#### 929 and 931 MHz Paging Service Fact Sheet

# Auction #26 929 and 931 MHz Paging Spectrum Upper Bands Auction

Date	To begin February 24, 2000 (See Public Notice DA99-1591)
Licenses	This auction offers 2,499 licenses in 51 Major Economic Areas ("MEAs"). Offered are: 612 "929 MHz licenses" (twelve in each MEA); and 1887 "931 MHz licenses" (thirty-seven in each MEA).
Spectrum	929 - 930 MHz Band 931 - 932 MHz Band
Bandwidth	929 licenses: 20 KHz per license 931 licenses: 20 KHz per license
Bidding Credits	A bidder with average gross revenues not to exceed \$15 million for the preceding three years may receive a 25 percent discount on its winning bids for the licenses.  A bidder with average gross revenues not to exceed \$3 million for the preceding three years may receive a 35 percent discount on its winning bids for the licenses.

The 929 and 931 MHz Paging spectrum auction will use simultaneous multiple round competitive bidding. Bidding will be permitted only from remote locations, either electronically (by computer) or telephonically. General information and associated licensing parameters are listed below.

#### Number of licenses being offered

The Federal Communications Commission ("FCC" or "Commission") will hold an auction for 2,499 licenses, 612 - 929 MHz Licenses and 1,887 - 931 MHz licenses.

#### **Bidder Eligibility and Small Business Provisions**

#### A. General Eligibility Criteria

As described above, this auction offers 2,499 licensees in the 929 and 931 MHz bands. Our goal in adopting small business provisions is to promote and facilitate the participation of small businesses in the 929 and 931 MHz Paging Auction and in the

provision of this and other commercial mobile radio services. General eligibility to provide the 929 and 931 MHz Paging service, subject to any restrictions outlined in the Commission's rules, is afforded to entities that are not precluded under 47 C.F.R. §§ 22.217 and 22.223.

#### (1) Determination of Revenues

For purposes of determining which entities qualify as very small businesses or small businesses, the Commission will consider the gross revenues of the applicant, its controlling interests, and the affiliates of the applicant and its controlling interests. Therefore, the gross revenues of all of the above entities must be disclosed *separately and in the aggregate* as Exhibit C to an applicant's FCC Form 175. The Commission does not impose specific equity requirements on controlling interests. Once principals or entities with a controlling interest are determined, only the revenues of those principals or entities will be counted in determining small business eligibility. The term "control" includes both *de facto* and *de jure* control of the applicant. Typically, *ownership of at least 50.1 percent of an entity's voting stock evidences de jure control. De facto* control is determined on a case-by-case basis. The following are some common indicia of control:

- the entity constitutes or appoints more than 50 percent of the board of directors or management committee;
- the entity has authority to appoint, promote, demote, and fire senior executives that control the day-to-day activities of the licensee; or
- the entity plays an integral role in management decisions.

#### (2) Small or Very Small Business Consortia

A consortium of small businesses, or very small businesses is a conglomerate organization formed as a joint venture between or among mutually independent business firms, each of which *individually* satisfies the definition of small or very small business in Section 22.223. Thus, each consortium member must disclose its gross revenues along with those of its affiliates, controlling interests, and controlling interests' affiliates. We note that although the gross revenues of the consortium members will not be aggregated for purposes of determining eligibility for small or very small business credits, this information must be provided to ensure that each individual consortium member qualifies for any bidding credit awarded to the consortium.

For further guidance on the issue of control, see the Commission's affiliation rule at 47 C.F.R. § 1.2110(b)(4). *See also Ellis Thompson Corp.*, 76 Rad. Reg. 2d (P & F) 1125, 1127-28 (1994), in which the Commission identified the following factors used to determine control of a business: (1) use of facilities and equipment; (2) control of day-to-day operations; (3) control of policy decisions; (4) personnel responsibilities; (5) control of financial obligations; and (6) receipt of monies and profits; *Intermountain Microwave*, 24 Rad. Reg. (P & F) 983 (1963), and Application of Baker Creek Communications, LP, For Authority to Construct *and Operate Local Multipoint Distribution Services in Multiple Basic Trading Areas, Memorandum Opinion and Order*, 13 FCC Rcd 18,709 (rel. September 23, 1998).

#### (3) Application Showing

Applicants should note that they will be required to file supporting documentation as Exhibit C to their FCC Form 175 short form applications to establish that they satisfy the eligibility requirements to qualify as a small business or very small business (or consortiums of small or very small businesses) for this auction. Specifically, for the 929 and 931 MHz Paging Auction, applicants applying to bid as small or very small businesses (or consortiums of very small, or small businesses) will be required to file as Exhibit C to their FCC Form 175 short form applications, all information required under Sections 1.2105(a) and Section 1.2112(a). In addition, these applicants must disclose, separately and in the aggregate, the gross revenues for the preceding three years of each of the following: (1) the applicant; (2) the applicant's affiliates; (3) the applicant's controlling interests; and (4) the affiliates of the applicant's controlling interests. Certification that the average gross revenues for the preceding three years do not exceed the applicable limit is not sufficient. A statement of the total gross revenues for the preceding three years is also insufficient. The applicant must provide separately for itself, its affiliates, and its controlling interests, a schedule of gross revenues for each of the preceding three years, as well as a statement of total average gross revenues for the three-year period. If the applicant is applying as a consortium of very small or small businesses, this information must be provided for each consortium member.

