Federal Communications Commission

§ 74.641

(1) General requirements. Applicants are responsible for selecting the frequency assignments that are least likely to result in mutual interference with other licensees in the same area. Applicants may consult local frequency coordination committees, where they exist, for information on frequencies available in the area. Proposed frequency usage must be coordinated with existing licensees and applicants in the area whose facilities could affect or be affected by the new proposal in terms of frequency interference on active channels, applied-for channels, or channels coordinated for future growth. Coordination must be completed prior to filing an application for regular authorization, for major amendment to a pending application, or for major modification to a license.

(2) To be acceptable for filing, all applications for regular authorization, or major amendment to a pending application, or major modification to a license, must include a certification attesting that all co-channel and adjacent-channel licensees and applicants potentially affected by the proposed fixed use of the frequency(ies) have been notified and are in agreement that the proposed facilities can be installed without causing harmful interference to those other licensees and applicants.

(d) For each frequency coordinated under this paragraph, applicants are responsible for selecting the frequency assignments that are least likely to result in mutual interference with other licensees in the same area. Applicants may consult local frequency coordination committees, where they exist, for information on frequencies available in the area. In selecting frequencies, consideration should be given to the relative location of receive points, normal transmission paths, and the nature of the contemplated operation.


§ 74.641 Antenna systems.

(a) For fixed stations operating above 2025 MHz, the following standards apply:

(1) Fixed TV broadcast auxiliary stations shall use directional antennas that meet the performance standards indicated in the following table. Upon adequate showing of need to serve a larger sector, or more than a single sector, greater beamwidth or multiple antennas may be authorized. Applicants shall request, and authorization for stations in this service will specify, the polarization of each transmitted signal. Booster station antennas having narrower beamwidths and reduced sidelobe radiation may be required in congested areas, or to resolve interference problems.

(i) Stations must employ an antenna that meets the performance standards for Category B. In areas subject to frequency congestion, where proposed facilities would be precluded by continued use of a Category B antenna, a Category A antenna must be employed. The Commission may require the use of a high performance antenna where interference problems can be resolved by the use of such antennas.

(ii) Licensees shall comply with the antenna standards table shown in this paragraph in the following manner:

(A) With either the maximum beamwidth to 3 dB points requirement or with the minimum antenna gain requirement; and

(B) With the minimum radiation suppression to angle requirement.

ANTENNA STANDARDS

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Category</th>
<th>Maximum beamwidth to 3 dB points 1 (included angle in degrees)</th>
<th>Minimum antenna gain (dbi)</th>
<th>Minimum radiation suppression to angle in degrees from centerline of main beam in decibels</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,990 to 2,110</td>
<td>A</td>
<td>5.0</td>
<td>n/a</td>
<td>12 18 22 25 29 33 39</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>8.0</td>
<td>n/a</td>
<td>5  18 22 25 29 33 39</td>
</tr>
<tr>
<td>6,875 to 7,125</td>
<td>A</td>
<td>1.5</td>
<td>n/a</td>
<td>26 29 32 34 38 41 49</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>2.0</td>
<td>n/a</td>
<td>21 25 29 32 35 39 45</td>
</tr>
</tbody>
</table>
§ 74.643 Interference to geostationary-satellites.

Applicants and licensees must comply with §101.145 of this chapter to minimize the potential of interference to geostationary-satellites. [68 FR 12771, Mar. 17, 2003]

§ 74.644 Minimum path lengths for fixed links.

(a) The distance between end points of a fixed link must equal or exceed the value set forth in the table below or