

§ 223.1

APPENDIX C TO PART 221—SCHEDULE OF CIVIL PENALTIES¹—Continued

Section	Violation	Willful violation
221.17 Movement of defective equipment	(¹)	(¹)

¹A penalty may be assessed against an individual only for a willful violation. The Administrator reserves the right to assess a penalty of up to \$20,000 for any violation where circumstances warrant. See 49 CFR part 209, appendix A. Where the conditions for movement of defective equipment set forth in §221.17 of this part are not met, the movement constitutes a violation of §221.13 of this part.

[53 FR 52930, Dec. 29, 1988]

PART 223—SAFETY GLAZING STANDARDS—LOCOMOTIVES, PASSENGER CARS AND CABOOSES

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APPENDIX A TO PART 223—CERTIFICATION OF GLAZING MATERIALS

APPENDIX B TO PART 223—SCHEDULE OF CIVIL PENALTIES

AUTHORITY: 45 U.S.C. 431 and 438, as amended; Pub. L. 100-342; and 49 CFR 1.49(m).

Subpart A—General

§ 223.1 Scope.

This part provides minimum requirements for glazing materials in order to protect railroad employees and railroad passengers from injury as a result of objects striking the windows of locomotives, caboose and passenger cars.

[44 FR 77352, Dec. 31, 1979]

§ 223.3 Application.

(a) This part applies to railroads that operate rolling equipment on standard

gauge track that is a part of the general railroad system of transportation.

(b) This part does not apply to—

(1) Locomotives, cabooses, and passenger cars that operate only on track inside an installation that is not part of the general railroad system of transportation;

(2) Rapid transit operations in an urban area that are not connected with the general railroad system of transportation.

(3) Locomotives, passenger cars and cabooses that are historical or antiquated equipment and are used only for excursion, educational, recreational purposes or private transportation purposes.

(4) Locomotives that are used exclusively in designated service as defined in §223.5(m).

[44 FR 77352, Dec. 31, 1979, as amended at 53 FR 28600, July 28, 1988]

§ 223.5 Definitions.

As used in this part—

(a) *Locomotive* means a self-propelled unit of equipment designed primarily for moving other equipment. It does not include self-propelled passenger cars.

(b) *Caboose* means a car in a freight train intended to provide transportation for crew members.

(c) *Passenger car* means a unit of rolling equipment intended to provide transportation for members of the general public and includes self-propelled cars designed to carry baggage, mail, express and passengers.

(d) *Yard* is a system of auxiliary tracks used exclusively for the classification of passenger or freight cars according to commodity or destination; assembling of cars for train movement; storage of cars; or repair of equipment.

(e) *Yard locomotive* means a locomotive that is operated only to perform switching functions within a single yard area.

(f) *Yard caboose* means a caboose that is used exclusively in a single yard area.

(g) *Rebuilt locomotive, caboose or passenger car* means a locomotive, caboose or passenger car that has undergone overhaul which has been identified by the railroad as a capital expense under

Interstate Commerce Commission accounting standards.

(h) *Windshield* means the combination of individual units of glazing material of the locomotive, passenger car, or caboose that are positioned in an end facing glazing location.

(i) *End facing glazing location* means any location where a line perpendicular to the plane of the glazing material makes a horizontal angle of 50 degrees or less with the centerline of the locomotive, caboose or passenger car. Any location which, due to curvature of the glazing material, can meet the criteria for either a front facing location or a side facing location shall be considered a front facing location.

(j) *Side facing glazing location* means any location where a line perpendicular to the plane of the glazing material makes an angle of more than 50 degrees with the centerline of the locomotive, caboose or passenger car.

(k) *Certified glazing* means a glazing material that has been certified by the manufacturer as having met the testing requirements set forth in appendix A of this part and that has been installed in such a manner that it will perform its intended function.

(l) *Emergency opening window* means that segment of a side facing glazing location which has been designed to permit rapid and easy removal during a crisis situation.

(m) *Designated service* means exclusive operation of a locomotive under the following conditions;

(1) The locomotive is not used as an independent unit or the controlling unit is a consist of locomotives except when moving for the purpose of servicing or repair within a single yard area;

(2) The locomotive is not occupied by operating or deadhead crews outside a single yard area; and

(3) The locomotive is stenciled "Designated Service—DO NOT OCCUPY".