#### **B.** Bidding Credits

Applicants that qualify under the definitions of small business, and very small business (or consortia of very small, or small businesses as are set forth in 47 C.F.R. § 22.223, are eligible for a bidding credit that represents the amount by which a bidder's winning bids are discounted.<sup>3</sup> The size of a 929 and 931 MHz Paging bidding credit depends on the average gross revenues for the preceding three years of the bidder and its controlling interests and affiliates:

- A bidder with average gross revenues of not more than \$15 million for the preceding three years receives a 25 percent discount on its winning bids for 929 and 931 MHz Paging licenses ("small business");<sup>4</sup>
- A bidder with average gross revenues of not more than \$3 million for the preceding three years receives a 35 percent discount on its winning bids for the 929 and 931 MHz Paging licenses ("very small business").<sup>5</sup>

Bidding credits are not cumulative: qualifying applicants receive either the 25 percent or the 35 percent bidding credit, but not both.

929 and 931 MHz Paging bidders should note that unjust enrichment provisions apply to winning bidders that use bidding credits and subsequently assign or transfer control of

<sup>4</sup> See 47 C.F.R. § 22.223 (b) (1) (ii).

<sup>&</sup>lt;sup>2</sup> See 47 C.F.R. §§ 22.217 and 1.2105.

<sup>&</sup>lt;sup>3</sup> See 47 C.F.R § 22.217.

<sup>&</sup>lt;sup>5</sup> See 47 C.F.R. § 22.223 (b) (1) (i).

their licenses to an entity not qualifying for the same level of bidding credit.<sup>6</sup> Finally, bidders should also note that there are no installment payment plans in the 929 and 931 MHz Paging Auction.

#### **Permissible Operations**

The 929 and 931 MHz frequency bands are allocated for paging services. If you win a geographic license in the auction, you will be able to use the spectrum to provide: (1) one-way messaging; (2) two-way messaging; and (3) fixed wireless ervices. Provision of these services is subject to technical limitation set forth for the service in Part 22 (Part 90 for 929 MHz exclusive channels).

Paging systems are traditionally one-way signaling systems. Paging services, grouped by output, include; tone, tone/voice, numeric, and alphanumeric. Present systems are of two basic types; a wide-area general-use type providing subscription service to the public, and, an in-building, private, paging system, limited to a commercial building or the general area of a manufacturing plant. Currently, neither of these paging systems can initiate an answer without calling through a landline telephone. However, in 1996, the Commission adopted the *First Report and Order* in the flexible spectrum use proceeding, in which several CMRS bands (including 929 and 931 MHz) were allocated to the fixed service on a co-primary basis. Permitting service providers to offer all types of fixed, mobile, and hybrid services will allow CMRS providers to better respond to market demand and increase competition in the provision of telecommunications services. The Commission concluded that the public interest would be served by giving licensees maximum flexibility in the use of CMRS spectrum.

#### **License Period**

CMRS Licenses will be issued for a ten-year term from the initial license grant date. A licensee will be required to provide coverage to one-third of the population in its areas within three years of the license grant, and to two-thirds of the population within its area within five years of the license grant. In the alternative, the licensee may provide substantial service to the geographic license area within five years of license grant. See CMRS third Report and Order, 9 FCC Rcd at 8157 n, 712.

#### **Incumbents**

Incumbent (nongeographic) paging licensees operating under their existing authorizations are entitled to full protection from co-channel interference. Geographic area licensees

<sup>&</sup>lt;sup>6</sup> *Id*.

Amendment of the Commission's rules to Permit Flexible Service Offerings in the Commercial Mobile Radio Services, WT Docket No. 96-6, *First Report and Order and Further Notice of Proposed Rulemaking*, 11 FCC Rcd 8965 (1996).

<sup>&</sup>lt;sup>8</sup> Paging Second Report and Order at  $\P$  58 and Paging Reconsideration Order at  $\P$  42-44; 47 C.F.R.  $\S$  22.503(I).

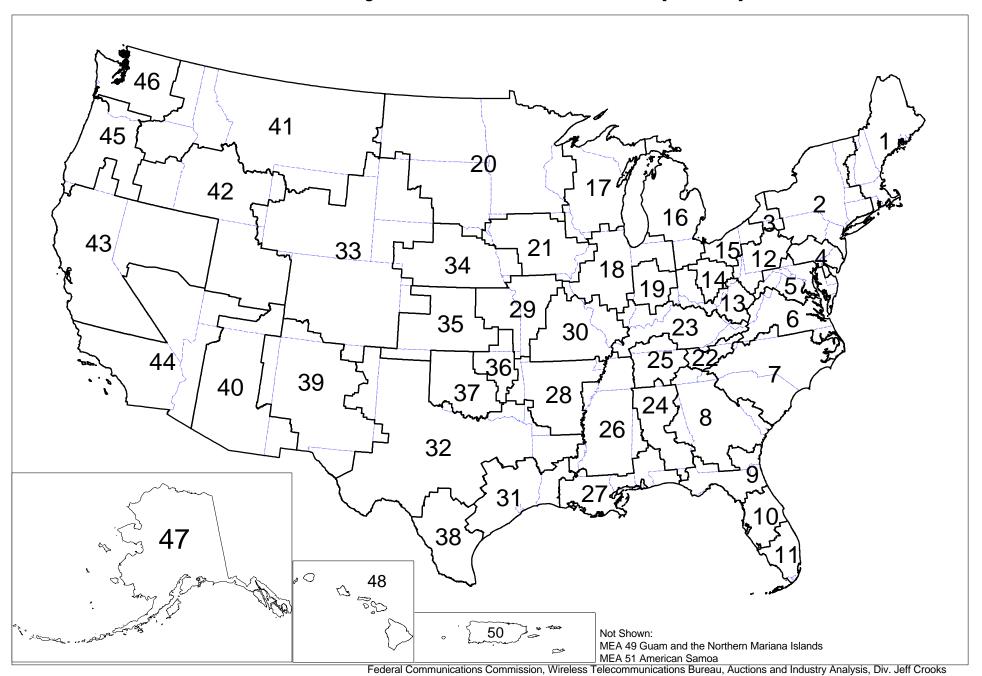
are likewise afforded co-channel interference protection from incumbent licensees. Adjacent geographic area licensees are obligated to resolve possible interference concerns of adjacent geographic area licensees by negotiating a mutually acceptable agreement with the neighboring geographic licensee.

