

**Pt. 17**

**47 CFR Ch. I (10–1–13 Edition)**

(A) ATSC digital TV signals: -114 dBm, averaged over a 6 MHz bandwidth;

(B) NTSC analog TV signals: -114 dBm, averaged over a 100 kHz bandwidth;

(C) Low power auxiliary, including wireless microphone, signals: -107 dBm, averaged over a 200 kHz bandwidth.

(ii) The detection thresholds are referenced to an omnidirectional receive antenna with a gain of 0 dBi. If a receive antenna with a minimum directional gain of less than 0 dBi is used, the detection threshold shall be reduced by the amount in dB that the minimum directional gain of the antenna is less than 0 dBi. Minimum directional gain shall be defined as the antenna gain in the direction and at the frequency that exhibits the least gain. Alternative approaches for the sensing antenna are permitted, e.g., electronically rotatable antennas, provided the applicant for equipment authorization can demonstrate that its sensing antenna provides at least the same performance as an omnidirectional antenna with 0 dBi gain.

(2) *Channel availability check time.* A TVBD may start operating on a TV channel if no TV, wireless microphone or other low power auxiliary device signals above the detection threshold are detected within a minimum time interval of 30 seconds.

(3) *In-service monitoring.* A TVBD must perform in-service monitoring of an operating channel at least once every 60 seconds. There is no minimum channel availability check time for in-service monitoring.

(4) *Channel move time.* After a TV, wireless microphone or other low power auxiliary device signal is detected on a TVBD operating channel, all transmissions by the TVBD must cease within two seconds.

[75 FR 75842, Dec. 6, 2010]

**PART 17—CONSTRUCTION, MARKING, AND LIGHTING OF ANTENNA STRUCTURES**

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**AVIATION RED OBSTRUCTION LIGHTING  
[RESERVED]**

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- 17.57 Report of radio transmitting antenna construction, alteration and/or removal.
- 17.58 Facilities to be located on land under the jurisdiction of the U.S. Forest Service or the Bureau of Land Management.

**AUTHORITY:** Secs. 4, 303, 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply secs. 301, 309, 48 Stat. 1081, 1085 as amended; 47 U.S.C. 301, 309.

**Subpart A—General Information**

**§ 17.1 Basis and purpose.**

(a) The rules in this part are issued pursuant to the authority contained in Title III of the Communications Act of 1934, as amended, which vest authority in the Federal Communications Commission to issue licenses to radio stations when it is found that the public

interest, convenience, and necessity would be served thereby, and to require the painting, and/or illumination of antenna structures if and when in its judgment such structures constitute, or there is reasonable possibility that they may constitute, a menace to air navigation.

(b) The purpose of this part is to prescribe certain procedures for antenna structure registration and standards with respect to the Commission's consideration of proposed antenna structures which will serve as a guide to antenna structure owners. The standards are referenced from two Federal Aviation Administration (FAA) Advisory Circulars.

[61 FR 4362, Feb. 6, 1996]

#### § 17.2 Definitions.

(a) *Antenna structure.* The term antenna structure includes the radiating and/or receive system, its supporting structures and any appurtenances mounted thereon.

(b) An antenna farm area is defined as a geographical location, with established boundaries, designated by the Federal Communications Commission, in which antenna towers with a common impact on aviation may be grouped.

(c) *Antenna structure owner.* For the purposes of this part, an antenna structure owner is the individual or entity vested with ownership, equitable ownership, dominion, or title to the antenna structure. Notwithstanding any agreements made between the owner and any entity designated by the owner to maintain the antenna structure, the owner is ultimately responsible for compliance with the requirements of this part.

(d) *Antenna structure registration number.* A unique number, issued by the Commission during the registration process, which identifies an antenna structure. Once obtained, this number must be used in all filings related to this structure.

[32 FR 8813, June 21, 1967, and 32 FR 11268, Aug. 3, 1967, as amended at 39 FR 26157, July 17, 1974; 61 FR 4362, Feb. 6, 1996]

#### § 17.4 Antenna structure registration.

(a) Effective July 1, 1996, the owner of any proposed or existing antenna structure that requires notice of proposed construction to the Federal Aviation Administration must register the structure with the Commission. This includes those structures used as part of stations licensed by the Commission for the transmission of radio energy, or to be used as part of a cable television head end system. If a Federal Government antenna structure is to be used by a Commission licensee, the structure must be registered with the Commission.

(1) For a proposed antenna structure or alteration of an existing antenna structure, the owner must register the structure prior to construction or alteration.

(2) For an existing antenna structure that had been assigned painting or lighting requirements prior to July 1, 1996, the owner must register the structure prior to July 1, 1998.

(3) For a structure that did not originally fall under the definition of "antenna structure," the owner must register the structure prior to hosting a Commission licensee.

(b) Except as provided in paragraph (e) of this section, each owner must file FCC Form 854 with the Commission. Additionally, each owner of a proposed structure referred to in paragraphs (a)(1) or (a)(3) of this section must submit a valid FAA determination of "no hazard." In order to be considered valid by the Commission, the FAA determination of "no hazard" must not have expired prior to the date on which FCC Form 854 is received by the Commission. The height of the structure will include the highest point of the structure including any obstruction lighting or lighting arrester.

(c) Each prospective applicant must complete the environmental notification process described in this paragraph, except as specified in paragraph (c)(1) of this section.

(1) *Exceptions from the environmental notification process.* Completion of the environmental notification process is not required when FCC Form 854 is submitted solely for the following purposes: