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Subpart A—General Information

§ 27.1 Basis and purpose.

This section contains the statutory basis for this part of the rules and provides the purpose for which this part is issued.

(a) Basis. The rules for miscellaneous wireless communications services (WCS) in this part are promulgated under the provisions of the Communications Act of 1934, as amended, that vest authority in the Federal Communications Commission to regulate radio transmission and to issue licenses for radio stations.

(b) Purpose. This part states the conditions under which spectrum is made available and licensed for the provision of wireless communications services in the following bands.

(1) 2305–2320 MHz and 2345–2360 MHz.
(2) 746–763 MHz, 775–793 MHz, and 805–806 MHz.
(3) 698–746 MHz.
(4) 1390–1392 MHz.
(5) 1392–1395 MHz and 1432–1435 MHz.
(6) 1670–1675 MHz.
(7) [Reserved]
(b) Part 1. This part includes rules of practice and procedure for license applications, adjudicatory proceedings, procedures for reconsideration and review of the Commission’s actions; provisions concerning violation notices and forfeiture proceedings; competitive bidding procedures; and the environmental requirements that, if applicable, must be complied with prior to the initiation of construction. Subpart F includes the rules for the Wireless Telecommunications Services and the procedures for filing electronically via the ULS.

(c) Part 2. This part contains the Table of Frequency Allocations and special requirements in international regulations, recommendations, agreements, and treaties. This part also contains standards and procedures concerning the marketing and importation of radio frequency devices, and for obtaining equipment authorization.

(d) Part 5. This part contains rules prescribing the manner in which parts of the radio frequency spectrum may be made available for experimentation.

(e) Part 15. This part sets forth the requirements and conditions applicable to certain radio frequency devices.

(f) Part 17. This part contains requirements for construction, marking and lighting of antenna towers.

(g) Part 20. This part sets forth the requirements and conditions applicable to commercial mobile radio service providers.

(h) Part 22. This part sets forth the requirements and conditions applicable to public mobile services.

(i) Part 24. This part sets forth the requirements and conditions applicable to personal communications services.

(j) Part 25. This part contains the requirements for satellite communications, including satellite DARS.

(k) Part 51. This part contains general duties of telecommunications carriers to provide for interconnection with other telecommunications carriers.

(l) Part 64. This part sets forth the requirements and conditions applicable to telecommunications carriers under the Communications Assistance for Law Enforcement Act.

(m) Part 68. This part contains technical standards for connection of terminal equipment to the telephone network.

(n) Part 73. This part sets forth the requirements and conditions applicable to radio broadcast services.

(o) Part 74. This part sets forth the requirements and conditions applicable to experimental radio, auxiliary, special broadcast and other program distributional services.

(p) Part 90. This part sets forth the requirements and conditions applicable to private land mobile radio services.

(q) Part 101. This part sets forth the requirements and conditions applicable to fixed microwave services.


§ 27.4 Terms and definitions.

700 MHz Public/Private Partnership. The public/private partnership established for the development and operation of a nationwide, shared interoperable wireless broadband network operating on the 758–763 MHz and 788–793 MHz bands and the 763–768 MHz and 793–798 MHz bands in accordance with the Commission’s rules.

Advanced wireless service (AWS). A radiocommunication service licensed pursuant to this part for the frequency bands specified in §27.5(h).

Affiliate. This term shall have the same meaning as that for “affiliate” in part 1, §1.2110(b)(5) of this chapter.

Assigned frequency. The center of the frequency band assigned to a station.

Attended operation. Operation of a station by a designated person on duty at the place where the transmitting apparatus is located with the transmitter in the person’s plain view.

Authorized bandwidth. The maximum width of the band of frequencies permitted to be used by a station. This is normally considered to be the necessary or occupied bandwidth, whichever is greater.

Average terrain. The average elevation of terrain between 3 and 16 kilometers from the antenna site.

Base station. A land station in the land mobile service.

Booster service area. A geographic area to be designated by an applicant.
for a booster station, within which the booster station shall be entitled to protection against interference as set forth in this part. The booster service area must be specified by the applicant so as not to overlap the booster service area of any other booster authorized to or proposed by the applicant. However, a booster station may provide service to receive sites outside of its booster service area, at the licensee’s risk of interference. The booster station must be capable of providing substantial service within the designated booster service area.

Broadband Radio Service (BRS). A radio service using certain frequencies in the 2150–2162 and 2496–2690 MHz bands which can be used to provide fixed and mobile services, except for aeronautical services.

Broadcast services. This term shall have the same meaning as that for "broadcasting" in section 3(6) of the Communications Act of 1934, i.e., "the dissemination of radio communications intended to be received by the public, directly or by the intermediary of relay stations." 47 U.S.C. 153(6).

Commercial EBS licensee. A licensee authorized to operate on EBS channels pursuant to the provisions of §27.1201(c) contained in the edition of 47 CFR parts 20 to 39, revised as of October 1, 2005, or §§74.990 through 74.992 contained in the edition of 47 CFR parts 70 to 79, revised as of October 1, 2004, of this chapter, and that does not meet the eligibility requirements of §27.1201(a).

Documented complaint. A complaint that a party is suffering from non-consensual interference. A documented complaint must contain a certification that the complainant has contacted the operator of the allegedly offending facility and tried to resolve the situation prior to filing. The complaint must then specify the nature of the interference, whether the interference is constant or intermittent, when the interference began and the site(s) most likely to be causing the interference. The complaint should be accompanied by a videotape or other evidence showing the effects of the interference. The complaint must contain a motion for a temporary order to have the interfering station cease transmitting. The complaint must be filed with the Secretary’s office and served on the allegedly offending party.

Educational Broadband Service (EBS). A fixed or mobile service, the licensees of which are educational institutions or non-profit educational organizations, and intended primarily for video, data, or voice transmissions of instructional, cultural, and other types of educational material to one or more receiving locations.

Effective Radiated Power (ERP) (in a given direction). The product of the power supplied to the antenna and its gain relative to a half-wave dipole in a given direction.

Equivalent Isotropically Radiated Power (EIRP). The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Fixed service. A radio communication service between specified fixed points.

Fixed station. A station in the fixed service.

Land mobile service. A mobile service between base stations and land mobile stations, or between land mobile stations.

Land mobile station. A mobile station in the land mobile service capable of surface movement within the geographic limits of a country or continent.

Land station. A station in the mobile service not intended to be used while in motion.

Lower Band Segment (LBS). Segment of the BRS/EBS band consisting of channels in the frequencies 2496–2572 MHz.

Middle Band Segment (MBS). Segment of the BRS/EBS band consisting of channels in the frequencies 2572–2614 MHz.

Mobile service. A radio communication service between mobile and land stations, or between mobile stations.

Mobile station. A station in the mobile service intended to be used while in motion or during halts at unspecified points.

National Geodetic Reference System (NGRS). The name given to all geodetic control data contained in the National Geodetic Survey (NGS) data base. (Source: National Geodetic Survey, U.S. Department of Commerce)
Network Assets Holder. The Network Assets Holder is a Special Purpose Bankruptcy Remote Entity that is formed to hold the assets of the shared wireless broadband network associated with the 700 MHz Public/Private Partnership, in accordance with the terms of the Network Sharing Agreement, such other agreements as the Commission may require or allow, and the Commission’s rules.

Network Sharing Agreement (NSA). An agreement entered into between the winning bidder, the Upper 700 MHz D Block licensee, the Network Assets Holder, the Operating Company, the Public Safety Broadband Licensee, and any other related entities that the Commission may require or allow regarding the shared wireless broadband network associated with the 700 MHz Public/Private Partnership that will operate on the 758–763 MHz and 788–793 MHz bands and the 763–768 MHz and 793–798 MHz bands.

Operating Company. The Operating Company is a Special Purpose Bankruptcy Remote Entity that is formed to build and operate the shared wireless broadband network associated with the 700 MHz Public/Private Partnership, in accordance with the terms of the Network Sharing Agreement, such other agreements as the Commission may require or allow, and the Commission’s rules.

Point-to-point Broadband station. A Broadband station that transmits a highly directional signal from a fixed transmitter location to a fixed receive location.

Portable device. Transmitters designed to be used within 20 centimeters of the body of the user.

Public Safety Broadband License. The Public Safety Broadband License authorizes public safety broadband services in the 763–768 MHz and 793–798 MHz bands.

Public Safety Broadband Licensee. The licensee of the Public Safety Broadband License in the 763–768 MHz and 793–798 MHz bands.

Radiolocation. Radiodetermination used for purposes other than those of radionavigation.

Radiolocation land station. A station in the radiolocation service not intended to be used while in motion.

Radiolocation mobile station. A station intended to be used while in motion or during halts at unspecified points.

Radionavigation. Radiodetermination used for the purpose of navigation, including obstruction warning.

Remote control. Operation of a station by a designated person at a control position from which the transmitter is not visible but where suitable control and telemetering circuits are provided which allow the performance of the essential functions that could be performed at the transmitter.

Satellite Digital Audio Radio Service (satellite DARS). A radiocommunication service in which compact disc quality programming is digitally transmitted by one or more space stations.

Sectorization. The use of an antenna system at any broadband station, booster station and/or response station hub that is capable of simultaneously transmitting multiple signals over the same frequencies to different portions of the service area and/or simultaneously receiving multiple signals over the same frequencies from different portions of the service area.

Shared Wireless Broadband Network. Wireless broadband network associated with the 700 MHz Band Public/Private Partnership that operates on the 758–763 MHz and 788–793 MHz bands and the 763–768 MHz and 793–798 MHz bands pursuant to the terms of the Network Sharing Agreement, such other agreements as the Commission may require or allow, and the Commission’s rules.

Special Purpose Bankruptcy Remote Entity. A “special purpose entity” is a legal entity created for a special limited purpose, in this context primarily to hold the Upper 700 MHz D Block license or the network assets, or to conduct the construction or operation of the shared wireless broadband network associated with the 700 MHz Public/Private Partnership. A special purpose entity is “bankruptcy remote” if that entity is unlikely to become insolvent as
§ 27.5 Frequencies.

(a) 2305–2320 MHz and 2345–2360 MHz bands. The following frequencies are available for WCS in the 2305–2320 MHz and 2345–2360 MHz bands:

(1) Two paired channel blocks are available for assignment on a Major Economic Area basis as follows:

Block A: 2305–2310 and 2350–2355 MHz; and

Block B: 2310–2315 and 2355–2360 MHz.

(2) Two unpaired channel blocks are available for assignment on a Regional Economic Area Grouping basis as follows:

Block C: 2315–2320 MHz; and

Block D: 2310–2315 and 2355–2360 MHz.

(3) Two paired channels of 11 megahertz each are available for assignment in Block C in the 746–757 MHz and 776–787 MHz bands.

(b) 746–763 MHz, 775–793 MHz, and 805–806 MHz bands. The following frequencies are available for licensing pursuant to this part in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands:

(1) Two paired channels of 1 megahertz each are available for assignment in Block A in the 735–738 MHz and 787–788 MHz bands.

(2) Two paired channels of 1 megahertz each are available for assignment in Block B in the 775–776 MHz and 805–806 MHz bands.

(3) Two paired channels of 11 megahertz each are available for assignment in Block C in the 746–757 MHz and 776–

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787 MHz bands. In the event that no licenses for two channels in this Block C are assigned based on the results of the first auction in which such licenses were offered because the auction results do not satisfy the applicable reserve price, the spectrum in the 746–757 MHz and 776–787 MHz bands will instead be made available for assignment at a subsequent auction as follows:

(i) Two paired channels of 6 megahertz each available for assignment in Block C1 in the 746–752 MHz and 776–782 MHz bands.

(ii) Two paired channels of 5 megahertz each available for assignment in Block C2 in the 752–757 MHz and 782–787 MHz bands.

(4) Two paired channels of 5 megahertz each are available for assignment in Block D in the 758–763 MHz and 788–793 MHz bands.

(c) 698–746 MHz band. The following frequencies are available for licensing pursuant to this part in the 698–746 MHz band:

(1) Three paired channel blocks of 12 megahertz each are available for assignment as follows:
   Block A: 698–704 MHz and 728–734 MHz; Block B: 704–710 MHz and 734–740 MHz; and Block C: 710–716 MHz and 740–746 MHz.

(2) Two unpaired channel blocks of 6 megahertz each are available for assignment as follows:
   Block D: 716–722 MHz; and Block E: 722–728 MHz.

(d) 1390–1392 MHz band. The 1390–1392 MHz band is available for assignment on a Major Economic Area basis.

(e) The paired 1392–1395 and 1432–1435 MHz bands. The paired 1392–1395 MHz and 1432–1435 MHz bands are available for assignment on an Economic Area Grouping basis as follows: Block A: 1392–1393.5 MHz and 1432–1433.5 MHz; and Block B: 1393.5–1395 MHz and 1433.5–1435 MHz.

(f) 1670–1675 MHz band. The 1670–1675 MHz band is available for assignment on a nationwide basis.

(g) [Reserved]

(h) 1710–1755 MHz and 2110–2155 MHz bands. The following frequencies are available for licensing pursuant to this part in the 1710–1755 MHz and 2110–2155 MHz bands:

(1) Three paired channel blocks of 10 megahertz each are available for assignment as follows:
   Block A: 1710–1720 MHz and 2110–2120 MHz; Block B: 1720–1730 MHz and 2120–2130 MHz; and Block F: 1745–1755 MHz and 2145–2155 MHz.

(2) Three paired channel blocks of 5 megahertz each are available for assignment as follows:
   Block C: 1730–1735 MHz and 2130–2135 MHz; Block D: 1735–1740 MHz and 2135–2140 MHz; and Block E: 1740–1745 MHz and 2140–2145 MHz.

(i) Frequency assignments for the BRS/ EBS band. (1) Pre-transition frequency assignments.
   RS Channel 1: 2150–2156 MHz or 2496–2500 MHz
   BRS Channel 2: 2156–2162 MHz or 2686–2690 MHz

   BRS Channel 2A: 2156–2160 MHz
   EBS Channel A1: 2496–2500 MHz
   EBS Channel B1: 2500–2506 MHz
   EBS Channel A2: 2506–2512 MHz
   EBS Channel A3: 2512–2518 MHz
   EBS Channel B2: 2518–2524 MHz
   EBS Channel A4: 2524–2530 MHz
   EBS Channel B3: 2530–2536 MHz
   EBS Channel A5: 2536–2542 MHz
   EBS Channel B4: 2542–2548 MHz
   EBS Channel A6: 2548–2554 MHz
   EBS Channel B5: 2554–2560 MHz
   EBS Channel C5: 2560–2566 MHz
   EBS Channel D5: 2566–2572 MHz
   EBS Channel A7: 2572–2578 MHz
   EBS Channel B7: 2578–2584 MHz
   EBS Channel C7: 2584–2590 MHz
   EBS Channel D7: 2590–2596 MHz
   BRS Channel E1: 2596–2602 MHz
   BRS Channel F1: 2602–2608 MHz
   BRS Channel A8: 2608–2614 MHz
   BRS Channel F2: 2614–2620 MHz
   BRS Channel E2: 2620–2626 MHz
   BRS Channel F3: 2626–2632 MHz
   BRS Channel E3: 2632–2638 MHz
   BRS Channel F4: 2638–2644 MHz
   BRS Channel E4: 2644–2650 MHz
   BRS Channel F5: 2650–2656 MHz
   BRS Channel E5: 2656–2662 MHz
   BRS Channel F6: 2662–2668 MHz
   BRS Channel E6: 2668–2674 MHz
   BRS Channel F7: 2674–2680 MHz
   BRS Channel E7: 2680–2686 MHz
   I Channels: 2686–2690 MHz

   (2) Post transition frequency assignments. The frequencies available in the Broadband Radio Service (BRS) and Educational Broadband Service (EBS) are listed in this section in accordance with the frequency allocations table of § 2.106 of this chapter.
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(i) Lower Band Segment (LBS): The following channels shall constitute the Lower Band Segment:

BRS Channel 1: 2496–2502 MHz  
EBS Channel A1: 2502–2507.5 MHz  
EBS Channel A2: 2507.5–2513 MHz  
EBS Channel A3: 2513–2518.5 MHz  
EBS Channel B1: 2518.5–2524 MHz  
EBS Channel B2: 2524–2529.5 MHz  
EBS Channel B3: 2529.5–2535 MHz  
EBS Channel C1: 2535–2540.5 MHz  
EBS Channel C2: 2540.5–2546 MHz  
EBS Channel C3: 2546–2551.5 MHz  
EBS Channel JA1: 2551.5–2557 MHz  
EBS Channel JA2: 2557–2562.5 MHz  
EBS Channel JA3: 2562.5–2568 MHz  
EBS Channel JA4: 2568–2574 MHz  

(ii) Middle Band Segment (MBS): The following channels shall constitute the Middle Band Segment:

EBS Channel A4: 2572–2578 MHz  
EBS Channel B4: 2578–2584 MHz  
EBS Channel C4: 2584–2590 MHz  
EBS Channel D4: 2590–2596 MHz  
EBS Channel G4: 2596–2602 MHz  
BRS/EBS Channel F4: 2602–2608 MHz

(iii) Upper Band Segment (UBS): The following channels shall constitute the Upper Band Segment:

BRS Channel KH1: 2614.00000–2614.33333 MHz  
BRS Channel KH2: 2614.33333–2614.66666 MHz  
BRS Channel KH3: 2614.66666–2615.00000 MHz  
BRS Channel KG1: 2615.00000–2615.33333 MHz  
BRS Channel KG2: 2615.33333–2615.66666 MHz  
BRS Channel KG3: 2615.66666–2616.00000 MHz  
BRS ChannelKF1: 2616.00000–2616.33333 MHz  
BRS ChannelKF2: 2616.33333–2616.66666 MHz  
BRS ChannelKF3: 2616.66666–2617.00000 MHz  
BRS ChannelKE1: 2617.00000–2617.33333 MHz  
BRS ChannelKE2: 2617.33333–2617.66666 MHz  
BRS ChannelKE3: 2617.66666–2618.00000 MHz  
BRS Channel 2: 2618–2624 MHz  
BRS/EBS Channel E1: 2624–2629.5 MHz  
BRS/EBS Channel E2: 2629.5–2635 MHz  
BRS/EBS Channel E3: 2635–2640.5 MHz  
BRS/EBS Channel F1: 2640.5–2646 MHz  
BRS/EBS Channel F2: 2646–2651.5 MHz  
BRS/EBS Channel F3: 2651.5–2657 MHz  
BRS Channel H1: 2657–2662.5 MHz  
BRS Channel H2: 2662.5–2668 MHz  
BRS Channel H3: 2668–2673.5 MHz  
EBS Channel G1: 2673.5–2679 MHz  
EBS Channel G2: 2679–2684.5 MHz  
EBS Channel G3: 2684.5–2690 MHz

NOTE TO PARAGRAPH (i)(2): No 125 kHz channels are provided for channels in operation in this service. The 125 kHz channels previously associated with these channels have been reallocated to Channel G3 in the upper band segment.

(3) During the transition (see §§ 27.1230–27.1239) EBS and BRS licensees may exchange channels to effectuate the transition of the 2.5 GHz band in a given BTA.

(4) A temporary fixed broadband station may use any available broadband channel on a secondary basis, except that operation of temporary fixed broadband stations is not allowed within 56.3 km (35 miles) of Canada.

(5)(i) A point-to-point EBS station on the E and F-channel frequencies, may be involuntarily displaced by a BRS applicant or licensee, provided that suitable alternative spectrum is available and that the BRS entity bears the expenses of the migration. Suitability of spectrum will be determined on a case-by-case basis; at a minimum, the alternative spectrum must be licensable by broadband operators on a primary basis (although it need not be specifically allocated to the broadband service), and must provide a signal that is equivalent to the prior signal in picture quality and reliability, unless the broadband licensee will accept an inferior signal. Potential expansion of the BRS licensee may be considered in determining whether alternative available spectrum is suitable.

(ii) If suitable alternative spectrum is located pursuant to paragraph (h)(6)(i) of this section, the initiating party must prepare and file the appropriate application for the new spectrum, and must simultaneously serve a copy of the application on the EBS licensee to be moved. The initiating party will be responsible for all costs connected with the migration, including purchasing, testing and installing new equipment, labor costs, reconfiguration of existing equipment, administrative costs, legal and engineering expenses necessary to prepare and file the migration application, and other
reasonable documented costs. The initiating party must secure a bond or establish an escrow account to cover reasonable incremental increase in ongoing expenses that may fall upon the migrated licensee. The bond or escrow account should also account for the possibility that the initiating party subsequently becomes bankrupt. If it becomes necessary for the Commission to assess the sufficiency of a bond or escrow amount, it will take into account such factors as projected incremental increase in electricity or maintenance expenses, or relocation expenses, as relevant in each case.

(iii) The EBS licensee to be moved will have a 60-day period in which to oppose the involuntary migration. The broadband party should state its opposition with specificity, including engineering and other challenges, and a comparison of the present site and the proposed new site. If involuntary migration is granted, the new facilities must be operational before the initiating party will be permitted to begin its new or modified operations. The migration must not disrupt the broadband licensee’s provision of service, and the broadband licensee has the right to inspect the construction or installation work.

{(ii) The EBS licensee to be moved will have a 60-day period in which to oppose the involuntary migration. The broadband party should state its opposition with specificity, including engineering and other challenges, and a comparison of the present site and the proposed new site. If involuntary migration is granted, the new facilities must be operational before the initiating party will be permitted to begin its new or modified operations. The migration must not disrupt the broadband licensee’s provision of service, and the broadband licensee has the right to inspect the construction or installation work.

\[\text{§ 27.6 Service areas.}\]

(a) WCS service areas include Economic Areas (EAs), Major Economic Areas (MEAs), Regional Economic Area Groupings (REAGs), cellular markets comprising Metropolitan Statistical Areas (MSAs) and Rural Service Areas (RSAs), and a nationwide area. MEAs and REAGs are defined in the Table
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immediately following paragraph (a)(1) of this section. Both MEAs and REAGs are based on the U.S. Department of Commerce’s EAs. See 60 FR 13114 (March 10, 1995). In addition, the Commission shall separately license Guam and the Northern Mariana Islands, Puerto Rico and the United States Virgin Islands, American Samoa, and the Gulf of Mexico, which have been assigned Commission-created EA numbers 173–176, respectively. The nationwide area is composed of the contiguous 48 states, Alaska, Hawaii, the Gulf of Mexico, and the U.S. territories. Maps of the EAs, MEAs, MSAs, RSAs, and REAGs and the Federal Register Notice that established the 172 EAs are available for public inspection and copying at the Reference Information Center, Consumer and Governmental Affairs Bureau, Federal Communications Commission, 445 12th Street, SW., Washington, DC 20554.

(1) The 52 MEAs are composed of one or more EAs and the 12 REAGs are composed of one or more MEAs, as defined in the table below:

<table>
<thead>
<tr>
<th>REAGs</th>
<th>MEAs</th>
<th>EAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Northeast)</td>
<td>1 (Boston)</td>
<td>1–3</td>
</tr>
<tr>
<td></td>
<td>2 (New York City)</td>
<td>4–7, 10</td>
</tr>
<tr>
<td></td>
<td>3 (Buffalo)</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>4 (Philadelphia)</td>
<td>11–12</td>
</tr>
<tr>
<td></td>
<td>5 (Washington)</td>
<td>13–14</td>
</tr>
<tr>
<td></td>
<td>6 (Richmond)</td>
<td>15–17, 20</td>
</tr>
<tr>
<td></td>
<td>7 (Charlotte-Greensboro-Greenville-Raleigh)</td>
<td>18–19, 21–26, 41–42, 46.</td>
</tr>
<tr>
<td></td>
<td>8 (Atlanta)</td>
<td>27–28, 37–40, 43.</td>
</tr>
<tr>
<td></td>
<td>9 (Jacksonville)</td>
<td>29, 35</td>
</tr>
<tr>
<td></td>
<td>10 (Tampa-St. Petersburg-Orlando)</td>
<td>30, 33–34</td>
</tr>
<tr>
<td></td>
<td>11 (Miami)</td>
<td>31–32</td>
</tr>
<tr>
<td></td>
<td>12 (Pittsburgh)</td>
<td>5, 52–53</td>
</tr>
<tr>
<td></td>
<td>13 (Cincinnati-Dayton)</td>
<td>49–50</td>
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<tr>
<td></td>
<td>14 (Columbus)</td>
<td>51</td>
</tr>
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<td></td>
<td>15 (Cleveland)</td>
<td>54–55</td>
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<tr>
<td></td>
<td>16 (Detroit)</td>
<td>56–58, 61–62</td>
</tr>
<tr>
<td></td>
<td>17 (Milwaukee)</td>
<td>59–60, 63, 104–105, 108.</td>
</tr>
<tr>
<td></td>
<td>18 (Chicago)</td>
<td>64–66, 68, 97, 101.</td>
</tr>
<tr>
<td></td>
<td>19 (Indianapolis)</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td>21 (Des Moines-Quad Cities)</td>
<td>100, 102–103, 117.</td>
</tr>
<tr>
<td>3 (Great Lakes)</td>
<td>320 (Mississippi Valley)</td>
<td>44–46</td>
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<tr>
<td></td>
<td>22 (Knoxville)</td>
<td>47, 69–70, 72.</td>
</tr>
<tr>
<td></td>
<td>23 (Louisville-Lexington-Evansville)</td>
<td>36, 74, 78–79.</td>
</tr>
<tr>
<td></td>
<td>24 (Birmingham)</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>25 (Nashville)</td>
<td>73, 75–77</td>
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<tr>
<td></td>
<td>26 (Memphis-Jackson)</td>
<td>80–85</td>
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<tr>
<td></td>
<td>27 (New Orleans-Baton Rouge)</td>
<td>90–92, 95</td>
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<tr>
<td></td>
<td>28 (Little Rock)</td>
<td>93, 99, 123</td>
</tr>
<tr>
<td></td>
<td>29 (Kansas City)</td>
<td>94, 96, 98</td>
</tr>
<tr>
<td>5 (Central)</td>
<td>30 (St. Louis)</td>
<td>86–87, 131</td>
</tr>
<tr>
<td></td>
<td>32 (Dallas-Ft. Worth)</td>
<td>115, 140–143</td>
</tr>
<tr>
<td></td>
<td>33 (Denver)</td>
<td>118–121</td>
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<td></td>
<td>34 (Omaha)</td>
<td>122</td>
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<tr>
<td></td>
<td>35 (Wichita)</td>
<td>124</td>
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<tr>
<td></td>
<td>36 (Tulsa)</td>
<td>125–126</td>
</tr>
<tr>
<td></td>
<td>37 (Oklahoma City)</td>
<td>132–134</td>
</tr>
<tr>
<td></td>
<td>38 (San Antonio)</td>
<td>136, 139, 155–157.</td>
</tr>
<tr>
<td></td>
<td>40 (Phoenix)</td>
<td>151, 162–164.</td>
</tr>
<tr>
<td>6 (West)</td>
<td>41 (Spokane-Billings)</td>
<td>144–147, 168.</td>
</tr>
<tr>
<td></td>
<td>42 (Salt Lake City)</td>
<td>148–150, 152.</td>
</tr>
<tr>
<td></td>
<td>43 (San Francisco-Oakland-San Jose)</td>
<td>153, 160–161.</td>
</tr>
<tr>
<td></td>
<td>44 (Los Angeles-San Diego)</td>
<td>166–167</td>
</tr>
<tr>
<td></td>
<td>45 (Portland)</td>
<td>169–170</td>
</tr>
<tr>
<td>7 (Alaska)</td>
<td>46 (Seattle)</td>
<td>171</td>
</tr>
<tr>
<td>8 (Hawaii)</td>
<td>47 (Alaska)</td>
<td>172</td>
</tr>
<tr>
<td>9 (Guam and the Northern Mariana Islands)</td>
<td>48 (Hawaii)</td>
<td>173</td>
</tr>
<tr>
<td>10 (Puerto Rico and U.S. Virgin Islands)</td>
<td>49 (Guam and the Northern Mariana Islands)</td>
<td>174</td>
</tr>
<tr>
<td>11 (American Samoa)</td>
<td>50 (Puerto Rico and U.S. Virgin Islands)</td>
<td>175</td>
</tr>
<tr>
<td>12 (Gulf of Mexico)</td>
<td>51 (American Samoa)</td>
<td>176</td>
</tr>
</tbody>
</table>
§ 27.6

(2) The Gulf of Mexico EA extends from 12 nautical miles off the U.S. Gulf coast outward into the Gulf.

(b) 746–763 MHz, 775–793 MHz, and 805–806 MHz bands. WCS service areas for the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands are as follows.

(1) Service areas for Block A in the 757–758 MHz and 787–788 MHz bands and Block B in the 775–776 MHz and 805–806 MHz bands are based on Major Economic Areas (MEAs), as defined in paragraphs (a)(1) and (a)(2) of this section.

(2) Service areas for Block C in the 746–757 MHz and 776–787 MHz bands are based on Regional Economic Area Groupings (REAGs) as defined by paragraph (a) of this section. In the event that no licenses with respect to service areas for Block C in the 746–757 MHz and 776–787 MHz bands are assigned based on the results of the first auction in which such licenses are offered because the auction results do not satisfy the applicable reserve price, then service areas for the spectrum at 746–757 MHz and 776–787 MHz will instead be available for assignment as follows:

(i) Service areas for Block C1 in the 746–752 MHz and 776–782 MHz bands are based on Economic Areas (EAs) as defined in paragraph (a) of this section.

(ii) Service areas for Block C2 in the 752–757 MHz and 782–787 MHz bands are based on Regional Economic Area Groupings (REAGs) as defined by paragraph (a) of this section.

(3) Service area for Block D in the 758–763 MHz and 788–793 MHz bands is a nationwide area as defined in paragraph (a) of this section.

(c) 698–746 MHz band. WCS service areas for the 698–746 MHz band, based on Economic Areas (EAs) as defined in paragraph (a) of this section.

(2) Service areas for Block B in the 704–710 MHz and 734–740 MHz bands and Block C in the 710–716 MHz and 740–746 MHz bands are based on cellular markets comprising Metropolitan Statistical Areas (MSAs) and Rural Service Areas (RSAs) as defined by Public Notice Report No. CL–92–40 “Common Carrier Public Mobile Services Information, Cellular MSA/ RSA Markets and Counties,” dated January 24, 1992, DA 92–109, 7 FCC Rcd 742 (1992), with the following modifications:

(i) The service areas of cellular markets that border the U.S. coastline of the Gulf of Mexico extend 12 nautical miles from the U.S. Gulf coastline.

(ii) The service area of cellular market 306 that comprises the water area of the Gulf of Mexico extends from 12 nautical miles off the U.S. Gulf coast outward into the Gulf.

(3) Service areas for Block D in the 716–722 MHz band are based on Economic Area Groupings (EAGs) as defined by the Federal Communications Commission. See 62 FR 15978 (April 3, 1997) extended with the Gulf of Mexico. See also paragraphs (a)(1) and (a)(2) of this section and 62 FR 9636 (March 3, 1997), in which the Commission created an additional four economic area-like areas for a total of 176. Maps of the EAGs and the Federal Register notice that established the 172 Economic Areas (EAs) are available for public inspection and copying at the Reference Center, Room CY A–257, 445 12th St., SW., Washington, DC 20554. These maps and data are also available on the FCC Web site at http://www.fcc.gov/oet/info/maps/areas/.

(i) There are 6 EAGs, which are composed of multiple EAs as defined in the table below:

<table>
<thead>
<tr>
<th>Economic area groupings</th>
<th>Name</th>
<th>Economic areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAG001</td>
<td>Northeast</td>
<td>1–11, 54,</td>
</tr>
<tr>
<td>EAG002</td>
<td>Mid-Atlantic</td>
<td>12–26, 41, 42, 44–53, 70</td>
</tr>
<tr>
<td>EAG003</td>
<td>Southeast</td>
<td>27–40, 43, 69, 71–86, 88–90, 95, 96, 174, 176 (part)</td>
</tr>
<tr>
<td>EAG004</td>
<td>Great Lakes</td>
<td>56–68, 97, 100–109</td>
</tr>
<tr>
<td>EAG006</td>
<td>Pacific</td>
<td>147, 150, 151, 153, 160–173, 175</td>
</tr>
</tbody>
</table>

VerDate Nov<24>2008 10:03 Nov 06, 2009 Jkt 217201 PO 00000 Frm 00331 Fmt 8010 Sfmt 8010 Y:\SGML\217201.XXX 217201erowe on DSK5CLS3C1PROD with CFR
NOTE 1 TO PARAGRAPH (c)(3)(i): Economic Area Groupings are defined by the Federal Communications Commission; see 62 FR 15978 (April 3, 1997) extended with the Gulf of Mexico.

NOTE 2 TO PARAGRAPH (c)(3)(i): Economic Areas are defined by the Regional Economic Analysis Division, Bureau of Economic Analysis, U.S. Department of Commerce February 1995 and extended by the Federal Communications Commission, see 62 FR 9636 (March 3, 1997).

(ii) For purposes of paragraph (c)(3)(i) of this section, EA 176 (the Gulf of Mexico) will be divided between EAG003 (the Southeast EAG) and EAG005 (the Central/Mountain EAG) in accordance with the configuration of the Eastern/ Central and Western Planning Area established by the Mineral Management Services Bureau of the Department of the Interior (MMS). That portion of EA 176 contained in the Eastern and Central Planning Areas as defined by MMS will be included in EAG003; that portion of EA 176 contained in the Western Planning Area as defined by MMS will be included in EAG005. Maps of these areas may be found on the MMS Web site: http://www.gomr.mms.gov/homepg/offshore/offshore.html.

(d) 1390–1392 MHz band. Service areas for the 1390–1392 MHz band is based on Major Economic Areas (MEAs), as defined in paragraphs (a)(1) and (a)(2) of this section.

(e) The paired 1392–1395 and 1432–1435 MHz bands. Service areas for the paired 1392–1395 and 1432–1435 MHz bands are as follows. Service areas for Block A in the 1392–1393.5 MHz and 1432–1433.5 MHz bands and Block B in the 1393.5–1395 MHz and 1433.5–1435 MHz bands are based on Economic Area Groupings (EAGs) as defined in paragraph (c)(3) of this section.

(f) 1670–1675 MHz band. Service areas for the 1670–1675 MHz band are available on a nationwide basis.

(g) [Reserved]

(h) 1710–1755 and 2110–2155 MHz bands. AWS service areas for the 1710–1755 MHz and 2110–2155 MHz bands are as follows:

(1) Service areas for Block A (1710–1720 MHz and 2110–2120 MHz) are based on cellular markets comprising Metropolitan Statistical Areas (MSAs) and Rural Service Areas (RSAs) as defined by Public Notice Report No. CL–92–40 "Common Carrier Public Mobile Services Information. Cellular MSA/MSA Counties," dated January 24, 1992, DA 92–109, 7 FCC Rcd 742 (1992), with the following modifications:

(i) The service areas of cellular markets that border the U.S. coastline of the Gulf of Mexico extend 12 nautical miles from the U.S. Gulf coastline.

(ii) The service area of cellular market 306 that comprises the water area of the Gulf of Mexico extends from 12 nautical miles off the U.S. Gulf coast outward into the Gulf.

Subpart B—Applications and Licenses

§ 27.10 Regulatory status.

The following rules apply concerning the regulatory status in the frequency bands specified in §27.5.

(a) Single authorization. Authorization will be granted to provide any or a combination of the following services in a single license: common carrier, non-common carrier, private internal communications, and broadcast services. A licensee may render any kind of communications service consistent with the regulatory status in its license and with the Commission’s rules applicable to that service. An applicant or licensee may submit a petition at any time requesting clarification of the regulatory status for which authorization is required to provide a specific communications service.
(b) Designation of regulatory status in initial application. An applicant shall specify in its initial application if it is requesting authorization to provide common carrier, non-common carrier, private internal communications, or broadcast services, or a combination thereof.

(c) Amendment of pending applications. The following rules apply to amendments of a pending application.

(1) Any pending application may be amended to:
   (i) Change the carrier regulatory status requested, or
   (ii) Add to the pending request in order to obtain common carrier, non-common carrier, private internal communications, or broadcast services status, or a combination thereof, in a single license.

(2) Amendments to change, or add to, the carrier regulatory status in a pending application are minor amendments filed under §1.927 of this chapter.

(d) Modification of license. The following rules apply to amendments of a license.

(1) A licensee may modify a license to:
   (i) Change the regulatory status authorized, or
   (ii) Add to the status authorized in order to obtain a combination of services of different regulatory status in a single license.

(2) Applications to change, or add to, the carrier status in a license are modifications not requiring prior Commission authorization. The licensee must notify the Commission within 30 days of the change. If the change results in the discontinuance, reduction, or impairment of an existing service, the licensee is subject to the provisions of §27.66.

(b) Designation of regulatory status in initial application. An applicant shall specify in its initial application if it is requesting authorization to provide common carrier, non-common carrier, private internal communications, or broadcast services, or a combination thereof.

(b) 2305–2320 MHz and 2345–2360 MHz bands. Initial authorizations for the 2305–2320 MHz and 2345–2360 MHz bands shall be for 10 megahertz of spectrum in accordance with §27.5(a).

(1) Authorizations for Blocks A and B will be based on Major Economic Areas (MEAs), as specified in §27.6(a)(1).

(2) Authorizations for Blocks C and D will be based on Regional Economic Area Groupings (REAGs), as specified in §27.6(a)(2).

(c) 746–763 MHz, 775–793 MHz, and 805–806 MHz bands. Initial authorizations for the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands shall be for paired channels of 1, 5, 6, or 11 megahertz of spectrum in accordance with §27.5(b).

(1) Authorizations for Block A, consisting of two paired channels of 1 megahertz each, will be based on those geographic areas specified in §27.6(b)(1).

(2) Authorizations for Block B, consisting of two paired channels of 1 megahertz each, will be based on those geographic areas specified in §27.6(b)(1).

(3) Authorizations for Block C, consisting of two paired channels of 11 megahertz each, will be based on those geographic areas specified in §27.6(b)(2). In the event that no licenses granting authorizations for Block C, consisting of two paired channels of 11 megahertz each, are assigned based on the results of the first auction in which such licenses are offered because the auction results do not satisfy the applicable reserve price, then the authorizations for the spectrum in the 746–757 MHz and 776–787 MHz bands will instead be as follows:

   (i) Authorizations for Block C1, consisting of two paired channels of 6 megahertz each in the 746–752 MHz and 776–782 MHz bands, will be based on those geographic areas specified in §27.6(b)(2)(i).

   (ii) Authorizations for Block C2, consisting of two paired channels of 5 megahertz each in the 752–757 MHz and 782–787 MHz bands, will be based on those geographic areas specified in §27.6(b)(2)(ii).

§27.11 Initial authorization.

(a) An applicant must file a single application for an initial authorization for all markets won and frequency blocks desired. Initial authorizations shall be granted in accordance with §27.5. Applications for individual sites are not required and will not be accept-
§ 27.12 Eligibility.

Except as provided in §§ 27.604, 27.1201, and 27.1202, any entity other than those precluded by section 310 of the Communications Act of 1934, as amended, 47 U.S.C. 310, is eligible to hold a license under this part.

[69 FR 72033, Dec. 10, 2004]

§ 27.13 License period.

(a) 2305–2320 MHz and 2345–2360 MHz bands. Initial WCS authorizations for the 2305–2320 MHz and 2345–2360 MHz bands will have a term not to exceed ten years from the date of original issuance or renewal.

(b) 698–763 MHz, 770–793 MHz, 775–776, and 865–886 MHz bands. Initial authorizations for the 698–763 MHz and 776–793 MHz bands will extend for a term not to exceed ten years from June 13, 2009, except that initial authorizations for a Part 27 licensee that provides broadcast services, whether exclusively or in combination with other services, will...
not exceed eight years. Initial authorizations for the 775–776 MHz and 805–806 MHz bands shall not exceed April 27, 2015. Licensees that initiate the provision of a broadcast service, whether exclusively or in combination with other services, may not provide this service for more than eight years or beyond the end of the license term if no broadcast service had been provided, whichever period is shorter in length.

(c) 1390–1392 MHz band. Initial authorizations for the 1390–1392 MHz band will have a term not to exceed ten years from the date of initial issuance or renewal.

(d) The paired 1392–1395 and 1432–1435 MHz bands. Initial WCS authorizations for the paired 1392–1395 MHz and 1432–1435 MHz bands will have a term not to exceed ten years from the date of initial issuance or renewal.

(e) 1670–1675 MHz band. Initial authorizations for the 1670–1675 MHz band will have a term not to exceed ten years from the date of initial issuance or renewal.

(f) [Reserved]

(g) 1710–1755 MHz and 2110–2155 MHz bands. Authorizations for the 1710–1755 MHz and 2110–2155 MHz bands will have a term not to exceed ten years from the date of initial issuance or renewal, except that authorizations issued on or before December 31, 2009, shall have a term of fifteen years.

(b) BRS and EBS. BRS and EBS authorizations shall have a term not to exceed ten years from the date of original issuance or renewal. Unless otherwise specified by the Commission, incumbent BRS authorizations shall expire on May 1 in the year of expiration.

§ 27.14 Construction requirements; Criteria for renewal.

(a) AWS and WCS licensees, with the exception of WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, Block C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, or Block D in the 758–763 MHz and 788–793 MHz bands, must, as a performance requirement, make a showing of “substantial service” in their license area within the prescribed license term set forth in §27.13. “Substantial service” is defined as service which is sound, favorable and substantially above a level of mediocre service which just might minimally warrant renewal. Failure by any licensee to meet this requirement will result in forfeiture of the license and the licensee will be ineligible to regain it.

(b) A renewal applicant involved in a comparative renewal proceeding shall receive a preference, commonly referred to as a renewal expectancy, which is the most important comparative factor to be considered in the proceeding, if its past record for the relevant license period demonstrates that:

(1) The renewal applicant has provided “substantial” service during its past license term; and

(2) The renewal applicant has substantially complied with applicable FCC rules, policies and the Communications Act of 1934, as amended.

(c) In order to establish its right to a renewal expectancy, a WCS renewal applicant involved in a comparative renewal proceeding must submit a showing explaining why it should receive a renewal expectancy. At a minimum, this showing must include:

(1) A description of its current service in terms of geographic coverage and population served;

(2) An explanation of its record of expansion, including a timetable of new construction to meet changes in demand for service;

(3) A description of its investments in its WCS system; and

(4) Copies of all FCC orders finding the licensee to have violated the Communications Act or any FCC rule or policy; and a list of any pending proceedings that relate to any matter described in this paragraph.

(d) In making its showing of entitlement to a renewal expectancy, a renewal applicant may claim credit for any system modification applications that were pending on the date it filed its renewal application. Such credit
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will not be allowed if the modification application is dismissed or denied.

(e) Comparative renewal proceedings do not apply to WCS licensees holding authorizations for Block A in the 698–704 MHz, 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block C in the 710–716 MHz and 740–746 MHz bands, Block D in the 716–722 MHz band, Block E in the 722–728 MHz band, Block C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, or Block D in the 758–763 MHz and 788–793 MHz bands. Each of these licensees must file a renewal application in accordance with the provisions set forth in §1.949, and must make a showing of substantial service, independent of its performance requirements, as a condition for renewal at the end of each license term.

(f) Comparative renewal proceedings do not apply to WCS licensees holding authorizations for the 698–746 MHz, 747–762 MHz, and 777–792 MHz bands. These licensees must file a renewal application in accordance with the provisions set forth in §1.949 of this chapter.

(g) WCS licensees holding EA authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, cellular market authorizations for Block B in the 704–710 MHz and 734–740 MHz bands, or EA authorizations for Block E in the 722–728 MHz band, if the results of the first auction in which licenses for such authorizations are offered satisfy the reserve price for the applicable block, shall provide signal coverage and offer service over at least 35 percent of the geographic area of each of their license authorizations no later than June 13, 2013 (or within four years of initial license grant, if the initial authorization in a market is granted after June 13, 2009), the term of that license authorization will be reduced by two years and such licensee may be subject to enforcement action, including forfeitures. In addition, an EA or CMA licensee that provides signal coverage and offers service at a level that is below this interim benchmark may lose authority to operate in part of the remaining unserved areas of the license.

(1) If an EA or CMA licensee holding an authorization in these particular blocks fails to provide signal coverage and offer service over at least 35 percent of the geographic area of its license authorization by no later than June 13, 2013 (or within four years of initial license grant, if the initial authorization in a market is granted after June 13, 2009), the term of that license authorization will be reduced by two years and such licensee may be subject to enforcement action, including forfeitures. In addition, an EA or CMA licensee that provides signal coverage and offers service at a level that is below this interim benchmark may lose authority to operate in part of the remaining unserved areas of the license.

(2) If any such EA or CMA licensee fails to provide signal coverage and offer service to at least 70 percent of the geographic area of its license authorization by the end of the license term, that licensee’s authorization will terminate automatically without Commission action for those geographic portions of its license in which the licensee is not providing service, and those unserved areas will become available for reassignment by the Commission. Such licensee may also be subject to enforcement action, including forfeitures. In addition, an EA or CMA licensee that provides signal coverage and offers service at a level that is below this end-of-term benchmark may be subject to license termination. In the event that a licensee’s authority to operate in a license area terminates automatically without Commission action, such areas will become available for reassignment pursuant to the procedures in paragraph (j) of this section.

(3) For licenses under paragraph (g) of this section, the geographic service area to be made available for reassignment must include a contiguous area of at least 130 square kilometers (50 square miles), and areas smaller than a contiguous area of at least 130 square kilometers (50 square miles) will not be deemed unserved.

In applying these geographic benchmarks, licensees are not required to include land owned or administered by government as a part of the relevant service area. Licensees may count covered government land for purposes of meeting their geographic construction benchmark, but are required to add the covered government land to the total geographic area used for measurement purposes. Licensees are required to include those populated lands held by tribal governments and those held by the Federal Government in trust or for the benefit of a recognized tribe.
(h) WCS licensees holding REAG authorizations for Block C in the 746–757 MHz and 776–787 MHz bands or REAG authorizations for Block C2 in the 752–757 MHz and 782–787 MHz bands shall provide signal coverage and offer service over at least 40 percent of the population in each EA comprising the REAG license area no later than June 13, 2013 (or within four years of initial license grant, if the initial authorization in a market is granted after June 13, 2009), and shall provide such service over at least 75 percent of the population of each of these EAs by the end of the license term. For purposes of compliance with this requirement, licensees should determine population based on the most recently available U.S. Census Data.

(1) If a licensee holding a Block C authorization fails to provide signal coverage and offer service over at least 40 percent of the population in each EA comprising the REAG license area by no later than June 13, 2013 (or within four years of initial license grant if the initial authorization in a market is granted after June 13, 2009), the term of the license authorization will be reduced by two years and such licensee may be subject to enforcement action, including forfeitures. In addition, a licensee that provides signal coverage and offers service at a level that is below this interim benchmark may lose authority to operate in part of the remaining unserved areas of the license.

(2) If a licensee holding a Block C authorization fails to provide signal coverage and offer service over at least 75 percent of the population in any EA comprising the REAG license area by the end of the license term, for each such EA that licensee’s authorization will terminate automatically without Commission action for those geographic portions of its license in which the licensee is not providing service. Such licensee may also be subject to enforcement action, including forfeitures. In the event that a licensee’s authority to operate in a license area terminates automatically without Commission action, such areas will become available for reassignment pursuant to the procedures in paragraph (i) of this section. In addition, a REAG licensee that provides signal coverage and offers service at a level that is below this end-of-term benchmark within any EA may be subject to license termination within that EA.

(3) For licenses under paragraph (h), the geographic service area to be made available for reassignment must include a contiguous area of at least 130 square kilometers (50 square miles), and areas smaller than a contiguous area of at least 130 square kilometers (50 square miles) will not be deemed unserved.

(i) WCS licensees holding EA authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, cellular market authorizations for Block B in the 704–710 MHz and 734–740 MHz bands, or EA authorizations for Block E in the 722–728 MHz band, if the results of the first auction in which licenses for such authorizations in Blocks A, B, and E are offered do not satisfy the reserve price for the applicable block, as well as EA authorizations for Block C1 in the 746–752 MHz and 776–782 MHz bands, are subject to the following:

(1) If a licensee holding a cellular market area or EA authorization subject to this paragraph (i) fails to provide signal coverage and offer service over at least 40 percent of the population in its license area by no later than June 13, 2013 (or within four years of initial license grant, if the initial authorization in a market is granted after June 13, 2009), the term of that license authorization will be reduced by two years and such licensee may be subject to enforcement action, including forfeitures. In addition, such licensee that provides signal coverage and offers service at a level that is below this interim benchmark may lose authority to operate in part of the remaining unserved areas of the license. For purposes of compliance with this requirement, licensees should determine population based on the most recently available U.S. Census Data.

(2) If a licensee holding a cellular market area or EA authorization subject to this paragraph (i) fails to provide signal coverage and offer service over at least 75 percent of the population in its license area by the end of...
the license term, that licensee’s authorization will terminate automatically without Commission action for those geographic portions of its license in which the licensee is not providing service, and those unserved areas will become available for reassignment by the Commission. Such licensee may also be subject to enforcement action, including forfeitures. In the event that a licensee’s authority to operate in a license area terminates automatically without Commission action, such areas will become available for reassignment pursuant to the procedures in paragraph (j) of this section. In addition, such a licensee that provides signal coverage and offers service at a level that is below this end-of-term benchmark may be subject to license termination. For purposes of compliance with this requirement, licensees should determine population based on the most recently available U.S. Census Data.

(3) For licenses under paragraph (i), the geographic service area to be made available for reassignment must include a contiguous area of at least 130 square kilometers (50 square miles), and areas smaller than a contiguous area of at least 130 square kilometers (50 square miles) will not be deemed unserved.

(j) In the event that a licensee’s authority to operate in a license area terminates automatically under paragraphs (g), (h), or (i) of this section, such areas will become available for reassignment pursuant to the following procedures:

(1) The Wireless Telecommunications Bureau is delegated authority to announce by public notice that these license areas will be made available and establish a 30-day window during which third parties may file license applications to serve these areas. During this 30-day period, licensees that had their authority to operate terminate automatically for unserved areas may not file applications to provide service to these areas. Applications filed by third parties that propose areas overlapping with other applications will be deemed mutually exclusive, and will be resolved through an auction. The Wireless Telecommunications Bureau, by public notice, may specify a limited period before the filing of short-form applications (FCC Form 175) during which applicants may enter into a settlement to resolve their mutual exclusivity, subject to the provisions of §1.935 of this chapter.

(2) Following this 30-day period, the original licensee and third parties can file license applications for remaining unserved areas where licenses have not been issued or for which there are no pending applications. If the original licensee or a third party files an application, that application will be placed on public notice for 30 days. If no mutually exclusive application is filed, the application will be granted, provided that a grant is found to be in the public interest. If a mutually exclusive application is filed, it will be resolved through an auction. The Wireless Telecommunications Bureau, by public notice, may specify a limited period before the filing of short-form applications (FCC Form 175) during which applicants may enter into a settlement to resolve their mutual exclusivity, subject to the provisions of §1.935 of this chapter.

(3) The licensee will have one year from the date the new license is issued to complete its construction and provide signal coverage and offer service over 100 percent of the geographic area of the new license area. If the licensee fails to meet this construction requirement, its license will automatically terminate without Commission action and it will not be eligible to apply to provide service to this area at any future date.

(k) WCS licensees holding authorizations in the spectrum blocks enumerated in paragraphs (g), (h), or (i), including any licensee that obtained its license pursuant to the procedures set forth in subsection (j), shall demonstrate compliance with performance requirements by filing a construction notification with the Commission, within 15 days of the expiration of the applicable benchmark, in accordance with the provisions set forth in §1.946(d). The licensee must certify whether it has met the applicable performance requirements. The licensee
must file a description and certification of the areas for which it is providing service. The construction notifications must include electronic coverage maps, supporting technical documentation and any other information as the Wireless Telecommunications Bureau may prescribe by public notice.

(l) WCS licensees holding authorizations in the spectrum blocks enumerated in paragraphs (g), (h), or (i) of this section, excluding any licensee that obtained its license pursuant to the procedures set forth in subsection (j) of this section, shall file reports with the Commission that provide the Commission, at a minimum, with information concerning the status of their efforts to meet the performance requirements applicable to their authorizations in such spectrum blocks and the manner in which that spectrum is being utilized. The information to be reported will include the date the license term commenced, a description of the steps the licensee has taken toward meeting its construction obligations in a timely manner, including the technology or technologies and service(s) being provided, and the areas within the license area in which those services are available. Each of these licensees shall file its first report with the Commission no later than June 13, 2011 and no sooner than 30 days prior to this date. Each licensee that meets its interim benchmarks shall file a second report with the Commission no later than June 13, 2016 and no sooner than 30 days prior to this date. Each licensee that does not meet its interim benchmark shall file this second report no later than on June 13, 2015 and no sooner than 30 days prior to this date.

(m) The WCS licensee holding the authorization for the D Block in the 758–763 MHz and 788–793 MHz bands (the Upper 700 MHz D Block licensee) shall comply with the following construction requirements.

(1) The Upper 700 MHz D Block licensee shall provide a signal coverage and offer service over at least 75 percent of the population of the nationwide Upper 700 MHz D Block license area within four years from June 13, 2009, 95 percent of the population of the nationwide license area within seven years, and 99.3 percent of the population of the nationwide license area within ten years.

(2) The Upper 700 MHz D Block licensee may modify, to a limited degree, its population-based construction benchmarks with the agreement of the Public Safety Broadband Licensee and the prior approval of the Commission, where such a modification would better serve to meet commercial and public safety needs.

(3) The Upper 700 MHz D Block licensee shall meet the population benchmarks based on a performance schedule specified in the Network Sharing Agreement, taking into account performance pursuant to §27.1327 as appropriate under that rule, and using the most recently available U.S. Census Data. The network and signal levels employed to meet these benchmarks must be adequate for public safety use, as defined in the Network Sharing Agreement, and the services made available must include those appropriate for public safety entities that operate in those areas. The schedule shall include coverage for major highways and interstates, as well as such additional areas that are necessary to provide coverage for all incorporated communities with a population in excess of 3,000, unless the Public Safety Broadband Licensee and the Upper 700 MHz D Block licensee jointly determine, in consultation with a relevant community, that such additional coverage will not provide significant public benefit.

(4) The Upper 700 MHz D Block licensee shall demonstrate compliance with performance requirements by filing a construction notification with the Commission within 15 days of the expiration of the applicable benchmark, in accordance with the provisions set forth in §1.946(d) of this chapter. The licensee must certify whether it has met the applicable performance requirement and must file a description and certification of the areas for which it is providing service. The construction notifications must include the following:

(i) Certifications of the areas that were scheduled for construction and service by that date under the Network Sharing Agreement for which it is providing service, the type of service it is
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providing for each area, and the type of technology it is utilizing to provide this service.

(ii) Electronic coverage maps and supporting technical documentation providing the assumptions used by the licensee to create the coverage maps, including the propagation model and the signal strength necessary to provide service.

(n) At the end of its license term, the Upper 700 MHz D Block licensee must, in order to renew its license, make a showing of its success in meeting the material requirements set forth in the Network Sharing Agreement as well as all other license conditions, including the performance benchmark requirements set forth in this section.

(o) BRS and EBS licensees must make a showing of “substantial service” no later than May 1, 2011. Incumbent BRS licensees must file their “substantial service” showing with their renewal application. “Substantial service” is defined as service which is sound, favorable, and substantially above a level of mediocre service which just might minimally warrant renewal. Substantial service for BRS and EBS licensees is satisfied if a licensee has not met the requirements of paragraph (o)(1) or (o)(2) of this section. If a licensee has not met the requirements of paragraph (o)(1) or (o)(2) of this section, then demonstration of “substantial service” shall proceed on a case-by-case basis. All substantial service determinations will be made on a license-by-license basis. Except for BTA licenses, BRS licensees must file their “substantial service” showing with their renewal applications. Failure by any licensee to meet this requirement will result in forfeiture of the license and the licensee will be ineligible to regain it.

(1) A BRS or EBS licensee has provided “substantial service” by:

(i) Constructing six permanent links per one million people for licensees providing fixed point-to-point services;

(ii) Providing coverage of at least 30 percent of the population of the licensed area for licensees providing mobile services or fixed point-to-multipoint services;

(iii) Providing service to “rural areas” (a county (or equivalent) with a population density of 100 persons per square mile or less, based upon the most recently available Census data) and areas with limited access to telecommunications services:

(A) For mobile service, where coverage is provided to at least 75% of the geographic area of at least 30% of the rural areas within its service area; or

(B) for fixed service, where the BRS or EBS licensee has constructed at least one end of a permanent link in at least 30% of the rural areas within its licensed area.

(iv) Providing specialized or technologically sophisticated service that does not require a high level of coverage to benefit consumers; or

(v) Providing service to niche markets or areas outside the areas served by other licensees.

(2) An EBS licensee has provided “substantial service” when:

(i) The EBS licensee is using its spectrum (or spectrum to which the EBS licensee’s educational services are shifted) to provide educational services within the EBS licensee’s GSA;

(ii) the EBS licensee’s license is actually being used to serve the educational mission of one or more accredited public or private schools, colleges or universities providing formal educational and cultural development to enrolled students; or

(iii) the level of service provided by the EBS licensee meets or exceeds the minimum usage requirements specified in §27.1214.

(3) An EBS or BRS licensee may be deemed to provide substantial service through a leasing arrangement if the lessee is providing substantial service under paragraph (o)(1) or (o)(2) of this section. The EBS licensee must also be otherwise in compliance with this Chapter (including the programming requirements in §27.1203 of this subpart).

(4) If the GSA of a licensee is less than 1924 square miles in size, and there is an overlapping co-channel station licensed or leased by the licensee or its affiliate, substantial service may be demonstrated by meeting the requirements of paragraph (o)(1) or (o)(2) of this section with respect to the combined GSAs of both stations.

(5) If the GSA of a BTA authorization holder, is less than one-half of the area within the BTA for every BRS channel,
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§ 27.15 Geographic partitioning and spectrum disaggregation.

(a) Eligibility. (1) Parties seeking approval for partitioning and disaggregation shall request from the Commission an authorization for partial assignment of a license pursuant to § 1.948.

(2) AWS and WCS licensees may apply to partition their licensed geographic service area or disaggregate their licensed spectrum at any time following the grant of their licenses.

(b) Technical Standards—(1) Partitioning. In the case of partitioning, applicants and licensees must file FCC Form 603 pursuant to section 1.948 and list the partitioned service area on a schedule to the application. The geographic coordinates must be specified in degrees, minutes, and seconds to the nearest second of latitude and longitude and must be based upon the 1983 North American Datum (NAD83).

(2) Disaggregation. Spectrum may be disaggregated in any amount.

(c) Combined partitioning and disaggregation. The Commission will consider requests for partial assignment of licenses that propose combinations of partitioning and disaggregation.

(d) Signal levels. For purposes of partitioning and disaggregation, part 27 systems must be designed so as not to exceed the signal level specified for the particular spectrum block in § 27.55 at the licensee’s service area boundary, unless the affected adjacent service area licensees have agreed to a different signal level.

(c) License term. The license term for a partitioned license area and for disaggregated spectrum shall be the remainder of the original licensee’s license term as provided for in § 27.13.

(d) Compliance with construction requirements—(1) Partitioning. (i) Except for WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, Blocks C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, or Block D in the 758–763 MHz and 788–793 MHz bands, the following rules apply to WCS and AWS licensees holding authorizations for purposes of implementing the construction requirements set forth in § 27.14. Parties to partitioning agreements have two options for satisfying the construction requirements set forth in § 27.14. Under the first option, the partitioner and partitionee each certifies that it will independently satisfy the substantial service requirement for its respective partitioned area. If a licensee subsequently fails to meet its substantial service requirement, its license will be subject to automatic cancellation without further Commission action. Under the section option, the partitioner certifies that it has met or will meet the substantial service requirement for the entire, pre-partitioned geographic service area. If the partitioner subsequently fails to meet its substantial service requirement, only its license will be subject to automatic cancellation without further Commission action.

(ii) For WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, Blocks C, C1, and C2 in the 746–757 MHz and 776–787 MHz bands, or Block D in the 758–763 MHz and 788–793 MHz bands, the following rules apply for purposes of implementing the construction requirements set forth in § 27.14. Parties to partitioning agreements have two options...
§ 27.16 Network access requirements for Block C in the 746–757 and 776–787 MHz bands.