#### **Key Dates:**

Pre-Auction Seminar:	January 7, 2000
Short Form (FCC Form 175) Application Deadline:	January 20, 2000
Upfront Payment Deadline:	February 7, 2000
Auction Begins:	February 24, 2000

Paging Reconsideration Order at  $\P$  45.

# **Major Economic Area (MEA)**



#### SUMMARY OF LICENSES TO BE AUCTIONED

The following table lists the 51 Major Economic Area ("MEAs") for which the FCC will issue 929 MHz ("929") and 931 MHz ("931") paging licenses. This auction offers a total of 612, 929 MHz licenses (twelve in each MEA); and 1,887, 931MHz licenses (37 in each MEA) for a total of 2,499 licenses.

For each MEA license, the table lists the: market number, license number, license name, population, bidding units, upfront payment (which corresponds to the number of bidding units required to bid on each license), and the minimum opening bid.

- A complete license number for 929 MHz licenses are: The letters "GC", the MEA
  designation plus the letter designation from A to L corresponding to a specific
  frequency. For example the license number for the A frequency in the Boston
  Massachusetts MEA is GCMEA001A.
- A complete license number for 931 MHz licenses are: The letters "CZ", the MEA
  designation plus the letter designation from AA to BK corresponding to a specific
  frequency. For example the license number for the AA-frequency license in the
  Boston Massachusetts MEA is CZMEA001AA.
- All population figures are from the 1990 United States Census, United States Department of Commerce, Bureau of the Census.

Following the summary of licenses is a table listing the counties in each MEA.

