 Regulation at 54 FR 8334 withdrawn; (b)(8) through (10) added; interim, eff. 1–1–91 ..................14805
15.520 Regulation at 54 FR 8334 withdrawn; revised; interim, eff. 1–1–91 ..................14805
15.720 (a) revised; (b) redesignated as (d); new (b) and (c) added; new (d) revised; interim ..................1212
15.810 (b)(2) through (4) redesignated (b)(3) through (5); (b)(1) revised; and new (b)(2) added; interim, eff. 1–1–91 ..................14805
16.205 (a) revised ..................................635
(a) and (b) revised ......................40179
24.05–1 (a) Table 24.05–1(a) footnote 6revised ...........................................30659
24.10–13 Revised ...........................30659
25.01–3 Revised ..............................39589
25.01–5 Regulation at 54 FR 6401 confirmed .................................................3959
25.26–1 (a) introductory text revised; (c) added ..................................14920
25.45–1–25.45–2 (Subpart 25.45) Regulation at 54 FR 6402 confirmed .................................................3959
25.45–2 (b) revised .............................3959
25.50–1 (Subpart 25.50) Regulation at 54 FR 18409 confirmed ............35988
25.50–1 Revised ............................18583, 39968
30 Authority citation revised ........25446
30.01–2 (b) table amended (OMB numbers) ..............................................25446
30.01–5 (d) Table 30.01–5(d) footnote 6and (e)(1) revised .................30660
### 46 CFR—Continued

#### 1993

<table>
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<th>Action</th>
<th>Effective Date</th>
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<td>32.95-1</td>
<td>Added; interim</td>
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<td>1.03-15</td>
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<td>Amended</td>
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</tr>
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<td>(a) revised</td>
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<td>(a) revised</td>
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<td>15238</td>
</tr>
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<td>12.01-7</td>
<td>Amended</td>
<td>15239</td>
</tr>
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<td>12.02-18</td>
<td>Added</td>
<td>15239</td>
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<td>12.02-23</td>
<td>(b) and (c) added</td>
<td>15239</td>
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<td>13361</td>
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<td>15.720</td>
<td>Regulation at 55 FR 1212 confirmed</td>
<td>13361</td>
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</table>
| 46 CFR—Continued

#### 1994

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<th>Action</th>
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<td>Revised; interim</td>
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<td>4.05-10</td>
<td>Revised; interim</td>
<td>39471</td>
</tr>
<tr>
<td>10 Authority citation revised</td>
<td>49297</td>
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<td>10.103</td>
<td>Regulation at 55 FR 14798 confirmed</td>
<td>10756</td>
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<td>Regulation at 55 FR 14799 confirmed</td>
<td>10756</td>
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<td>10.109</td>
<td>(d)(3) added; eff. 10-27-94</td>
<td>49297</td>
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<td>Regulation at 55 FR 14799 confirmed</td>
<td>10756</td>
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<td>Heading, (a), (b) and (c) revised; eff. 10-27-94</td>
<td>49297</td>
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<td>Revised; eff. 10-27-94</td>
<td>49297</td>
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<td>50964</td>
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<td>10.209</td>
<td>Revised; eff. 10-27-94</td>
<td>49297</td>
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<td>10.305</td>
<td>Revised; interim</td>
<td>53757</td>
</tr>
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<td>10.306</td>
<td>Added; interim</td>
<td>53758</td>
</tr>
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<td>Regulation at 55 FR 14799 confirmed</td>
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<td>Regulation at 55 FR 14799 confirmed</td>
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<td>Regulation at 55 FR 14801 confirmed</td>
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<td>Regulation at 55 FR 14801 confirmed</td>
<td>10756</td>
</tr>
</tbody>
</table>
## 46 CFR—Continued