(a) Applicability. This section shall apply only to the authorizations for Block C in the 746–757 and 776–787 MHz bands assigned and only if the results of the first auction in which licenses for such authorizations are offered satisfied the applicable reserve price.

(b) Use of devices and applications. Licensees offering service on spectrum subject to this section shall not deny, limit, or restrict the ability of their customers to use the devices and applications of their choice on the licensee’s C Block network, except:

(1) Insofar as such use would not be compliant with published technical standards reasonably necessary for the management or protection of the licensee’s network, or

(2) Disaggregation. (i) Except for WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, and Blocks C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, the following rules apply for purposes of implementing the construction requirements set forth in § 27.14. If either the disaggregator or the disaggregatee meets the construction requirements set forth in § 27.14, then these requirements will be considered to be satisfied for both parties. If neither the disaggregator nor the disaggregatee meets the construction requirements, then both parties will be subject to the consequences enumerated in § 27.14(g) and (h) for this failure.

(ii) For WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, and Blocks C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, the following rules apply for purposes of implementing the construction requirements set forth in § 27.14. If either the disaggregator or the disaggregatee meets the construction requirements set forth in § 27.14, then the consequences for this failure shall be those enumerated in § 27.14(g) and (h).

(2) For WCS licensees holding authorizations for Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, and Blocks C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, the following rules apply for purposes of implementing the construction requirements set forth in § 27.14. If either the disaggregator or the disaggregatee meets the construction requirements set forth in § 27.14, then these requirements will be considered to be satisfied for both parties. If neither the disaggregator nor the disaggregatee meets the construction requirements, then both parties will be subject to the consequences enumerated in § 27.14(g) and (h) for this failure.
§ 27.20 Digital television transition education reports.

(a) The requirements of this section shall apply only with regard to WCS license authorizations in Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, Block C, C1, or C2 in the 746–757 MHz and 776–787 MHz bands, and Block D in the 758–763 MHz and 788–793 MHz bands.

(b) By the tenth day of the first calendar quarter after the initial grant of a WCS license authorization subject to the requirements of this section—and on a quarterly basis thereafter as specified in paragraph (c) of this section—the licensee holding such authorization must file a report with the Commission indicating whether, in the previous quarter, it has taken any outreach efforts to educate consumers about the transition from analog broadcast television service to digital broadcast television service (DTV) and, if so, what specific efforts were undertaken. Thus, for example, if the license authorization is granted during the April–June quarter of 2008, the licensee must file its first report by July 10, 2008. Each quarterly report, either paper or electronic, must be filed with the Commission in Docket Number 07–148.

(e) Handset locking prohibited. No licensee may disable features on handsets it provides to customers, to the extent such features are compliant with the licensee’s standards pursuant to paragraph (b) of this section, nor configure handsets it provides to prohibit use of such handsets on other providers’ networks.

(f) Burden of proof. Once a complainant sets forth a prima facie case that the C Block licensee has refused to attach a device or application in violation of the requirements adopted in this section, the licensee shall have the burden of proof to demonstrate that it has adopted reasonable network standards and reasonably applied those standards in the complainant’s case. Where the licensee bases its network restrictions on industry-wide consensus standards, such restrictions would be presumed reasonable.

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quarterly report is a paper filing, the cover sheet must clearly state "Report," whereas if the report is filed electronically using the Commission's Electronic Comment File System (ECFS), the "Document Type" on the cover sheet should indicate "REPORT." 

(c) The reporting requirements under this section cover the remaining period of the DTV transition. Accordingly, once the licensee files its quarterly report covering the second quarter of 2009, the requirements of this section terminate.


Subpart C—Technical Standards

§ 27.50 Power and antenna height limits.

(a) The following power limits apply to the 2305–2320 MHz and 2345–2360 MHz bands:

(1) Fixed, land, and radiolocation land stations transmitting are limited to 2000 watts peak equivalent isotropically radiated power (EIRP).

(2) Mobile and radiolocation mobile stations transmitting are limited to 20 watts EIRP peak power.

(b) The following power and antenna height limits apply to transmitters operating in the 746–763 MHz, 775–793 MHz and 805–806 MHz bands:

(1) Fixed and base stations transmitting a signal in the 757–758 and 775–776 MHz bands must not exceed an effective radiated power (ERP) of 1000 watts and an antenna height of 305 m height above average terrain (HAAT), except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts ERP in accordance with Table 1 of this section.

(2) Fixed and base stations transmitting a signal in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands with an emission bandwidth of 1 MHz or less and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts ERP in accordance with Table 2 of this section.

(3) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based on the most recently available population statistics from the Bureau of the Census, and transmitting a signal in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section.

(4) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based on the most recently available population statistics from the Bureau of the Census, and transmitting a signal in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section.

(5) Licensees of fixed or base stations transmitting a signal in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands at an ERP greater than 1000 watts must comply with the provisions set forth in paragraph (b)(8) of this section and § 27.55(c).

(6) Licensees of fixed or base stations transmitting in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands at an ERP greater than 1000 watts must comply with the provisions set forth in paragraphs (b)(8) of this section and § 27.55(c).

(7) Licensees seeking to operate a fixed or base station located in a county with population density of 100 or fewer persons per square mile, based on the most recently available population statistics from the Bureau of the Census, and transmitting a signal in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands at an ERP greater than 1000 watts must:
(i) coordinate in advance with all licensees authorized to operate in the 698–763 MHz, 775–793, and 805–806 MHz bands within 120 kilometers (75 miles) of the base or fixed station;

(ii) coordinate in advance with all regional planning committees, as identified in §90.527 of this chapter, with jurisdiction within 120 kilometers (75 miles) of the base or fixed station.

(8) Licensees authorized to transmit in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands and intending to operate a base or fixed station at a power level permitted under the provisions of paragraph (b)(6) of this section must provide advanced notice of such operation to the Commission and to licensees authorized in their area of operation. Licensees who must be notified are all licensees authorized to operate in the 763–775 MHz and 793–805 MHz bands under part 90 of this chapter within 75 km of the base or fixed station and all regional planning committees, as identified in §90.527 of this chapter, with jurisdiction within 75 km of the base or fixed station. Notifications must provide the location and operating parameters of the base or fixed station. Notifications must provide the location and operating parameters of the base or fixed station, including the station’s ERP, antenna coordinates, antenna height above ground, and vertical antenna pattern, and such notifications must be provided at least 90 days prior to the commencement of station operation.

(9) Control stations and mobile stations transmitting in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands and fixed stations transmitting in the 787–788 MHz and 805–806 MHz bands are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

(11) For transmissions in the 757–758, 775–776, 787–788, and 805–806 MHz bands, maximum composite transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of RMS-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, etc., so as to obtain a true maximum composite measurement for the emission in question over the full bandwidth of the channel.

(12) For transmissions in the 746–757, 758–763, 776–787, and 788–793 MHz bands, licensees may employ equipment operating in compliance with either the measurement techniques described in paragraph (b)(11) of this section or a Commission-approved average power technique. In both instances, equipment employed must be authorized in accordance with the provisions of §27.51.

(c) The following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band:

(1) Fixed and base stations transmitting a signal with an emission bandwidth of 1 MHz or less must not exceed an effective radiated power (ERP) of 1000 watts and an antenna height of 305 m height above average terrain (HAAT), except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts ERP in accordance with Table 1 of this section;

(2) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal with an emission bandwidth of 1 MHz or less must not exceed an ERP of 2000 watts and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts ERP in accordance with Table 2 of this section;

(3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section;

(4) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal with
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an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section;

(5) Licensees seeking to operate a fixed or base station located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal at an ERP greater than 1000 watts must:

(i) coordinate in advance with all licensees authorized to operate in the 698–763 MHz, 775–793, and 805–806 MHz bands within 120 kilometers (75 miles) of the base or fixed station;

(ii) coordinate in advance with all regional planning committees, as identified in §§90.527 of this chapter, with jurisdiction within 120 kilometers (75 miles) of the base or fixed station.

(6) Licensees of fixed or base stations transmitting a signal at an ERP greater than 1000 watts greater than 1000 watts/MHz must comply with the provisions of paragraph (c)(6) of this section and §27.55(b), except that licensees of fixed or base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, must comply with the provisions of paragraph (c)(8) of this section and §27.55(b) only if transmitting a signal at an ERP greater than 2000 watts and greater than 2000 watts/MHz.

(7) A licensee authorized to operate in the 710–716, 716–722, or 740–746 MHz bands, or in any unpaired spectrum blocks within the 698–746 MHz band, may operate a fixed or base station at an ERP up to a total of 50 kW within its authorized, 6 MHz spectrum block if the licensee complies with the provisions of §27.55(b). The antenna height for such stations is limited only to the extent required to satisfy the requirements of §27.55(b).

(8) Licensees intending to operate a base or fixed station at a power level permitted under the provisions of paragraph (c)(6) of this section must provide advanced notice of such operation to the Commission and to licensees authorized in their area of operation. Licensees who must be notified are all licensees authorized under this part to operate on an adjacent spectrum block within 75 km of the base or fixed station. Notifications must provide the location and operating parameters of the base or fixed station, including the station’s ERP, antenna coordinates, antenna height above ground, and vertical antenna pattern, and such notifications must be provided at least 90 days prior to the commencement of station operation.

(9) Control and mobile stations are limited to 30 watts ERP;

(10) Portable stations (hand-held devices) are limited to 3 watts ERP; and

(11) Licensees may employ equipment operating in compliance with either the measurement techniques described in paragraph (b)(11) of this section or a Commission-approved average power technique. In both instances, equipment employed must be authorized in accordance with the provisions of §27.51.

(d) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands:

(1) The power of each fixed or base station transmitting in the 2110–2155 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, is limited to a peak equivalent isotropically radiated power (EIRP) of 3280 watts. The power of each fixed or base station transmitting in the 2110–2155 MHz band from any other location is limited to a peak EIRP of 1640 watts. A licensee operating a base or fixed station utilizing a power of more than 1640 watts EIRP must coordinate such operations in advance with all Government and non-Government satellite entities in the 2025–2110 MHz band. Operations above 1640 watts EIRP must also be coordinated in advance with the following licensees within 120 kilometers (75 miles) of the base or fixed station: all Broadband Radio Service (BRS) licensees authorized under part 27 in the 2155–2160 MHz band and all AWS licensees in the 2110–2155 MHz band.
(2) Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to a peak EIRP of 1 watt. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground, and mobile and portable stations must employ a means for limiting power to the minimum necessary for successful communications.

(e) The following power limits apply to the paired 1392–1395 MHz and 1432–1435 MHz bands as well as the unpaired 1390–1392 MHz band (1.4 GHz band):

(1) Fixed stations transmitting in the 1390–1392 MHz and 1432–1435 MHz bands are limited to 2000 watts EIRP peak power. Fixed stations transmitting in the 1392–1395 MHz band are limited to 100 watts EIRP peak power.

(2) Mobile stations transmitting in the 1390–1392 MHz and 1432–1435 MHz bands are limited to 4 watts EIRP peak power. Mobile stations transmitting in the 1392–1395 MHz band are limited to 1 watt EIRP peak power.

(f) The following power limits apply to the 1670–1675 MHz band:

(1) Fixed and base stations are limited to 2000 watts EIRP peak power.

(2) Mobile stations are limited to 4 watts EIRP peak power.

(g) [Reserved]

(h) The following power limits shall apply in the BRS and EBS:

(1) Main, booster and base stations. (i) The maximum EIRP of a main, booster or base station shall not exceed 33 dBW + 10 log(X/Y) dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

(ii) If a main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern, the maximum EIRP in dBi in a given direction shall be determined by the following formula: EIRP = 33 dBW + 10 log(X/Y) dBW + 10 log(360/beamwidth) dBW, where X is the actual channel width in MHz, Y is either (i) 6 MHz if prior to transition or the station is in the MBS following transition or (ii) 5.5 MHz if the station

is in the LBS and UBS following transition, and beamwidth is the total horizontal plane beamwidth of the individual transmitting antenna for the station or any sector measured at the half-power points.

(2) Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

(3) For television transmission, the peak power of the accompanying aural signal must not exceed 10 percent of the peak visual power of the transmitter. The Commission may order a reduction in aural signal power to diminish the potential for harmful interference.

(4) For main, booster and response stations utilizing digital emissions with non-uniform power spectral density (e.g., unfiltered QPSK), the power measured within any 100 kHz resolution bandwidth within the 6 MHz channel occupied by the non-uniform emission cannot exceed the power permitted within any 100 kHz resolution bandwidth within the 6 MHz channel if it were occupied by an emission with uniform power spectral density, i.e., if the maximum permissible power of a station utilizing a perfectly uniform power spectral density across a 6 MHz channel were 2000 watts EIRP, this would result in a maximum permissible power flux density for the station of 2000/60 = 33.3 watts EIRP per 100 kHz bandwidth. If a non-uniform emission were substituted at the station, station power would still be limited to a maximum of 33.3 watts EIRP within any 100 kHz segment of the 6 MHz channel, irrespective of the fact that this would result in a total 6 MHz channel power of less than 2000 watts EIRP.

(i) Peak transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.
### TABLE 1 TO § 27.50—PERMISSIBLE POWER AND ANTENNA HEIGHTS FOR BASE AND FIXED STATIONS IN THE 757–758 AND 775–776 MHZ BANDS AND FOR BASE AND FIXED STATIONS IN THE 698–757 MHZ, 758–763 MHZ, 776–787 MHZ AND 788–793 MHZ BANDS TRANSMITTING A SIGNAL WITH AN EMISSION BANDWIDTH OF 1 MHZ OR LESS

<table>
<thead>
<tr>
<th>Antenna height (AAT) in meters (feet)</th>
<th>Effective radiated power (ERP) (watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 1372 (4500)</td>
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<tr>
<td>Above 1220 (4000) To 1372 (4500)</td>
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<tr>
<td>Above 1067 (3500) To 1220 (4000)</td>
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<tr>
<td>Above 915 (3000) To 1067 (3500)</td>
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<td>Above 763 (2500) To 915 (3000)</td>
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<tr>
<td>Above 610 (2000) To 763 (2500)</td>
<td>140</td>
</tr>
<tr>
<td>Above 458 (1500) To 610 (2000)</td>
<td>200</td>
</tr>
<tr>
<td>Above 305 (1000) To 458 (1500)</td>
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<tr>
<td>Up to 305 (1000)</td>
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</table>

### TABLE 2 TO § 27.50—PERMISSIBLE POWER AND ANTENNA HEIGHTS FOR BASE AND FIXED STATIONS IN THE 698–757 MHZ, 758–763 MHZ, 776–787 MHZ AND 788–793 MHZ BANDS TRANSMITTING A SIGNAL WITH AN EMISSION BANDWIDTH OF 1 MHZ OR LESS

<table>
<thead>
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<th>Antenna height (AAT) in meters (feet)</th>
<th>Effective radiated power (ERP) (watts)</th>
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<tbody>
<tr>
<td>Above 1372 (4500)</td>
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<tr>
<td>Above 1220 (4000) To 1372 (4500)</td>
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<tr>
<td>Above 1067 (3500) To 1220 (4000)</td>
<td>140</td>
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<tr>
<td>Above 915 (3000) To 1067 (3500)</td>
<td>150</td>
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<tr>
<td>Above 763 (2500) To 915 (3000)</td>
<td>200</td>
</tr>
<tr>
<td>Above 610 (2000) To 763 (2500)</td>
<td>280</td>
</tr>
<tr>
<td>Above 458 (1500) To 610 (2000)</td>
<td>400</td>
</tr>
<tr>
<td>Above 305 (1000) To 458 (1500)</td>
<td>700</td>
</tr>
<tr>
<td>Up to 305 (1000)</td>
<td>1200</td>
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</table>

### TABLE 3 TO § 27.50—PERMISSIBLE POWER AND ANTENNA HEIGHTS FOR BASE AND FIXED STATIONS IN THE 698–757 MHZ, 758–763 MHZ, 776–787 MHZ AND 788–793 MHZ BANDS TRANSMITTING A SIGNAL WITH AN EMISSION BANDWIDTH GREATER THAN 1 MHZ

<table>
<thead>
<tr>
<th>Antenna height (AAT) in meters (feet)</th>
<th>Effective radiated power (ERP) per MHz (watts/MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 1372 (4500)</td>
<td>65</td>
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<tr>
<td>Above 1220 (4000) To 1372 (4500)</td>
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<tr>
<td>Above 1067 (3500) To 1220 (4000)</td>
<td>70</td>
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<tr>
<td>Above 915 (3000) To 1067 (3500)</td>
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<tr>
<td>Above 763 (2500) To 915 (3000)</td>
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<td>140</td>
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<td>Above 458 (1500) To 610 (2000)</td>
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<td>Above 305 (1000) To 458 (1500)</td>
<td>350</td>
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<tr>
<td>Up to 305 (1000)</td>
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### TABLE 4 TO § 27.50—PERMISSIBLE POWER AND ANTENNA HEIGHTS FOR BASE AND FIXED STATIONS IN THE 698–757 MHZ, 758–763 MHZ, 776–787 MHZ AND 788–793 MHZ BANDS TRANSMITTING A SIGNAL WITH AN EMISSION BANDWIDTH GREATER THAN 1 MHZ

<table>
<thead>
<tr>
<th>Antenna height (AAT) in meters (feet)</th>
<th>Effective radiated power (ERP) per MHz (watts/MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 1372 (4500)</td>
<td>130</td>
</tr>
<tr>
<td>Above 1220 (4000) To 1372 (4500)</td>
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<tr>
<td>Above 1067 (3500) To 1220 (4000)</td>
<td>140</td>
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<tr>
<td>Above 915 (3000) To 1067 (3500)</td>
<td>150</td>
</tr>
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TABLE 4 TO §27.50—PERMISSIBLE POWER AND ANTENNA HEIGHTS FOR BASE AND FIXED STATIONS IN THE 698–757 MHZ, 758–763 MHZ, 776–787 MHZ AND 788–793 MHZ BANDS TRANSMITTING A SIGNAL WITH AN EMISSION BANDWIDTH GREATER THAN 1 MHZ—Continued

<table>
<thead>
<tr>
<th>Antenna height (AAT) in meters (feet)</th>
<th>Effective radiated power (ERP) per MHz (watts/MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 763 (2500) To 915 (3000)</td>
<td>280</td>
</tr>
<tr>
<td>Above 610 (2000) To 763 (2500)</td>
<td>400</td>
</tr>
<tr>
<td>Above 458 (1500) To 610 (2000)</td>
<td>700</td>
</tr>
<tr>
<td>Above 305 (1000) To 458 (1500)</td>
<td>1200</td>
</tr>
<tr>
<td>Up to 305 (1000)</td>
<td>2000</td>
</tr>
</tbody>
</table>

§27.53 Emission limits.

(a) For operations in the bands 2305–2320 MHz and 2345–2360 MHz, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by the following amounts:

1. For fixed, land, and radiolocation land stations: By a factor not less than 80 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz.
2. For mobile and radiolocation mobile stations: By a factor not less than 110 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz.
3. For fixed, land, mobile, radiolocation land and radiolocation mobile stations: By a factor not less than 70 + 10 log (P) dB on all frequencies below 2300 MHz and on all frequencies above 2370 MHz; and not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2320 MHz and on all frequencies between 2345 and 2370 MHz that are outside the licensed bands of operation.
4. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth exposure requirements specified in sections 1.1307(b), 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of mobile or portable devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

§27.54 Equipment authorization.

(a) Each transmitter utilized for operation under this part must be of a type that has been authorized by the Commission under its certification procedure.
(b) Any manufacturer of radio transmitting equipment to be used in these services may request equipment authorization following the procedures set forth in subpart J of part 2 of this chapter. Equipment authorization for an individual transmitter may be requested by an applicant for a station authorization by following the procedures set forth in part 2 of this chapter.

§27.52 RF safety.

Licensees and manufacturers are subject to the radio frequency radiation exposure requirements specified in sections 1.1307(b), 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of mobile or portable devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.
of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth;

(5) In complying with the requirements in §27.53(a)(1) and §27.53(a)(2), WCS equipment that uses opposite sense circular polarization from that used by Satellite DARS systems in the 2320–2345 MHz band shall be permitted an allowance of 10 dB;

(6) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the edges, both upper and lower, of the licensee's bands of operation as the design permits;

(7) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power;

(8) Waiver requests of any of the out-of-band emission limits in paragraphs (a)(1) through (a)(7) of this section shall be entertained only if interference protection equivalent to that afforded by the limits is shown;

(9) In the 2305–2315 MHz band, if portable devices comply with all of the following requirements, then paragraph (a)(2) of this section shall not apply to portable devices, which instead shall attenuate all emissions into the 2320–2345 MHz band by a factor of not less than 93 + 10 log \( P \) dB:

(i) The portable device has a duty cycle of 12.5% or less, with at most a 312.5 microsecond pulse every 2.5 milliseconds;

(ii) The portable device must employ time division multiple access (TDMA) technology;

(iii) The nominal peak transmit output power of the portable device is no more than 200 milliwatts (25 milliwatts average power);

(iv) The portable device operates with the minimum power necessary for successful communications;

(v) The nominal average base station transmit output power is no more than 800 milliwatts when the base station antennas is located at a height of at least 8 meters (26.25 feet) above the ground;

(vi) Only fixed and portable devices and services may be provided; vehicle-mounted units are not permitted; and

(vii) Transmitting antennas shall employ linear polarization or another polarization that provides equivalent of better discrimination with respect to a DARS antenna;

(10) The out-of-band emissions limits in paragraphs (a)(1) through (a)(9) of this section may be modified by the private contractual agreement of all affected licensees, who shall maintain a copy of the agreement in their station files and disclose it to prospective assignees or transferees and, upon request, to the Commission.

(b) For WCS Satellite DARS operations:

The limits set forth in §25.202(f) of this chapter shall apply, except that Satellite DARS operations shall be limited to a maximum power flux density of \(-197\) dBW/m²/4 kHz in the 2370–2390 MHz band at Arecibo, Puerto Rico.

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power \( P \) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power \( P \) by at least 43 + 10 log \( P \) dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power \( P \) by at least 43 + 10 log \( P \) dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 76 + 10 log \( P \) dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log \( P \) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the
frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(d) For operations in the 758–763 MHz and 788–793 MHz bands, the power of any emission outside the licensee’s frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(3) On any frequency between 775–776 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB; (4) Compliance with the provisions of paragraphs (d)(1) and (d)(2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment;

(5) Compliance with the provisions of paragraph (d)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(e) For operations in the 775–776 MHz and 805–806 MHz bands, transmitters must comply with either paragraphs (e)(1) to (e)(5) of this section or the ACP emission limitations set forth in paragraphs (e)(6) to (e)(9) of this section.

(1) On all frequencies between 763–775 MHz and 793–805 MHz, the power of any emission outside the licensee’s frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, the power of any emission shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(3) On any frequency outside the 775–776 MHz and 805–806 MHz bands, the power of any emission shall be attenuated outside the band below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB;

(4) Compliance with the provisions of paragraphs (e)(1) and (e)(2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment;

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(6) For operations in the 775–776 MHz and 805–806 MHz bands, transmitters must comply with either paragraphs (e)(1) to (e)(5) of this section or the ACP emission limitations set forth in paragraphs (e)(6) to (e)(9) of this section.

(1) On all frequencies between 763–775 MHz and 793–805 MHz, the power of any emission outside the licensee’s frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;

(2) On all frequencies between 763–775 MHz and 793–805 MHz, the power of any emission shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(3) On any frequency outside the 775–776 MHz and 805–806 MHz bands, the power of any emission shall be attenuated outside the band below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB;

(4) Compliance with the provisions of paragraphs (e)(1) and (e)(2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment;

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(6) For operations in the 775–776 MHz and 805–806 MHz bands, transmitters must comply with either paragraphs (e)(1) to (e)(5) of this section or the ACP emission limitations set forth in paragraphs (e)(6) to (e)(9) of this section.

(1) On all frequencies between 763–775 MHz and 793–805 MHz, the power of any emission outside the licensee’s frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
### 6.25 kHz Mobile Transmitter ACP Requirements

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.25</td>
<td>6.25</td>
<td>-40</td>
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<tr>
<td>12.5</td>
<td>6.25</td>
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<td>&gt;400 kHz to 12 MHz</td>
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<tr>
<td>In the paired receive band</td>
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### 12.5 kHz Mobile Transmitter ACP Requirements

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<th>Measurement bandwidth (kHz)</th>
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<tr>
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<tr>
<td>350.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>&gt;400 kHz to 12 MHz</td>
<td>30(s)</td>
<td>-75</td>
</tr>
<tr>
<td>In the paired receive band</td>
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### 25 kHz Mobile Transmitter ACP Requirements

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<td>6.25</td>
<td>-40</td>
</tr>
<tr>
<td>21.875</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>37.50</td>
<td>25</td>
<td>-60</td>
</tr>
<tr>
<td>62.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>87.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>150.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>250.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>350.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>&gt;400 kHz to 12 MHz</td>
<td>30(s)</td>
<td>-75</td>
</tr>
<tr>
<td>In the paired receive band</td>
<td>30(s)</td>
<td>100</td>
</tr>
</tbody>
</table>

### 150 kHz Mobile Transmitter ACP Requirements

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>50</td>
<td>-40</td>
</tr>
<tr>
<td>200</td>
<td>50</td>
<td>-50</td>
</tr>
<tr>
<td>300</td>
<td>50</td>
<td>-50</td>
</tr>
<tr>
<td>400</td>
<td>50</td>
<td>-50</td>
</tr>
</tbody>
</table>

### 150 kHz Mobile Transmitter ACP Requirements—Continued

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP relative (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600–1000</td>
<td>30(s)</td>
<td>-60</td>
</tr>
<tr>
<td>1000 to receive band</td>
<td>30(s)</td>
<td>-70</td>
</tr>
<tr>
<td>In the receive band</td>
<td>30(s)</td>
<td>-100</td>
</tr>
</tbody>
</table>

### 6.25 kHz Base Transmitter ACP Requirements

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.25</td>
<td>6.25</td>
<td>-40</td>
</tr>
<tr>
<td>12.5</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>18.75</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>25.00</td>
<td>6.25</td>
<td>-65</td>
</tr>
<tr>
<td>37.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>62.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>87.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>150.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>250.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>350.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>&gt;400 kHz to 12 MHz</td>
<td>30(s)</td>
<td>-80</td>
</tr>
<tr>
<td>In the paired receive band</td>
<td>30(s)</td>
<td>-80</td>
</tr>
</tbody>
</table>

### 12.5 kHz Base Transmitter ACP Requirements

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.375</td>
<td>6.25</td>
<td>-40</td>
</tr>
<tr>
<td>15.625</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>21.875</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>37.50</td>
<td>25</td>
<td>-60</td>
</tr>
<tr>
<td>62.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>87.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>150.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>250.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>350.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>&gt;400 kHz to 12 MHz</td>
<td>30(s)</td>
<td>-80</td>
</tr>
<tr>
<td>In the paired receive band</td>
<td>30(s)</td>
<td>-80</td>
</tr>
</tbody>
</table>

### 25 kHz Base Transmitter ACP Requirements

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.625</td>
<td>6.25</td>
<td>-40</td>
</tr>
<tr>
<td>21.875</td>
<td>6.25</td>
<td>-60</td>
</tr>
<tr>
<td>37.50</td>
<td>25</td>
<td>-60</td>
</tr>
<tr>
<td>62.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>87.50</td>
<td>25</td>
<td>-65</td>
</tr>
<tr>
<td>150.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>250.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>350.00</td>
<td>100.00</td>
<td>-65</td>
</tr>
<tr>
<td>&gt;400 kHz to 12 MHz</td>
<td>30(s)</td>
<td>-80</td>
</tr>
<tr>
<td>In the paired receive band</td>
<td>30(s)</td>
<td>-80</td>
</tr>
</tbody>
</table>
§ 27.53

150 KHz BASE TRANSMITTER ACP REQUIREMENTS

<table>
<thead>
<tr>
<th>Offset from center frequency (kHz)</th>
<th>Measurement bandwidth (kHz)</th>
<th>Maximum ACP (dBc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>50</td>
<td>-40</td>
</tr>
<tr>
<td>200</td>
<td>50</td>
<td>-50</td>
</tr>
<tr>
<td>300</td>
<td>50</td>
<td>-55</td>
</tr>
<tr>
<td>400</td>
<td>50</td>
<td>-60</td>
</tr>
<tr>
<td>600–1000</td>
<td>30(s)</td>
<td>-65</td>
</tr>
<tr>
<td>1000 to receive band</td>
<td>30(s)</td>
<td>-75 (continues at -6dB/oct)</td>
</tr>
<tr>
<td>In the receive band</td>
<td>30(s)</td>
<td>-100</td>
</tr>
</tbody>
</table>

(7) ACP measurement procedure. The following procedures are to be followed for making ACP transmitter measurements. For time division multiple access (TDMA) systems, the measurements are to be made under TDMA operation only during time slots when the transmitter is on. All measurements must be made at the input to the transmitter’s antenna. Measurement bandwidth used below implies an instrument that measures the power in many narrow bandwidths (e.g., 300 Hz) and integrates these powers across a larger band to determine power in the measurement bandwidth.

(i) Setting reference level. Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth to the channel size. For example, for a 6.25 kHz transmitter, set the measurement bandwidth to 6.25 kHz; for a 150 kHz transmitter, set the measurement bandwidth to 150 kHz. Set the frequency offset of the measurement bandwidth to zero and adjust the center frequency of the spectrum analyzer to give the power level in the measurement bandwidth. Record this power level in dBm as the “reference power level”.

(ii) Non-swept power measurement. Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth as shown in the tables above. Measure the ACP in dBm. These measurements should be made at maximum power. Calculate the coupled power by subtracting the measurements made in this step from the reference power measured in the previous step. The absolute ACP values must be less than the values given in the table for each condition above.

(iii) Swept power measurement. Set a spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and sample mode detection. Sweep ±MHz from the carrier frequency. Set the reference level to the RMS value of the transmitter power and note the absolute power. The response at frequencies greater than 600 kHz must be less than the values in the tables above.

(8) Out-of-band emission limit. On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the unmodulated carrier power (P) by at least 43 + 10 log (P) dB.

(9) Authorized bandwidth. Provided that the ACP requirements of this section are met, applicants may request any authorized bandwidth that does not exceed the channel size.

(f) For operations in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to \(-70 \text{ dBW/MHz EIRP}\) for wideband signals, and \(-80 \text{ dBW EIRP}\) for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

(g) For operations in the 698–746 MHz band, the power of any emission outside a licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee’s frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10 (P) dB.