#### Minimum Opening Bids and Up-front Payments for the Upper Bands Paging Auction (#26) 929 MHz

Major Economic Area	929 MHz License Numbers	Market Name	Population (1990)	Bidding Units	Upfront Payment (\$.0004*Pops)	Minimum Opening Bid (\$.0005*Pops)
MEA001	GCMEA001-A / GCMEA001-L	Boston	8,672,944	3,500		\$4,300.00
MEA002	GCMEA002-A / GCMEA002-L	New York City	29,027,017	12,000	\$12,000.00	\$15,000.00
MEA003	GCMEA003-A / GCMEA003-L	Buffalo	1,529,735	2,500	\$2,500.00	\$2,500.00
MEA004	GCMEA004-A / GCMEA004-L	Philadelphia	7,942,319	3,200	\$3,200.00	\$4,000.00
MEA005	GCMEA005-A / GCMEA005-L	Washington	7,745,433	3,100	\$3,100.00	\$3,900.00
MEA006	GCMEA006-A / GCMEA006-L	Richmond	3,897,805	2,500	\$2,500.00	\$2,500.00
MEA007	GCMEA007-A / GCMEA007-L	Charlotte-Greensboro-Greenville-Raleigh	9,825,342	3,900	\$3,900.00	\$4,900.00
MEA008	GCMEA008-A / GCMEA008-L	Atlanta	7,341,931	2,900	\$2,900.00	\$3,700.00
MEA009	GCMEA009-A / GCMEA009-L	Jacksonville	2,168,038	2,500	\$2,500.00	\$2,500.00
MEA010	GCMEA010-A / GCMEA010-L	Tampa-St. Petersburg-Orlando	5,528,763	2,500	\$2,500.00	\$2,800.00
MEA011	GCMEA011-A / GCMEA011-L	Miami	5,025,606	2,500	\$2,500.00	\$2,500.00
MEA012	GCMEA012-A / GCMEA012-L	Pittsburgh	4,148,373	2,500	\$2,500.00	\$2,500.00
MEA013	GCMEA013-A / GCMEA013-L	Cincinnati-Dayton	4,325,459	2,500	\$2,500.00	\$2,500.00
MEA014	GCMEA014-A / GCMEA014-L	Columbus	2,100,613	2,500	\$2,500.00	\$2,500.00
MEA015	GCMEA015-A / GCMEA015-L	Cleveland	5,077,339	2,500	\$2,500.00	\$2,500.00
MEA016	GCMEA016-A / GCMEA016-L	Detroit	10,041,377	4,000	\$4,000.00	\$5,000.00
MEA017	GCMEA017-A / GCMEA017-L	Milwaukee	4,634,011	2,500	\$2,500.00	\$2,500.00
MEA018	GCMEA018-A / GCMEA018-L	Chicago	12,495,510	5,000	\$5,000.00	\$6,200.00
MEA019	GCMEA019-A / GCMEA019-L	Indianapolis	2,753,182	2,500	\$2,500.00	\$2,500.00
MEA020	GCMEA020-A / GCMEA020-L	Minneapolis-St. Paul	6,018,051	2,500	\$2,500.00	\$3,000.00
MEA021	GCMEA021-A / GCMEA021-L	Des Moines-Quad Cities	2,733,385	2,500	\$2,500.00	\$2,500.00
MEA022	GCMEA022-A / GCMEA022-L	Knoxville	1,364,665	2,500	\$2,500.00	\$2,500.00
MEA023	GCMEA023-A / GCMEA023-L	Louisville-Lexington-Evansville	4,059,317	2,500	\$2,500.00	\$2,500.00
MEA024	GCMEA024-A / GCMEA024-L	Birmingham	3,082,737	2,500	\$2,500.00	\$2,500.00
MEA025	GCMEA025-A / GCMEA025-L	Nashville	2,002,283	2,500	\$2,500.00	\$2,500.00
MEA026	GCMEA026-A / GCMEA026-L	Memphis-Jackson	3,850,949	2,500	\$2,500.00	\$2,500.00
MEA027	GCMEA027-A / GCMEA027-L	New Orleans-Baton Rouge	4,310,367	2,500	\$2,500.00	\$2,500.00
MEA028	GCMEA028-A / GCMEA028-L	Little Rock	2,309,255	2,500	\$2,500.00	\$2,500.00
MEA029	GCMEA029-A / GCMEA029-L	Kansas City	2,903,432	2,500	\$2,500.00	\$2,500.00
MEA030 MEA031	GCMEA030-A / GCMEA030-L GCMEA031-A / GCMEA031-L	St. Louis Houston	4,436,804	2,500 2,500	\$2,500.00 \$2,500.00	\$2,500.00 \$2,800.00
MEA031 MEA032	GCMEA031-A / GCMEA031-L GCMEA032-A / GCMEA032-L	Dallas-Fort Worth	5,513,511	3,800	\$2,300.00	\$4,800.00
MEA032 MEA033		1	9,575,762		1-7	
	GCMEA033-A / GCMEA033-L	Denver	3,952,116	2,500	\$2,500.00	\$2,500.00
MEA034	GCMEA034-A / GCMEA034-L	Omaha	1,638,440	2,500	\$2,500.00	\$2,500.00
MEA035 MEA036	GCMEA035-A / GCMEA035-L GCMEA036-A / GCMEA036-L	Wichita Tulsa	1,094,213	2,500	\$2,500.00 \$2,500.00	\$2,500.00
			1,259,636	2,500		\$2,500.00
MEA037 MEA038	GCMEA037-A / GCMEA037-L	Oklahoma City	1,695,572			
	GCMEA038-A / GCMEA038-L	San Antonio	2,944,684	2,500		\$2,500.00
MEA039	GCMEA039-A / GCMEA039-L	El Paso-Albuquerque	2,114,287	2,500		\$2,500.00
MEA040	GCMEA040-A / GCMEA040-L	Phoenix Spokane-Billings	3,458,935			\$2,500.00
MEA041	GCMEA041-A / GCMEA041-L	1	1,727,716			\$2,500.00
MEA042	GCMEA042-A / GCMEA042-L	Salt Lake City	2,444,454			
MEA043	GCMEA044-A / GCMEA044-L	San Francisco-Oakland-San Jose	11,956,167	4,800		\$6,000.00
MEA044	GCMEA044-A / GCMEA044-L	Los Angeles-San Diego	19,333,536	7,700		
MEA045	GCMEA045-A / GCMEA045-L GCMEA046-A / GCMEA046-L	Portland	2,999,719			\$2,500.00 \$2,500.00
MEA046	1	Seattle	3,990,811	2,500		
MEA047	GCMEA047-A / GCMEA047-L	Alaska	550,043			
MEA048	GCMEA048-A / GCMEA048-L	Hawaii	1,108,229	2,500		\$2,500.00
MEA049	GCMEA049-A / GCMEA049-L	Guam and the Northern Mariana Islands	176,497	2,500		\$2,500.00
MEA050	GCMEA051-A / GCMEA051-L	Puerto Rico and U.S. Virgin Islands	3,623,846	2,500		
MEA051	GCMEA051-A / GCMEA051-L	American Samoa	46,773	2,500	\$2,500.00	\$2,500.00

Total for a Single Channel 929 Totals

252,556,989 153,900 \$153,900.00 \$168,600.00 3,030,683,868 1,846,800 \$1,846,800.00 \$2,023,200.00