### Chapter I—Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Status</th>
<th>Page</th>
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</thead>
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<tr>
<td>10.476</td>
<td>Regulation at 55 FR 14802 confirmed</td>
<td>10756</td>
</tr>
<tr>
<td>10.480</td>
<td>Revised; interim</td>
<td>53758</td>
</tr>
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<td>10.540</td>
<td>Regulation at 55 FR 14802 confirmed</td>
<td>10756</td>
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<td>10.542</td>
<td>Regulation at 55 FR 14802 confirmed; (c) added</td>
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<td>10.544</td>
<td>Regulation at 55 FR 14802 confirmed; (c) added</td>
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<td>10.805</td>
<td>(f) added; eff. 10-27-94</td>
<td>49300</td>
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<td>10.811</td>
<td>Added; eff. 1-1-95</td>
<td>49300</td>
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<td>(b)(1), (2) and (3) redesignated as (b)(2), (3) and (4); new (b)(1) added</td>
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<td>Regulation at 55 FR 14802 confirmed</td>
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<td>10.950</td>
<td>Regulation at 55 FR 14804 confirmed</td>
<td>10756</td>
</tr>
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<td>12.002-9</td>
<td>(e) added; eff. 10-27-94</td>
<td>49300</td>
</tr>
<tr>
<td>12.02-15</td>
<td>Revised; eff. 10-27-94</td>
<td>49300</td>
</tr>
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<td>12.02-17</td>
<td>(b) revised; eff. 10-27-94</td>
<td>49300</td>
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<td>Amdt.</td>
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</tr>
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<td>12.02-27</td>
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</tr>
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<td>12.02-29</td>
<td>Amdt.</td>
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<td>15.207</td>
<td>(b) revised</td>
<td>65483</td>
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<td>15.230</td>
<td>(c) and (e) revised; (f) redesignated as (k); new (f) and (g) through (j) added</td>
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<td>Table revised</td>
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<td>35.01-60</td>
<td>Added</td>
<td>16779</td>
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<td>38.001-2</td>
<td>17011</td>
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<td>40.01-1</td>
<td>Amdt.</td>
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### 46 CFR

#### 1995

<table>
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<tr>
<th>Section</th>
<th>Status</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>1.01-10</td>
<td>(b)(1) revised</td>
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<td>2.10-10</td>
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<td>50459</td>
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<td>2.10-105</td>
<td>(e) amended</td>
<td>50459</td>
</tr>
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<td>2.10-115</td>
<td>(b) amended</td>
<td>50459</td>
</tr>
<tr>
<td>2.10-245</td>
<td>(a) amended</td>
<td>50459</td>
</tr>
<tr>
<td>2.15-1</td>
<td>(d) and (f) amended</td>
<td>50459</td>
</tr>
<tr>
<td>2.15-10</td>
<td>(b) added</td>
<td>50459</td>
</tr>
<tr>
<td>2.15-17</td>
<td>(c)(2) revised; (d)(1) amended</td>
<td>50459</td>
</tr>
<tr>
<td>2.15-230</td>
<td>(c) added</td>
<td>50459</td>
</tr>
<tr>
<td>2.205</td>
<td>(j) added</td>
<td>4524</td>
</tr>
<tr>
<td>2.207</td>
<td>(g) added</td>
<td>65486</td>
</tr>
<tr>
<td>2.209</td>
<td>(g)(1) revised; (h) added</td>
<td>65486</td>
</tr>
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<td>2.210</td>
<td>(i) and (j) added</td>
<td>65486</td>
</tr>
<tr>
<td>2.230</td>
<td>(a) amended</td>
<td>50460</td>
</tr>
<tr>
<td>2.230</td>
<td>(c) amended</td>
<td>50460</td>
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<td>(a) amended</td>
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</tr>
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<td>2.230</td>
<td>(a) amended</td>
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<td>(c) amended</td>
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<td>50460</td>
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</table>

### 46 CFR

#### 1995

<table>
<thead>
<tr>
<th>Section</th>
<th>Status</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.01-2</td>
<td>(a)(9)(i) revised</td>
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<td>4.01-1</td>
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<td>4.01-15</td>
<td>(a)(3) and (e) amended</td>
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</tr>
</tbody>
</table>