(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.
However, in the 1 megahertz bands immediately outside and adjacent to the licensee’s frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee’s frequency block edges, both upper and lower, as the design permits.

(3) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

(i) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

(j) For operations in the unpaired 1390–1392 MHz band and the paired 1392–1395 MHz and 1432–1435 MHz bands, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB. Compliance with these provisions is based on the procedures described in paragraph (a)(4) of this section.

(k) For operations in the 1670–1675 MHz band, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) by at least 38 dB relative to the peak visual carrier, then linearly sloping from that level to at least 60 dB of attenuation at 1 MHz below the lower band edge and 0.5 MHz above the upper band edge, and attenuated at least 60 dB at all other frequencies.

(2) For digital base stations, the attenuation shall be not less than 43 + 10 log (P) dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No. 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided that a documented interference complaint cannot be mutually resolved between the parties prior to the applicable deadline, then the following additional attenuation requirements shall apply:

(i) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located 1.5 km or more away, within 24 hours of the receipt of a documented interference complaint the licensee of the new or modified base station must attenuate its emissions by at least 67 + 10 log (P) dB measured at 3 megahertz, above or below, from the channel edge of its frequency block and shall immediately notify the complaining licensee upon implementation of the additional attenuation. No later than 60 days after the implementation of such additional attenuation, the licensee of the complaining base station must attenuate its base station emissions by at least 67 + 10 log (P) dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(ii) If a pre-existing base station suffers harmful interference from emissions caused by a new or modified base station located 1.5 km or more away, within 24 hours of the receipt of a documented interference complaint the licensee of the new or modified base station must attenuate its base station emissions by at least 67 + 10 log (P) dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the new or modified base station.

(3) For operations in the 1670–1675 MHz band, the power of any emission outside the licensee’s frequency band(s) of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.
station located less than 1.5 km away, within 24 hours of receipt of a documented interference complaint the licensee of the new or modified base station must attenuate its emissions by at least $67 + 10 \log (P) - 20 \log (D \text{km}/1.5)$ dB measured at 3 megahertz, above or below, from the channel edge of its frequency block of the complaining licensee. If both base stations are located at the channel edge of its frequency block of the new or modified base station.

(v) For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

(3) Prior to transition and thereafter solely within the MBS, and notwithstanding paragraph (l)(2) of this section, the maximum out-of-band power of a digital transmitter operating on a single 6 MHz channel with an EIRP in excess of $-9$ dBW employing digital modulation for the primary purpose of transmitting video programming shall be attenuated at the 6 MHz channel edges at least 25 dB relative to the licensed average 6 MHz channel power level, then attenuated along a linear slope to at least 40 dB at 230 KHz beyond the nearest channel edge, then attenuated along a linear slope from that level to at least 60 dB at 3 MHz above the upper and below the lower licensed channel edges, and attenuated at least 60 dB at all other frequencies.

(4) For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 megahertz from the channel edge. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

(5) Notwithstanding the provisions of paragraphs (l)(2) and (l)(4) of this section, prior to transition, a licensee may continue to operate facilities deployed as of January 10, 2005 provided that such facilities operate in compliance with the emission mask applicable to those services prior to January 10, 2005.

(6) Measurement procedure. Compliance with these rules is based on the measurement procedure. Compliance with the emission mask is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all
cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(7) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(n) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.


§ 27.54 Frequency stability.

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§ 27.55 Power strength limits.

(a) Field strength limits. For the following bands, the predicted or measured median field strength at any location on the geographical border of a licensee's service area shall not exceed the value specified unless the adjacent affected service area licensee(s) agree(s) to a different field strength. This value applies to both the initially offered service areas and to partitioned service areas.

(1) 2110–2155, 2305–2320 and 2345–2360 MHz bands: 47 dB_{μV/m}.

(2) 696–758 and 775–787 MHz bands: 40 dB_{μV/m}.

(3) The paired 1392–1395 MHz and 1432–1435 MHz bands and the unpaired 1390–1392 MHz band (1.4 GHz band): 47 dB_{μV/m}.

(4) BRS and EBS: The predicted or measured median field strength at any location on the geographical border of a licensee’s service area shall not exceed the value specified unless the adjacent affected service area licensee(s) agree(s) to a different field strength. This value applies to both the initially offered services areas and to partitioned services areas. Licensees may exceed this signal level where there is no affected licensee that is constructed and providing service. Once the affected licensee is providing service, the original licensee will be required to take whatever steps necessary to comply with the applicable power level at its GSA boundary, absent consent from the affected licensee.

(i) Prior to transition, the signal strength at any point along the licensee’s GSA boundary does not exceed the greater of that permitted under the licensee’s Commission authorizations as of January 10, 2005 or 47 dB_{μV/m}.

(ii) Following transition, for stations in the LBS and UBS, the signal strength at any point along the licensee’s GSA boundary must not exceed 47 dB_{μV/m}. This field strength is to be measured at 1.5 meters above the ground over the channel bandwidth (i.e., each 5.5 MHz channel for licensees that hold a full channel block, and for the 5.5 MHz channel for licensees that hold individual channels).

(iii) Following transition, for stations in the MBS, the signal strength at any point along the licensee’s GSA boundary must not exceed the greater of $-73.0 + 10 \log(X/6)$ dBW/m², where X is the bandwidth in megahertz of the channel, or for facilities that are substantially similar to the licensee’s pre-
transition facilities (including modifications that do not alter the fundamental nature or use of the transmissions), the signal strength at such point that resulted from the station’s operations immediately prior to the transition, provided that such operations complied with paragraph (a)(4)(i) of this section.

(b) Power flux density limit for stations operating in the 698–746 MHz bands. For base and fixed stations operating in the 698–746 MHz band in accordance with the provisions of §27.50(c)(6), the power flux density that would be produced by such stations through a combination of antenna height and vertical gain pattern must not exceed 3000 microwatts per square meter on the ground over the area extending to 1 km from the base of the antenna mounting structure.

(c) Power flux density limit for stations operating in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands. For base and fixed stations operating in the 746–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands in accordance with the provisions of §27.50(b)(6), the power flux density that would be produced by such stations through a combination of antenna height and vertical gain pattern must not exceed 3000 microwatts per square meter on the ground over the area extending to 1 km from the base of the antenna mounting structure.

§ 27.57 International coordination.

(a) WCS operations in the border areas shall be subject to coordination with those countries and provide protection to non-U.S. operations in the 2305–2320 and 2345–2360 MHz bands as appropriate. In addition, satellite DARS operations in WCS spectrum shall be subject to international satellite coordination procedures.

(b) Operation in the 698–763 MHz, 775–793 MHz, and 805–806 MHz bands is subject to international agreements between Mexico and Canada. Unless otherwise modified by international treaty, licenses must not cause interference to, and must accept harmful interference from, television broadcast operations in Mexico and Canada.

(c) Operation in the 1710–1755 MHz and 2110–2155 MHz bands is subject to
§ 27.58 Interference to BRS/EBS receivers.

(a) WCS licensees shall bear full financial obligation to remedy interference to BRS/EBS block downconverters if all of the following conditions are met:

1. The complaint is received by the WCS licensee prior to February 20, 2002;
2. The BRS/EBS downconverter was installed prior to August 20, 1998;
3. The WCS fixed or land station transmits at 50 or more watts peak EIRP;
4. The BRS/EBS downconverter is located within a WCS transmitter’s free space power flux density contour of $-34 \text{ dBW/m}^2$; and
5. The BRS/EBS customer or licensee has informed the WCS licensee of the interference within one year from the initial operation of the WCS transmitter or within one year from any subsequent power increases at the WCS station.

(b) Resolution of the complaint shall be at no cost to the complainant.

(c) Two or more WCS licensees collocating their antennas on the same tower shall assume shared responsibility for remedying interference complaints within the area determined by paragraph (a)(4) of this section unless an offending station can be readily determined and then that station shall assume full financial responsibility.

(d) If the WCS licensee cannot otherwise eliminate interference caused to BRS/EBS reception, then that licensee must cease operations from the offending WCS facility.

(e) At least 30 days prior to commencing operations from any new WCS transmission site or with increased power from any existing WCS transmission site, a WCS licensee shall notify all BRS/EBS licensees in or through whose licensed service areas they intend to operate of the technical parameters of the WCS transmission facility. WCS and BRS/EBS licensees are expected to coordinate voluntarily and in good faith to avoid interference problems and to allow the greatest operational flexibility in each other’s operations.

§ 27.59 [Reserved]

§ 27.60 TV/DTV interference protection criteria.

Base, fixed, control, and mobile transmitters in the 698–763 MHz, 775–793 MHz, and 805–806 MHz frequency bands must be operated only in accordance with the rules in this section to reduce the potential for interference to public reception of the signals of existing TV and DTV broadcast stations transmitting on TV Channels 51 through 68.

(a) D/U ratios. Licensees must choose site locations that are a sufficient distance from co-channel and adjacent channel TV and DTV stations, and/or must use reduced transmitting power or transmitting antenna height such that the following minimum desired signal-to-undesired signal ratios (D/U ratios) are met.

1. The minimum D/U ratio for co-channel stations is:
   (i) 40 dB at the hypothetical Grade B contour (64 $\text{dB}_\text{uV/m}$) (88.5 kilometers (55 miles)) of the TV station;
   (ii) For transmitters operating in the 698–746 MHz frequency band, 23 dB at the equivalent Grade B contour (41 $\text{dB}_\text{uV/m}$) (88.5 kilometers (55 miles)) of the DTV station; or
   (iii) For transmitters operating in the 746–763 MHz, 775–793 MHz, and 805–806 MHz frequency bands, 17 dB at the equivalent Grade B contour (41 $\text{dB}_\text{uV/m}$) (88.5 kilometers (55 miles)) of the DTV station.

(b) TV stations and calculation of contours. The methods used to calculate TV contours and antenna heights above average terrain are given in §§73.683 and 73.684 of this chapter. Tables to determine the necessary minimum distance from the 698–763 MHz, 775–793 MHz, and 805–806 MHz station to
§ 27.60

the TV/DTV station, assuming that the TV/DTV station has a hypothetical or equivalent Grade B contour of 88.5 kilometers (55 miles), are located in §90.309 of this chapter and labeled as Tables B, D, and E. Values between those given in the tables may be determined by linear interpolation. Distances for station parameters greater than those indicated in the tables should be calculated in accordance with the required D/U ratios, as provided in paragraph (a) of this section. The locations of existing and proposed TV/DTV stations during the period of transition from analog to digital TV service are given in part 73 of this chapter and in the final proceedings of MM Docket No. 87–268.

(1) Licensees of stations operating within the ERP and HAAT limits of §27.50 must select one of four methods to meet the TV/DTV protection requirements, subject to Commission approval:

(i) Utilize the geographic separation specified in Tables B, D, and E of §90.309 of this chapter, as appropriate;

(ii) When station parameters are greater than those indicated in the tables, calculate geographic separation in accordance with the required D/U ratios, as provided in paragraph (a) of this section;

(iii) Submit an engineering study justifying the proposed separations based on the parameters of the land mobile station and the parameters, including authorized and/or applied for facilities, of the TV/DTV station(s) it is trying to protect;

(iv) Obtain written concurrence from the applicable TV/DTV station(s). If this method is chosen, a copy of the agreement must be submitted with the application.

(2) The following is the method for geographic separations. (i) Base and fixed stations that operate in the 698–746 MHz band having an antenna height (HAAT) less than 152 m. (500 ft.) shall afford protection to adjacent channel DTV stations in accordance with the values specified in Table E in §90.309 of this chapter, shall afford protection to co-channel DTV stations by providing 23 dB protection to such stations’ equivalent Grade B contour (41 dBμV/m), and shall afford protection to co-channel and adjacent channel TV stations in accordance with the values specified in Table B (co-channel frequencies based on 40 dB protection) and Table E (adjacent channel frequencies based on 0 dB protection) in §90.309 of this chapter. For base and fixed stations having an antenna height (HAAT) between 152–914 meters (500–3,000 ft.) the effective radiated power must be reduced below 1 kilowatt in accordance with the values shown in the power reduction graph in Figure B in §90.309 of this chapter. For heights of more than 152 m. (500 ft.) above average terrain, the distance to the radio path horizon will be calculated assuming smooth earth. If the distance so determined equals or exceeds the distance to the hypothetical or equivalent Grade B contour of a co-channel TV/DTV station (i.e., it exceeds the distance from the appropriate Table in §90.309 of this chapter to the relevant TV/DTV station), an authorization will not be granted unless it can be shown in an engineering study (see paragraph (b)(1)(iii) of this section) that actual terrain considerations are such as to provide the desired protection at the actual Grade B contour (64 dBμV/m for TV and 41 dBμV/m for DTV stations) or unless the effective radiated power will be further reduced so that, assuming free space attenuation, the desired protection at the actual Grade B contour (64 dBμV/m for TV and 41 dBμV/m coverage contour for DTV stations) will be achieved. Directions for calculating powers, heights, and reduction curves are listed in §90.309 of this chapter for land mobile stations. Directions for calculating coverage contours are listed in §73.683 through 73.685 of this chapter for TV stations and in §73.625 of this chapter for DTV stations.

(ii) Control, fixed, and mobile stations (including portables) that operate in the 787–788 MHz and 805–806 MHz
bands and control and mobile stations (including portables) that operate in the 698–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands are limited in height and power and therefore shall afford protection to co-channel and adjacent channel TV/DTV stations in the following manner:

(A) For control, fixed, and mobile stations (including portables) that operate in the 787–788 MHz and 805–806 MHz bands and control and mobile stations (including portables) that operate in the 734–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands, co-channel protection shall be afforded in accordance with the values specified in Table D (co-channel frequencies based on 40 dB protection for TV stations and 17 dB for DTV stations) in §90.309 of this chapter.

(B) For control and mobile stations (including portables) that operate in the 698–746 MHz band, co-channel protection shall be afforded to TV stations in accordance with the values specified in Table D (co-channel frequencies based on 40 dB protection) and to DTV stations by providing 23 dB protection to such stations’ equivalent Grade B contour (41 dB $\mu$V/m).

(C) For control, fixed, and mobile stations (including portables) that operate in the 787–788 MHz and 805–806 MHz bands and control and mobile stations (including portables) that operate in the 698–757 MHz, 758–763 MHz, 776–787 MHz, and 788–793 MHz bands, adjacent channel protection shall be afforded by providing a minimum distance of 8 kilometers (5 miles) from all adjacent channel TV/DTV station hypothetical or equivalent Grade B contours (adjacent channel frequencies based on 0 dB protection for TV stations and ~23 dB for DTV stations).

(D) Since control, fixed, and mobile stations may affect different TV/DTV stations than the associated base or fixed station, particular care must be taken by applicants/licensees to ensure that all appropriate TV/DTV stations are considered (e.g., a base station may be operating within TV Channel 62 and the mobiles within TV Channel 67, in which case TV Channels 61, 62, 63, 66, 67 and 68 must be protected). Control, fixed, and mobile stations shall keep a minimum distance of 96.5 kilometers (60 miles) from all adjacent channel TV/DTV stations. Since mobiles and portables are able to move and communicate with each other, licensees must determine the areas where the mobiles can and cannot roam in order to protect the TV/DTV stations.

**Note to §27.60:** The 88.5 km (55 mi) Grade B service contour (64 dB $\mu$V/m) is based on a hypothetical TV station operating at an effective radiated power of one megawatt, a transmitting antenna height above average terrain of 610 meters (2000 feet) and the Commission’s R-6602 F(50,50) curves. See §73.699 of this chapter. Maximum facilities for TV stations operating in the UHF band are 5 megawatts effective radiated power at an antenna HAAT of 610 meters (2,000 feet). See §73.614 of this chapter. The equivalent contour for DTV stations is based on a 41 dB/m signal strength and the distance to the F(50,90) curve. See §73.625 of this chapter.

[72 FR 48852, Aug. 24, 2007]

**§§27.61–27.62 [Reserved]**

**§27.63 Disturbance of AM broadcast station antenna patterns.**

AWS and WCS licensees that construct or modify towers in the immediate vicinity of AM broadcast stations are responsible for measures necessary to correct disturbance of the AM station antenna pattern which causes operation outside of the radiation parameters specified by the FCC for the AM station, if the disturbance occurred as a result of such construction or modification.

(a) **Non-directional AM stations.** If tower construction or modification is planned within 1 kilometer (0.6 mile) of a non-directional AM broadcast station tower, the AWS or WCS licensee must notify the licensee of the AM broadcast station in advance of the planned construction or modification. The AWS or WCS licensee is responsible for the installation and continued maintenance of any detuning apparatus necessary to restore proper non-directional performance of the AM station tower.

(b) **Directional AM stations.** If tower construction or modification is planned within 3 kilometers (1.9 miles) of a directional AM broadcast station...
array, the AWS or WCS licensee must notify the licensee of the AM broadcast station in advance of the planned construction or modification. Measurements must be made to determine whether the construction or modification would affect the AM station antenna pattern. The AWS or WCS licensee is responsible for the installation and continued maintenance of any detuning apparatus necessary to restore proper performance of the AM station array.

[69 FR 5715, Feb. 6, 2004]

§ 27.64 Protection from interference.

Wireless Communications Service (WCS) stations operating in full accordance with applicable FCC rules and the terms and conditions of their authorizations are normally considered to be non-interfering. If the FCC determines, however, that interference which significantly interrupts or degrades a radio service is being caused, it may, after notice and an opportunity for a hearing, require modifications to any WCS station as necessary to eliminate such interference.

(a) Failure to operate as authorized. Any licensee causing interference to the service of other stations by failing to operate its station in full accordance with its authorization and applicable FCC rules shall discontinue all transmissions, except those necessary for the immediate safety of life or property, until it can bring its station into full compliance with the authorization and rules.

(b) Intermodulation interference. Licensees should attempt to resolve such interference by technical means.

(c) Situations in which no protection is afforded. Except as provided elsewhere in this part, no protection from interference is afforded in the following situations:

1. Interference to base receivers from base or fixed transmitters. Licensees should attempt to resolve such interference by technical means or operating arrangements.

2. Interference to mobile receivers from mobile transmitters. No protection is provided against mobile-to-mobile interference.

3. Interference to base receivers from mobile transmitters. No protection is provided against mobile-to-base interference.

4. Interference to fixed stations. Licensees should attempt to resolve such interference by technical means or operating arrangements.

5. Anomalous or infrequent propagation modes. No protection is provided against interference caused by tropospheric and ionospheric propagation of signals.

§ 27.66 Discontinuance, reduction, or impairment of service.

(a) Involuntary act. If the service provided by a fixed common carrier licensee, or a fixed common carrier operating on spectrum licensed to a Guard Band Manager, is involuntarily discontinued, reduced, or impaired for a period exceeding 48 hours, the licensee must promptly notify the Commission, in writing, as to the reasons for discontinuance, reduction, or impairment of service, including a statement when normal service is to be resumed. When normal service is resumed, the licensee must promptly notify the Commission.

(b) Voluntary act by common carrier. If a fixed common carrier licensee, or a fixed common carrier operating on spectrum licensed to a Guard Band Manager, voluntarily discontinues, reduces, or impairs service to a community or part of a community, it must obtain prior authorization as provided under §63.71 of this chapter. An application will be granted within 31 days after filing if no objections have been received.

(c) Voluntary act by non-common carrier. If a fixed non-common carrier licensee, or a fixed non-common carrier operating on spectrum licensed to a Guard Band Manager, voluntarily discontinues, reduces, or impairs service to a community or part of a community, it must give written notice to the Commission within seven days.

(d) Notifications and requests. Notifications and requests identified in paragraphs (a) through (c) of this section should be sent to: Federal Communications Commission, Common Carrier Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania, 17325.

[65 FR 57267, Sept. 21, 2000]
§ 27.70 Information exchange.

(a) Prior notification. Public safety licensees authorized to operate in the 763–775 MHz and 793–805 MHz bands may notify any licensee authorized to operate in the 746–757, 758–763, 776–787, or 788–793 MHz bands that they wish to receive prior notification of the activation or modification of the licensee’s base or fixed stations in their area. Thereafter, the 746–757, 758–763, 776–787, or 788–793 MHz band licensee must provide the following information to the public safety licensee at least 10 business days before a new base or fixed station is activated or an existing base or fixed station is modified:

1. Location;
2. Effective radiated power;
3. Antenna height; and
4. Channels available for use.

(b) Purpose of prior notification. The prior coordination of base or fixed stations is for informational purposes only. Public safety licensees are not afforded the right to accept or reject the activation of a proposed base or fixed station or to unilaterally require changes in its operating parameters. The principal purposes of notification are to:

1. Allow a public safety licensee to advise the 746–757, 758–763, 776–787, or 788–793 MHz band licensee whether it believes a proposed base or fixed station will generate unacceptable interference;
2. Permit 746–757, 758–763, 776–787, and 788–793 MHz band licensees to make voluntary changes in base or fixed station parameters when a public safety licensee alerts them to possible interference; and,
3. Rapidly identify the source if interference is encountered when the base or fixed station is activated.

than $15 million for the preceding three years.


Subpart E—Application, Licensing, and Processing Rules for WCS

§ 27.302 Eligibility.

(a) General. Authorizations will be granted upon proper application if:

(1) The applicant is qualified under the applicable laws and the regulations, policies and decisions issued under those laws, including §27.12;

(2) There are frequencies available to provide satisfactory service; and

(3) The public interest, convenience or necessity would be served by a grant.

(b) Alien Ownership. A WCS authorization may not be granted to or held by an entity not meeting the requirements of section 310 of the Communications Act of 1934, as amended, 47 U.S.C. section 310 insofar as applicable to the particular service in question.

§ 27.303 Upper 700 MHz commercial and public safety coordination zone.

(a) General. CMRS operators are required, prior to commencing operations on fixed or base station transmitters on the 776–787 MHz and 788–793 MHz bands that are located within 500 meters of existing or planned public safety base station receivers, to submit a description of their proposed facility to a Commission-approved public safety coordinator.

(1) The description must include, at a minimum:

(i) The frequency or frequencies on which the facility will operate;

(ii) Antenna location and height;

(iii) Type of emission;

(iv) Effective radiated power;

(v) A description of the area served and the operator’s name.

(2) It is the CMRS operator’s responsibility to determine whether referral is required for stations constructed in its area of license. Public safety base stations are considered “planned” when public safety operators have notified, or initiated coordination with, a Commission-approved public safety coordinator.

(b) CMRS operators must wait at least 10 business days after submission of the required description before commencing operations on the referenced facility, or implementing modifications to an existing facility.

(c) The potential for harmful interference between the CMRS and public safety facilities will be evaluated by the public safety coordinator.

(1) With regard to existing public safety facilities, the coordinator’s determination to disapprove a proposed CMRS facility (or modification) to be located within 500 meters of the public safety facilities will be presumed correct, but the CMRS operator may seek Commission review of such determinations. Pending Commission review, the CMRS operator will not activate the facility or implement proposed modifications.

(2) With regard to proposed public safety facilities, the coordinator’s determination to disapprove a proposed CMRS facility (or modification) to be located within 500 meters of the public safety facilities will be presumed correct, but the CMRS operator may seek Commission review and, pending completion of review, operate the facility during construction of the public safety facilities. If coordination or Commission review has not been completed when the public safety facilities are ready to operate, the CMRS operator must cease operations pending completion of coordination or Commission review. Such interim operation of the CMRS facility within the coordination zone (or implementation of modifications) will not be relied on by the Commission in its subsequent review and determination of measures necessary to control interference, including relocation or modification of the CMRS facility.

(d) If, in the event of harmful interference between facilities located within 500 meters proximity, the parties are unable, with the involvement of the coordinator, to resolve the problem by mutually satisfactory arrangements,
the Commission may impose restrictions on the operations of any of the parties involved.


§§ 27.304–27.307 [Reserved]

§ 27.308 Technical content of applications.

All applications required by this part shall contain all technical information required by the application forms or associated public notice(s). Applications other than initial applications for a WCS license must also comply with all technical requirements of the rules governing the applicable frequency band (see subparts C, D, F, and G of this part, as appropriate).

[65 FR 57268, Sept. 21, 2000]

§§ 27.310–27.320 [Reserved]

§ 27.321 Mutually exclusive applications.

(a) Two or more pending applications are mutually exclusive if the grant of one application would effectively preclude the grant of one or more of the others under the Commission’s rules governing the Wireless Communications Services involved. The Commission uses the general procedures in this section for processing mutually exclusive applications in the Wireless Communications Services.

(b) An application will be entitled to comparative consideration with one or more conflicting applications only if the Commission determines that such comparative consideration will serve the public interest.

§§ 27.322–27.325 [Reserved]

Subpart F—Competitive Bidding Procedures for the 698–806 MHz Band

SOURCE: 65 FR 3149, Jan. 20, 2000, unless otherwise noted.

§ 27.501 746–763 MHz, 775–793 MHz, and 805–806 MHz bands subject to competitive bidding.

Mutually exclusive initial applications for licenses in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands are subject to competitive bidding. The general competitive bidding procedures set forth in part 1, subpart Q of this chapter will apply unless otherwise provided in this subpart.

[72 FR 48852, Aug. 24, 2007]

§ 27.502 Designated entities.

Eligibility for small business provisions:

(a)(1) A small business is an entity that, together with its controlling interests and affiliates, has average gross revenues not exceeding $40 million for the preceding three years.

(2) A very small business is an entity that, together with its controlling interests and affiliates, has average gross revenues not exceeding $15 million for the preceding three years.

(b) Bidding credits. A winning bidder that qualifies as a small business or a consortium of small businesses as defined in this section may use the bidding credit specified in §1.2110(f)(2)(iii) of this chapter. A winning bidder that qualifies as a very small business or a consortium of very small businesses as defined in this section may use the bidding credit specified in §1.2110(f)(2)(ii) of this chapter.

[72 FR 63499, Nov. 9, 2007]

Subpart G—Guard Band A and B Blocks (757–758/787–788 MHz and 775–776/805–806 MHz Bands)

SOURCE: 65 FR 17605, Apr. 4, 2000, unless otherwise noted.

§ 27.601 Authority and coordination requirements.

(a) Subject to the provisions of §27.2(b), a Guard Band licensee may allow a spectrum lessee, pursuant to a spectrum lease arrangement under part 1, subpart X of this chapter, to construct and operate stations at any available site within the licensed area and on any channel for which the Guard Band licensee is licensed, provided such stations comply with Commission Rules and coordination requirements.

(b) Subject to the provisions of §27.2(b), a Guard Band licensee may allow a spectrum lessee, pursuant to a
spectrum lease arrangement under part 1, subpart X of this chapter, to delete, move or change the operating parameters of any of the user’s stations that are covered under the Guard Band licensee’s authorization without prior Commission approval, provided such stations comply with Commission Rules and coordination requirements.

(c) Frequency coordination.

(1) A Guard Band licensee, or a spectrum lessee operating at 775–776 MHz and 805–806 MHz pursuant to a spectrum lease arrangement under §§1.9030 and 1.9035 of this chapter, must notify Commission-recognized public safety frequency coordinators for the 700 MHz Public Safety band and adjacent-area Guard Band licensees within one business day after the licensee or the spectrum lessee has:

(i) Coordinated a new station or modification of an existing station; or

(ii) Filed an application for an individual station license with the Commission.

(2) The notification required in paragraph (c)(1) of this section must include, at a minimum—

(i) The frequency or frequencies coordinated;

(ii) Antenna location and height;

(iii) Type of emission;

(iv) Effective radiated power;

(v) A description of the service area, date of coordination, and user name or, in the alternative, a description of the type of operation.

(3) In the event a licensee partitions its service area or disaggregates its spectrum, it is required to submit the notification required in paragraph (c)(1) of this section to other Guard Band licensees in the same geographic area.

(4) Entities coordinated by a Guard Band licensee, or a spectrum lessee operating pursuant to a spectrum lease arrangement under §§1.9030 and 1.9035 of this chapter, must wait at least 10 business days after the notification required in paragraph (c)(1) of this section before operating under the license.

(5) Entities coordinated by a Guard Band licensee, or a spectrum lessee operating pursuant to a spectrum lease arrangement under §§1.9030 and 1.9035 of this chapter, must wait at least 10 business days after the notification required in paragraph (c)(1) of this section before operating under the license.

(6) Where a deletion, move or change authorized under paragraph (b) of this section constitutes a discontinuance, reduction, or impairment of service under §27.66 or where discontinuance, reduction or impairment of service results from an involuntary act subject to §27.66(a), the licensee must comply with the notification and authorization requirements set forth in that section.


§ 27.602 Lease agreements.

Guard Band licensees may enter into spectrum leasing arrangements under part 1, subpart X of this chapter regarding the use of their licensed spectrum by spectrum lessees, subject to the following conditions:

(a) The spectrum lease agreement between the licensee and the spectrum lessee must specify in detail the operating parameters of the spectrum lessee’s system, including power, maximum antenna heights, frequencies of operation, base station location(s), area(s) of operation, and other parameters specified in Commission rules for the use of spectrum identified in §27.5(b)(1) and (b)(2).

(b) The spectrum lease agreement must require the spectrum lessee to use Commission-approved equipment where appropriate and to complete post-construction proofs of system performance prior to system activation.

(72 FR 27713, May 16, 2007)

§ 27.604 Limitation on licenses won at auction.

(a) For the first auction of licenses in Blocks A and B, as defined in §27.5, no applicant may be deemed the winning bidder of both a Block A and a Block B license in a single geographic service area.

(b) For purposes of paragraph (a) of this section, licenses will be deemed to be won by the same bidder if an entity that wins one license at the auction is an affiliate of any other entity that wins a license at the auction.

(72 FR 27713, May 16, 2007)

§ 27.607 Performance requirements and annual reporting requirement.

(a) Guard Band licensees are subject to the performance requirements specified in §27.14(a).

(b) Guard Band licensees are required to file an annual report providing the Commission with information about the manner in which their spectrum is being utilized. Such reports shall be
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filed with the Commission on a calendar year basis, no later than the March 1 following the close of each calendar year, unless another filing date is specified by Public Notice.
(c) Guard Band licensees must, at a minimum, include the following information in their annual reports:
(1) The total number of spectrum lessees;
(2) The amount of the licensee’s spectrum being used pursuant to spectrum lease agreements;
(3) The nature of the spectrum use of the licensee’s customers; and,
(4) The length of term of each spectrum lease agreement, and whether the agreement is a spectrum manager lease agreement, or a de facto transfer lease agreement.
(d) The specific information that licensees will provide and the procedures that they will follow in submitting their annual reports will be announced in a Public Notice issued by the Wireless Telecommunications Bureau.
[72 FR 27713, May 16, 2007]

Subpart H—Competitive Bidding
Procedures for the 698–746 MHz Band

Source: 67 FR 5512, Feb. 6, 2002, unless otherwise noted.