#### Minimum Opening Bids and Up-front Payments for the Upper Bands Paging Auction (#26) 931 MHz

MEADOI							
Area	Major					Upfront	Minimum
MEADO1   CZMEA001-AA / CZMEA001-BK   New York City   29.077.07   12.000   \$1,200.00   \$1	Economic			Population	Bidding		
MEADOI	Area	931 MHz License Numbers	Market Name	(1990)	Units	(\$.0004*Pops)	(\$.0005*Pops)
MEAN03   CZMEA003-AA / CZMEA003-BK   Suffinio	MEA001	CZMEA001-AA / CZMEA001-BK	Boston	8,672,944	3,500	\$3,500.00	\$4,300.00
MEADOB   CZMEAO04-AA   CZMEAO04-BK   Philadelphia   7,942,319   3,200   \$3,200,00   \$4,000,00   MEAOO6   CZMEAO06-AA   CZMEAO06-BK   Richmond   7,745,433   3,100   35,100,00   35,000,0	MEA002	CZMEA002-AA / CZMEA002-BK	New York City	29,027,017	12,000		\$15,000.00
MEA005   CZMEA005-AA / CZMEA005-BK   Washington	MEA003	CZMEA003-AA / CZMEA003-BK	Buffalo	1,529,735	2,500	\$2,500.00	\$2,500.00
MEADOR   CZMEA006-AA / CZMEA006-BK   Richmond   3.897.805   2.500   \$2.500.00   \$2.500.00   \$3.900.00   \$4.900.0	MEA004	CZMEA004-AA / CZMEA004-BK	Philadelphia	7,942,319	3,200	\$3,200.00	\$4,000.00
MEAD07   CZMEA007-AA / CZMEA007-BK	MEA005	CZMEA005-AA / CZMEA005-BK	Washington	7,745,433	3,100	\$3,100.00	\$3,900.00
MEA008   CZMEA008-A / CZMEA008-BK   Adlanta   7,341-931   2,900   82,900.00   82,500.00	MEA006	CZMEA006-AA / CZMEA006-BK	Richmond	3,897,805	2,500	\$2,500.00	\$2,500.00
MEA010   CZMEA010-AA / CZMEA010-BK   Tantpa-St. Petersburg-Orlando   5,528,763   2,500   \$2,500.00   \$2,800.00	MEA007	CZMEA007-AA / CZMEA007-BK	Charlotte-Greensboro-Greenville-Raleigh	9,825,342	3,900	\$3,900.00	\$4,900.00
MEA010	MEA008	CZMEA008-AA / CZMEA008-BK	Atlanta	7,341,931	2,900	\$2,900.00	\$3,700.00
MEA011	MEA009	CZMEA009-AA / CZMEA009-BK	Jacksonville	2,168,038	2,500	\$2,500.00	\$2,500.00
MEA011	MEA010	CZMEA010-AA / CZMEA010-BK	Tampa-St. Petersburg-Orlando	5,528,763			\$2,800.00
MEA012   CZMEA012-AA / CZMEA013-BK   Pittsburgh   4,148,373   2,500   \$2,500.00   \$2,500	MEA011	CZMEA011-AA / CZMEA011-BK	Miami	5,025,606	2,500	\$2,500.00	\$2,500.00
MEA013   CZMEA013-AA / CZMEA014-BK   Cincinnati-Dayton   4,325,459   2,500   \$2,500.00   \$2,500.00   S2,500.00   MEA014   CZMEA014-AA / CZMEA014-BK   Columbus   2,100.613   2,500   \$2,500.00   \$2,500.00   S2,500.00   MEA016   CZMEA015-AA / CZMEA016-BK   Cleveland   5,077,339   2,500   \$2,500.00   \$2,500.00   S2,500.00   MEA016   CZMEA016-AA / CZMEA016-BK   Milwaukee   4,634,011   2,500   \$2,500.00   \$2,500.00   MEA018   CZMEA017-AA / CZMEA011-BK   Milwaukee   4,634,011   2,500   \$2,500.00   \$2,500.00   MEA018   CZMEA018-AA / CZMEA018-BK   Clicego   12,495,510   5,000   \$5,000.00   \$6,200.00   MEA019   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA019   CZMEA020-AA / CZMEA021-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA021-AA / CZMEA021-BK   Minneapolis-St. Paul   6,018,051   2,500   \$2,500.00   \$2,500.00   MEA022   CZMEA021-AA / CZMEA022-BK   Knoxville   1,364,665   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Knoxville   1,364,665   2,500   \$2,500.00   \$2,500.00   MEA024   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA025   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,283   2,500   \$2,500.00   \$2,500.00   MEA028   CZMEA023-AA / CZMEA023-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA023-AA / CZMEA023-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00							\$2,500.00
MEA014   CZMEA014-AA / CZMEA015-BK   Columbus   2,100,613   2,500   \$2,500,00   \$2,500,00   \$2,500,00   MEA015   CZMEA015-AA / CZMEA015-BK   Cleveland   5,077,337   4,000   \$4,000,00   \$5,000,00   MEA016   CZMEA016-AA / CZMEA017-BK   Detroit   10,941,377   4,000   \$4,000,00   \$5,000,00   MEA017   CZMEA017-AA / CZMEA017-BK   Detroit   10,941,377   4,000   \$4,000,00   \$5,000,00   MEA018   CZMEA018-AA / CZMEA018-BK   Chicago   12,495,510   5,000   \$2,500,00   \$2,500,00   MEA019   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500,00   \$2,500,00   MEA020   CZMEA020-AA / CZMEA020-BK   Indianapolis   5,001,001,001,001,001,001,001,001,001,00			Cincinnati-Dayton	4,325,459			\$2,500.00
MEA015   CZMEA015-AA / CZMEA016-BK   Detroit   10,041,377   4,000   \$2,500.00   \$2,500.00   \$2,500.00   MEA017   CZMEA016-AA / CZMEA016-BK   Detroit   10,041,377   4,000   \$4,000.00   \$5,000.00   \$2,500.00   MEA017   CZMEA017-AA / CZMEA018-BK   Milwaukee   4,634,011   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA018   CZMEA018-AA / CZMEA018-BK   Indianapolis   12,495,510   5,000   \$5,000.00   \$2,500.00   MEA020   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA019-AA / CZMEA021-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA019-AA / CZMEA021-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA021-AA / CZMEA021-BK   Minneapolis-St. Paul   6,018,051   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA022   CZMEA023-AA / CZMEA022-BK   Knoxville   1,364,665   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Louisville-Lexington-Evansville   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA024   CZMEA023-AA / CZMEA023-BK   Nashville   2,002,238   2,500   \$2,500.00   \$2,500.00   MEA025   CZMEA025-AA / CZMEA025-BK   Memphis-Jackson   3,850,949   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA025-AA / CZMEA025-BK   Memphis-Jackson   3,850,949   2,500   \$2,500.00   \$2,500.00   MEA028   CZMEA025-AA / CZMEA027-BK   Memphis-Jackson   3,850,949   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA029-AA / CZMEA029-BK   Kansas City   2,903,432   2,500   \$2,500.00   \$2,500.00   MEA030   CZMEA030-AA / CZMEA031-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   MEA031   CZMEA033-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   MEA031   CZMEA033-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA033   CZMEA033-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA033   CZMEA033-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA033   CZMEA033-AA / CZMEA033-BK   Houston	MEA014	CZMEA014-AA / CZMEA014-BK		2,100,613	2,500	\$2,500.00	\$2,500.00