---

### List of CFR Sections Affected

#### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>4525</td>
<td>10.805</td>
</tr>
<tr>
<td>4525</td>
<td>12. Authority citation revised</td>
</tr>
<tr>
<td>17142</td>
<td>12.01-5</td>
</tr>
<tr>
<td>65487</td>
<td>12.01-6</td>
</tr>
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<td>50460</td>
<td>12.02-2</td>
</tr>
<tr>
<td>50460</td>
<td>12.02-4</td>
</tr>
<tr>
<td>4525</td>
<td>(a) and (b) amended</td>
</tr>
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<td>65487</td>
<td>12.02-9</td>
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<td>12.02-13</td>
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<td>50460</td>
<td>12.02-14</td>
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<td>65487</td>
<td>12.02-21</td>
</tr>
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<td>50460</td>
<td>12.02-24</td>
</tr>
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<td>4525</td>
<td>12.02-27</td>
</tr>
<tr>
<td>50460</td>
<td>12.05-7</td>
</tr>
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<td>50460</td>
<td>12.10-3</td>
</tr>
<tr>
<td>50460</td>
<td>12.15-7</td>
</tr>
<tr>
<td>50460</td>
<td>12.15-13</td>
</tr>
<tr>
<td>50460</td>
<td>12.15-15</td>
</tr>
<tr>
<td>50460</td>
<td>12.20-1—12.20-5</td>
</tr>
<tr>
<td>17142</td>
<td>12.25-35</td>
</tr>
<tr>
<td>50460</td>
<td>12.25-40</td>
</tr>
<tr>
<td>17142</td>
<td>13</td>
</tr>
<tr>
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<td>14.01-3</td>
</tr>
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<td>14.20-15</td>
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<td>15</td>
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<td>15.815</td>
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<td>15.860</td>
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<td>24796</td>
<td>15.1001—15.1040</td>
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<td>16.105</td>
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<td>4525</td>
<td>16.205</td>
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<td>16.207</td>
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<td>16.220</td>
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<td>4525</td>
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<td>16.500</td>
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<td>54106</td>
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<td>25.01-3</td>
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<td>54106</td>
<td>25.20-5</td>
</tr>
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<td>2485</td>
<td>25.40-1</td>
</tr>
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<td>48048</td>
<td>28</td>
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<td>48048</td>
<td>28.40</td>
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<td>28.40</td>
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<td>28.115</td>
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<td>48048</td>
<td>28.135</td>
</tr>
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<td>50120</td>
<td>28.200—28.270</td>
</tr>
<tr>
<td>54444</td>
<td>28.200</td>
</tr>
<tr>
<td>54444</td>
<td>28.210</td>
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<td>48048</td>
<td>28.210</td>
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<td>28.575</td>
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<td>50461</td>
<td>28.800—28.805</td>
</tr>
<tr>
<td>48049</td>
<td>28.815</td>
</tr>
<tr>
<td>13324</td>
<td>28.850</td>
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<td>48049</td>
<td>30</td>
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<td>48049</td>
<td>30.01-5</td>
</tr>
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<td>13324</td>
<td>30.01-5</td>
</tr>
<tr>
<td>48049</td>
<td>30.01-25</td>
</tr>
<tr>
<td>50120</td>
<td>30.10-44</td>
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<td>48049</td>
<td>30.200-45</td>
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<tr>
<td>50120</td>
<td>30.10-44</td>
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</tbody>
</table>

