baseband range of 50 Hz to 15 kHz shall not exceed 45% and modulation of the carrier by the sum of the amplitude modulated subcarrier in the baseband range of 23 kHz to 53 kHz shall not exceed 45%.

(ii) When a signal exists in only one channel of a stereophonic sound transmission having more than one stereophonic subcarrier in the baseband, the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz shall not exceed 53% with total modulation not to exceed 90%.

§ 73.333 Engineering charts.

This section consists of the following Figures 1, 1a, 2, and slider 4 and 5.

Note: The figures reproduced herein, due to their small scale, are not to be used in connection with material submitted to the F.C.C.

(b) Stations not transmitting stereo with the method described in (a), must limit the main carrier deviation caused by any modulating signals occupying the band 19 kHz ±20 Hz to 125 Hz.

(c) All stations, regardless of the stereophonic transmission system used, must not exceed the maximum modulation limits specified in §73.1570(b)(2). Stations not using the method described in (a), must limit the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz to not exceed 53%.

[51 FR 17029, May 8, 1986]
FCC § 73.333

**Figure 1**

**FM Channels**

Estimated field strength exceeded at 50 percent of the potential receiver locations for at least 50 percent of the time at a receiving antenna height of 9 meters.
### Sliding Scale for use with Figure 1, § 73.333

<table>
<thead>
<tr>
<th>POWER RADIATED</th>
<th>10w</th>
<th>100w</th>
<th>1kw</th>
<th>10kw</th>
<th>100kw</th>
<th>1,000kw</th>
</tr>
</thead>
<tbody>
<tr>
<td>F IN db ABOVE 1 µv/m</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>E IN µv/m</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>µv/m</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>db</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
FCC §73.333

F(50, 10) FM CHANNELS

FIELD STRENGTH IN DB ABOVE 1 UV/M FOR 1 KV ERP

TRANSMITTING ANTENNA HEIGHT IN METERS

DISTANCE IN KILOMETERS

FCC §73.333 FIGURE 1a

FM CHANNELS

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS
DEFINITION OF THE TERRAIN ROUGHNESS FACTOR Δh

Miles From Transmitter

Elevation In Meters

Δh

10%

90%
§ 73.333 47 CFR Ch. 1 (10–1–14 Edition)

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, in §73.333, the effective date of Figures 4 and 5 was stayed indefinitely.

 FCC §73.333 FIGURE 5

(Seccs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 19670, May 9, 1984]


TERRAIN ROUGHNESS CORRECTION

for use with estimated FM $F(50,50)$ and $F(50,10)$ field strength curves

FCC §73.333 FIGURE 5

(Seccs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 19670, May 9, 1984]