

**§§ 17.24–17.43**

AVIATION RED OBSTRUCTION LIGHTING  
[RESERVED]

**§§ 17.24–17.43 [Reserved]**

**§ 17.45 Temporary warning lights.**

During construction of an antenna structure, for which red obstruction lighting is required, at least two 116- or 125-watt lamps (A21/TS) enclosed in aviation red obstruction light globes, shall be installed at the uppermost point of the structure. The intensity of each lamp shall not be less than 32.5 candelas. In addition, as the height of the structure exceeds each level at which permanent obstruction lights will be required, two similar lights shall be installed at each such level. These temporary warning lights shall be displayed nightly from sunset to sunrise until the permanent obstruction lights have been installed and placed in operation, and shall be positioned so as to insure unobstructed visibility of at least one of the lights at any normal angle of approach. If practical, the permanent obstruction lights may be installed and operated at each required level as construction progresses.

[32 FR 11273, Aug. 3, 1967, as amended at 39 FR 26157, July 17, 1974; 42 FR 54826, Oct. 11, 1977]

**§ 17.47 Inspection of antenna structure lights and associated control equipment.**

The owner of any antenna structure which is registered with the Commission and has been assigned lighting specifications referenced in this part:

(a)(1) Shall make an observation of the antenna structure's lights at least once each 24 hours either visually or by observing an automatic properly maintained indicator designed to register any failure of such lights, to insure that all such lights are functioning properly as required; or alternatively,

(2) Shall provide and properly maintain an automatic alarm system designed to detect any failure of such lights and to provide indication of such failure to the owner.

(b) Shall inspect at intervals not to exceed 3 months all automatic or mechanical control devices, indicators, and alarm systems associated with the

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antenna structure lighting to insure that such apparatus is functioning properly.

[61 FR 4363, Feb. 6, 1996]

**§ 17.48 Notification of extinguishment or improper functioning of lights.**

The owner of any antenna structure which is registered with the Commission and has been assigned lighting specifications referenced in this part:

(a) Shall report immediately by telephone or telegraph to the nearest Flight Service Station or office of the Federal Aviation Administration any observed or otherwise known extinguishment or improper functioning of any top steady burning light or any flashing obstruction light, regardless of its position on the antenna structure, not corrected within 30 minutes. Such reports shall set forth the condition of the light or lights, the circumstances which caused the failure, the probable date for restoration of service, the FCC Antenna Structure Registration Number, the height of the structure (AGL and AMSL if known) and the name, title, address, and telephone number of the person making the report. Further notification by telephone or telegraph shall be given immediately upon resumption of normal operation of the light or lights.

(b) An extinguishment or improper functioning of a steady burning side intermediate light or lights, shall be corrected as soon as possible, but notification to the FAA of such extinguishment or improper functioning is not required.

[32 FR 11273, Aug. 3, 1967, as amended at 39 FR 26157, July 17, 1974; 40 FR 30267, July 18, 1975; 61 FR 4364, Feb. 6, 1996]

**§ 17.49 Recording of antenna structure light inspections in the owner record.**

The owner of each antenna structure which is registered with the Commission and has been assigned lighting specifications referenced in this part must maintain a record of any observed or otherwise known extinguishment or improper functioning of a structure light and include the following information for each such event:

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(a) The nature of such extinguishment or improper functioning.

(b) The date and time the extinguishment or improper operation was observed or otherwise noted.

(c) Date and time of FAA notification, if applicable.

(d) The date, time and nature of adjustments, repairs, or replacements made.

[48 FR 38477, Aug. 24, 1983, as amended at 61 FR 4364, Feb. 6, 1996]

**§ 17.50 Cleaning and repainting.**

Antenna structures requiring painting under this part shall be cleaned or repainted as often as necessary to maintain good visibility.

[61 FR 4364, Feb. 6, 1996]

**§ 17.51 Time when lights should be exhibited.**

(a) All red obstruction lighting shall be exhibited from sunset to sunrise unless otherwise specified.

(b) All high intensity and medium intensity obstruction lighting shall be exhibited continuously unless otherwise specified.

[40 FR 30267, July 18, 1975, as amended at 61 FR 4364, Feb. 6, 1996]

**§ 17.53 Lighting equipment and paint.**

The lighting equipment, color or filters, and shade of paint referred to in the specifications are further defined in the following government and/or Army-Navy aeronautical specifications, bulletins, and drawings (lamps are referred to by standard numbers):

Outside white .....	TT-P-102 <sup>1</sup> (Color No. 17875, FS-595).
Aviation surface orange .....	TT-P-59 <sup>1</sup> (Color No. 12197, FS-595).
Aviation surface orange, enamel.	TT-E-489 <sup>1</sup> (Color No. 12197, FS-595).
Aviation red obstruction light—color.	MIL-C-25050 <sup>2</sup> .
Flashing beacons .....	CAA-446 <sup>3</sup> Code Beacons, 300 mm.
Do .....	MIL-6273 <sup>2</sup> .
Double and single obstruction light.	L-810 <sup>3</sup> (FAA AC No. 150/5345-2 <sup>4</sup> ).
Do .....	MIL-L-7830 <sup>2</sup> .
High intensity white obstruction light.	FAA/DOD L-856 (FAA AC No. 150/5345-43B <sup>4</sup> ).
116-Watt lamp .....	No. 116 A21/TS (6,000 h).
125-Watt lamp .....	No. 125 A21/TS (6,000 h).
620-Watt lamp .....	No. 620 PS-40 (3,000 h).

700-Watt lamp .....	No. 700 PS-40 (6,000 h).
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<sup>1</sup> Copies of this specification can be obtained from the Specification Activity, Building 197, Room 301, Naval Weapons Plant, 1st and N Streets, SE., Washington, D.C. 20407.

<sup>2</sup> Copies of Military specifications can be obtained by contacting the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Ave., Attention: NPPC-105, Philadelphia, Pa. 19120.

<sup>3</sup> Copies of Federal Aviation Administration specifications may be obtained from the Chief, Configuration Control Branch, AAF-110, Department of Transportation, Federal Aviation Administration, 800 Independence Avenue SW., Washington, D.C. 20591.

<sup>4</sup> Copies of Federal Aviation Administration advisory circulars may be obtained from the Department of Transportation, Publications Section, TAD-443.1, 400 7th St. SW., Washington, D.C. 20590.

[33 FR 11540, Aug. 14, 1968, as amended at 40 FR 30267, July 18, 1975]

**§ 17.54 Rated lamp voltage.**

To insure the necessary lumen output by obstruction lights, the rated voltage of incandescent lamps used shall correspond to be within 3 percent higher than the voltage across the lamp socket during the normal hours of operation.

[42 FR 54826, Oct. 11, 1977]

**§ 17.56 Maintenance of lighting equipment.**

(a) Replacing or repairing of lights, automatic indicators or automatic control or alarm systems shall be accomplished as soon as practicable.

(b) The flash tubes in a high intensity obstruction lighting system shall be replaced whenever the peak effective daytime intensity falls below 200,000 candelas.

[40 FR 30267, July 18, 1975]

**§ 17.57 Report of radio transmitting antenna construction, alteration, and/or removal.**

The owner of an antenna structure for which an Antenna Structure Registration Number has been obtained must notify the Commission within 24 hours of completion of construction (FCC Form 854-R) and/or dismantlement (FCC Form 854). The owner must also immediately notify the Commission using FCC Form 854 upon any change in structure height or change in ownership information.

[61 FR 4364, Feb. 6, 1996]