553
46 CFR—Continued

Chapter I—Continued
39.10±5 (b) amended .......................50727
39.10±4 Revised; (b)(1) through (4) and (b)(7) removed; Table 39.10(E–1) and (f) through (m) redesignated as Table 39.10(E) and (g) through (n); new (e), (f) and (o) added ..................25999
39.10±9 (b)(1) through (8) and (9) and (10) redesignated as 39.10±8 and (b)(3) through (6), (7) and (10) removed; (b)(3) through (6), (8), (9) and (10) redesignated as (b)(2) through (8); interim ..........25999
39.10±10 (c) amended .......................50727
39.10±5 (a) and (b) amended ............50727
39.10±1 Revised; (b)(1) and (d)(2) revised; (a)(1) and (d)(2) revised; (a)(12) and (13) removed; (a)(14) redesignated as (a)(12) ..................25999
39.13–1 (Subpart 39.13) Revised ..........25999
39.15–1—39.15–10 (Subpart 39.15) Revised ....25999
39.16–1 (a) amended .......................50727
39.16–1 (a) designation, (b) and (c) removed ..........................25999
39.16–10 (c) revised; eff. 11–27–96 ........................................25999
39.16–5 Revised .............................25999
39.16–10 (b)(1) revised; (b)(2) and (7) removed; (b)(3) through (6), (8), (9) and (10) redesignated as (b)(2) through (8); interim ..........25999
39.16–15 Revised; interim ..........25286
39.16–15 Revised; interim ..........25286
39.16–5 Revised; interim ..........25287
39.16–6 Revised; interim ..........25287
39.16–7 Revised; interim ..........25287
39.16–9 Revised; interim ..........25287
39.16–10 Revised; interim ..........25287
39.16–20 Revised; interim ..........25287
39.16–25 Revised; interim ..........25287
39.16–30 Revised; interim ..........25287
39.16–35 Revised; interim ..........25287
39.20–15 Removed ...........................26000
39.20–25 Removed ...........................26000
39.20–30 Revised ...........................26000
39.20–35 Revised ...........................26000
39.25–1 Revised ......51040, 51041
39.25–1 Revised ......51040, 51041
39.25–1 Revised ......51040, 51041
39.25–1 Revised ......51040, 51041
39.30–4 Table amended; in- terim ..........19232, 67514
39.30–5 Revised; interim ..........25287
39.30–10 Revised; interim ..........25287
39.30–15 Revised; interim ..........25287
39.30–20 Revised; interim ..........25287
39.30–25 Revised; interim ..........25287
39.30–30 Revised; interim ..........25287
39.30–35 Revised; interim ..........25287
39.30–40 Revised; interim ..........25287
39.30–45 Revised; interim ..........25287
39.30–50 Revised; interim ..........25287
39.30–55 Revised; interim ..........25287
39.30–60 Revised; interim ..........25287
39.30–65 Revised; interim ..........25287
39.30–70 Revised; interim ..........25287
39.35–1–39.35–40 (Subpart 39.35) Revised ..........25287
39.40–1 (b) revised ..........................26000
39.50–1 (b) amended .......................50727
39.10–1 (b) amended .......................50727
39.10–5 (a) and (b) amended..........50727
39.12–10 (a) and (d)(2) revised; eff. 10–30–97 ......51195
39.20–1 (a) amended ..........26514, 51041
39.30–10 (a) and (d)(2) revised; eff. 10–30–97 ......51195
39.20–1 (a) and (d)(2) revised; eff. 10–30–97 ......51195
39.20–1 (b) and (d)(2) amended; eff. 10–30–97 ..........51195
39.20–1 (b) and (d)(2) amended; eff. 10–30–97 ..........51195
39.20–1 (b) revised; inter- interim ..........19232
39.20–5 Revised; interim ..........19232
39.20–25 Amended; interim ..........19232, 51041
39.20–101 Table amended; interim ...............19232
39.20–135 (a) amended ..........16703
39.20–1 Removed ...................51041
39.20–50 Amended ...................51041
39.25–1 (Subpart 2.50) Heading re- vised ...............16703
### List of CFR Sections Affected

#### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section added</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.75-1 (c) amended</td>
<td>51041</td>
</tr>
<tr>
<td>2.75-5 (a) amended</td>
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<tr>
<td>2.75-50 (c) amended</td>
<td>51195</td>
</tr>
<tr>
<td>2.75-1 Revised; eff. 10-30-97</td>
<td>51195</td>
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<tr>
<td>3.01-1 Amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>3.01-3 Removed; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>3.03-1 Amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>3.10-1 (a) amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>4.01-3 (d) added; eff. 10-30-97</td>
<td>51195</td>
</tr>
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<td>4.03-2 (a)(3) amended</td>
<td>51041</td>
</tr>
<tr>
<td>4.03-40 Revised; eff. 10-30-97</td>
<td>51195</td>
</tr>
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<td>4.06-60 (a) amended</td>
<td>51041</td>
</tr>
<tr>
<td>4.07-1 (c)(3) amended</td>
<td>51041</td>
</tr>
<tr>
<td>4.07-10 (a) introductory text and (b) amended</td>
<td>51042</td>
</tr>
<tr>
<td>4.40-3 (b) amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>4.40-5 (a) revised; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>4.40-30 (f) amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
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<td>5.507 (a) amended</td>
<td>51042</td>
</tr>
<tr>
<td>5.521 (a) amended</td>
<td>51042</td>
</tr>
<tr>
<td>5.527 (c) amended</td>
<td>51042</td>
</tr>
<tr>
<td>5.537 (c) amended</td>
<td>51042</td>
</tr>
<tr>
<td>6.07 (a) and (b) amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>6.15 Removed; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>7.1 Amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
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<td>8 Regulation at 61 FR 68517 eff. date corrected to 12-27-96</td>
<td>3335</td>
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<td>Revised</td>
<td>67532</td>
</tr>
<tr>
<td>8.120 (b) corrected</td>
<td>3335</td>
</tr>
<tr>
<td>8.130 (a)(4) and (5) corrected</td>
<td>3335</td>
</tr>
<tr>
<td>8.320 (b)(9) corrected</td>
<td>3335</td>
</tr>
<tr>
<td>10 Authority citation revised</td>
<td>34528</td>
</tr>
<tr>
<td>10.101 (a) and (c) revised; interim</td>
<td>34528</td>
</tr>
<tr>
<td>10.102 Added; interim</td>
<td>34529</td>
</tr>
<tr>
<td>10.103 Amended; interim</td>
<td>34529</td>
</tr>
<tr>
<td>10.107 (b)(3) added; interim</td>
<td>34529</td>
</tr>
<tr>
<td>10.112 (b) amended</td>
<td>51042</td>
</tr>
<tr>
<td>10.201 (a) revised; interim</td>
<td>34529</td>
</tr>
<tr>
<td>10.202 Heading revised; (j), (k) and (l) added; interim</td>
<td>34529</td>
</tr>
<tr>
<td>(k)(2) and (l)(1) corrected</td>
<td>40140</td>
</tr>
<tr>
<td>(k) and (l) corrected</td>
<td>40281</td>
</tr>
<tr>
<td>(e) amended; eff. 10-30-97</td>
<td>51195</td>
</tr>
<tr>
<td>10.205 Heading revised; (l) through (p) added; interim</td>
<td>34530</td>
</tr>
<tr>
<td>(l), (n)(1)(ii) and (2) corrected</td>
<td>40281</td>
</tr>
<tr>
<td>10.207 Heading, (c) heading and (1) revised; interim</td>
<td>34530</td>
</tr>
<tr>
<td>10.209 Heading revised; (k) added; interim</td>
<td>34531</td>
</tr>
</tbody>
</table>

#### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section added</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.209 (k) corrected</td>
<td>40281</td>
</tr>
<tr>
<td>10.304 Heading revised; (e) through (h) added; interim</td>
<td>34531</td>
</tr>
<tr>
<td>10.305 Revised</td>
<td>11303</td>
</tr>
<tr>
<td>10.306 Revised</td>
<td>11304</td>
</tr>
<tr>
<td>10.307 Revised</td>
<td>11304</td>
</tr>
<tr>
<td>10.309 Added; interim</td>
<td>34531</td>
</tr>
<tr>
<td>10.401–10.482 (Subpart D) Heading revised; interim</td>
<td>34532</td>
</tr>
<tr>
<td>10.470 (b)(2)(ii), (d)(2)(ii), (f)(2)(ii), (h)(2)(i) and (j)(2)(ii) amended; eff. 10-30-97</td>
<td>51195</td>
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<tr>
<td>10.472 (a)(2)(ii) amended; eff. 10-30-97</td>
<td>51195</td>
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<td>10.474 (a)(2)(ii) amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
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<td>10.480 Revised</td>
<td>11305</td>
</tr>
<tr>
<td>10.491 Added; interim</td>
<td>34532</td>
</tr>
<tr>
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<td>34532</td>
</tr>
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<td>34532</td>
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<td>34532</td>
</tr>
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<td>10.551 Added; interim</td>
<td>34532</td>
</tr>
<tr>
<td>Corrected</td>
<td>40140</td>
</tr>
<tr>
<td>10.553 Added; interim</td>
<td>34532</td>
</tr>
<tr>
<td>10.555 Added; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.601 Revised; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.603 Heading revised; (d) and (e) added; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.901–10.950 (Subpart I) Heading revised; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.901 (c) and (d) added; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.903 (c) and (d) added; interim</td>
<td>34533</td>
</tr>
<tr>
<td>10.1001–10.1005 (Subpart J) Amended</td>
<td>34534</td>
</tr>
<tr>
<td>12.01-1 Revised; interim</td>
<td>34534</td>
</tr>
<tr>
<td>12.01-3 Added; interim</td>
<td>34534</td>
</tr>
<tr>
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<td>40140</td>
</tr>
<tr>
<td>12.01-5 Removed; eff. 10-30-97</td>
<td>51196</td>
</tr>
<tr>
<td>12.01-6 Amended; interim</td>
<td>34534</td>
</tr>
<tr>
<td>Amended</td>
<td>51042</td>
</tr>
<tr>
<td>12.01-9 Added; interim</td>
<td>34535</td>
</tr>
<tr>
<td>12.02-7 (d), (e) and (f) added; interim</td>
<td>34535</td>
</tr>
<tr>
<td>12.02-11 Heading revised; (h) and (i) added; interim</td>
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</tr>
<tr>
<td>12.02-17 (e) added; interim</td>
<td>34535</td>
</tr>
<tr>
<td>12.02-19 Amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
<tr>
<td>12.03-1 (Subpart 12.03) Added; interim</td>
<td>34536</td>
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<td>(c) corrected</td>
<td>40140</td>
</tr>
</tbody>
</table>
### List of CFR Sections Affected

#### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter I—Continued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.10-21</td>
<td>Amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
<tr>
<td>24.15-5</td>
<td>Amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
<tr>
<td>25.25-5</td>
<td>(e) amended</td>
<td>51042</td>
</tr>
<tr>
<td>25.25-13</td>
<td>(b) and (c) amended</td>
<td>51042</td>
</tr>
<tr>
<td>25.26-5</td>
<td>(b) introductory text and (c) introductory text amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
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<td>25.26-20</td>
<td>(a) introductory text and (b) introductory text amended; eff. 10-30-97</td>
<td>51196</td>
</tr>
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<td>25.30-10</td>
<td>(a)(1) introductory text and (1) revised; eff. 10-30-97</td>
<td>51196</td>
</tr>
<tr>
<td>25.30-16</td>
<td>(a), (b)(3), (c) and (e) revised; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>25.30-20</td>
<td>(a) and (d) revised; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>25.30-25</td>
<td>(a) introductory text amended; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>25.30-30</td>
<td>Amended</td>
<td>51043</td>
</tr>
<tr>
<td>25.30-35</td>
<td>Authority citation revised</td>
<td>67514</td>
</tr>
<tr>
<td>26.03-10</td>
<td>(a) designation removed</td>
<td>51042</td>
</tr>
<tr>
<td>26.10-1—26.10-5</td>
<td>Removed; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>26.40</td>
<td>(b) amended</td>
<td>51042</td>
</tr>
<tr>
<td>28.01-1</td>
<td>(b) amended</td>
<td>51043</td>
</tr>
<tr>
<td>28.01-3</td>
<td>Regulation at 61 FR 68521</td>
<td>67536</td>
</tr>
<tr>
<td>28.01-10</td>
<td>Amended; eff. date corrected to 12-27-96</td>
<td>3335</td>
</tr>
<tr>
<td>28.22T-1—33.22T-5</td>
<td>Added; eff. 4-28-97 through 4-30-97</td>
<td>14830</td>
</tr>
<tr>
<td>30.01-3</td>
<td>Removed; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>30.01-5</td>
<td>(g) amended</td>
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</tr>
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<td>30.01-15</td>
<td>(a) and (b) designation removed; eff. 10-30-97</td>
<td>51197</td>
</tr>
</tbody>
</table>