MEA016   CZMEA016-AA / CZMEA017-BK   Detroit   10,041,377   4,000   \$4,000.00   \$5,000.00   \$2,500.00   MEA017   CZMEA017-AA / CZMEA018-BK   Chicago   12,495,510   5,000   \$5,000.00   \$6,200.00   MEA019   CZMEA019-AA / CZMEA018-BK   Chicago   12,495,510   5,000   \$5,000.00   \$6,200.00   MEA019   CZMEA019-AA / CZMEA019-BK   Chicago   12,495,510   5,000   \$5,000.00   \$6,200.00   MEA019   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA020   CZMEA020-AA / CZMEA020-BK   Mineapolis-St. Paul   6,018,051   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA021-AA / CZMEA021-BK   Des Moires-Quad Ctites   2,733,385   2,500   \$2,500.00   \$2,500.00   MEA022   CZMEA022-AA / CZMEA023-BK   Knoxville   1,364,665   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Des Moires-Quad Ctites   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Birmingham   3,082,737   2,500   \$2,500.00   \$2,500.00   MEA025   CZMEA025-AA / CZMEA023-BK   Memphis-Jackson   3,850,499   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA026-AA / CZMEA026-BK   Memphis-Jackson   3,850,499   2,500   \$2,500.00   \$2,500.00   MEA028   CZMEA028-AA / CZMEA028-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA028   CZMEA028-AA / CZMEA028-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA029-AA / CZMEA028-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA039-AA / CZMEA038-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA039-AA / CZMEA038-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA039   CZMEA038-AA / CZMEA038-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA039   CZMEA039-AA / CZMEA038-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA039   CZMEA039-AA / CZMEA038-BK   Dallas-Fort World   9,575,762   3,800   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500	MEA015	CZMEA015-AA / CZMEA015-BK	Cleveland				\$2,500.00
MEA017   CZMEA017-AA / CZMEA018-BK   Milwaukee   4,634,011   2,500   \$2,500.00   \$2,500.00   \$2,000.00   MEA021   CZMEA018-AA / CZMEA018-BK   Indianapolis   1,245,510   2,500   \$2,500.00   \$2,000.00   MEA021   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA021   CZMEA020-AA / CZMEA021-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA022   CZMEA021-AA / CZMEA021-BK   Des Moines-Quad Cities   2,733,385   2,500   \$2,500.00   \$2,500.00   MEA022   CZMEA022-AA / CZMEA022-BK   Knoxville   1,364,665   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Louisville-Lexington-Evansville   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Duisville-Lexington-Evansville   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Brimingham   3,082,737   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Brimingham   3,082,737   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA026-AA / CZMEA026-BK   Memphis-Jackson   3,850,949   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA026-AA / CZMEA026-BK   Little Rock   2,309,255   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA029-AA / CZMEA029-BK   Little Rock   2,309,255   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA029-AA / CZMEA029-BK   Little Rock   2,309,255   2,500   \$2,500.00   \$2,500.00   MEA030   CZMEA031-AA / CZMEA039-BK   Louis   4,436,804   2,500   \$2,500.00   \$2,500.00   MEA031   CZMEA031-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   MEA031   CZMEA033-AA / CZMEA033-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA033   CZMEA033-AA / CZMEA033-BK   Monaha   1,638,440   2,500   \$2,500.00   \$2			Detroit				
MEA018   CZMEA018-AA / CZMEA018-BK   Chicago   12,495,510   5,000   \$5,000.00   \$6,200.00   MEA020   CZMEA019-AA / CZMEA019-BK   Indianapolis   2,753,182   2,500   \$2,500.00   \$2,500.00   MEA020   CZMEA021-AA / CZMEA020-BK   Minneapolis-St. Paul   6,018,051   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA021   CZMEA021-AA / CZMEA021-BK   Des Moines-Quad Cities   2,733,385   2,500   \$2,500.00   \$2,500.00   MEA022   CZMEA022-AA / CZMEA023-BK   Louisville-Lexington-Evansville   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA023-AA / CZMEA023-BK   Des Moines-Quad Cities   4,059,317   2,500   \$2,500.00   \$2,500.00   MEA023   CZMEA024-AA / CZMEA023-BK   Birmingham   3,082,737   2,500   \$2,500.00   \$2,500.00   MEA024   CZMEA024-AA / CZMEA025-BK   Marphis-Jackson   3,880,949   2,500   \$2,500.00   \$2,500.00   MEA025   CZMEA025-AA / CZMEA026-BK   Memphis-Jackson   3,880,949   2,500   \$2,500.00   \$2,500.00   MEA026   CZMEA027-AA / CZMEA026-BK   New Orleans-Baton Rouge   4,310,367   2,500   \$2,500.00   \$2,500.00   MEA027   CZMEA027-AA / CZMEA029-BK   Little Rock   2,309,255   2,500   \$2,500.00   \$2,500.00   MEA029   CZMEA030-AA / CZMEA039-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   MEA031   CZMEA031-AA / CZMEA031-BK   Houston   5,513,511   2,500   \$2,500.00   \$2,500.00   MEA032   CZMEA033-AA / CZMEA033-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   MEA033   CZMEA033-AA / CZMEA033-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   MEA036   CZMEA035-AA / CZMEA035-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   MEA036   CZMEA035-AA / CZMEA035-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA036   CZMEA035-AA / CZMEA035-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   \$2,500.00   MEA036   CZMEA035-AA / CZMEA035-BK   Denver   3,952,116   2,500   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,500.00   \$2,50			Milwaukee	4,634,011			\$2,500.00