(n) *Locomotive cab* means that portion of the superstructure designed to be occupied by the crew while operating the locomotive.

[44 FR 77352, Dec. 31, 1979; 45 FR 49271, July 24, 1980]

§ 223.7 Responsibility.

Any person (including a railroad and any manager, supervisor, official, or

other employee or agent of a railroad) who violates any requirement of this part or causes the violation of any such requirement is subject to a civil penalty of at least \$250 and not more than \$10,000 per violation, except that: Penalties may be assessed against individuals only for willful violations, and, where a grossly negligent violation or a pattern of repeated violations has created an imminent hazard of death or injury to persons, or has caused death or injury, a penalty not to exceed \$20,000 per violation may be assessed. Each day a violation continues shall constitute a separate offense. See appendix B to this part for a statement of agency civil penalty policy.

[53 FR 28601, July 28, 1988, as amended at 53 FR 52930, Dec. 29, 1988]

Subpart B—Specific Requirements

§ 223.9 Requirements for new or rebuilt equipment.

(a) Locomotives, including yard locomotives, built or rebuilt after June 30, 1980, must be equipped with certified glazing in all locomotive cab windows.

(b) Caboose, including yard cabooses, built or rebuilt after June 30, 1980, must be equipped with certified glazing in all windows.

(c) Passenger cars, including self-propelled passenger cars, built or rebuilt after June 30, 1980, must be equipped with certified glazing in all windows and at least four emergency opening windows.

[44 FR 77352, Dec. 31, 1979, as amended at 45 FR 49271, July 24, 1980]

§ 223.11 Requirements for existing locomotives.

(a) Locomotives, other than yard locomotives, built or rebuilt prior to July 1, 1980, which are equipped in the forward and rearward end facing glazing locations of the locomotive cab windshield with a glazing material that meets the criteria for either portion of the impact testing required for a Type I test under the provisions of appendix A of this part, will not require the installation of certified glazing in the windshield location except to replace windshield glazing material that is broken or damaged.

(b) Locomotives, other than yard locomotives, built or rebuilt prior to July 1, 1980, which are equipped in all locomotive cab side facing glazing locations with a glazing material that meets the criteria for either portion of the impact testing required for a Type II test under the provisions of appendix A of this part, will not require the installation of certified glazing in the sidefacing glazing location except to replace sidefacing glazing material that is broken or damaged.

(c) Except for yard locomotives and locomotives equipped as described in paragraphs (a) and (b), of this section, locomotives built or rebuilt prior to July 1, 1980, shall be equipped with certified glazing in all locomotive cab windows after June 30, 1984.

(d) Each locomotive subject to the provisions of paragraph (c) of this section which, as a result of an act of vandalism has a locomotive cab window that is broken or damaged so that the window fails to permit good visibility—

(1) Shall be placed in Designated Service within 48 hours of the time of breakage or damage or

(2) Shall be removed from service until equipped with certified glazing in the following manner:

(i) If the broken or damaged window is a part of the windshield of the locomotive cab, all of the forward and rearward end facing glazing locations of the locomotive cab must be replaced with certified glazing.

(ii) If the broken or damaged window is a part of the sidefacing window of the locomotive cab, all of the sidefacing glazing locations of the locomotive cab must be replaced with certified glazing.

(Sec. 209 of the Federal Railroad Safety Act, 94 Stat. 957 (45 U.S.C. 438); sec. 1.49(m) of the regulations of the Office of the Secretary of Transportation, 49 CFR 1.49(m))

[45 FR 49271, July 24, 1980, as amended at 48 FR 24083, May 31, 1983; 48 FR 56956, Dec. 27, 1983]

§ 223.13 Requirements for existing cabooses.

(a) Cabooses, other than yard cabooses, built or rebuilt prior to July 1, 1980, which are equipped in the forward and rearward end facing glazing locations of the windshield with a glazing

material that meets the criteria for either portion of the impact testing required for a Type I test under the provisions of appendix A of this part, will not require the installation of certified glazing in the windshield location except to replace windshield glazing material that is broken or damaged.