#### 46 CFR—Continued

<table>
<thead>
<tr>
<th>Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter I—Continued</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31.01-1</td>
<td>(a) amended</td>
<td>51043</td>
</tr>
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<td>31.01-3</td>
<td>Regulation at 61 FR 68521</td>
<td>67536</td>
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<td>31.10-5</td>
<td>(a)(1) revised; eff. 10-30-97</td>
<td>51197</td>
</tr>
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<td>31.10-16</td>
<td>(a), (b)(3), (c) and (e) revised; eff. 10-30-97</td>
<td>51197</td>
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<td>31.10-20</td>
<td>(a) and (d) revised; eff. 10-30-97</td>
<td>51197</td>
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<td>31.10-21</td>
<td>(d)(4), (e) introductory text and (1) revised; eff. 10-30-97</td>
<td>51197</td>
</tr>
<tr>
<td>31.10-33</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>31.37-1—31.37-95</td>
<td>(Subpart 31.37) Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.40-30</td>
<td>Added</td>
<td>67514</td>
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<td>32.40-40</td>
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<td>67514</td>
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<td>32.40-1</td>
<td>Authority citation revised</td>
<td>14830</td>
</tr>
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<td>32.22T-1—32.22T-5</td>
<td>Abridged; eff. 4-28-97 through 4-30-97</td>
<td>14830</td>
</tr>
<tr>
<td>32.53-1</td>
<td>(a)(2) amended</td>
<td>51043</td>
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<td>32.53-3</td>
<td>(a), (d) and (e) amended</td>
<td>51043</td>
</tr>
<tr>
<td>32.53-10</td>
<td>(b) revised; (c) through (f) removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-15</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-20</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-25</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-30</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-35</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-40</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-45</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-50</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-55</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-60</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-65</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-70</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-75</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.53-80</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
</tbody>
</table>
### 46 CFR—Continued

#### Chapter I—Continued

<table>
<thead>
<tr>
<th>CFR Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.53-85</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.55-20</td>
<td>(e) added; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.55-40</td>
<td>Removed; eff. 10-30-97</td>
<td>51198</td>
</tr>
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<td>32.56-1</td>
<td>Existing text designated as (a); (b) added; eff. 10-30-97</td>
<td>51198</td>
</tr>
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<td>32.57-1</td>
<td>(b) added; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>32.57-10</td>
<td>(d)(4) revised; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>33.01-15</td>
<td>(b) amended</td>
<td>51043</td>
</tr>
<tr>
<td>34.01-5</td>
<td>(f) revised; eff. 10-30-97</td>
<td>51198</td>
</tr>
<tr>
<td>34.10-10</td>
<td>(1) revised; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>34.15-5</td>
<td>(d) removed; (e) redesignated as (d); eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>34.20-5</td>
<td>(b)(1) revised; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>34.30-1</td>
<td>(Subpart 34.30) Added; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.01-3</td>
<td>(b) amended</td>
<td>51043</td>
</tr>
<tr>
<td>35.01-40</td>
<td>Removed; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.07-10</td>
<td>(b)(2) and (c)(2) amended; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.10-3</td>
<td>Revised; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.12-1</td>
<td>(Subpart 35.12) Removed; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.25-15</td>
<td>Revised; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.25-20</td>
<td>Removed; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.30-20</td>
<td>(d) removed; eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.30-40</td>
<td>(b) removed; (a) introductory text (1), (2), and (3) redesignated as introductory text, (a), (b), and (c); eff. 10-30-97</td>
<td>51199</td>
</tr>
<tr>
<td>35.35-30</td>
<td>Heading, (a) and (b) introductory text revised</td>
<td>25135</td>
</tr>
<tr>
<td>35.35-35</td>
<td>Introductory text revised; (f) added</td>
<td>25135</td>
</tr>
<tr>
<td>36.01-1</td>
<td>(c) amended</td>
<td>51043</td>
</tr>
<tr>
<td>39.10-5</td>
<td>(b) amended</td>
<td>51043</td>
</tr>
<tr>
<td>39.10-13</td>
<td>(b) removed; (c), (d) and (e) redesignated as (b), (c) and (d); eff. 10-30-97</td>
<td>51200</td>
</tr>
</tbody>
</table>

#### 1998

### 46 CFR

#### Chapter I

<table>
<thead>
<tr>
<th>CFR Section</th>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01-10</td>
<td>(b)(1) introductory text and (iv) amended; (b)(1)(iv) redesignated as (b)(1)(ii)(D); (b)(1)(ii) revised</td>
<td>52188</td>
</tr>
</tbody>
</table>