MEA019         CZMEA019-AA         / CZMEA020-BK         Indianapolis         2,753,182         2,500         \$2,500.00         \$2,500.00           MEA020         CZMEA020-AA         / CZMEA020-BK         Minneapolis-St. Paul         6,018,051         2,500         \$2,500.00         \$3,000.00           MEA022         CZMEA021-AA         / CZMEA022-BK         Minneapolis-St. Paul         1,364,665         2,500         \$2,500.00         \$2,500.00           MEA023         CZMEA023-AA         / CZMEA023-BK         Louisville-Lexington-Evansville         4,059,317         2,500         \$2,500.00         \$2,500.00           MEA025         CZMEA023-AA         / CZMEA024-BK         Immigham         3,082,77         2,500         \$2,500.00         \$2,500.00           MEA025         CZMEA025-AA         / CZMEA025-BK         Nashville         2,002,283         2,500         \$2,500.00         \$2,500.00           MEA026         CZMEA026-AA         / CZMEA026-BK         Memphis-Jackson         3,850,949         2,500         \$2,500.00         \$2,500.00           MEA027         CZMEA028-AA         / CZMEA029-BK         Kansas City         2,903,432         2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA031-AA         / CZMEA031-BK         Houston	MEA018		Chicago			\$5,000.00	\$6,200.00
MEA020         CZMEA020-AA / CZMEA020-BK         Minneapolis-St. Paul         6,018,051         2,500         \$2,500.00         \$3,000.00           MEA021         CZMEA021-AA / CZMEA021-BK         Des Moines-Quad Cities         2,733,385         2,500         \$2,500.00	MEA019						\$2,500.00
MEA021         CZMEA021-AA / CZMEA021-BK         Des Moines-Quad Cities         2,733,385         2,500         \$2,500.00         \$2,500.00           MEA022         CZMEA022-AA / CZMEA022-BK         Knoxville         1,364,665         2,500         \$2,500.00         \$2	MEA020		*				
MEA022         CZMEA022-AA / CZMEA023-BK         Knoxville         1,364,665         2,500         \$2,500.00         \$2,500.00           MEA023         CZMEA023-AA / CZMEA023-BK         Louisville-Lexington-Evansville         4,059,317         2,500         \$2,500.00         \$2,500.00           MEA024         CZMEA024-AA / CZMEA025-BK         Birmingham         3,082,737         2,500         \$2,500.00         \$2,500.00           MEA025         CZMEA026-AA / CZMEA026-BK         Memphis-Jackson         3,850,949         2,500         \$2,500.00         \$2,500.00           MEA027         CZMEA026-AA / CZMEA027-BK         Mew Orleans-Baton Rouge         4,310,367         2,500         \$2,500.00         \$2,500.00           MEA028         CZMEA029-AA / CZMEA029-BK         Kew Orleans-Baton Rouge         4,310,367         2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA029-AA / CZMEA039-BK         Kittle Rock         2,309,255         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA030-AA / CZMEA030-BK         St. Louis         4,436,804         2,500         \$2,500.00         \$2,500.00           MEA032         CZMEA033-AA / CZMEA033-BK         Bullus-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA	MEA021		*				
MEA023         CZMEA023-AA / CZMEA023-BK         Louisville-Lexington-Evansville         4,059,317         2,500         \$2,500.00         \$2,500.00           MEA024         CZMEA024-AA / CZMEA024-BK         Birmingham         3,082,737         2,500         \$2,500.00         \$2,500.00           MEA025         CZMEA025-AA / CZMEA025-BK         Rashville         2,002,283         2,500         \$2,500.00         \$2,500.00           MEA027         CZMEA026-AA / CZMEA027-BK         Memphis-Jackson         3,859,949         2,500         \$2,500.00         \$2,500.00           MEA027         CZMEA027-AA / CZMEA027-BK         New Orleans-Baton Rouge         4,310,367         2,500         \$2,500.00         \$2,500.00           MEA028         CZMEA028-AA / CZMEA029-BK         Kew Orleans-Baton Rouge         4,310,367         \$2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA030-AA / CZMEA030-BK         St. Louis         4,436,804         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA031-AA / CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00         \$2,500.00           MEA033							
MEA024         CZMEA024-AA         / CZMEA025-BK         Birmingham         3,082,737         2,500         \$2,500.00         \$2,500.00           MEA025         CZMEA025-AA         / CZMEA025-BK         Nashville         2,002,283         2,500         \$2,500.00         \$2,500.00           MEA026         CZMEA026-AA         / CZMEA026-BK         Memphis-Jackson         3,850,949         2,500         \$2,500.00<							