(b) Cabooses, other than yard cabooses, built or rebuilt prior to July 1, 1980, which are equipped in all side facing glazing locations with a glazing material that meets the criteria for either portion of the impact testing required for a Type II test under the provisions of appendix A of this part, will not require the installation of certified glazing in the sidefacing glazing locations except to replace sidefacing glazing material that is broken or damaged.

(c) Except for yard cabooses and cabooses equipped as described in paragraphs (a) and (b), cabooses built or rebuilt prior to July 1, 1980, shall be equipped with certified glazing in all windows after June 30, 1984.

(d) Each caboose subject to the provision of paragraph (c) of this section, which, as a result of an act of vandalism, has a window that is broken or damaged so that the window fails to permit good visibility shall be equipped with certified glazing in the following manner:

(1) If the broken window is a part of the windshield, all of the forward and rearward end facing glazing locations must be replaced with certified glazing within 30 days of the date of breakage or damage.

(2) If the broken window is a part of the sidefacing window, all of the sidefacing glazing locations must be replaced with certified glazing within 30 days of the date of breakage.

(Sec. 209 of the Federal Railroad Safety Act, 94 Stat. 957 (45 U.S.C. 438); § 1.49(m) of the regulations of the Office of the Secretary of Transportation, 49 CFR 1.49(m))

[44 FR 77352, Dec. 31, 1979, as amended at 48 FR 24083, May 31, 1983; 48 FR 56956, Dec. 27, 1983]

§ 223.15 Requirements for existing passenger cars.

(a) Passenger cars built or rebuilt prior to July 1, 1980, which are equipped in the forward and rearward

end facing glazing locations of the windshield with a glazing material that meets the criteria for either portion of the impact testing required for a Type I test under the provisions of appendix A of this part will not require the installation of certified glazing in the windshield location except to replace windshield glazing material that is broken or damaged.

(b) Passenger cars built or rebuilt prior to July 1, 1980, which are equipped in the sidefacing glazing locations with a glazing material that meets the criteria for either portion of the impact testing required for a Type II test under the provisions of appendix A of this part, will not require the installation of certified glazing except to replace sidefacing glazing material that is broken or damaged.

(c) Except for passenger cars described in paragraphs (a) and (b), passenger cars built or rebuilt prior to July 1, 1980, shall be equipped with certified glazing in all windows and a minimum of four emergency windows after June 30, 1984.

(d) Each passenger car subject to the provisions of paragraph (c) of this section which as a result of an act of vandalism, has a window that is broken or damaged so that the window fails to permit good visibility shall be equipped with certified glazing in the following manner:

(1) When the broken window is a part of the windshield, all of the forward and rearward end facing glazing locations shall be replaced with certified glazing within 30 days of breakage.

(2) When the broken window is a part of the sidefacing window, the glazing in that individual sidefacing glazing location shall be replaced with certified glazing within 30 days of the date of breakage.

(Sec. 209 of the Federal Railroad Safety Act, 94 Stat. 957 (45 U.S.C. 438); sec. 1.49(m) of the regulations of the Office of the Secretary of Transportation, 49 CFR 1.49(m))

[44 FR 77352, Dec. 31, 1979, as amended at 48 FR 24083, May 31, 1983; 48 FR 56956, Dec. 27, 1983]

§223.17 Identification of equipped locomotives, passenger cars and cabooses.

Each locomotive, passenger car and caboose that is fully equipped with glazing materials that meet the requirements of this part shall be stencilled on an interior wall as follows:

“Fully Equipped FRA Part 223 glazing” or similar words conveying that meaning in letters at least $\frac{3}{8}$ inch high.

[45 FR 49271, July 24, 1980]

APPENDIX A TO PART 223— CERTIFICATION OF GLAZING MATERIALS

As provided in this part, certified glazing materials installed in locomotives, passenger cars, or cabooses must be certified by the glazing manufacturer in accordance with the following procedures:

a. General Requirements

(1) Each manufacturer that provides glazing materials, intended by the manufacturer for use in achieving compliance with the requirements of this part, shall certify that each type of glazing material being supplied for this purpose has been successfully tested in accordance with this appendix and that test verification data is available to a railroad or to FRA upon request.