§ 27.701 698–746 MHz bands subject to competitive bidding.
Mutually exclusive initial applications for licenses in the 698–746 MHz band are subject to competitive bidding. The general competitive bidding procedures set forth in part 1, subpart Q of this chapter will apply unless otherwise provided in this subpart.
[67 FR 45374, July 9, 2002]

§ 27.702 Designated entities.
(a) Eligibility for small business provisions. (1) An entrepreneur is an entity that, together with its controlling interests and affiliates, has average gross revenues not exceeding $3 million for the preceding three years.
(2) A very small business is an entity that, together with its controlling interests and affiliates, has average gross revenues not exceeding $15 million for the preceding three years.
(3) A small business is an entity that, together with its controlling interests and affiliates, has average gross revenues not exceeding $40 million for the preceding three years.
(b) Bidding credits. A winning bidder that qualifies as an entrepreneur, as defined in this section, or a consortium of entrepreneurs may use the bidding credit specified in § 1.2110(f)(2)(i) of this chapter. A winning bidder that qualifies as a very small business, as defined in this section, or a consortium of very small businesses may use the bidding credit specified in § 1.2110(f)(2)(ii) of this chapter. A winning bidder that qualifies as a small business, as defined in this section, or a consortium of small businesses may use the bidding credit specified in § 1.2110(f)(2)(iii) of this chapter.

Subpart I—1.4 GHz Band

Source: 67 FR 41855, June 20, 2002, unless otherwise noted.

§ 27.801 Scope.
This subpart sets out the regulations governing service in the paired 1392–1395 MHz and 1432–1435 MHz bands as well as the unpaired 1390–1392 MHz band (1.4 GHz band).

§ 27.802 Permissible communications.
Licensees in the paired 1392–1395 MHz and 1432–1435 MHz bands and unpaired 1390–1392 MHz band are authorized to provide fixed or mobile service, except aeronautical mobile service, subject to the technical requirements of this subpart.

§ 27.803 Coordination requirements.
(a) Licensees in the 1.4 GHz band will be issued geographic area licenses in accordance with the service areas listed in § 27.6(d) and (e).
(b) Licensees in the 1.4 GHz Service must file a separate station application with the Commission and obtain an individual station license, prior to construction or operation, of any station:
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(1) That requires submission of an Environmental Assessment under part 1, §1.1307 of this chapter;

(2) That requires international coordination;

(3) That operates in areas listed in part 1, §1.924 of this chapter; or

(4) That requires approval of the Frequency Advisory Subcommittee (FAS) of the Interdepartment Radio Advisory Committee (IRAC). Stations that require FAS approval are as follows:

(i) Licensees in the 1390–1392 MHz and 1392–1395 MHz band must receive FAS approval prior to operation of fixed sites or mobile units within the NTIA recommended protection radii of the Government sites listed in footnote US351 of §2.106 of this chapter.

(ii) Licensees in the 1432–1435 MHz band must receive FAS approval, prior to operation of fixed sites or mobile units within the NTIA recommended protection radii of the Government sites listed in footnote US361 of §2.106 of this chapter.

(c) Prior to construction of a station, a licensee in the 1.4 GHz Band must register with the Commission any station antenna structure for which notification to the Federal Aviation Administration is required by part 17 of this chapter.

(d) It is the licensee’s responsibility to determine whether an individual station needs referral to the Commission.

(e) The application required in paragraph (b) of this chapter must be filed on the Universal Licensing System.

§27.805 Geographic partitioning and spectrum disaggregation.

An entity that acquires a portion of a 1.4 GHz band licensee’s geographic area or spectrum subject to a geographic partitioning or spectrum disaggregation agreement under §27.15 must function as a 1.4 GHz band licensee and is subject to the obligations and restrictions on the 1.4 GHz band licensee as set forth in this subpart.

§27.806 1.4 GHz service licenses subject to competitive bidding.

Mutually exclusive initial applications for 1.4 GHz Band licenses in the paired 1392–1395 MHz and 1432–1435 MHz bands as well as the unpaired 1390–1392 MHz band are subject to competitive bidding. The general competitive bidding procedures set forth in part 1, subpart Q of this chapter will apply unless otherwise provided in this subpart.

§27.807 Designated entities.

(a) Eligibility for small business provisions for 1.4 GHz band licenses in the paired 1392–1395 MHz and 1432–1435 MHz bands and the unpaired 1390–1392 MHz band.

(1) A very small business is an entity that, together with its controlling interests and affiliates, has average annual gross revenues not exceeding $15 million for the preceding three years.

(2) A small business is an entity that, together with its controlling interests and affiliates, has average annual gross revenues not exceeding $40 million for the preceding three years.

(b) Bidding credits. A winning bidder that qualifies as a very small business, as defined in this section, or a consortium of very small businesses may use the bidding credit specified in §1.2110(f)(2)(i) of this chapter. A winning bidder that qualifies as a small business, as defined in this section, or a consortium of small businesses may use the bidding credit specified in §1.2110(f)(2)(ii) of this chapter.


Subpart J—1670–1675 MHz Band

SOURCE: 67 FR 41856, June 20, 2002, unless otherwise noted.
§ 27.901 Scope.

This subpart sets out the regulations governing service in the 1670–1675 MHz band (1670–1675 MHz band).

§ 27.902 Permissible communications.

Licensees in the 1670–1675 MHz band are authorized to provide fixed or mobile service, except aeronautical mobile service, subject to the technical requirements of this subpart.

§ 27.903 Coordination requirements.

(a) The licensee in the 1670–1675 MHz band will be issued a geographic area license on a nationwide basis in accordance with §27.6(f).

(b) Licensees in the 1670–1675 MHz band must file a separate station application with the Commission and obtain an individual station license, prior to construction or operation, of any station:

(1) That requires submission of an Environmental Assessment under part 1, §1.1307 of this chapter;

(2) That requires international coordination;

(3) That operates in areas listed under part 1, §1.924 of this chapter.

(c) The application required in paragraph (b) of this section must be filed on the Universal Licensing System.

(d) Prior to construction of a station, a licensee must register with the Commission any station antenna structure for which notification to the Federal Aviation Administration is required by part 17 of this chapter.

(e) It is the licensee’s responsibility to determine whether an individual station requires referral to the Commission.

[67 FR 41856, June 20, 2002, as amended at 68 FR 43000, July 21, 2003]

§ 27.904 Geographic partitioning and spectrum disaggregation.

An entity that acquires a portion of a 1670–1675 MHz band licensee’s geographic area or spectrum subject to a geographic partitioning or spectrum disaggregation agreement under §27.15 must function as a 1670–1675 MHz licensee and is subject to the obligations and restrictions on the 1670–1675 MHz license as set forth in this subpart.

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§ 27.905 1670–1675 MHz service licenses subject to competitive bidding.

Mutually exclusive initial applications for the 1670–1675 MHz Band license are subject to competitive bidding. The general competitive bidding procedures set forth in part 1, subpart Q of this chapter will apply unless otherwise provided in this subpart.

§ 27.906 Designated entities.

(a) Eligibility for small business provisions. (1) A very small business is an entity that, together with its controlling interests and affiliates, has average annual gross revenues not exceeding $15 million for the preceding three years.

(2) A small business is an entity that, together with its controlling interests and affiliates, has average annual gross revenues not exceeding $40 million for the preceding three years.

(b) Bidding credits. A winning bidder that qualifies as a very small business, as defined in this section, or a consortium of very small businesses may use the bidding credit specified in §1.2110(f)(2)(ii) of this chapter. A winning bidder that qualifies as a small business, as defined in this section, or a consortium of small businesses may use the bidding credit specified in §1.2110(f)(2)(iii) of this chapter.

[67 FR 41856, June 20, 2002, as amended at 68 FR 43000, July 21, 2003]

Subpart K [Reserved]

Subpart L—1710–1755 MHz, 2110–2155 MHz, 2160–2180 MHz Bands

SOURCE: 69 FR 5716, Feb. 6, 2004, unless otherwise noted.

LICENSING AND COMPETITIVE BIDDING PROVISIONS

§ 27.1101 1710–1755 MHz and 2110–2155 MHz bands subject to competitive bidding.

Mutually exclusive initial applications for 1710–1755 MHz and 2110–2155 MHz band licenses are subject to competitive bidding. The general competitive bidding procedures set forth in 47
§ 27.1102 Designated Entities in the 1710–1755 MHz and 2110–2155 MHz bands.

(a) Eligibility for small business provisions. (1) A small business is an entity that, together with its affiliates, its controlling interests and the affiliates of its controlling interests, has average gross revenues that are not more than $40 million for the preceding three years.

(2) A very small business is an entity that, together with its affiliates, its controlling interests and the affiliates of its controlling interests, has average gross revenues that are not more than $15 million for the preceding three years.

(b) Bidding credits. (1) A winning bidder that qualifies as a small business, as defined in this section, or a consortium of small businesses may use a bidding credit of 15 percent, as specified in § 1.2110(f)(2)(iii) of this chapter, to lower the cost of its winning bid on any of the licenses in this part.

(2) A winning bidder that qualifies as a very small business, as defined in this section, or a consortium of very small businesses may use a bidding credit of 25 percent, as specified in § 1.2110(f)(2)(ii) of this chapter, to lower the cost of its winning bid on any of the licenses in this part.

§ 27.1111 Relocation of fixed microwave service licensees in the 2110–2150 MHz band.

Part 22, subpart E and part 101, subpart B of this chapter contain provisions governing the relocation of incumbent fixed microwave service licensees in the 2110–2150 MHz band.

[71 FR 29835, May 24, 2006]

§ 27.1131 Protection of Part 101 operations.

All AWS licensees, prior to initiating operations from any base or fixed station, must coordinate their frequency usage with co-channel and adjacent channel incumbent. Part 101 fixed-point-to-point microwave licensees operating in the 2110–2155 MHz band. Coordination shall be conducted in accordance with the provisions of §24.237 of this chapter.

§ 27.1132 Protection of incumbent operations in the 2150–2160/62 MHz band.

All AWS licensees, prior to initiating operations from any base or fixed station, shall follow the provisions of §27.1255 of this part.

[71 FR 29835, May 24, 2006]

§ 27.1133 Protection of Part 74 and Part 78 operations.

AWS operators must protect previously licensed Broadcast Auxiliary Service (BAS) or Cable Television Radio Service (CARS) operations in the adjacent 2025–2110 MHz band. In satisfying this requirement AWS licensees must, before constructing and operating any base or fixed station, determine the location and licensee of all BAS or CARS stations authorized in their area of operation, and coordinate their planned stations with those licensees. In the event that mutually satisfactory coordination agreements cannot be reached, licensees may seek the assistance of the Commission, and the Commission may, at its discretion, impose requirements on one or both parties.

§ 27.1134 Protection of Federal Government operations.

(a) Protection of Department of Defense operations in the 1710–1755 MHz band. The Department of Defense (DoD) operates communications systems in the 1710–1755 MHz band at 16 protected facilities, nationwide. AWS licensees must accept any interference received from these facilities and must protect the facilities from interference. AWS licensees shall protect the facilities from interference by restricting the operation of their base and fixed stations from any locations that could potentially permit AWS mobile, fixed, and portable stations transmitting in the 1710–1755 MHz band to cause interference to government operations within the radii of operation of the 16 facilities (the radii of operation of each facility is indicated in the third column
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of Table 1 immediately following paragraph (a)(3) of this section). In addition, AWS licensees shall be required to coordinate any operations that could permit mobile, fixed, and portable stations to operate in the specified areas of the 16 facilities, as defined in paragraph (a)(3) of this section. Protection of these facilities in this manner shall take place under the following conditions:

(1) At the Yuma, Arizona and Cherry Point, North Carolina facilities, all operations shall be protected indefinitely.

(2) At the remaining 14 facilities, airborne and military test range operations shall be protected until such time as these systems are relocated to other spectrum, and precision guided munitions (PGM) operations shall be protected until such time as these systems are relocated to other spectrum or until PGM inventory at each facility is exhausted, whichever occurs first.

(3) AWS licensees whose transmit operations in the 1710–1755 MHz band consist of fixed or mobile operations with nominal transmit EIRP values of 100 mW or less and antenna heights of 1.6 meters above ground or less shall coordinate their services around the 16 sites at the distance specified in row a. of Table 2. AWS licensees whose transmit operations in the 1710–1755 MHz band consist of fixed or mobile operations with nominal transmit EIRP values of 1 W or less and antenna heights of 10 meters above ground or less shall coordinate their services around the 16 sites at the distance specified in row b. of Table 2. These coordination distances shall be measured from the edge of the operational distances indicated in the third column of Table 1, and coordination with each affected DoD facility shall be accomplished through the Commander of the facility.

### Table 1—Protected Department of Defense Facilities

<table>
<thead>
<tr>
<th>Location</th>
<th>Radius of operation (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cherry Point, NC</td>
<td>34°07' N, 119°30' W</td>
</tr>
<tr>
<td>Yuma, AZ</td>
<td>32°58' N, 113°58' W</td>
</tr>
<tr>
<td>China Lake, CA</td>
<td>34°41' N, 117°41' W</td>
</tr>
<tr>
<td>Eglin AFB, FL</td>
<td>30°29' N, 88°31' W</td>
</tr>
<tr>
<td>Pacific Missile Test Range/Point Mugu, CA</td>
<td>34°07' N, 119°30' W</td>
</tr>
<tr>
<td>Nellis AFB, NV</td>
<td>36°02' N, 115°02' W</td>
</tr>
<tr>
<td>Hill AFB, UT</td>
<td>41°07' N, 111°58' W</td>
</tr>
<tr>
<td>Patuxent River, MD</td>
<td>38°00' N, 76°25' W</td>
</tr>
<tr>
<td>White Sands Missile Range, NM</td>
<td>33°00' N, 106°30' W</td>
</tr>
<tr>
<td>Fort Irwin, CA</td>
<td>36°41' N, 116°41' W</td>
</tr>
<tr>
<td>Fort Rucker, AL</td>
<td>31°13' N, 80°45' W</td>
</tr>
<tr>
<td>Fort Bragg, NC</td>
<td>35°09' N, 79°01' W</td>
</tr>
<tr>
<td>Fort Campbell, KY</td>
<td>36°41' N, 87°28' W</td>
</tr>
<tr>
<td>Fort Lewis, WA</td>
<td>47°05' N, 122°36' W</td>
</tr>
<tr>
<td>Fort Benning, GA</td>
<td>32°22' N, 84°56' W</td>
</tr>
<tr>
<td>Fort Stewart, GA</td>
<td>31°52' N, 081°37' W</td>
</tr>
</tbody>
</table>

### Table 2—Coordination Distances for the Protected Department of Defense Facilities

<table>
<thead>
<tr>
<th>1710–1755 MHz transmit operations</th>
<th>Coordination distance (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. EIRP &lt;=100 mW, antenna height &lt;=1.6 m AG</td>
<td>35</td>
</tr>
<tr>
<td>b. EIRP &lt;=1 W, antenna height &lt;=10 m AG</td>
<td>55</td>
</tr>
</tbody>
</table>

(b) Protection of non-DoD operations in the 1710–1755 MHz and 1755–1761 MHz bands. Until such time as non-DoD systems operating in the 1710–1755 MHz and 1755–1761 MHz bands are relocated to other spectrum, AWS licensees shall protect such systems by satisfying the appropriate provisions of TIA Telecommunications Systems Bulletin 10–F, “Interference Criteria for Microwave Systems,” May, 1994 (TSB 10–F).
§ 27.1160

(c) Protection of Federal Government operations below 1710 MHz. AWS licensees operating fixed stations in the 1710–1755 MHz band, if notified that such stations are causing interference to radiosonde receivers operating in the Meteorological Aids Service in the 1675–1700 MHz band or a meteorological-satellite earth receiver operating in the Meteorological-Satellite Service in the 1675–1710 MHz band, shall be required to modify the stations’ location and/or technical parameters as necessary to eliminate the interference.

(d) Recognition of NASA Goldstone facility operations in the 2110–2120 MHz band. The National Aeronautics and Space Administration (NASA) operates the Deep Space Network (DSN) in the 2110–2120 MHz band at Goldstone, California (see Table 3). NASA will continue its operations of high power transmitters (nominal EIRP of 105.5 dBW with EIRP up to 119.5 dBW used under emergency conditions) in this band at this location. AWS licensees must accept any interference received from the Goldstone DSN facility in this band.

<table>
<thead>
<tr>
<th>Location</th>
<th>Coordinates</th>
<th>Maximum transmitter output power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goldstone, California</td>
<td>35°18’N 116°54’W</td>
<td>500 kW</td>
</tr>
</tbody>
</table>


AWS licensees operating fixed stations in the 1710–1755 MHz band, if notified that such stations are causing interference to meteorological-satellite earth receivers operating in the Meteorological-Satellite Service in the 1675–1710 MHz band, shall be required to modify the stations’ location and/or technical parameters as necessary to eliminate the interference.

Cost-sharing policies governing microwave relocation from the 2110–2150 MHz and 2160–2200 MHz bands

Source: Sections 27.1160 through 27.1174 appear at 71 FR 29835, May 24, 2006, unless otherwise noted.

§ 27.1160 Cost-sharing requirements for AWS.

Frequencies in the 2110–2150 MHz and 2160–2180 MHz bands listed in § 101.147 of this chapter have been reallocated from Fixed Microwave Services (FMS) to use by AWS (as reflected in § 2.106) of this chapter. In accordance with procedures specified in § 22.602 and §§ 101.69 through 101.82 of this chapter, AWS entities are required to relocate the existing microwave licensees in these bands if interference to the existing microwave licensee would occur. All AWS entities that benefit from the clearance of this spectrum by other AWS entities or by a voluntarily relocating microwave incumbent must contribute to such relocation costs. AWS entities may satisfy their reimbursement requirement by entering into private cost-sharing agreements or agreeing to terms other than those specified in § 27.1164. However, AWS entities are required to reimburse other AWS entities or voluntarily relocating microwave incumbents that incur relocation costs and are not parties to the alternative agreement. In addition, parties to a private cost-sharing agreement may seek reimbursement through the clearinghouse (as discussed in § 27.1162) from AWS entities or other Emerging Technologies (ET) entities, including Mobile Satellite Service (MSS) operators (for Ancillary Terrestrial Component (ATC) base stations), that are not parties to the agreement. The cost-sharing plan is in effect during all phases of microwave relocation specified in § 22.602 and 101.69 of this chapter. If an AWS licensee enters into a spectrum leasing arrangement (as set forth in part 1, subpart X of this chapter) and the spectrum lessee triggers a cost-sharing obligation, the licensee is the
AWS entity responsible for satisfying the cost-sharing obligations under §§27.1160–27.1174.

§ 27.1162 Administration of the Cost-Sharing Plan.

The Wireless Telecommunications Bureau, under delegated authority, will select one or more entities to operate as a neutral, not-for-profit clearinghouse(s). This clearinghouse(s) will administer the cost-sharing plan by, inter alia, determining the cost-sharing obligation of AWS and other ET entities for the relocation of FMS incumbents from the 2110–2150 MHz and 2160–2200 MHz bands. The clearinghouse filing requirements (see §§27.1166(a), 27.1170) will not take effect until an administrator is selected.

§ 27.1164 The cost-sharing formula.

An AWS relocator who relocates an interfering microwave link, i.e., one that is in all or part of its market area and in all or part of its frequency band or a voluntarily relocating microwave incumbent, is entitled to pro rata reimbursement based on the following formula:

\[
R_N = \frac{C}{N} \times \left[ 120 - \left( \frac{T_m}{120} \right) \right]
\]

(a) \( R_N \) equals the amount of reimbursement.

(b) \( C \) equals the actual cost of relocating the link(s). Actual relocation costs include, but are not limited to, such items as: Radio terminal equipment (TX and/or RX—antenna, necessary feed lines, MUX/Modems); towers and/or modifications; back-up power equipment; monitoring or control equipment; engineering costs (design/path survey); installation; systems testing; FCC filing costs; site acquisition and civil works; zoning costs; training; disposal of old equipment; test equipment (vendor required); spare equipment; project management; prior coordination notification under §101.103(d) of this chapter; site lease renegotiation; required antenna upgrades for interference control; power plant upgrade (if required); electrical grounding systems; Heating Ventilation and Air Conditioning (HVAC) (if required); alternate transport equipment; and leased facilities. Increased recurring costs represent part of the actual cost of relocation and, even if the compensation to the incumbent is in the form of a commitment to pay five years of charges, the AWS or MSS/ATC relocator is entitled to seek immediate reimbursement of the lump sum amount based on present value using current interest rates, provided it has entered into a legally binding agreement to pay the charges. \( C \) also includes voluntarily relocating microwave incumbent’s independent third party appraisal of its compensable relocation costs and incumbent transaction expenses that are directly attributable to the relocation, subject to a cap of two percent of the “hard” costs involved. Hard costs are defined as the actual costs associated with providing a replacement system, such as equipment and engineering expenses. \( C \) may not exceed $250,000 per paired link, with an additional $150,000 permitted if a new or modified tower is required.

(c) \( N \) equals the number of AWS and MSS/ATC entities that have triggered a cost-sharing obligation. For the AWS relocator, \( N=1 \). For the next AWS entity triggering a cost-sharing obligation,
$N=2$, and so on. In the case of a voluntarily relocating microwave incumbent, $N=1$ for the first AWS entity triggering a cost-sharing obligation. For the next AWS or MSS/ATC entity triggering a cost-sharing obligation, $N=2$, and so on.

(d) $T_m$ equals the number of months that have elapsed between the month the AWS or MSS/ATC relocator or voluntarily relocating microwave incumbent obtains reimbursement rights for the link and the month in which an AWS entity triggers a cost-sharing obligation. An AWS or MSS/ATC relocator obtains reimbursement rights for the link on the date that it signs a relocation agreement with a microwave incumbent. A voluntarily relocating microwave incumbent obtains reimbursement rights for the link on the date that the incumbent notifies the Commission that it intends to discontinue, or has discontinued, the use of the link, pursuant to §101.305 of the Commission’s rules.

(b) Documentation of expenses. Once relocation occurs, the AWS relocator, MSS/ATC relocator, or the voluntarily relocating microwave incumbent, must submit documentation itemizing the amount spent for items specifically listed in §27.1164(b), as well as any reimbursable items not specifically listed in §27.1164(b) that are directly attributable to actual relocation costs. Specifically, the AWS relocator, MSS/ATC relocator, or the voluntarily relocating microwave incumbent must submit, in the first instance, only the uniform cost data requested by the clearinghouse along with a copy, without redaction, of either the relocation agreement, if any, or the third party appraisal described in (b)(1), if relocation was undertaken by the microwave incumbent. AWS relocators, MSS/ATC relocators and voluntarily relocating microwave incumbents must maintain documentation of cost-related issues until the applicable sunset date and provide such documentation upon request, to the clearinghouse, the Commission, or entrants that trigger a cost-sharing obligation. If an AWS relocator pays a microwave incumbent a monetary sum to relocate its own facilities, the AWS relocator must estimate the costs associated with relocating the incumbent by itemizing the anticipated cost for items listed in §27.1164(b). If the sum paid to the incumbent cannot be accounted for, the remaining amount is not eligible for reimbursement.

(1) Third party appraisal. The voluntarily relocating microwave incumbent, must also submit an independent third party appraisal of its compensable relocation costs. The appraisal should be based on the actual cost of replacing the incumbent’s system with comparable facilities and should exclude the cost of any equipment upgrades or items outside the scope of §27.1164(b).
(2) Identification of links. The AWS relocator, MSS/ATC relocator, or the voluntarily relocating microwave incumbent, must identify the particular link associated with appropriate expenses (i.e., costs may not be averaged over numerous links). Where the AWS relocator, MSS/ATC relocator, or voluntarily relocating microwave incumbent relocates both paths of a paired channel microwave link (e.g., 2110–2130 MHz with 2160–2180 MHz and 2130–2150 MHz with 2180–2200 MHz), the AWS relocator, MSS/ATC relocator, or voluntarily relocating microwave incumbent must identify the expenses associated with each paired microwave link.

(c) Full Reimbursement. An AWS relocator who relocates a microwave link that is either fully outside its market area or its licensed frequency band may seek full reimbursement through the clearinghouse of compensable costs, up to the reimbursement cap as defined in §27.1164(b). Such reimbursement will not be subject to depreciation under the cost-sharing formula.

(d) Good Faith Requirement. New entrants and incumbent licensees are expected to act in good faith in satisfying the cost-sharing obligations under §§27.1160 through 27.1174. The requirement to act in good faith extends to, but is not limited to, the preparation and submission of the documentation required in paragraph (b) of this section.

(e) MSS Participation in the Clearinghouse. MSS operators are not required to submit reimbursements to the clearinghouse for links relocated due to interference from MSS space-to-Earth downlink operations, but may elect to do so, in which case the MSS operator must identify the reimbursement claim as such and follow the applicable procedures governing reimbursement in part 27. MSS reimbursement rights and cost-sharing obligations for space-to-Earth downlink operations are governed by §101.82 of this chapter.

§27.1168 Triggering a Reimbursement Obligation.

(a) The clearinghouse will apply the following test to determine when an AWS entity or MSS/ATC entity has triggered a cost-sharing obligation and therefore must pay an AWS relocator, MSS relocator (including MSS/ATC), or a voluntarily relocating microwave incumbent in accordance with the formula detailed in §27.1164:

(1) All or part of the relocated microwave link was initially co-channel with the licensed AWS band(s) of the AWS entity or the selected assignment of the MSS operator that seeks and obtains ATC authority (see §25.149(a)(2)(i) of this chapter);

(2) An AWS relocator, MSS relocator (including MSS/ATC) or a voluntarily relocating microwave incumbent has paid the relocation costs of the microwave incumbent; and

(3) The AWS or MSS entity is operating or preparing to turn on a fixed base station (including MSS/ATC) at commercial power and the fixed base station is located within a rectangle (Proximity Threshold) described as follows:
(i) The length of the rectangle shall be $x$ where $x$ is a line extending through both nodes of the microwave link to a distance of 48 kilometers (30 miles) beyond each node. The width of the rectangle shall be $y$ where $y$ is a line perpendicular to $x$ and extending for a distance of 24 kilometers (15 miles) on both sides of $x$. Thus, the rectangle is represented as follows:

(ii) If the application of the Proximity Threshold Test indicates that a reimbursement obligation exists, the clearinghouse will calculate the reimbursement amount in accordance with the cost-sharing formula and notify the AWS or MSS/ATC entity of the total amount of its reimbursement obligation.

(b) Once a reimbursement obligation is triggered, the AWS or MSS/ATC entity may not avoid paying its cost-sharing obligation by deconstructing or modifying its facilities.

§ 27.1170 Payment Issues.

Prior to initiating operations for a newly constructed site or modified existing site, an AWS entity or MSS/ATC entity is required to file a notice containing site-specific data with the clearinghouse. The notice regarding the new or modified site must provide a detailed description of the proposed site's spectral frequency use and geographic location, including but not limited to the applicant’s name and address, the name of the transmitting base station, the geographic coordinates corresponding to that base station, the frequencies and polarizations to be added, changed or deleted, and the emission designator. If a prior coordination notice (PCN) under §101.103(d) of this chapter is prepared, AWS entities can satisfy the site-data filing requirement by submitting a copy of their PCN to the clearinghouse. AWS entities or MSS/ATC entities that file either a notice or a PCN have a continuing duty to maintain the accuracy of the site-specific data on file with the clearinghouse. Utilizing the site-specific data, the clearinghouse will determine if any reimbursement obligation exists and notify the AWS entity or MSS/ATC entity in writing of its repayment obligation, if any. When the AWS entity or MSS/ATC entity receives a written copy of such obligation, it must pay directly to the relocator the amount owed within 30 calendar days.
§ 27.1172 Dispute Resolution Under the Cost-Sharing Plan.

(a) Disputes arising out of the cost-sharing plan, such as disputes over the amount of reimbursement required, must be brought, in the first instance, to the clearinghouse for resolution. To the extent that disputes cannot be resolved by the clearinghouse, parties are encouraged to use expedited Alternative Dispute Resolution (ADR) procedures, such as binding arbitration, mediation, or other ADR techniques.

(b) Evidentiary requirement. Parties of interest contesting the clearinghouse’s determination of specific cost-sharing obligations must provide evidentiary support to demonstrate that their calculation is reasonable and made in good faith. Specifically, these parties are expected to exercise due diligence to obtain the information necessary to prepare an independent estimate of the relocation costs in question and to file the independent estimate and supporting documentation with the clearinghouse.

§ 27.1174 Termination of Cost-Sharing Obligations.

The cost-sharing plan will sunset for all AWS and MSS (including MSS/ATC) entities on the same date on which the relocation obligation for the subject AWS band (i.e., 2110–2150 MHz, 2160–2175 MHz, or 2175–2180 MHz) in which the relocated FMS link was located terminates. AWS or MSS (including MSS/ATC) entrants that trigger a cost-sharing obligation prior to the sunset date must satisfy their payment obligation in full.

Cost-Sharing Policies Governing Broadband Radio Service Relocation from the 2150–2160/62 MHz Band

Source: Sections 27.1176 through 27.1190 appear at 71 FR 29835, May 24, 2006, unless otherwise noted.

§ 27.1176 Cost-sharing requirements for AWS in the 2150–2160/62 MHz band.

(a) Frequencies in the 2150–2160/62 MHz band have been reallocated from the Broadband Radio Service (BRS) to AWS. All AWS entities who benefit from another AWS entity’s clearance of BRS incumbents from this spectrum, including BRS incumbents occupying the 2150–2162 MHz band on a primary basis, must contribute to such relocation costs. Only AWS entrants that relocate BRS incumbents are entitled to such reimbursement.

