

**§ 73.1350 Transmission system operation.**

(a) Each licensee is responsible for maintaining and operating its broadcast station in a manner which complies with the technical rules set forth elsewhere in this part and in accordance with the terms of the station authorization.

(b) The licensee must designate a chief operator in accordance with § 73.1870. The licensee may designate one or more technically competent persons to adjust the transmitter operating parameters for compliance with the technical rules and the station authorization.

(1) Persons so authorized by the licensee may make such adjustments directly at the transmitter site or by using control equipment at an off-site location.

(2) The transmitter control personnel must have the capability to turn the transmitter off at all times. If the personnel are at a remote location, the control system must provide this capability continuously or must include an alternate method of acquiring control that can satisfy the requirement of paragraph (e) of this section that operation be terminated within three minutes.

(c) The licensee must establish monitoring procedures and schedules for the station and the indicating instruments employed must comply with § 73.1215.

(1) Monitoring procedures and schedules must enable the licensee to determine compliance with § 73.1560 regarding operating power and AM station mode of operation, § 73.1570 regarding modulation levels, and, where applicable, § 73.1213 regarding antenna tower lighting, and § 73.69 regarding the parameters of an AM directional antenna system.

(2) Monitoring equipment must be periodically calibrated so as to provide reliable indications of transmitter operating parameters with a known degree of accuracy. Errors inherent in monitoring equipment and the calibration procedure must be taken into account when adjusting operating parameters to ensure that the limits imposed by the technical rules and the station authorization are not exceeded.

(d) In the event that a broadcast station is operating in a manner that is not in compliance with the applicable technical rules set forth elsewhere in this part or the terms of the station authorization, and the condition is not listed in paragraph (e) or (f) of this section, broadcast operation must be terminated within three hours unless antenna input power is reduced sufficiently to eliminate any excess radiation. Examples of conditions that require termination of operation within three hours include excessive power, excessive modulation or the emission of spurious signals that do not result in harmful interference.

(e) If a broadcast station is operating in a manner that poses a threat to life or property or that is likely to significantly disrupt the operation of other stations, immediate corrective action is required. In such cases, operation must be terminated within three minutes unless antenna input power is reduced sufficiently to eliminate any excess radiation. Examples of conditions that require immediate corrective action include the emission of spurious signals that cause harmful interference, any mode of operation not specified by the station license for the pertinent time of day, or operation substantially at variance from the authorized radiation pattern.

(f) If a broadcast station is operating in a manner that is not in compliance with one of the following technical rules, operation may continue if the station complies with relevant alternative provisions in the specified rule section.

(1) AM directional antenna system tolerances, *see* § 73.62;

(2) AM directional antenna monitoring points, *see* § 73.158;

(3) TV visual waveform, *see* § 73.691(b);

(4) Reduced power operation, *see* § 73.1560(d);

(5) Reduced modulation level, *see* § 73.1570(a);

(6) Emergency antennas, *see* § 73.1680.

(g) The transmission system must be maintained and inspected in accordance with § 73.1580.

(h) Whenever a transmission system control point is established at a location other than the main studio or transmitter, a letter of notification of

that location must be sent to the FCC in Washington, DC, Attention: Audio Division (radio) or Video Division (television), Media Bureau, within 3 days of the initial use of that point. The letter should include a list of all control points in use, for clarity. This notification is not required if responsible station personnel can be contacted at the transmitter or studio site during hours of operation.

(i) The licensee must ensure that the station is operated in compliance with Part 11 of this chapter, the rules governing the Emergency Alert System (EAS).

[60 FR 55481, Nov. 1, 1995, as amended at 63 FR 33877, June 22, 1998; 67 FR 13232, Mar. 21, 2002; 72 FR 44423, Aug. 8, 2007]

#### § 73.1400 Transmission system monitoring and control.

The licensee of an AM, FM, TV or Class A TV station is responsible for assuring that at all times the station operates within tolerances specified by applicable technical rules contained in this part and in accordance with the terms of the station authorization. Any method of complying with applicable tolerances is permissible. The following are typical methods of transmission system operation:

(a) *Attended operation.* (1) Attended operation consists of ongoing supervision of the transmission facilities by a station employee or other person designated by the licensee. Such supervision may be accomplished by either:

(i) Direct supervision and control of transmission system parameters by a person at the transmitter site; or

(ii) Remote control of the transmission system by a person at the main studio or other location. The remote control system must provide sufficient transmission system monitoring and control capability so as to ensure compliance with § 73.1350.

(2) A station may also be monitored and controlled by an automatic transmission system (ATS) that is configured to contact a person designated by the licensee in the event of a technical malfunction. An automatic transmission system consists of monitoring devices, control and alarm circuitry, arranged so that they interact automatically to operate the station's

transmitter and maintain technical parameters within licensed values.

(3) A hybrid system containing some remote control and some ATS features is also permissible.

(4) In the case of remote control or ATS operation, not every station parameter need be monitored or controlled if the licensee has good reason to believe that its stability is so great that its monitoring and control are unnecessary.

(b) *Unattended operation.* Unattended operation is either the absence of human supervision or the substitution of automated supervision of a station's transmission system for human supervision. In the former case, equipment is employed which is expected to operate within assigned tolerances for extended periods of time. The latter consists of the use of a self-monitoring or ATS-monitored and controlled transmission system that, in lieu of contacting a person designated by the licensee, automatically takes the station off the air within three hours of any technical malfunction which is capable of causing interference.

[60 FR 55481, Nov. 1, 1995, as amended at 65 FR 30003, May 10, 2000]

#### § 73.1510 Experimental authorizations.

(a) Licensees of broadcast stations may obtain experimental authorizations to conduct technical experimentation directed toward improvement of the technical phases of operation and service, and for such purposes may use a signal other than the normal broadcast program signal.

(b) Experimental authorizations may be requested by filing an informal application with the FCC in Washington, DC, describing the nature and purpose of the experimentation to be conducted, the nature of the experimental signal to be transmitted, and the proposed schedule of hours and duration of the experimentation. Experimental authorizations shall be posted with the station license.

(c) Experimental operations are subject to the following conditions:

(1) The authorized power of the station may not be exceeded, except as specifically authorized for the experimental operations.