(2) The test verification data shall contain all pertinent original data logs and documentation that the selection of material samples, test set-ups, test measuring devices, and test procedures were performed by qualified personnel using recognized and acceptable practices and in accordance with this appendix.

b. Testing Requirements

(1) The material to be tested (Target Material) shall be a full scale sample of the largest dimension intended to be produced and installed.

(2) The Target Material shall be representative of production material and shall be selected on a documented random choice basis.

(3) The Target Material shall be securely and rigidly attached in a fixture so that the fixture's own characteristics will not induce test errors.

(4) The Target Material so selected and attached shall constitute a Test Specimen.

(5) The Test Specimen will then be equipped with a Witness Plate that shall be mounted parallel to and at a distance of six inches in back of the Target Material. The Witness Plate shall have at least an area which will cover the full map of the Target Material.

(6) The Witness Plate shall be an unbacked sheet of maximum 0.006 inch, alloy 1100 temper O, aluminum stretched within the perimeter of a suitable frame to provide a taut surface.

(7) The Test Specimen will be positioned so that the defined projectile impacts it at an angle of 90 degrees to the Test Specimen surface.

(8) The point of impact of the defined projectile will be within a radius of 3" of the centroid of the Target Material.

(9) Velocity screens or other suitable velocity measuring devices will be positioned so as to measure the impact velocity of the defined projectile within a 10% accuracy tolerance, with test modifications made to guarantee that the stipulated minimum velocity requirements are met.

(10) The Test Specimen for glazing material that is intended for use in end facing glazing locations shall be subjected to a Type I test regimen consisting of the following tests:

(i) Ballistic Impact in which a standard 22 caliber long rifle lead bullet of 40 grains in weight impacts at a minimum of 960 feet per second velocity.

(ii) Large Object Impact in which a cinder block of 24 lbs minimum weight with dimensions of 8 inches by 8 inches by 16 inches nominally impacts at the corner of the block at a minimum of 44 feet per second velocity. The cinder block must be of composition referenced in American Society for Testing and Materials (ASTM) Specification C33L or ASTM C90.

(11) The Test Specimen for glazing material that is intended for use only in side facing glazing locations shall be subjected to a Type II test regimen consisting of the following tests:

(i) Ballistic Impact in which a standard 22 caliber long rifle lead bullet of 40 grains in weight impacts at a minimum of 960 feet per second velocity.

(ii) Large Object Impact in which a cinder block of 24 lbs minimum weight with dimensions of 8 inches by 8 inches by 16 inches nominally impacts at the corner of the block at a minimum of 12 feet per second velocity. The cinder block must be of the composition referenced in ASTM C33L or ASTM C90.

(12) Three different test specimens must be subjected to the ballistic impact portion of these tests.

(13) Two different test specimens must be subjected to the large object impact portion of these tests.

(14) A material so tested must perform so that:

(i) there shall be no penetration of the back surfaces (side closest to Witness Plate) of the Target Material by the projectile. Partial penetration of the impact (front) surface of the Target Material does not constitute a failure; and

(ii) there shall be no penetration of particles from the back side of the Target Material through the back side of the prescribed Witness Plate.

(15) Test specimens must consecutively pass the required number of tests at the required minimum velocities. Individual tests resulting in failures at greater than the required minimum velocities may be repeated but a failure of an individual test at less than the minimum velocity shall result in termination of the total test and failure of the material.

(16) After successful completion of the prescribed set of required consecutive tests, a manufacturer may certify in writing that a particular glazing material meets the requirements of these standards.

c. Material Identification

(1) Each individual unit of glazing material shall be permanently marked, prior to installation, to indicate that this type of material has been successfully tested as set forth in this appendix and that marking shall be done in such a manner that it is clearly visible after the material has been installed.

(2) Each individual unit of a glazing material that has successfully passed the Type I testing regimen shall be marked to indicate:

- (i) "FRA Type I" material;
- (ii) the manufacturer of the material;
- (iii) the type or brand identification of the material.