(b) AWS entities may satisfy their reimbursement requirement by entering into private cost-sharing agreements or agreeing to terms other than those specified in §27.1180. However, AWS entities are required to reimburse other AWS entities that incur relocation costs and are not parties to the alternative agreement. In addition, parties to a private cost-sharing agreement may seek reimbursement through the clearinghouse (as discussed in §27.1178) from AWS entities that are not parties to the agreement. The cost-sharing plan is in effect during all phases of BRS relocation until the end of the period specified in §27.1190. If an AWS licensee enters into a spectrum leasing arrangement and the spectrum lessee triggers a cost-sharing obligation, the licensee is the AWS entity responsible for satisfying cost-sharing obligations under these rules.

§ 27.1178 Administration of the Cost-Sharing Plan.

The Wireless Telecommunications Bureau, under delegated authority, will select one or more entities to operate as a neutral, not-for-profit clearinghouse(s). This clearinghouse(s) will administer the cost-sharing plan by, inter alia, determining the cost-sharing obligations of AWS entities for the relocation of BRS incumbents from the 2150–2162 MHz band. The clearinghouse filing requirements (see §§27.1182(a), 27.1186) will not take effect until an administrator is selected.

§ 27.1180 The cost-sharing formula.

(a) An AWS licensee that relocates a BRS system with which it interferes is entitled to pro rata reimbursement based on the cost-sharing formula specified in §27.1164, except that the depreciation factor shall be \(180 - T_{\text{mf}}\)/180, and the variable C shall be applied as set forth in paragraph (b) of this section.
§ 27.1182 Reimbursement under the Cost-Sharing Plan.

(a) Registration of reimbursement rights. (1) To obtain reimbursement, an AWS relocator must submit documentation of the relocation agreement to the clearinghouse within 30 calendar days of the date a relocation agreement is signed with an incumbent. In the case of involuntary relocation, an AWS relocator must submit documentation of the relocated system within 30 calendar days after the end of the one-year trial period.

(2) Registration of any BRS system shall include:

(i) A description of the system’s frequency use;

(ii) If the system exclusively provides one-way transmissions to subscribers, the Geographic Service Area of the system; and

(iii) If the system does not exclusively provide one-way transmission to subscribers, the system hub antenna’s geographic location and the above ground level height of the system’s receiving antenna centerline.

(b) Documentation of expenses. Once relocation occurs, the AWS relocator must submit documentation itemizing the amount spent for items specifically listed in §27.1180(b), as well as any reimbursable items not specifically listed in §27.1180(b) that are directly attributable to actual relocation costs. Specifically, the AWS relocator must submit, in the first instance, only the uniform cost data requested by the clearinghouse along with copies, without redaction, of the relocation agreement, if
any, and the third party appraisal described in (a)(3), of this section, if prepared. The AWS relocator must identify the particular system associated with appropriate expenses (i.e., costs may not be averaged over numerous systems). If an AWS relocator pays a BRS incumbent a monetary sum to relocate its own facilities in whole or in part, the AWS relocator must itemize the actual costs associated with relocating the incumbent and itemize these costs. If the sum paid to the incumbent cannot be accounted for, the remaining amount is not eligible for reimbursement. All AWS relocators seeking reimbursement through the clearinghouse have an ongoing duty to maintain all relevant records of BRS relocation-related expenses until the sunset of cost-sharing obligations, and to provide, upon request, such documentation, including a copy of the independent appraisal if one was conducted, to the clearinghouse, the Commission, or AWS entrants that trigger a cost-sharing obligation.

(c) Full reimbursement. An AWS relocator who relocates a BRS system that is either:
(1) Wholly outside its frequency band; or
(2) Not within line of sight of the relocator’s transmitting base station may seek full reimbursement through the clearinghouse of compensable costs. Such reimbursement will not be subject to depreciation under the cost-sharing formula.

(d) Good Faith Requirement. New entrants and incumbent licensees are expected to act in good faith in satisfying the cost-sharing obligations under §§27.1176 through 27.1190. The requirement to act in good faith extends to, but is not limited to, the preparation and submission of the documentation required in paragraph (b) of this section.

§ 27.1184 Triggering a reimbursement obligation.

(a) The clearinghouse will apply the following test to determine when an AWS entity has triggered a cost-sharing obligation and therefore must pay an AWS relocator of a BRS system in accordance with the formula detailed in §27.1180:
(1) All or part of the relocated BRS system was initially co-channel with the licensed AWS band(s) of the AWS entity;
(2) An AWS relocator has paid the relocation costs of the BRS incumbent; and
(3) The other AWS entity has turned on or is preparing to turn on a fixed base station at commercial power and the incumbent BRS system would have been within the line of sight of the AWS entity’s fixed base station, defined as follows.
   (i) For a BRS system using the 2150–2160/62 MHz band exclusively to provide one-way transmissions to subscribers, the clearinghouse will determine whether there is an unobstructed signal path (line of sight) to the incumbent licensee’s geographic service area (GSA), based on the following criteria: use of 9.1 meters (30 feet) for the receiving antenna height, use of the actual transmitting antenna height and terrain elevation, and assumption of 4/3 Earth radius propagation conditions. Terrain elevation data must be obtained from the U.S. Geological Survey (USGS) 3-second database. All coordinates used in carrying out the required analysis shall be based upon use of NAD–93.
   (ii) For all other BRS systems using the 2150–2160/62 MHz band, the clearinghouse will determine whether there is an unobstructed signal path (line of sight) to the incumbent licensee’s receive station hub using the method prescribed in “Methods for Predicting Interference from Response Station Transmitters and to Response Station Hubs and for Supplying Data on Response Station Systems. MM Docket 97–217,” in Amendment of 47 CFR parts 1, 21 and 74 to Enable Multipoint Distribution Service and Instructional Television Fixed Service Licensees to Engage in Fixed Two-Way Transactions, MM Docket No. 97–217, Report and Order on Further Reconsideration and Further Notice of Proposed Rulemaking, 15 FCC Rcd 14566 at 14610, Appendix D.

(b) If the application of the trigger test described in paragraphs (a)(3)(i) and (ii) of this section, indicates that a
§ 27.1201

EBS eligibility.

(a) A license for an Educational Broadband Service station will be issued only to an accredited institution or to a governmental organization engaged in the formal education of enrolled students or to a nonprofit organization whose purposes are educational and include providing educational and instructional television material to such accredited institutions and governmental organizations, and which is otherwise qualified under the statutory provisions of the Communications Act of 1934, as amended.

(1) A publicly supported educational institution must be accredited by the appropriate State department of education.

(2) A privately controlled educational institution must be accredited by the...
appropriate State department of education or the recognized regional and national accrediting organizations.

(3) Those applicant organizations whose eligibility is established by service to accredited institutional or governmental organizations must submit documentation from proposed receive sites demonstrating that they will receive and use the applicant’s educational usage. In place of this documentation, a State educational television (ETV) commission may demonstrate that the public schools it proposes to serve are required to use its proposed educational usage. Documentation from proposed receive sites which are to establish the eligibility of an entity not serving its own enrolled students for credit should be in letter form, written and signed by an administrator or authority who is responsible for the receive site’s curriculum planning. No receive site more than 35 miles from the proposed station’s central reference point, or outside the applicants’ proposed GSA, shall be used to establish basic eligibility. Where broadband or data services are proposed, the letter should indicate that the data services will be used in furtherance of the institution’s educational mission and will be provided to enrolled students, faculty and staff in a manner and in a setting conducive to educational usage. Where traditional educational or instructional video services are proposed, the letter should indicate that the applicant’s program offerings have been viewed and that such programming will be incorporated in the site’s curriculum. Where educational or instructional video services are proposed, the letter should discuss the types of programming and hours per week of formal and informal programming expected to be used and the site’s involvement in the planning, scheduling and production of programming. If other levels of authority must be obtained before a firm commitment to utilize the service can be made, the nature and extent of such additional authorization(s) must be provided.

(4) Nonlocal applicants, in addition to submitting letters from proposed receive sites, must demonstrate the establishment of a local program committee in each community where they apply. Letters submitted on behalf of a nonlocal entity must confirm that a member of the receive site’s staff will serve on the local program committee and demonstrate a recognition of the composition and power of the committee. The letter should show that the staff member will aid in the selection, scheduling and production of the programming received over the system.

(b) No numerical limit is placed on the number of stations which may be licensed to a single licensee. A single license may be issued for more than one transmitter if they are to be located at a common site and operated by the same licensee. Applicants are expected to accomplish the proposed operation by the use of the smallest number of channels required to provide the needed service.

(c) [Reserved]

(d) This paragraph applies to EBS licensees and applications licensed or filed pursuant to the provisions of §27.1201(c) contained in the edition of 47 CFR parts 20 through 39, revised as of October 1, 2005, or §§74.990 through 74.992 contained in the edition of 47 CFR parts 70 through 79, revised as of October 1, 2004, and that do not meet the eligibility requirements of paragraph (a) of this section. Such licensees may continue to operate pursuant to the terms of their existing licenses, and their licenses may be renewed, assigned, or transferred, so long as the licensee is otherwise in compliance with this chapter. Applications filed pursuant to the provisions of §27.1201(c) contained in the edition of 47 CFR parts 20 through 39, revised as of October 1, 2005 or §§74.990 through 74.992 contained in the edition of 47 CFR parts 70 through 79, revised as of October 1, 2004 may be processed and granted, so long as such applications were filed prior to July 19, 2006. The provisions of §§27.1203(b) through (d) and 27.1214 of this subpart do not apply to licenses governed by this paragraph.


§ 27.1202 Cable/BRS cross-ownership.

(a) Initial or modified authorizations for BRS stations may not be granted to
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a cable operator if a portion of the BRS station’s protected services area is within the portion of the franchise area actually served by the cable operator’s cable system and the cable operator will be using the BRS station as a multichannel video programming distributor (as defined in §76.64(d) of this chapter). No cable operator may acquire such authorization either directly, or indirectly through an affiliate owned, operated, or controlled by or under common control with a cable operator if the cable operator will use the BRS station as a multichannel video programming distributor.

(b) No licensee of a station in this service may lease transmission time or capacity to a cable operator either directly, or indirectly through an affiliate owned, operated, controlled by, or under common control with a cable operator, if a portion of the BRS station’s protected services area is within the portion of the franchise area actually served by the cable operator’s cable system the cable operator will use the BRS station as a multichannel video programming distributor.

(c) Applications for new stations, station modifications, assignments or transfers of control by cable operators of BRS stations shall include a showing that no portion of the GSA of the BRS station is within the portion of the franchise area actually served by the cable operator’s cable system, or of any entity indirectly affiliated, owned, operated, controlled by, or under common control with the cable operator. Alternatively, the cable operator may certify that it will not use the BRS station to distribute multichannel video programming.

(d) In applying the provisions of this section, ownership and other interests in BRS licensees or cable television systems will be attributed to their holders and deemed cognizable pursuant to the following criteria:

(1) Except as otherwise provided herein, partnership and direct ownership interests and any voting stock interest amounting to 5% or more of the outstanding voting stock of a corporate BRS licensee or cable television system will be cognizable:

(2) Investment companies, as defined in 15 U.S.C. 80a–3, insurance companies and banks holding stock through their trust departments in trust accounts will be considered to have a cognizable interest only if they hold 20% or more of the outstanding voting stock of a corporate BRS licensee or cable television system, or if any of the officers or directors of the BRS licensee or cable television system are representatives of the investment company, insurance company or bank concerned. Holdings by a bank or insurance company will be aggregated if the bank or insurance company has any right to determine how the stock will be voted. Holdings by investment companies will be aggregated if under common management.

(3) Attribution of ownership interests in a BRS licensee or cable television system that are held indirectly by any party through one or more intervening corporations will be determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain and application of the relevant attribution benchmark to the resulting product, except that wherever the ownership percentage for any link in the chain exceeds 50%, it shall not be included for purposes of this multiplication. For purposes of paragraph (d)(9) of this section, attribution of ownership interests in a BRS licensee or cable television system that are held indirectly by any party through one or more intervening organizations will be determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain and application of the relevant attribution benchmark to the resulting product, and the ownership percentage for any link in the chain that exceeds 50% shall be included for purposes of this multiplication. For example, except for purposes of paragraph (d)(9) of this section, if A owns 10% of company X, which owns 60% of company Y, which owns 25% of “Licensee,” then X’s interest in “Licensee” would be 25% (the same as Y’s interest because X’s interest in Y exceeds 50%), and A’s interest in “Licensee” would be 2.5% (0.1 × 0.25). Under the 5% attribution benchmark, X’s interest in “Licensee” would be cognizable, while A’s interest would not be cognizable. For purposes of
paragraph (d)(9) of this section. X’s interest in “Licensee” would be 15% (0.6 × 0.25) and A’s interest in “Licensee” would be 1.5% (0.1 × 0.6 × 0.25). Neither interest would be attributed under paragraph (d)(9) of this section.

(4) Voting stock interests held in trust shall be attributed to any person who holds or shares the power to vote such stock, to any person who has the sole power to sell such stock, and to any person who has the right to revoke the trust at will or to replace the trustee at will. If the trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the grantor or beneficiary, as appropriate, will be attributed with the stock interests held in trust. An otherwise qualified trust will be ineffective to insulate the grantor or beneficiary from attribution with the trust’s assets unless all voting stock interests held by the grantor or beneficiary in the relevant BRS licensee or cable television system are subject to said trust.

(5) Subject to paragraph (d)(9) of this section, holders of non-voting stock shall not be attributed an interest in the issuing entity. Subject to paragraph (d)(9) of this section, holders of debt and instruments such as warrants, convertible debentures, options or other non-voting interests with rights of conversion to voting interests shall not be attributed unless and until conversion is effected.

(6)(i) A limited partnership interest shall be attributed to a limited partner unless that partner is not materially involved, directly or indirectly, in the management or operation of the BRS or cable television activities of the partnership and the licensee or system so certifies. An interest in a Limited Liability Company (“LLC”) or Registered Limited Liability Partnership (“RLLP”) shall be attributed to the interest holder unless that interest holder is not materially involved, directly or indirectly, in the management or operation of the BRS or cable television activities of the partnership and the licensee or system so certifies.

(ii) For a licensee or system that is a limited partnership to make the certification set forth in paragraph (d)(6)(i) of this section, it must verify that the organizational document, with respect to the particular interest holder exempt from attribution, establishes that the exempt interest holder has no material involvement, directly or indirectly, in the management or operation of the BRS or cable television activities of the LLC or RLLP. Irrespective of the terms of the certificate of limited partnership or partnership agreement, or other organizational document in the case of an LLC or RLLP, however, no such certification shall be made if the individual or entity making the certification has actual knowledge of any material involvement of the limited partners, or other interest holders in the case of an LLC or RLLP, in the management or operation of the BRS or cable television businesses of the partnership or LLC or RLLP.

(iii) In the case of an LLC or RLLP, the licensee or system seeking installation shall certify, in addition, that the relevant state statute authorizing LLCs permits an LLC member to insulate itself as required by our criteria.

(7) Officers and directors of a BRS licensee or cable television system are considered to have a cognizable interest in the entity with which they are so associated. If any such entity engages in businesses in addition to its primary business of BRS or cable television service, it may request the Commission to waive attribution for any officer or director whose duties and responsibilities are wholly unrelated to its primary business. The officers and directors of a parent company of a BRS licensee or cable television system, with an attributable interest in any such subsidiary entity, shall be deemed to have a cognizable interest in the subsidiary unless the duties and responsibilities of the officer or director involved are wholly unrelated to the BRS
licensee or cable television system subsidiary, and a statement properly documenting this fact is submitted to the Commission. The officers and directors of a sister corporation of a BRS licensee or cable television system shall not be attributed with ownership of these entities by virtue of such status.

(8) Discrete ownership interests will be aggregated in determining whether or not an interest is cognizable under this section. An individual or entity will be deemed to have a cognizable investment if:

(i) The sum of the interests held by or through “passive investors” is equal to or exceeds 20 percent; or

(ii) The sum of the interests other than those held by or through “passive investors” is equal to or exceeds 5 percent; or

(iii) The sum of the interests computed under paragraph (d)(8)(i) of this section plus the sum of the interests computed under paragraph (d)(8)(ii) of this section equal to or exceeds 20 percent.

(9) Notwithstanding paragraphs (d)(5) and (d)(6) of this section, the holder of an equity or debt interest or interests in a BRS licensee or cable television system subject to the BRS/cable cross-ownership rule (“interest holder”) shall have that interest attributed if:

(i) The equity (including all stockholdings, whether voting or nonvoting, common or preferred) and debt interest or interests, in the aggregate, exceed 33 percent of the total asset value (all equity plus all debt) of that BRS licensee or cable television system; and

(ii) The interest holder also holds an interest in a BRS licensee or cable television system that is attributable under this section (other than this paragraph) and which operates in any portion of the franchise area served by that cable operator’s cable system.

(10) The term “area served by a cable system” means any area actually passed by the cable operator’s cable system and which can be connected for a standard connection fee.

(11) As used in this section “cable operator” shall have the same definition as in §76.5 of this chapter.

(e) The Commission will entertain requests to waive the restrictions in paragraph (a) of this section where necessary to ensure that all significant portions of the franchise area are able to obtain multichannel video service.

(f) The provisions of paragraphs (a) through (e) of this section will not apply to one BRS channel used to provide locally-produced programming to cable headends. Locally-produced programming is programming produced in or near the cable operator’s franchise area and not broadcast on a television station available within that franchise area. A cable operator will be permitted one BRS channel for this purpose, and no more than one BRS channel may be used by a cable television company or its affiliate or lessor pursuant to this paragraph. The licensee for a cable operator providing local programming pursuant to a lease must include in a notice filed with the Wire- less Telecommunications Bureau a cover letter explicitly identifying itself or its lessees as a local cable operator and stating that the lease was executed to facilitate the provision of local programming. The first application or the first lease notification in an area filed with the Commission will be entitled to the exemption. The limitations on one BRS channel per party and per area include any cable/BRS operations or cable/EBS operations. The cable operator must demonstrate in its BRS application that the proposed local programming will be provided within one year from the date its application is granted. Local programming service pursuant to a lease must be provided within one year of the date of the lease or one year of grant of the licensee’s application for the leased channel, whichever is later. If a BRS license for these purposes is granted and the programming is subsequently discontinued, the license will be automatically forfeited the day after local programming service is discontinued.

(g) Applications filed by cable television companies, or affiliates, for BRS channels prior to February 8, 1990, will not be subject to the prohibitions of this section. Applications filed on February 8, 1990, or thereafter will be returned. Lease arrangements between cable and BRS entities for which a lease or a firm agreement was signed prior to February 8, 1990, will also not be subject to the prohibitions of this
section. Leases between cable television companies, or affiliates, and BRS station licensees, conditional licensees, or applicants executed on February 8, 1990, or thereafter, are invalid.  

(1) Applications filed by cable operators, or affiliates, for BRS channels prior to February 8, 1990, will not be subject to the prohibitions of this section. Except as provided in paragraph (g)(2) of this section, applications filed on February 8, 1990, or thereafter will be returned. Lease arrangements between cable and BRS entities for which a lease or a firm agreement was signed prior to February 8, 1990, will also not be subject to the prohibitions of this section. Except as provided in paragraph (g)(2) of this section, leases between cable operators, or affiliates, and BRS/EBS station licensees, conditional licensees, or applicants executed on or before February 8, 1990, or thereafter are invalid.  

(2) Applications filed by cable operators, or affiliates for BRS channels after February 8, 1990, and prior to October 5, 1992, will not be subject to the prohibition of this section, if, pursuant to the then existing overbuild or rural exceptions, the applications were allowed under the then existing cable/BRS cross-ownership prohibitions. Lease arrangements between cable operators and BRS entities for which a lease or firm agreement was signed after February 8, 1990, and prior to October 5, 1992, will not be subject to the prohibitions of this section, if, pursuant to the then existing rural and overbuild exceptions, the lease arrangements were allowed.  

(3) The limitations on cable television ownership in this section do not apply to any cable operator in any franchise area in which a cable operator is subject to effective competition as determined under section 623 (1) of the Communications Act.  

§ 27.1208 BTA service areas.

Except for incumbent BRS licenses, BRS service areas are Basic Trading Areas (BTAs) or additional service areas similar to BTAs adopted by the Commission. BTAs are based on the Rand McNally 1992 Commercial Atlas & Marketing Guide, 123rd Edition, at pages 38–39. The following are additional BRS service areas in places where Rand McNally has not defined BTAs: American Samoa; Guam; Gulf of Mexico Zone A; Gulf of Mexico Zone B; Gulf of Mexico Zone C; Northern Mariana Islands; Mayaguez/Aguadilla-Ponce, Puerto Rico; San Juan, Puerto Rico; and the United States Virgin Islands. The boundaries of Gulf of Mexico Zone A are from the shoreline at mean high tide on the north and east, to the limit of the Outer Continental Shelf to the south, and to longitude 91°00′ to the west. The boundaries of Gulf of Mexico Zone B are from the shoreline at mean high tide on the north and west, to longitude 94°00′ to the east, and to a line 281 kilometers from the reference point at Linares, N.L., Mexico on the southwest. The Mayaguez/Aguadilla-Ponce, PR, service area consists of the following municipios: Adjuntas, Aguada, Aguadilla, Anasco, Arroyo, Cabo Rojo, Coamo, Guanica, Guayama, Guayanilla, Hormigueros, Isabela, Jayuya, Juana Diaz, Lajas, Las Marias, Maricao, Maunabo, Mayaguez, Moca, Patillas, Penuelas, Ponce, Quebradillas, Rincón, Sabana Grande, Salinas, San German, Santa Isabel, Villalba and Yauco. The San Juan service area consists of all other municipios in Puerto Rico.

§ 27.1209 Conversion of incumbent EBS and BRS stations to geographic area licensing.

(a) Any EBS or BRS station licensed by the Commission, other than BTA authorizations and facilities authorized pursuant to BTA authorizations, shall be considered an incumbent station.

(b) As of January 10, 2005, all incumbent EBS and BRS licenses shall be converted to a geographic area license. Pursuant to that geographic area license, such incumbent licensees may modify their systems provided the modified system complies with the applicable rules. The blanket license covers all fixed stations anywhere within the authorized service area, except as follows:

(1) A station would be required to be individually licensed if
   (i) International agreements require coordination;
   (ii) Submission of an Environmental Assessment is required under §1.1307 of this chapter;
   (iii) The station would affect the radio quiet zones under §1.924 of this chapter.

(2) Any antenna structure that requires notification to the Federal Aviation Administration (FAA) must be registered with the Commission prior to construction under §17.4 of this chapter.

(c) The frequencies associated with incumbent authorizations that have been cancelled automatically or otherwise been recovered by the Commission will automatically revert to the applicable BTA licensee.

§ 27.1210 Remote control operation.
Licensed BRS/EBS stations may be operated by remote control without further authority.

§ 27.1211 Unattended operation.
Unattended operation of licensed BRS/EBS stations is permitted without further authority. An unattended relay station may be employed to receive and retransmit signals of another station provided that the transmitter is equipped with circuits which permit it to radiate only when the signal intended to be retransmitted is present at the receiver input terminals.

§ 27.1212 License term.

(a) BRS/EBS licenses shall be issued for a period of 10 years beginning with the date of grant.

(b) An initial BTA authorization shall be issued for a period of ten years from the date the Commission declared bidding closed in the MDS auction.

§ 27.1213 Designated entity provisions for BRS in Commission auctions commencing prior to January 1, 2004.

(a) Eligibility for small business provisions. For purposes of Commission auctions commencing prior to January 1, 2004 for BRS licenses, a small business is an entity that together with its affiliates has average annual gross revenues that are not more than $40 million for the preceding three calendar years.

(b) Designated entities. As specified in this section, designated entities that are winning bidders in Commission auctions commencing prior to January 1, 2004 for BTA service areas are eligible for special incentives in the auction process. See 47 CFR 1.2110.

(c) Installment payments. Small businesses and small business consortia may elect to pay the full amount of their winning bids in Commission auctions commencing prior to January 1, 2004 for BTA service areas in installments over a ten (10) year period running from the date that their BTA authorizations are issued.

(1) Upon issuance of a BTA authorization to a winning bidder in a Commission auction commencing prior to January 1, 2004 that is eligible for installment payments, the Commission will notify such eligible BTA authorization holder of the terms of its installment payment plan. For BRS, such installment payment plans will:
   (i) Impose interest based on the rate of ten (10) year U.S. Treasury obligations at the time of issuance of the BTA authorization, plus two and one half (2.5) percent;
   (ii) Allow installment payments for a ten (10) year period running from the date that the BTA authorization is issued;
   (iii) Begin with interest-only payments for the first two (2) years; and
   (iv) Amortize principal and interest over the remaining years of the ten (10)
year period running from the date that the BTA authorization is issued.

(2) Conditions and obligations. See §1.2110(g)(4) of this chapter.

(3) Unjust enrichment. If an eligible BTA authorization holder that utilizes installment financing under this subsection seeks to partition, pursuant to applicable rules, a portion of its BTA containing one-third or more of the population of the area within its control in the licensed BTA to an entity not meeting the eligibility standards for installment payments, the holder must make full payment of the remaining unpaid principal and any unpaid interest accrued through the date of partition as a condition of approval.

(d) Reduced upfront payments. For purposes of Commission auctions commencing prior to January 1, 2004 for BRS licenses, a prospective bidder that qualifies as a small business, or as a small business consortia, is eligible for a twenty-five (25) percent reduction in the amount of the upfront payment otherwise required. To be eligible to bid on a particular BTA, a small business will be required to submit an upfront payment equal to seventy-five (75) percent of the upfront payment amount specified for that BTA in the public notice listing the upfront payment amounts corresponding to each BTA service area being auctioned.

(e) Bidding credits. For purposes of Commission auctions commencing prior to January 1, 2004 for BRS licenses, a winning bidder that qualifies as a small business, or as a small business consortia, may use a bidding credit of fifteen (15) percent to lower the cost of its winning bid on any of the BTA authorizations awarded in the Commission BRS auctions commencing prior to January 1, 2004.

(f) Short-form application certification; Long-form application or statement of intention disclosure. A BRS applicant in a Commission auction commencing prior to January 1, 2004 claiming designated entity status shall certify on its short-form application that it is eligible for the incentives claimed. A designated entity that is a winning bidder for a BTA service area(s) shall, in addition to information otherwise required, file an exhibit to either its initial long-form application for a BRS station license, or to its statement of intention with regard to the BTA, which discloses the gross revenues for each of the past three years of the winning bidder and its affiliates. This exhibit shall describe how the winning bidder claiming status as a designated entity satisfies the designated entity eligibility requirements, and must list and summarize all agreements that affect designated entity status, such as partnership agreements, shareholder agreements, management agreements and other agreements, including oral agreements, which establish that the designated entity will have both de facto and de jure control of the entity. See 47 CFR 1.2110(i).

(g) Records maintenance. All holders of BTA authorizations acquired in a Commission auction commencing prior to January 1, 2004 that claim designated entity status shall maintain, at their principal place of business or with their designated agent, an updated documentary file of ownership and revenue information necessary to establish their status. Holders of BTA authorizations or their successors in interest shall maintain such files for a ten (10) year period running from the date that their BTA authorizations are issued. The files must be made available to the Commission upon request.

§ 27.1214 EBS spectrum leasing arrangements and grandfathered leases.

(a) A licensee in the EBS that is solely utilizing analog transmissions may enter into a spectrum leasing arrangement to transmit material other than the educational programming defined in §27.1203(b) and (c) subject to the following conditions:

(1) Before entering into a spectrum leasing arrangement involving material other than educational programming on any one channel, the licensee must provide at least 20 hours per week of EBS educational programming (as defined in §27.1203(b) and (c)) on that channel, except as provided in paragraphs (a)(2) and (a)(3) of this section. An additional 20 hours per week per channel must be strictly reserved for
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EBS use and not used for non-EBS purposes, or reserved for recapture by the EBS licensee for its EBS educational usage, subject to one year’s advance, written notification by the EBS licensee to its lessee and accounting for all recapture already exercised, with no economic or operational detriment to the licensee. These hours of recapture are not restricted as to time of day or day of the week, but may be established by negotiations between the EBS licensee and the lessee. The 20 hours per channel per week EBS educational usage requirement and the recapture and/or reservation requirement of an additional 20 hours per channel per week shall apply spectrally over the licensee’s whole actual service area.

(2) For the first two years of operation, an EBS entity may enter into a spectrum leasing arrangement involving material other than educational programming if it provides EBS educational usage for at least 12 hours per channel per week, provided that the entity does not employ channel loading technology.

(3) The licensee may shift its requisite EBS educational usage onto fewer than its authorized number of channels, via channel mapping or channel loading technology, so that it can enter into a spectrum leasing arrangement involving full-time channel capacity on its EBS station and/or associated EBS booster stations, subject to the condition that it provide a total average of at least 20 hours per channel per week of EBS educational usage on its authorized channels. The use of channel mapping or channel loading consistent with the Rules shall not be considered adversely to the EBS licensee in seeking a license renewal. The licensee also retains the unbridgeable right to recapture, subject to six months’ advance written notification by the EBS licensee to the spectrum lessee, an average of an additional 20 hours per channel per week, accounting for all recapture already exercised. Regardless of whether the licensee has educational receive sites within its GSA, the licensee may lease booster stations in the entire GSA, provided that the licensee maintains the unbridgeable right to ready recapture at least 40 hours per channel per week for EBS educational usage. The licensee may agree to the transmission of this recapture time on channels not authorized to it, but which are included in the wireless system of which it is a part. A licensee under this paragraph which enters into a spectrum leasing arrangement on any one of its channels to an operator may “channel shift” pursuant to and under the conditions of paragraph (d)(2) of this section.

(b) A licensee utilizing digital transmissions on any of its licensed channels may enter into a spectrum leasing arrangement to transmit material other than the educational programming defined in §27.1203(b) and (c), subject to the following conditions:

(1) The licensee must reserve a minimum of 5% of the capacity of its channels for educational uses consistent with §27.1203 paragraphs (b) and (c), and may not enter into a spectrum leasing arrangement involving this reserved capacity. In addition, before leasing excess capacity, the licensee must provide at least 20 hours per licensed channel per week of EBS educational usage. This 5% reservation and this 20 hours per licensed channel per week EBS educational usage requirement shall apply spectrally over the licensee’s whole actual service area. However, regardless of whether the licensee has an educational receive site within its GSA served by a booster, the licensee may lease excess capacity without making at least 20 hours per licensed channel per week of EBS educational usage, provided that the licensee maintains the unbridgeable right to recapture on one months’ advance notice such capacity as it requires over and above the 5% reservation to make at least 20 hours per channel per week of EBS educational usage.