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560
List of CFR Sections Affected

46 CFR—Continued

1999

(Regulations published from January 1, 1999, through October 1, 1999)

46 CFR

Chapter I

1.03-15 (h)(3) revised 4984

1.03-45 Revised 4984

2.01-30 (a)(1)(iv), (4)(i), (b)(2) and (e)(2) amended; (a)(1)(v) and (4)(ii) removed; (a)(1)(vi) through (ix) and (4)(iii) redesignated as (a)(1)(v) through (viii) and (4)(i) 53222

2.10-30 (c) amended 53223

4.05-40 Added 53223

4.06-60 (e) added 53223

5.1—5.5 (Subpart A) Heading revised; interim 28075

5.1 Removed; interim 28075

5.3 Amended; interim 28075

5.11 Removed; interim 28075

5.13 Removed; interim 28075

5.23 Removed; interim 28075

5.25 Removed; interim 28075

5.33 Amended; interim 28075

5.35 Amended; interim 28075

5.53 Removed; interim 28075

5.55 Heading and (a) amended; interim 28075

5.63 Removed; interim 28075

5.105 (a) amended; interim 28075

5.107 Revised; interim 28075

5.305 Revised; interim 28075

5.501 Revised; interim 28075

5.503 Removed; interim 28075

5.505 Removed; interim 28075

5.507 Removed; interim 28075

5.509 Removed; interim 28075

5.511 Removed; interim 28075

5.513 Removed; interim 28075

5.515 Removed; interim 28075

5.517 Removed; interim 28075

5.519 Removed; interim 28075

5.523 Removed; interim 28075

5.525 Removed; interim 28075

5.527 Removed; interim 28075

5.529 Removed; interim 28075

5.531 Removed; interim 28075

5.533 Removed; interim 28075

5.535 Removed; interim 28075

5.537 Removed; interim 28075

5.539 Removed; interim 28075

5.541 Removed; interim 28075

5.543 Removed; interim 28075

5.545 Removed; interim 28075

5.547 Removed; interim 28075

46 CFR—Continued

Page

15.1050 Added 52855

25.26-5 (b)(2) and (c) amended 52189

25.26-20 (a) and (b)(2) revised; (b)(3) removed 52189

25.26-30 Removed 52189

26.03-5 (a)(2) amended 52189

28.130 (a)(2) amended; eff. 11-2-98 52813

30.01-5 Regulation at 61 FR 25286 confirmed 52813

30.01-6 Regulation at 61 FR 25286 confirmed 52813

30.10-43 Amended 52190

31.01-1 Regulation at 61 FR 25286 confirmed 52813

31.05-1 Regulation at 61 FR 25286 confirmed 52813

31.36-1 (Subpart 31.36) Regulation at 61 FR 25286 confirmed 52813

31.40-1 (Subpart 31.40) Regulation at 61 FR 25287 confirmed 52813

32 Authority citation revised 71764

32.15-15 (a) and (d) revised; (f) added; interim 71764

32.15-15 (e) added; interim; eff. 12-11-00 71764

32.57-10 (d)(4) amended 52190

33 Regulation at 61 FR 25286 confirmed 52813

35.07-10 Regulation at 61 FR 25286 confirmed 52813

35.07-10 Regulation at 61 FR 25286 confirmed 52813

35.10-1 Regulation at 61 FR 25286 confirmed 52813

35.10-5 Regulation at 61 FR 25286 confirmed 52813

35.10-6 Regulation at 61 FR 25286 confirmed 52813

35.10-7 Regulation at 61 FR 25286 confirmed 52813

35.10-9 Regulation at 61 FR 25286 confirmed 52813

35.10-20 Regulation at 61 FR 25287 confirmed 52813

35.10-25 Regulation at 61 FR 25287 confirmed 52813

35.10-30 Regulation at 61 FR 25287 confirmed 52813

35.30-50 Regulation at 61 FR 25287 confirmed 52813

35.30-55 Regulation at 61 FR 25287 confirmed 52813

35.40-135.40-40 (Subpart 35.40) Regulation at 61 FR 25287 confirmed 52813

561