(3) Each individual unit of a glazing material that has successfully passed the Type II testing regimen shall be marked to indicate:

- (i) "FRA Type II" material;
- (ii) the manufacturer of the material;
- (iii) the type or brand identification of the material.

APPENDIX B TO PART 223—SCHEDULE OF CIVIL PENALTIES ¹

Section	Violation	Willful violation
223.9 New or rebuilt equipment:		
(a) Locomotives	\$2,500	\$5,000
(b) Caboosees	2,500	5,000
(c) Passenger cars	2,500	5,000
223.11(c) Existing locomotives	2,500	5,000
(d) repair of window	1,000	2,000
223.13(c) Existing caboosees ...	2,500	5,000
(d) Repair of window	1,000	2,000
223.15(c) Existing passenger cars	2,500	5,000
(d) repair of window	1,000	2,000
223.17 Identification of units ...	500	1,000

¹ A penalty may be assessed against an individual only for a willful violation. The Administrator reserves the right to assess a penalty of up to \$20,000 for any violation where circumstances warrant. See 49 CFR part 209, appendix A.

[53 FR 52930, Dec. 29, 1988]

**PART 225—RAILROAD ACCIDENTS/
INCIDENTS: REPORTS CLASSI-
FICATION, AND INVESTIGATIONS**

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APPENDIX A TO PART 225—SCHEDULE OF CIVIL PENALTIES

APPENDIX B TO PART 225—SCHEDULE OF CIVIL PENALTIES

AUTHORITY: 49 U.S.C. 20901, 20102, 322(a), 21302, 21304, formerly codified at 45 U.S.C. 38, 42, 43, and 43a; 49 U.S.C. 20102-20103, 20107, 20108, 20110, 20131-20143, 21301-21302, 21304, 21311, 24902, formerly codified at 45 U.S.C. 39, 431, 437, and 438; 49 U.S.C. 103, 49 U.S.C. 20901-20902, 21302, formerly codified at 49 App. U.S.C. 1655(e)(1)(K); 49 CFR 1.49 (c), (g), and (m).

SOURCE: 39 FR 43224, Dec. 11, 1974, unless otherwise noted.

§ 225.1 Purpose.

The purpose of this part is to provide the Federal Railroad Administration with accurate information concerning the hazards and risks that exist on the Nation's railroads. FRA needs this information to effectively carry out its regulatory responsibilities under 49 U.S.C. chapters 201-213. FRA also uses this information for determining comparative trends of railroad safety and to develop hazard elimination and risk

reduction programs that focus on preventing railroad injuries and accidents. Issuance of these regulations under the federal railroad safety laws and regulations preempts States from prescribing accident/incident reporting requirements. Any State may, however, require railroads to submit to it copies of accident/incident and injury/illness reports filed with FRA under this part, for accidents/incidents and injuries/illnesses which occur in that State.

[61 FR 30967, June 18, 1996]

EFFECTIVE DATE NOTE: At 61 FR 30967, June 18, 1996, § 225.1 was revised, effective Jan. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 225.1 Purpose.

The purpose of this part is to provide the Federal Railroad Administration (FRA) with information concerning hazardous conditions on the Nation's railroads. FRA needs this information to carry out effectively its regulatory responsibilities under the Federal Railroad Safety Act of 1970 and the Accidents Reports Act. Issuance of these regulations under the Federal Railroad Safety Act preempts States from prescribing accident/incident reporting requirements. Any State may, however, require railroads to submit to it copies of accident/incident reports filed with FRA under this part, for accidents/incidents which occur in that State. The reporting and recordkeeping requirements prescribed in this part have been approved by the Office of Management and Budget in accordance with the Paperwork Reduction Act of 1980.

(Approved by the Office of Management and Budget under control number 2130-0500)

[49 FR 48939, Dec. 17, 1984, as amended at 53 FR 28601, July 28, 1988; 54 FR 33229, Aug. 14, 1989]

§ 225.3 Applicability.

This part applies to all railroads except—

(a) A railroad that operates freight trains only on track inside an installation which is not part of the general railroad system of transportation or that owns no track except for track that is inside an installation that is not part of the general railroad system of transportation and used for freight operations.

(b) Rail mass transit operations in an urban area that are not connected with the general railroad system of transportation.