(2) The licensee may shift its requisite EBS educational usage onto fewer than its authorized number of channels, via channel mapping or channel loading technology, and may shift its requisite EBS educational usage onto channels not authorized to it, but which are included in the wireless system of which it is a part (“channel shifting”), so that it can enter into a
§ 27.1216 Grandfathered E and F group EBS licenses.

(a) Except as noted in paragraph (b) of this section, grandfathered EBS licensees authorized to operate E and F group co-channel licenses are granted a geographic service area (GSA) on July 19, 2006. The GSA is the area bounded by a circle having a 35 mile radius and centered at the station’s reference coordinates, and is bounded by the chord(s) drawn between intersection points of that circle and those of respective adjacent market, co-channel licensees.

(b) If there is more than 50 percent overlap between the calculated GSA of a grandfathered EBS license and the protected service area of a co-channel BRS license, the licensees shall not be immediately granted a geographic service area. Instead, the grandfathered EBS license and the co-channel BRS licensee must negotiate in
§ 27.1217  Competitive bidding procedures for the Broadband Radio Service.

Mutually exclusive initial applications for BRS licenses in the 2500–2690 MHz band are subject to competitive bidding. The general competitive bidding procedures set forth in part 1, subpart Q of this chapter will apply unless otherwise provided in this subpart.

§ 27.1218  Designated entities.

(a) Eligibility for small business provisions. (1) A small business is an entity that, together with all attributed parties, has average gross revenues that are not more than $40 million for the preceding three years.

(2) A very small business is an entity that, together with all attributed parties, has average gross revenues that are not more than $15 million for the preceding three years.

(3) An entrepreneur is an entity that, together with all attributed parties, has average gross revenues that are not more than $3 million for the preceding three years.

(b) Bidding credits. (1) A winning bidder that qualifies as a small business, as defined in this section, or a consortium of small businesses, may use a bidding credit of 15 percent, as specified in §1.2110(f)(2)(i) of this chapter, to lower the cost of its winning bid on any of the licenses in this subpart.

(2) A winning bidder that qualifies as a very small business, as defined in this section, or a consortium of very small businesses, may use a bidding credit of 25 percent, as specified in §1.2110(f)(2)(ii) of this chapter, to lower the cost of its winning bid on any of the licenses in this subpart.

(3) A winning bidder that qualifies as an entrepreneur, as defined in this section, or a consortium of entrepreneurs, may use a bidding credit of 15 percent, as specified in §1.2110(f)(2)(i) of this chapter, to lower the cost of its winning bid on any of the licenses in this subpart.

§ 27.1220  Transmission standards.

The width of a channel in the LBS and UBS is 5.5 MHz, with the exception of BRS channels 1 and 2 which are 6.0 MHz. The width of all channels in the MBS is 6 MHz. However, the licensee may subchannelize its authorized bandwidth, provided that digital modulation is employed and the aggregate power does not exceed the authorized power for the channel. The licensee may also, jointly with other licensees, transmit utilizing bandwidth in excess of its authorized bandwidth, provided that digital modulation is employed, all power spectral density requirements set forth in this part are met and the out-of-band emissions restrictions set forth in §27.53 are met at the edges of the channels employed.

§ 27.1221  Interference protection.

(a) Interference protection will be afforded to BRS and EBS on a station-by-station basis based on the heights of the stations in the LBS and UBS and also on height benchmarking, although the heights of antennas utilized are not restricted.

(b) Height Benchmarking. Height benchmarking is defined for pairs of base stations, one in each of two proximate geographic service areas (GSAs). The height benchmark, which is defined in meters (h_{bm}) for a particular base station relative to a base station in another GSA, is equal to the distance, in kilometers, from the base station along a radial to the nearest point on the GSA boundary of the other base station squared (D_{km}^2) and then divided by 17. That is, h_{bm} = D_{km}^2/17. A base station antenna will be considered to
§ 27.1222 Operations in the 2568–2572 and 2614–2618 bands.

All operations in the 2568–2572 and 2614–2618 MHz bands shall be secondary to adjacent-channel operations. Stations operating in the 2568–2572 and 2614–2618 MHz must not cause interference to licensees in operation in the LBS, MBS, and UBS and must accept any interference from any station operating in the LBS, MBS, and UBS in compliance with the rules established in this subpart. Stations operating in the 2568–2572 and 2614–2618 bands may cause interference to stations in operation in the LBS, MBS, and UBS if the
affected licensees consent to such interference.

POLICIES GOVERNING THE TRANSITION OF THE 2500–2690 MHz BAND FOR BRS AND EBS

§ 27.1230 Conversion of the 2500–2690 MHz band.

BRS and EBS licensees in the 2500–2690 MHz band on the pre-transition A-I Channels will be transitioned from the frequencies assigned to them under § 27.5(i)(1) to the frequencies assigned to them under § 27.5(i)(2). The transition, which will be undertaken by one or more proponent(s), will occur in the following five phases: initiating the transition process (see § 27.1231), planning the transition (see § 27.1232), reimbursing transition costs (see §§ 27.1233 and 27.1237–1239), terminating existing operations in transitioned markets that do not comport with § 27.5(i)(2) (see § 27.1234), and filing the post-transition notification (see § 27.1235). Licensees may also self-transition (see § 27.1236).

§ 27.1231 Initiating the transition.

(a) Transition areas. Unless paragraph (b) of this section applies, the transition will occur by Basic Trading Area (BTA). BTAs are based on the Rand McNally 1992 Commercial Atlas & Marketing Guide, 123rd Edition, at pages 38–39, that identifies 487 BTAs based on the 50 States; it also includes the following additional BTA-like areas: American Samoa; Guam; Northern Marianas Islands; Mayaguez/Aguadilla-Ponce, Puerto Rico; San Juan, Puerto Rico; and the United States Virgin Islands, for a total of 493 BTAs. The Mayaguez/Aguadilla-Ponce BTA-like area consists of the following municipios: Adjuntas, Aguada, Aguadilla, Anasco, Arroyo, Cabo Rojo, Coamo, Guanica, Guayanilla, Hormigueros, Isabela, Jayuya, Juana Diaz, Lajas, Las Marías, Maricao, Maunabo, Mayaguez, Moca, Patillas, Penuelas, Ponce, Quebradillas, Rincon, Sabana Grande, Salinas, San German, Santa Isabel, Villalba, and Yauco. The San Juan BTA-like area consists of all other municipios in Puerto Rico. The BTA associated with the Gulf of Mexico will not be transitioned.

(b) Overlapping GSAs. When a Geographic Service Area (GSA) overlaps two or more BTAs:

1. The proponents of the adjacent BTAs may agree on how to transition a GSA that overlaps their respective BTAs.

2. If an agreement has not been reached between or among the proponents of the adjacent BTAs:

   (i) Each proponent must transition all of the facilities associated with the GSA that are inside the GSA and inside the proponent’s BTA if all of the adjacent BTAs are transitioning; or

   (ii) The proponent of the BTA that is transitioning must transition all of the facilities associated with the GSA that are within the GSA but outside the BTA, if the adjacent BTA is not transitioning.

(c)(1) Proponent(s). The proponent or co-proponent must:

   (i) Be a BRS or EBS licensee or BRS or EBS lessee;

   (ii) Send a Pre-Transition Data Request (see paragraph (d) of this section) and a Transition Notice (see paragraph (e) of this section) to every BRS and EBS licensee in the BTA, using the contact information in the Commission’s Universal Licensing System; and

   (iii) Be first to file an Initiation Plan (see paragraph (f) of this section) with the Secretary of the Commission.

(2) Before filing an Initiation Plan, BRS or EBS licensees or BRS or EBS lessees may agree to be co-proponents. After the Initiation Plan is filed the proponent may accept a co-proponent at its sole discretion.

(d) Pre-Transition Data Request. The Pre-Transition Data Request must include the potential proponent’s full name, mailing address, contact person, e-mail address, and phone and fax numbers.

1. BRS and EBS licensees that receive a Pre-Transition Data Request must provide the following information to the potential proponent within 45 days of receiving the Pre-Transition Data Request:

   (i) The BRS or EBS licensee’s full name, mailing address, contact person, e-mail address, and phone and fax number.
Federal Communications Commission § 27.1231

(i) The location (by street address and by geographic coordinates) of every constructed EBS receive site that, as of the date of receipt of the Pre-Transition Data Request, is entitled to a replacement downconverter (see §27.1233(a)). The response must:

(A) Specify whether the downconverting antenna is mounted on a structure attached to the building or on a free-standing structure;
(B) Specify the approximate height above ground level of the downconverting antenna; and
(C) Specify, if known, the adjacent channel D/U ratio that can be tolerated by any receiver(s) at the receive site.

(ii) The location (by street address and geographic coordinates) of every constructed EBS receive site that, as of the date of receipt of the Pre-Transition Data Request, is entitled to a replacement downconverter (see §27.1233(a)). The response must:

(A) Specify whether the downconverting antenna is mounted on a structure attached to the building or on a free-standing structure;
(B) Specify the approximate height above ground level of the downconverting antenna; and
(C) Specify, if known, the adjacent channel D/U ratio that can be tolerated by any receiver(s) at the receive site.

(iii) The location (street address and geographic coordinates) of the main station or booster serving each EBS receive site entitled to protection, including:

(A) The make and model of the antenna for that main station or booster, along with the radiation pattern if it is not included within the Commission's database;
(B) The ground elevation, above mean sea level (AMSL), of the building or antenna supporting structure on which the main station or booster transmission antenna is installed;
(C) The height above ground level (AGL) of the center of radiation of the transmission antenna;
(D) The orientation of the main lobe of the transmission antenna;
(E) Any mechanical beamtilt or electrical beamtilt not reflected in the radiation pattern provided or included within the Commission's database;
(F) The bandwidth of each channel or subchannel, the emission type for each channel or subchannel, and the EIRP measured in the main lobe for each channel or subchannel; and
(G) The make and model of the receive antenna installed at that site, along with the radiation pattern if it is not included within the Commission's database.

(iv) The number and identification of EBS video programming or data transmission tracks the EBS licensee is entitled to receive in the MBS and whether the EBS licensee will accept fewer tracks in the MBS (see §27.1233(b)).

(v) Whether it will seek or has sought a waiver from the Commission as a Multichannel Video Programming Distributor (MVPD).

(2) BRS and EBS licensees that do not respond to the Pre-Transition Data Request within 45 days of its receipt may not object to the Transition Plan.

(e) The Transition Notice. The potential proponent(s) must send a Transition Notice to all BRS and EBS licensees in the BTA(s) being transitioned. The potential proponent(s) must include the following information in the Transition Notice:

(1) The potential proponent(s)'s full name; postal mailing address, contact person, e-mail address, and phone and fax numbers;
(2) The identification of the BRS and EBS licensees that will be transitioned;
(3) Copies of the most recent response to the Pre-Transition Data Request for each participant in the process; and
(4) A certification that the potential proponent(s) has the funds available to pay the reasonably expected costs of the transition based on the information in the Pre-Transition Data Request.

(f) Initiation Plan. To initiate a transition, a potential proponent(s) must submit an Initiation Plan to the Commission at the Office of the Secretary in Washington, DC on or before January 21, 2009.

(1) An Initiation Plan must contain the following information:

(i) A list of the BTA(s) that the proponent(s) is transitioning;
(ii) A list by call sign of all of the BRS and EBS licensees in the BTA(s) that are being transitioned;
(iii) A "best estimate" of when the transition will be completed;
(iv) A statement indicating that an agreement has been concluded with the proponent(s) of the adjoining or adjacent BTA(s) when a licensee or licensees in an adjacent or adjoining BTA must be transitioned to avoid interference to licensees in the BTA being transitioned, or in lieu of an agreement, the proponent(s) may provide an alternative means of transitioning the licensees in an adjacent or adjoining BTA;
(v) A statement indicating that an agreement has been concluded with another proponent(s) on how a BTA will be transitioned when there are two or
more proponents seeking to transition the same BTA and they agree to be co-proponents before the Initiation Plan is filed, and a statement that identifies the specific portion of the BTA each proponent will be responsible for transitioning; and

(vi) A certification that the proponent or joint proponents have the funds available to pay the reasonable expected costs of the transition based on the information contained in the Pre-Transition Data Request (see paragraph (d) of this section).

(2) A proponent, at its own discretion, may withdraw from transitioning a BTA by notifying the Commission and all affected BRS and EBS licensees in the BTA that it is withdrawing the Initiation Plan.

(3) A proponent may amend an Initiation Plan after it has been filed with the Commission to correct minor or inadvertent errors.

(g) MVPD waiver requests. MVPD licensees that seek to opt-out of the transition must seek a waiver within 60 days after the proponent files the Initiation Plan or on or before April 30, 2007, whichever occurs first.

[71 FR 35191, June 19, 2006, as amended at 73 FR 26041, May 8, 2008]

§27.1232 Planning the transition.

(a) The Transition Planning Period. The Transition Planning Period is a 90-day period that commences on the day after the proponent(s) files the Initiation Plan with the Commission.

(b) The Transition plan. The proponent(s) must provide to each BRS and EBS licensee within a BTA, a Transition Plan no later than 30 days prior to the conclusion of the Transition Planning Period.

(1) The Transition Plan must:

(i) Identify the call signs of the stations that are transitioning;

(ii) Identify the specific channels that each licensee will receive following the transition;

(iii) Identify the receive sites at which replacement downconverters will be installed (see §27.1233(a));

(iv) Identify the video programming and data transmission tracks that will be migrated to the MBS and provide for the MBS channels to be authorized to operate with transmission parameters that are substantially similar to those of the licensee’s operation prior to transition (see §27.1233(b));

(v) Identify the technical configuration of the MBS facilities;

(vi) Identify the approximate timeline for effectuating the transition, which, unless dispute resolution procedures are used, may not exceed 18 months from the conclusion of the Transition Planning Period;

(vii) Provide for the establishment of an escrow or other appropriate mechanism for ensuring completion of the transition in accordance with the Transition Plan.

(2) The Transition Plan may provide for interruptions of EBS transmissions, so long as those interruptions are limited to a period of less than seven days at any reception site. The proponent(s) must coordinate with each EBS licensee to minimize the extent of any disruption.

(3) The Transition Plan may provide for the shifting of an EBS licensee’s program to alternative channels. Such shifting may not be considered an interruption, if the EBS licensee’s receive sites are equipped to receive and internally distribute the channel to which the programming is shifted.

(4) The Transition Plan may provide for the installation of an appropriate filter on an MBS transmitter if the proponent(s) determines that the installation of a filter will mitigate interference from transmissions in the MBS to operations outside the MBS.

(c) Counterproposals. No later than 10 days before the conclusion of the Transition Planning Period, affected BRS and EBS licensees may submit a counterproposal to the proponent(s) if they believe that the Transition Plan is unreasonable. The proponent(s) may:

(1) Accept the counterproposal, modify the Transition Plan accordingly, and send the modified Transition Plan to all EBS and BRS licensees in the BTA;

(2) Invoke dispute resolution procedures for a determination of whether the Transition Plan is reasonable and take no action until a determination of reasonableness is made; or

(3) Invoke dispute resolution procedures for a determination of whether the Transition Plan is reasonable, but
may implement the transition immediately.

d Safe harbors. An offer by a proponent(s) shall be reasonable if it meets one of the following safe harbors:

1 Safe harbor No. 1. This safe harbor applies when the default high-power channel assigned to each channel group is authorized to operate after the transition with the same transmission parameters (coordinates, antenna pattern, height of center radiation, EIRP) as the downstream facilities before the transition. If the proponent(s) does not propose a change in the geographic coordinates of the facilities (other than as necessary to conform the actual location with the Commission’s Antenna Survey Branch database), the proponent may also propose the following to the extent consistent with this subpart:

(i) An increase in the height of the center of radiation of the transmission antenna or a decrease in such height of no more than 8 meters (provided that such change does not result in an increase in antenna support structure lease costs to the EBS licensee and the consent of the owner of the antenna support structure is obtained).

(ii) A change in the EIRP of the transmission system of up to 1.5 dB in any direction.

(iii) Digitization, precision frequency offset, or other upgrades to the EBS transmission or reception systems that allow the proponent(s) to invoke more advantageous interference protection requirements applicable to upgraded systems.

2 Safe harbor No. 2. This safe harbor applies when an EBS licensee has channel-shifted its single video programming or data transmission track to spectrum licensed to another licensee. Under §27.5(i)(2), that track must be on the high-power channel licensed to the EBS licensee upon completion of the transition. For example, before the transition, an A Group licensee might have shifted its EBS video programming to channel C1. If one of the pre-transition A Group channels is licensed with technical parameters substantially similar to those of pre-transition channel C1, the proponent(s) may:

(i) Arrange a channel swap with the licensee of the C Group so that the A Group licensee will receive high-power channel C4 (which will automatically be licensed with the same transmission parameters as the pre-transition channel C1) in exchange for channel A4.

(ii) Arrange for high-power channel A4 to operate with transmission parameters substantially similar to those of the pre-transition channel C1 (see paragraph (d)(1) of this section).

3 Safe harbor No. 3. This safe harbor applies when a four-channel group is shared among multiple licensees in a given geographic area. Absent an agreement otherwise, a proponent may:

(i) Secure a 6 MHz MBS channel for each licensee in exchange for the non-MBS channels assigned to the group. Following the channel swap(s) necessary to secure those additional MBS channels, the Transition Plan can provide for the licensing of the remaining channels in the LBS, UBS, and Guard Bands on a pro rata basis (with channel(s) in each segment being disaggregated when and if necessary to provide each with its pro rata share of the spectrum in each segment);

(ii) Provide for pro rata segmentation of the default MBS channel for the group, provided that the proponent commits to provide each of the licensees with the technology necessary for its EBS video programming or data transmissions to be digitized, transmitted and received utilizing the provided bandwidth. The non-MBS channels would be divided among the sharing licensees on a pro rata basis (with channel(s) in each segment being disaggregated when and if necessary to provide each with its pro rata share of the spectrum in each segment); or

(iii) Assign the default MBS channel assigned to the group to one of the licensees, if that licensee is the only one that elects to migrate video programming or data transmission tracks to the MBS. The remaining spectrum assigned to the group may be
allocated among the licensees on a pro rata basis, with the 6 MHz in the MBS counting against that licensee’s portion. To the extent necessary, the non-MBS spectrum can be disaggregated when and if necessary to provide each with its pro rata share of the spectrum in each segment. If the proponent chooses to effectuate a channel swap to provide more than one channel in the MBS, the remaining channels assigned to the group (after considering that one or more LBS/UBS channels and associated Transition Band channels will have been swapped away to provide the additional MBS channel) can be allocated among the licensees on a pro rata basis (with channel(s) in each segment being disaggregated when and if necessary to provide each with its pro rata share of the spectrum in each segment).

(4) Safe harbor No. 4. This safe harbor applies when an EBS licensee uses one or more of its channels for studio-to-transmitter links. The proponent may provide for one of the following options:

(i) The use of the LBS and/or UBS band for the point-to-point transmission of the EBS video or data (through superchannelization of the licensee’s contiguous LBS or UBS channels), provided the proponent commits to retune the existing point-to-point equipment to operate on those channels or to replace the existing equipment with new equipment tuned to operate on those channels and the proposal complies with the LBS/UBS technical and interference protection rules;

(ii) The migration of the EBS programming to the MBS by retuning the existing point-to-point equipment to operate in the MBS or replacing it with equipment tuned to operate in the MBS; or

(iii) The replacement of the point-to-point link with point-to-point equipment licensed to the EBS licensee in alternative spectrum, so long as the replacement facilities meet the definition of “comparable facilities” set out in §101.75(b) of this chapter.

§27.1233 Reimbursement costs of transitioning.

(a) Replacement downconverters. The proponent(s) must install at every eligible EBS receive site a downconverter designed to minimize the reception of signals from outside the MBS.

(1) An EBS receive site is eligible to be replaced if:

(i) A reception system was installed at that site on or before the date the EBS licensee receives its Pre-Transition Data Request (see §27.1231(d));

(ii) The reception system was installed by or at the direction of the EBS licensee;

(iii) The reception system receives EBS programming under §27.1203(b) and (c) or is located at a cable television system headend and the cable system relays educational or instructional programming for an EBS licensee; and

(iv) It is within the licensee’s 35-mile radius GSA.

(2) Replacement downconverters must meet the following minimum technical requirements:

(i) The downconverter’s input frequency range (the “in-band frequencies”) must be 2572 MHz to 2614 MHz and output frequency range must be 294 MHz to 336 MHz;

(ii) The downconversion process must not invert frequencies;

(iii) The nominal gain of the downconverter must be 32 dB, or greater;

(iv) The downconverter must have an out-of-band input 3rd order intercept point (input IP3) of at least +9 dBm, where out-of-band is defined as all frequencies below 2500 MHz and above 2705 MHz by at least 25 dB;

(v) The downconverter must have an out-of-band input 3rd order intercept point (input IP3) of at least +9 dBm, where out-of-band is defined as all frequencies below 2500 MHz and above 2705 MHz by at least 25 dB;

(vi) The downconverter must have a typical noise figure of no greater than 3.5 dB and a worst case noise figure of no greater than 4.5 dB across all in-band frequencies and across its entire intended operating temperature range;

(vii) The downconverter must not introduce a delta group delay of more than 20 nanoseconds for digital operations or 100 nanoseconds for analog operations.
operations over any individual six megahertz MBS channel.

(b) Migration of Video Programming and Data Transmission Track. (1) The proponent(s) must provide, at its cost, to each EBS licensee that intends to continue downstream high-power, high-site educational video programming or data transmission services, with one programming track on the MBS channels for each EBS video or data transmission track the licensee is transmitting on a simultaneous basis before the transition.

(i) To be eligible for migration, a program track must contain EBS programming that complies with §27.1203 (b) and (c).

(ii) The proponent(s) must pay only the costs of migrating programming tracks being transmitted on December 31, 2002 or within six months prior thereto.

(2) The proponent(s) must migrate each eligible programming track to spectrum in the MBS that will be licensed to the affected licensee at the conclusion of the transition.

(3) After the transition, the desired-to-undesired signal level ratio at each of the receive sites securing a replacement downconverter must satisfy the following criteria:

(i) Cochannel D/U Ratio. (A) When the post-transition desired signal is transmitted using analog modulation, the actual cochannel D/U ratio measured at the output of the reception antenna must be at least the lesser of 45 dB or the actual pre-transition D/U ratio less 1.5 dB.

(B) When the post-transition desired signal will be transmitted using digital modulation, the actual cochannel D/U ratio measured at the output of the reception antenna must be at least the lesser of 32 dB or the actual pre-transition D/U ratio less 1.5 dB.

(C) Where in implementing the Transition Plan, the proponent(s) deploys precise frequency offset in an analog system, the minimum cochannel D/U ratio is reduced to 38 dB, provided that the transmitters have or are upgraded pursuant to the Transition Plan to have the appropriate “plus,” “zero,” or “minus” 10,010 Hertz precision frequency offset with a ±3 Hertz (or better) stability.

(ii) Adjacent Channel D/U Ratio. The actual adjacent channel D/U must equal or exceed the lesser of 0 dB or the actual pre-transition D/U ratio. However, in the event that the receive site uses receivers or is upgraded by the proponent(s) as part of the Transition Plan to use receivers that can tolerate negative adjacent channel D/U ratios, the actual adjacent channel D/U ratio at such receive site must equal or exceed –10 dB. Provided that the receive site receiver is not upgraded and cannot tolerate –10 dB, the adjacent channel D/U ratio would be 0 dB.

§ 27.1235 Terminating existing operations in transitioned markets.

Licensees may discontinue operations during the transition.

§ 27.1235 Post-transition notification.

The proponent(s) must certify to the Commission at the Office of the Secretary, Washington, DC, that the Transition Plan has been fully implemented.

(a) The notification must provide the identification of the licensees that have transitioned to the band plan in §27.5(1)(2) and the specific frequencies on which each licensee is operating.

(b) For each station in the MBS, the notification must provide the following information:

(1) The station coordinates,
(2) The make and model of each antenna,
(3) The horizontal and vertical pattern of the antenna;
(4) EIRP of the main lobe;
(5) Orientation;
(6) Height of antenna center of radiation;
(7) Transmitter output power;
(8) All line and combiner losses.

(c) The proponent(s) must provide copies of the post-transition notice to all parties of the transition.

(d) A BRS or EBS licensee must file any objection to the post-transition notification within 30 days from the date the post-transition notification is placed on Public Notice.

§ 27.1236  Self-transitions.

(a) If an Initiation Plan is not filed on or before January 21, 2009 for a BTA, BRS and EBS licensees in that BTA may self-transition by relocating to their default channel locations specified in §27.5(i)(2) and complying with §§27.50(h), 27.53, 27.55 and 27.1221.

(b) To self-transition, a BRS or EBS licensee must:

(1) Notify the Secretary of the Commission on or before April 21, 2009 that it will self-transition (see paragraph (a) of this section);

(2) Send a Self-Transition Notification (see paragraph (c) of this section) to other BRS and EBS licensees in the BTA where the self-transitioning licensee’s GSA geographic center point is located that it is self-transitioning;

(3) Notify other licensees whose GSAs overlap with the self-transitioning licensee that it is self-transitioning.

(4) Address interference concerns with other BRS and EBS licensees in the BTA that are also self-transitioning;

(5) File a modification application with the Commission, and

(6) Complete the self-transition on or before October 20, 2010.

(c) Self-Transition Notification. The Self-Transition Notification must include the EBS licensee’s full name, postal mailing address, contact person, e-mail address, and phone and fax numbers. A self-transitioning EBS licensee must provide the following information to all BRS and EBS licensees located in the BTA where the self-transitioning licensee’s GSA geographic center point is located:

(1) The location (by street address and geographic coordinates) of the main station or booster serving each EBS receive site entitled to protection, including:

(1) The make and model of the antenna for that main station or booster, along with the radiation pattern if it is not included within the Commission’s database;

(2) The ground elevation, above mean sea level (AMSL), of the building or antenna supporting structure on which the main station or booster transmission antenna is installed;

(3) The height above ground level (AGL) of the center of radiation of the transmission antenna;

(4) Any mechanical beamtilt or electrical beamtilt not reflected in the radiation pattern provided or included within the Commission’s database;

(5) The bandwidth of each channel or subchannel, the emission type for each channel or subchannel, and the EIRP measured in the main lobe for each channel or subchannel; and

(6) The make and model of the receive antenna installed at that site, along with the radiation pattern if it is not included within the Commission’s database.

(2) The number and identification of EBS video programming or data transmission tracks the EBS licensee is entitled to receive in the MBS (see §27.1233(b)).


§ 27.1237  Pro rata allocation of transition costs.

(a) Self-transitions. EBS licensees that self-transition may seek reimbursement for their costs to replace eligible downconverters (see §27.1233(a)) and to migrate video programming and data transmission tracks (see §27.1233(b)) from BRS licensees and lessees, EBS lessees, and commercial EBS licensees in the BTA where the center point of the EBS licensee’s GSA is located. In addition, BRS licensees and lessees, EBS lessees, and commercial EBS licensees in the LBS or UBS must reimburse the self-transitioning EBS licensee a pro rata share of the eligible
§ 27.1238 Eligible costs.

(a) The costs listed in paragraphs (b) through (f) of this section are eligible costs.

(b) Pre-transition costs:

(1) Engineering/Consulting
(2) Evaluation of equipment;
(3) RX site identification;
(4) EBS Programming plan covering the BTA;
(5) Market Analysis (MHs per POP Study);
(6) RF study (interference analysis); and
(7) Transition Plan creation and support;
(8) Project management (may be sourced external);
(9) Filing fees;
(10) Legal fees;
(11) Site acquisition fees-contractor;
(12) Arbitrator fee;
(13) Transmission facility—analogue conversion costs:
(14) Transmitter upgrading or retuning;
(15) Combiner re-tuning or new;
(16) Power divider/circulator adjacent channel combiner hardware;
(17) STL/fiber relocation;
(18) Miscellaneous material costs (including cabling and connectors);
(19) Contract labor:
(i) Tower;
(ii) Building modifications;
(iii) Electrical/HVAC;
(iv) Mechanical;
(20) Engineering:
(i) Structural; and
(ii) Pathway Interference Analysis.
(21) Program Management (third party or internal costs to manage the BTA conversion); and
(22) Travel and Per Diem Cost.

(d) Transmission facility—digital conversion costs:

(1) New transmitter or retuning;
(2) Digital compression equipment-TX site (including encoders, controller, and software);
(3) Combiners-new or retune;
(4) Power divider/circulator adjacent channel combiner hardware;
(5) Cabinets, cabling, feedline and connectors;
(6) STL—fiber digital upgrade;
(7) Installation cost due to adding additional broadcast antenna (4 or more digital channels required);
(8) Contract labor:
(i) Tower;
(ii) Building modifications;
(iii) Electrical/HVAC; and
(iv) Mechanical.
(9) Proof of performance testing (may be contracted);
(10) Engineering:

R = \frac{L \times LP}{T \times TP}

(1) R equals the pro rata share;
(2) L equals the amount of spectrum used by a BRS licensee or lessee or commercial EBS licensee or lessee to provide a commercial service, either directly or through a lease agreement with an EBS or BRS licensee;
(3) T equals the total amount of spectrum licensed or leased for commercial purposes in the BTA;
(4) LP equals the population of the geographic service area or BTA served by the BRS licensee or lessee or commercial EBS licensee or lessee based on the data in the 2000 United States Census; and
(5) TP equals the population of the BTA based on the data in the 2000 United States Census.

(JFR 35193, June 19, 2006)
§ 27.1239  Reimbursement obligation.

(a) A proponent may request reimbursement from BRS licensees and lessees, EBS lessees, and commercial EBS licensees in a BTA after the Transition Notification has been filed with the Secretary of the Commission and the proponent has accumulated the documentation to substantiate the full and accurate cost of the transition. A self-transitioning licensee may request reimbursement from BRS licensees and lessees, EBS lessees, and commercial EBS licensees in a BTA where its GSA geographic center point is located after it has completed the self-transition and has filed a modification application with the Commission and has accumulated the documentation to substantiate the full and accurate cost of the transition.

(b) If a license is assigned, transferred, partitioned, or disaggregated, all parties to the assignment, transfer, disaggregation, or partition are jointly and severally liable for paying the reimbursement obligation until that obligation is paid.

[71 FR 35193, June 19, 2006]

§ 27.1250 Transition of the 2150–2160/62 MHz band from the Broadband Radio Service to the Advanced Wireless Service.

The 2150–2160/62 MHz band has been allocated for use by the Advanced Wireless Service (AWS). The rules in this section provide for a transition period during which AWS licensees may relocate existing Broadband Radio Service (BRS) licensees using these frequencies to their assigned frequencies in the 2496–2690 MHz band or other media.

(a) AWS licensees and BRS licensees shall engage in mandatory negotiations for the purpose of agreeing to terms under which the BRS licensees would:

1. Relocate their operations to other frequency bands or other media; or alternatively

2. Accept a sharing arrangement with the AWS licensee that may result in an otherwise impermissible level of interference to the BRS operations.

(b) If no agreement is reached during the mandatory negotiation period, an AWS licensee may initiate involuntary relocation procedures. Under involuntary relocation, the incumbent is required to relocate, provided that the AWS licensee meets the conditions of §27.1252.

(c) Relocation of BRS licensees by AWS licensees shall be subject to a three-year mandatory negotiation period. BRS licensees may suspend the running of the three-year negotiation period for up to one year if the BRS licensee cannot be relocated to comparable facilities at the time the AWS licensee seeks entry into the band.
§ 27.1251 Mandatory Negotiations.

(a) Once mandatory negotiations have begun, a BRS licensee may not refuse to negotiate and all parties are required to negotiate in good faith. Good faith requires each party to provide information to the other that is reasonably necessary to facilitate the relocation process. The BRS licensee is required to cooperate with an AWS licensee’s request to provide access to the facilities to be relocated, other than the BRS customer location, so that an independent third party can examine the BRS system and prepare an appraisal of the costs to relocate the incumbent. In evaluating claims that a party has not negotiated in good faith, the FCC will consider, *inter alia*, the following factors:

1. Whether the AWS licensee has made a bona fide offer to relocate the BRS licensee to comparable facilities in accordance with §27.1252(b);

2. If the BRS licensee has demanded a premium, the type of premium requested (e.g., whether the premium is directly related to relocation, such as analog-to-digital conversions, versus other types of premiums), and whether the value of the premium as compared to the cost of providing comparable facilities is disproportionate (i.e., whether there is a lack of proportion or relation between the two);

3. What steps the parties have taken to determine the actual cost of relocation to comparable facilities;

(b) Any party alleging a violation of our good faith requirement must attach an independent estimate of the relocation costs in question to any documentation filed with the Commission in support of its claim. An independent cost estimate must include a specification for the comparable facility and a statement of the costs associated with providing that facility to the incumbent licensee.

(c) Mandatory negotiations will commence for each BRS licensee when the AWS licensee informs the BRS licensee in writing of its desire to negotiate. Mandatory negotiations will be conducted with the goal of providing the BRS licensee with comparable facilities, defined as facilities possessing the following characteristics:

1. *Throughput*. Communications throughput is the amount of information transferred within a system in a given amount of time. System is defined as a base station and all end user units served by that base station. If analog facilities are being replaced with analog, comparable facilities may provide a comparable number of channels. If digital facilities are being replaced with digital, comparable facilities provide equivalent data loading bits per second (bps).

2. *Reliability*. System reliability is the degree to which information is transferred accurately within a system. Comparable facilities provide reliability equal to the overall reliability of the BRS system. For digital systems, reliability is measured by the percent of time the bit error rate (BER) exceeds a desired value, and for analog or digital video transmission, it is measured by whether the end-to-end transmission delay is within the required delay bound. If an analog system is replaced with a digital system, only the resulting frequency response, harmonic distortion, signal-to-noise ratio and its reliability will be considered in determining comparable reliability.

3. *Operating Costs*. Operating costs are the cost to operate and maintain the BRS system. AWS licensees would compensate BRS licensees for any increased recurring costs associated with the replacement facilities (e.g., additional rental payments, and increased utility fees) for five years after relocation. AWS licensees could satisfy this obligation by making a lump-sum payment based on present value using current interest rates. Additionally, the maintenance costs to the BRS licensee would be equivalent to the replaced system in order for the replacement system to be comparable.

(d) AWS licensees are responsible for the relocation costs of end user units served by the BRS base station that is being relocated. If a lessee is operating under a BRS license, the BRS licensee may rely on the throughput, reliability, and operating costs of facilities...
§ 27.1252 Involuntary Relocation Procedures.

(a) If no agreement is reached during the mandatory negotiation period, an AWS licensee may initiate involuntary relocation procedures under the Commission’s rules. AWS licensees are obligated to pay to relocate BRS systems to which the AWS system poses an interference problem. Under involuntary relocation, the BRS licensee is required to relocate, provided that the AWS licensee:

(1) Guarantees payment of relocation costs, including all engineering, equipment, site and FCC fees, as well as any legitimate and prudent transaction expenses incurred by the BRS licensee that are directly attributable to an involuntary relocation, subject to a cap of two percent of the “hard” costs involved. Hard costs are defined as the actual costs associated with providing a replacement system, such as equipment and engineering expenses. There is no cap on the actual costs of relocation. AWS licensees are not required to pay BRS licensees for internal resources devoted to the relocation process. AWS licensees are not required to pay for transaction costs incurred by BRS licensees during the mandatory period once the involuntary period is initiated, or for fees that cannot be legitimately tied to the provision of comparable facilities; and

(2) Completes all activities necessary for implementing the replacement facilities, including engineering and cost analysis of the relocation procedure and, if radio facilities are used, identifying and obtaining, on the incumbents’ behalf, new microwave frequencies and frequency coordination.

(b) Comparable facilities. The replacement system provided to an incumbent during an involuntary relocation must be at least equivalent to the existing BRS system with respect to the following three factors:

(1) Throughput. Communications throughput is the amount of information transferred within a system in a given amount of time. System is defined as a base station and all end user units served by that base station. If analog facilities are being replaced with analog, the AWS licensee is required to provide the BRS licensee with a comparable number of channels. If digital facilities are being replaced with digital, the AWS licensee must provide the BRS licensee with equivalent data loading bits per second (bps). AWS licensees must provide BRS licensees with enough throughput to satisfy the BRS licensee’s system use at the time of relocation, not match the total capacity of the BRS system.

(2) Reliability. System reliability is the degree to which information is transferred accurately within a system. AWS licensees must provide BRS licensees with reliability equal to the overall reliability of their system. For digital data systems, reliability is measured by the percent of time the bit error rate (BER) exceeds a desired value, and for analog or digital video transmissions, it is measured by whether the end-to-end transmission delay is within the required delay bound.

(3) Operating costs. Operating costs are the cost to operate and maintain the BRS system. AWS licensees must compensate BRS licensees for any increased recurring costs associated with the replacement facilities (e.g., additional rental payments, increased utility fees) for five years after relocation. AWS licensees may satisfy this obligation by making a lump-sum payment based on present value using current interest rates. Additionally, the maintenance costs to the BRS licensee must be equivalent to the replaced system in order for the replacement system to be considered comparable.

(c) AWS licensees are responsible for the relocation costs of end user units served by the BRS base station that is being relocated. If a lessee is operating under a BRS license, the AWS licensee shall on the throughput, reliability, and operating costs of facilities in use by a lessee at the time of relocation in determining comparable facilities for involuntary relocation purposes.

(d) Twelve-month trial period. If, within one year after the relocation to new facilities, the BRS licensee demonstrates that the new facilities are
not comparable to the former facilities, the AWS licensee must remedy the defects or pay to relocate the BRS licensee to one of the following: Its former or equivalent 2 GHz channels, another comparable frequency band, a land-line system, or any other facility that satisfies the requirements specified in paragraph (b) of this section. This trial period commences on the date that the BRS licensee begins full operation of the replacement system. If the BRS licensee has retained its 2 GHz authorization during the trial period, it must return the license to the Commission at the end of the twelve months.

\[\text{§ 27.1253 Sunset Provisions.} \]

(a) BRS licensees will maintain primary status in the 2150–2160/62 MHz band unless and until an AWS licensee requires use of the spectrum. AWS licensees are not required to pay relocation costs after the relocation rules sunset (i.e., fifteen years from the date the first AWS license is issued in the band). Once the relocation rules sunset, an AWS licensee may require the incumbent to cease operations, provided that the AWS licensee intends to turn on a system within interference range of the incumbent, as determined by §27.1255. AWS licensee notification to the affected BRS licensee must be in writing and must provide the incumbent with no less than six months to vacate the spectrum. After the six-month notice period has expired, the BRS licensee must turn its license back into the Commission, unless the parties have entered into an agreement which allows the incumbent to continue to operate on a mutually agreed upon basis.

(b) If the parties cannot agree on a schedule or an alternative arrangement, requests for extension will be accepted and reviewed on a case-by-case basis. The Commission will grant such extensions only if the incumbent can demonstrate that:

1. It cannot relocate within the six-month period (e.g., because no alternative spectrum or other reasonable option is available); and
2. The public interest would be harmed if the incumbent is forced to terminate operations.

\[\text{§ 27.1254 Eligibility.} \]

(a) BRS licensees with primary status in the 2150–2162 MHz band as of June 23, 2006, will be eligible for relocation insofar as they have facilities that are constructed and in use as of this date.

(b) Future Licensing and Modifications. After June 23, 2006, all major modifications to existing BRS systems in use in the 2150–2160/62 MHz band will be authorized on a secondary basis to AWS systems, unless the incumbent affirmatively justifies primary status and the incumbent BRS licensee establishes that the modification would not add to the relocation costs of AWS licensees. Major modifications include the following:

1. Additions of new transmit sites or base stations made after June 23, 2006;
2. Changes to existing facilities made after June 23, 2006, that would increase the size or coverage of the service area, or interference potential, and that would also increase the throughput of an existing system (e.g., sector splits in the antenna system). Modifications to fully utilize the existing throughput of existing facilities (e.g., to add customers) will not be considered major modifications even if such changes increase the size or coverage of the service area, or interference potential.

\[\text{§ 27.1255 Relocation Criteria for Broadband Radio Service Licensees in the 2150–2160/62 MHz band.} \]

(a) An AWS licensee in the 2150–2160/62 MHz band, prior to initiating operations from any base or fixed station that is co-channel to the 2150–2160/62 MHz band, must relocate any incumbent BRS system that is within the line of sight of the AWS licensee’s base or fixed station. For purposes of this section, a determination of whether an AWS facility is within the line of sight of a BRS system will be made as follows:

1. For a BRS system using the 2150–2160/62 MHz band exclusively to provide one-way transmissions to subscribers, the AWS licensee will determine whether there is an unobstructed signal path (line of sight) to the incumbent licensee’s geographic service area (GSA), based on the following criteria:
§ 27.1301 Purpose and scope.

The purpose of this subpart, in conjunction with subpart AA of part 90, is to establish rules and procedures relating to the 700 MHz Public/Private Partnership entered between the winning bidder for the Upper 700 MHz D Block license, the Upper 700 MHz D Block licensee, the Network Assets Holder, the Operating Company, the Public Safety Broadband Licensee, and other related entities as the Commission may require or allow. Pursuant to this partnership, the Upper 700 MHz D Block licensee and the Operating Company will be responsible for constructing and operating a nationwide, shared interoperable wireless broadband network used to provide a commercial service and a broadband network service for public safety entities. The shared network assets will be held by the Network Assets Holder and the Shared Wireless Broadband Network will operate on both the commercial spectrum licensed to the Upper 700 MHz D Block licensee and the public safety broadband spectrum licensed to the Public Safety Broadband Licensee. This subpart of the part 27 rules sets forth specific provisions relating to the Upper 700 MHz D Block license, the Upper 700 MHz D Block licensee, and other related entities as the Commission may require or allow with respect to the 700 MHz Public/Private Partnership. Subpart AA of the part 90 rules sets forth related provisions applicable to the Public Safety Broadband License and the Public Safety Broadband Licensee with respect to the 700 MHz Public/Private Partnership.

§ 27.1303 Upper 700 MHz D Block license conditions.

(a) The winning bidder at auction of the license for Block D in the 758-763 MHz and 788-793 MHz bands will be granted the Upper 700 MHz D Block license only after this winning bidder has entered, with the Public Safety Broadband Licensee and other related entities as the Commission may require or allow, into the Network Sharing Agreement (NSA) that has been approved by the Commission, has executed such other agreements as the Commission may require or allow, and has met all other necessary conditions pertaining to the award of this license.

(b) The Upper 700 MHz D Block licensee shall comply with all of the applicable requirements set forth in this part and subpart, including the construction requirements set forth in §27.14, and shall comply with the terms of the NSA and such other agreements as the Commission may require or allow.
§ 27.1307 Spectrum use in the network.

(a) Spectrum use. The shared wireless broadband network developed by the 700 MHz Public/Private Partnership will operate using spectrum associated with the Upper 700 MHz D Block license in the 758–763 MHz and 788–793 MHz bands and the Public Safety Broadband License in the adjacent 763–768 MHz and 793–798 MHz bands.

(b) Access to spectrum in the 758–763 MHz and 788–793 MHz bands. The Upper 700 MHz D Block licensee shall lease the spectrum rights associated with the Upper 700 MHz D Block license to the Operating Company, pursuant to the Commission’s spectrum leasing rules. The spectrum leasing arrangement shall be a long-term de facto transfer leasing arrangement for the entire remaining term of the Upper 700 MHz D Block license. If the Upper 700 MHz D Block license is renewed, the parties will be required to renew this spectrum leasing arrangement as well.

(c) Access to spectrum in the 763–768 MHz and 793–798 MHz bands. The Public Safety Broadband Licensee, which holds the Public Safety Broadband License pursuant to part 90 rules, must lease the spectrum usage rights associated with this license, pursuant to a spectrum manager leasing arrangement set forth in part 1 subpart X, to the Upper 700 MHz D Block licensee and the Operating Company for the entire remaining term of the Public Safety Broadband License to effectuate the 700 MHz Public/Private Partnership. The Upper 700 MHz D Block licensee and the Operating Company are the only entities that are eligible to lease the spectrum usage rights associated with the Public Safety Broadband License to operate on the 763–768 and 793–
§ 27.1308 Organization and structure of the 700 MHz public/private partnership.

(a) The Upper 700 MHz D Block licensee, the Network Assets Holder and such other related entities as the Commission may require or allow shall be formed by the winning bidder of the Upper 700 MHz D Block license. The Upper 700 MHz D Block licensee, the Network Assets Holder, and related entities as the Commission may require or allow shall be Special Purpose Bankruptcy Remote Entities formed to hold the license, to hold the shared network assets, or for such other purpose as the Commission may require or allow. The winning bidder of the Upper 700 MHz D Block license shall also form the Operating Company, which must also be a Special Purpose Bankruptcy Remote Entity. Upon issuance of the Upper 700 MHz D Block license, the winning bidder will assign all of its rights and obligations under the NSA to the Upper 700 MHz D Block licensee, Network Assets Holder, the Operating Company, and any other related entities that the Commission may require or allow.

(b) The Upper 700 MHz D Block licensee and other related entities as the Commission may require or allow shall have the obligation to build out the Shared Wireless Broadband Network, as provided for in the NSA or otherwise as authorized by the Commission.

§ 27.1310 Network sharing agreement.

The relationship between the Upper 700 MHz D Block licensee, the Public Safety Broadband Licensee, and related entities as the Commission may require or allow will be governed by the Network Sharing Agreement (NSA) and such other separate agreements as the Commission may require or allow that are negotiated and entered into between the parties. The NSA must, at a minimum, include the following terms:

(a) All of the substantive rights and obligations of the parties relating to the NSA, as established by the Commission concerning the 700 MHz Public/Private Partnership.

(b) Network specifications that comply with §27.1305.

(c) The definition of “emergency” for purposes of emergency priority access.

(d) All service fees to be imposed for services to public safety, including fees for normal network service and fees for priority access to the D Block spectrum in an emergency.

(e) A detailed build-out schedule consistent with §27.1327, including coverage of major highways and interstates, as well as incorporated communities with a population in excess of 3,000.

(f) The right of the Public Safety Broadband Licensee to determine and approve the specifications of public safety equipment used on the network and the right to purchase its own subscriber equipment from any vendor it chooses, to the extent such specifications and equipment are consistent with reasonable network control requirements established in the NSA.

(g) The Upper 700 MHz D Block licensee must offer at least one handset suitable for public safety use that includes a seamlessly integrated satellite solution pursuant to the terms, conditions, and timeframes set forth in the NSA.
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§ 27.1315  Establishment, execution, and application of the network sharing agreement.

The following requirements and processes relate to the establishment, execution, and application of the NSA:

(a) Approval of NSA as pre-condition for granting the Upper 700 MHz D Block License. The Commission shall not grant the Upper 700 MHz D Block license until the winning bidder for the Upper 700 MHz D Block license has negotiated the NSA and such other agreements as the Commission may require or allow with the Public Safety Broadband Licensee, and the NSA and related agreements or documents have been approved by the Commission and executed by the required parties. Parties to the NSA must also include the Upper 700 MHz D Block licensee, the Network Assets Holder, and the Operating Company, as these entities are defined in §27.4.

(b) Requirement of negotiation. Negotiation of an NSA between the winning bidder for the Upper 700 MHz D Block license and the Public Safety Broadband Licensee must commence by the date the winning bidder files its long form application or the date on which the Commission designates the Public Safety Broadband Licensee, whichever is later, and must conclude within six months of that date. Parties to this negotiation are required to negotiate in good faith. Two members of the Commission staff, one from the Wireless Telecommunications Bureau and one from the Public Safety and Homeland Security Bureau, shall be present at all stages of the negotiation as neutral observers.

(c) Reporting requirements. The winning bidder for the Upper 700 MHz D Block license must file a report with the Commission within 10 business days of the commencement of the negotiation period certifying that active and good faith negotiations have begun, providing the date on which they commenced, and providing a schedule of the initial dates on which the parties intend to meet for active negotiations, covering at a minimum the first 30-day period. Beginning three months from the triggering of the six-month negotiation period, the winning bidder for the Upper 700 MHz D Block license and the Public Safety Broadband Licensee must jointly provide detailed reports, on a monthly basis and subject to a request for confidential treatment, on the progress of the negotiations throughout the remainder of the negotiations. These reports must include descriptions of all material issues that the parties have yet to resolve.

(d) Submission of final agreement. As soon as the parties have reached an agreement on all the terms of the NSA, related agreements or documents, and such other agreements as the Commission may require or allow, but not later than five business days after the
six-month period for negotiation has expired, they must submit the NSA together with all agreements and related documents referenced in the NSA, for review and approval by the full Commission. The Commission may approve the NSA in its entirety, approve with modifications, or require the parties to address additional terms or re-draft existing terms within a specified timeframe. After the NSA is approved, the parties must execute the NSA and such other agreements as the Commission may require or allow, and submit executed copies to the Commission within 10 business days of approval.

(e) Submission of disputed issues. If the parties have not reached agreement on all terms of the NSA and related agreements by the end of the six-month period, they must notify the Commission not later than five business days after the expiration of the six-month period of the terms on which they have agreed, the nature of the remaining issues, each party’s position on each issue, whether additional negotiation is likely to produce an agreement, and, if so, a proposed deadline for reaching agreement on the NSA. Authority is delegated jointly to the Chiefs of the Wireless Telecommunications Bureau and the Public Safety and Homeland Security Bureau to resolve any remaining disputes.

(f) Resolution of disputes. Actions to resolve disputes may include, but are not limited to:

(1) Granting additional time for negotiation;
(2) Issuing a decision on the disputed issues and requiring the submission of a draft agreement consistent with the decision;
(3) Directing the parties to further brief the remaining issues in full for immediate Commission decision; and/or
(4) Immediate denial of the long-form application filed by the winning bidder for the Upper 700 MHz D Block license.

(g) Default by winning bidder for Upper 700 MHz D Block license. If the winning bidder for the Upper 700 MHz D Block fails to comply with negotiation or dispute resolution requirements or fails to execute a Commission-approved NSA, its long form application will be denied. If the long form application of the winning bidder of the Upper 700 MHz D Block license is denied for any reason, including as a consequence of an action taken pursuant to paragraphs (e) and (f) of this section, it will be deemed to have defaulted under §1.2109(c) of this chapter, and will be liable for the default payment specified in §1.2104(g) of this chapter.

§27.1320 Failure to comply with the NSA or the Commission’s rules.

(a) Failure to comply with the Commission’s rules or the terms of the NSA may warrant cancelling the Upper 700 MHz D Block license and awarding it to a new licensee. In the event the Upper 700 MHz D Block license is cancelled, the Commission shall issue an order cancelling the license and announcing the process for awarding rights to the spectrum to a new licensee. Pending the award to a new licensee, the Commission shall issue the Operating Company a special temporary authority to prevent interruption of services provided over the Shared Wireless Broadband Network. The Operating Company must continue to provide both commercial service and services to public safety during the transition. Upon grant of a new license, the Commission shall establish the terms and timing under which the special temporary authorization shall be cancelled and the new Upper 700 MHz D Block licensee assumes the construction and operation of the network.

(b) If the Commission cancels or terminates the Upper 700 MHz D Block license, a fair market valuation of the shared wireless broadband network assets shall be performed immediately, pursuant to the fair market valuation methodology set forth in the NSA. In the event that the Upper 700 MHz D Block license is awarded to a new entity, the Public Safety Broadband Licensee’s option to purchase the network and all network assets if and whenever the Upper 700 MHz D Block license is cancelled or terminated and its right of first refusal to purchase the network assets if and whenever such assets are otherwise to be sold shall be assigned to the new Upper 700 MHz D...
§ 27.1325 Resolution of disputes after grant of the upper 700 MHz D block license.

(a) The Upper 700 MHz D Block licensee, the Operating Company, the Network Assets Holder and the Public Safety Broadband Licensee may at any time bring a complaint to the Commission based on a claim that another party to the NSA has deviated from the terms of the NSA, or a petition for a declaratory ruling to resolve the proper interpretation of an NSA term or provision. The Commission also may at any time, on its own motion, determine to address any material breach or interpret any NSA term or provision.

(b) The Commission shall have primary responsibility and jurisdiction for adjudicating disputes that arise following execution of the NSA. The Commission may, however, require the parties to first seek a settlement to the dispute or authorize the parties to resolve the dispute through litigation or other means. Breach of license terms, the NSA, or the Commission’s rules may result in cancellation of the Upper 700 MHz D Block license, the Public Safety Broadband License, or both.

(c) The Chiefs of the Public Safety and Homeland Security Bureau and the Wireless Telecommunications Bureau are delegated joint responsibility for adjudicating disputes.

§ 27.1327 Construction requirements; criteria for renewal.

(a) The Upper 700 MHz D Block licensee shall comply with the applicable construction requirements of §27.14.

(b) The Upper 700 MHz D Block licensee shall comply with the applicable procedures and criteria for license renewal of §27.14.

§ 27.1330 Local public safety build-out and operation.

(a) The Upper 700 MHz D Block licensee and the Operating Company through its lease arrangements shall, except in the two limited circumstances set forth herein, have the exclusive right to build and operate the Shared Wireless Broadband Network.

(b) Rights to early build-out in areas with a build-out commitment. In an area where the Upper 700 MHz D Block licensee has committed, in the NSA, to build out by a certain date, a public safety entity may, with the pre-approval of the Public Safety Broadband Licensee and subject to the requirements set forth herein, construct a broadband network in that area at its own expense so long as the network is capable of operating on the Shared Wireless Broadband Network and meets all the requirements and specifications of the network required under the NSA.

(1) Options for early build-out in areas with a build-out commitment. In order to obtain authorization to construct a broadband network as set forth in paragraph (b) of this section, the requesting public safety entity must agree to one of the following:

(i) To, on its own, or through the Public Safety Broadband Licensee acting on its behalf, construct the network at its own expense, and upon completion of construction transfer the network to the Upper 700 MHz D Block licensee, which shall then integrate that network into the Shared Wireless Broadband Network constructed pursuant to the NSA; or

(ii) To, in agreement with the Upper 700 MHz D Block licensee, provide all funds necessary for the Upper 700 MHz D Block licensee to complete the early construction of the network, including any and all additional resource and personnel costs, allowing the Upper 700 MHz D Block licensee at all times to own, operate, and manage the network as an integrated part of the Shared Wireless Broadband Network.

(2) Negotiation of amendment to NSA. Under either early build out option set forth in paragraph (b)(1) of this section, the Public Safety Broadband Licensee, the Upper 700 MHz D Block licensee, and the public safety entity must, prior to any construction, negotiate an amendment to the NSA regarding this part of the network, specifying ownership rights, fees, and other terms, which may be distinct from the analogous terms governing the Shared Wireless Broadband Network, and such amendment must be approved by the Commission.
§ 27.1330

(i) Such amendment must provide the terms under which the Upper 700 MHz D Block licensee shall receive full ownership rights and shall compensate the public safety entity (or the Public Safety Broadband Licensee, where appropriate) for the construction of the network; and shall, absent agreement to the contrary, provide for such transfer and compensation to occur prior to the scheduled build-out date for such network in the NSA.

(ii) Any right to compensation from the Upper 700 MHz D Block licensee related to such early build-out shall be limited to the cost that would have been incurred had the Upper 700 MHz D Block licensee constructed the network itself in accordance with the original terms and specifications of the NSA, as reasonably determined by the parties and negotiated as part of the NSA amendment required in paragraph (b)(2) of this section. Such costs shall not include costs attributable solely to advancing the date of construction or otherwise expediting the construction process.

(3) Operations. The public safety entity may not commence operations on the network until ownership of the network has been transferred to the Upper 700 MHz D Block licensee. Further, no operations shall be allowed except those authorized and conducted pursuant to the authority of the Public Safety Broadband Licensee.

(4) Attribution of early build-out to national benchmarks. Upon completion of construction, transfer of ownership to the Upper 700 MHz D Block licensee, and compensation as required herein, if applicable, the Upper 700 MHz D Block licensee may include the network constructed pursuant to the early build-out provisions herein for purposes of determining whether it has met its national build-out benchmarks and the build-out requirements of the NSA.

(5) Rights to build out and operate in areas without a build-out commitment. In areas for which the NSA does not require the Upper 700 MHz D Block licensee to build out the Shared Wireless Broadband Network, a public safety entity may build out and operate a separate, exclusive network in the 700 MHz public safety broadband spectrum at any time, provided the public safety entity has received the written approval of the Public Safety Broadband Licensee and operates its independent network pursuant to a spectrum leasing arrangement into which the public safety entity has entered with the Public Safety Broadband Licensee.

(ii) Should the Upper 700 MHz D Block licensee, within 30 calendar days from receipt of notice of the public safety entity’s intent to construct in that area, certify in writing to the Public Safety Broadband Licensee that it will build out the network in the area within a reasonable time of the anticipated build-out date(s), as determined by the Public Safety Broadband Licensee, the Public Safety Broadband Licensee shall not allow the public safety entity to build and operate its own separate exclusive network in that area, provided that the Upper 700 MHz D Block licensee and the Public Safety Broadband Licensee execute an amendment to the NSA indicating the Upper 700 MHz D Block licensee’s commitment to build the network in that area. Such commitment shall become enforceable against the Upper 700 MHz D Block licensee as part of its overall build-out requirements.

(iii) If the Upper 700 MHz D Block licensee does not exercise its option to commit to build out the network in the requested area within 30 calendar days of receipt of notice of the public safety entity’s intent to construct in such area, the Public Safety Broadband Licensee and the public safety entity may proceed with a spectrum leasing arrangement, which must be filed with the Commission prior to the public safety entity commencing any operations. The spectrum leasing arrangement must take the form of a spectrum manager leasing arrangement under
the rules specified in §1.9020 of this chapter, and incorporate the following conditions:

(A) The network must provide broadband operations;

(B) The network must be fully interoperable with the Shared Wireless Broadband Network;

(C) The network must be available for use by any public safety entity in the area;

(D) The network must satisfy any other terms or conditions required by the Public Safety Broadband Licensee; and

(E) The public safety entity must construct and place into operation its network within one year of the effective date of the spectrum manager leasing arrangement. If the public safety entity fails to place the network into operation within one year, the Public Safety Broadband Licensee shall terminate the spectrum leasing arrangement pursuant to §1.9020(h)(3) of this chapter. The public safety entity may also seek extended implementation authority from the Commission pursuant to the requirements of §90.629 of this chapter.

(6) Except as set forth herein, the separate network is not required to meet the other specifications of the Shared Wireless Broadband Network. Absent agreement of the public safety entity, the Public Safety Broadband Licensee, and the Upper 700 MHz D Block Licensee, the separate network may not operate using any spectrum associated with the Upper 700 MHz D Block license.

(7) The Public Safety Broadband Licensee must file with the Commission any spectrum manager leasing arrangement as specified in §1.9020(e) of this chapter; such filing shall identify the public safety entity leasing the spectrum, the particular areas of spectrum leased as part of this build-out option, and the specific network infrastructure and equipment deployed on such leased spectrum.

§ 27.1333 Geographic partitioning, spectrum disaggregation, license assignment, and transfer.

(a) The 700 MHz Upper D Block license may not be partitioned or disaggregated.

(b) The 700 MHz Upper D Block licensee will be permitted to assign or transfer its license subject to Commission review and prior approval. The Upper 700 MHz D Block license assignment or transfer applications are precluded from the immediate approval procedures as specified in §1.948(j)(2).

[72 FR 48854, Aug. 24, 2007, as amended at 72 FR 67577, Nov. 29, 2007]

§ 27.1335 Prohibition on discontinuance of public safety operations.

The Upper 700 MHz D Block licensee, the Operating Company and the Network Assets Holder are prohibited from discontinuing or degrading the broadband network service provided to the Public Safety Broadband Licensee or to public safety entities unless either at the request of the public safety entity or entities in question or with the pre-approval of the Commission. The Upper 700 MHz D Block licensee shall notify the affected public safety entity or entities and the Public Safety Broadband Licensee at least 30 days prior to any unrequested discontinuance or degradation of network service.

§ 27.1340 Reporting obligations.

(a) The Upper 700 MHz D Block licensee and the Public Safety Broadband Licensee shall jointly file quarterly reports with the Commission. These reports shall include audited financial statements, how the specific requirements of public safety are being met, detailed information on the areas where broadband service has been deployed, which public safety entities are using the broadband network in each area of operation, what types of applications are in use in each area of operation, and the number of declared emergencies in each area of operation.

(b) The Upper 700 MHz D Block licensee and Public Safety Broadband Licensee have joint responsibility to register the base station locations with the Commission, providing basic technical information, including geographic location.
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