MEA025         CZMEA025-AA / CZMEA025-BK         Nashville         2,002,283         2,500         \$2,500,00         \$2,500,00           MEA026         CZMEA026-AA / CZMEA026-BK         Memphis-Jackson         3,850,949         2,500         \$2,500,00	l		<u> </u>				
MEA026         CZMEA026-AA / CZMEA026-BK         Memphis-Jackson         3,850,949         2,500         \$2,500.00         \$2,500.00           MEA027         CZMEA027-AA / CZMEA027-BK         New Orleans-Baton Rouge         4,310,367         2,500         \$2,500.00			<u> </u>				· · · · · · · · · · · · · · · · · · ·
MEA027         CZMEA027-AA / CZMEA027-BK         New Orleans-Baton Rouge         4,310,367         2,500         \$2,500.00         \$2,500.00           MEA028         CZMEA028-AA / CZMEA028-BK         Little Rock         2,309,255         2,500         \$2,500.00         \$2,500.00           MEA029         CZMEA029-AA / CZMEA029-BK         Kansas City         2,903,432         2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA030-AA / CZMEA031-BK         St. Louis         4,436,804         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA031-AA / CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA032         CZMEA032-AA / CZMEA032-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00							
MEA028         CZMEA028-AA / CZMEA028-BK         Little Rock         2,309,255         2,500         \$2,500.00         \$2,500.00           MEA029         CZMEA029-AA / CZMEA029-BK         Kansas City         2,903,432         2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA030-AA / CZMEA030-BK         Kansas City         2,903,432         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA031-AA / CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA032         CZMEA032-AA / CZMEA032-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00         \$2,500.00           MEA034         CZMEA034-AA / CZMEA035-BK         Wichita         1,638,440         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA035-AA / CZMEA036-BK         Wichita         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA / CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA048-AA / CZMEA049-BK							
MEA029         CZMEA029-AA / CZMEA029-BK         Kansas City         2,903,432         2,500         \$2,500.00         \$2,500.00           MEA030         CZMEA030-AA / CZMEA030-BK         St. Louis         4,436,804         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA032         CZMEA032-AA / CZMEA032-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00	MEA028						\$2,500.00
MEA030         CZMEA030-AA / CZMEA030-BK         St. Louis         4,436,804         2,500         \$2,500.00         \$2,500.00           MEA031         CZMEA031-AA / CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA032         CZMEA032-AA / CZMEA032-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA034-AA / CZMEA034-BK         Denver         3,952,116         2,500         \$2,500.00         \$2,500.00           MEA034         CZMEA034-AA / CZMEA034-BK         Omaha         1,638,440         2,500         \$2,500.00         \$2,500.00           MEA035         CZMEA035-AA / CZMEA035-BK         Wichita         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA035-AA / CZMEA036-BK         Tulsa         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA / CZMEA038-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA039-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-A / CZMEA040-BK         Spokane-Bil	MEA029						\$2,500.00
MEA031         CZMEA031-AA         / CZMEA031-BK         Houston         5,513,511         2,500         \$2,500.00         \$2,800.00           MEA032         CZMEA032-AA         / CZMEA033-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA033-AA         / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00	MEA030	CZMEA030-AA / CZMEA030-BK	· · · · · · · · · · · · · · · · · · ·	4,436,804			\$2,500.00
MEA032         CZMEA032-AA / CZMEA032-BK         Dallas-Fort Worth         9,575,762         3,800         \$3,800.00         \$4,800.00           MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00         \$2,500.00           MEA034         CZMEA034-AA / CZMEA034-BK         Omaha         1,638,440         2,500         \$2,500.00         \$2,500.00           MEA035         CZMEA035-AA / CZMEA035-BK         Wichita         1,094,213         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA036-AA / CZMEA036-BK         Wichita         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA / CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA039         CZMEA038-AA / CZMEA039-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA / CZMEA044-BK	MEA031		Houston				
MEA033         CZMEA033-AA / CZMEA033-BK         Denver         3,952,116         2,500         \$2,500.00         \$2,500.00           MEA034         CZMEA034-AA / CZMEA035-BK         Omaha         1,638,440         2,500         \$2,500.00         \$2,500.00           MEA035         CZMEA035-AA / CZMEA035-BK         Wichita         1,094,213         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA036-AA / CZMEA037-BK         Tulsa         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA / CZMEA038-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA039-AA / CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA040-AA / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA / CZMEA043-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA044         CZMEA045-AA / CZMEA045-BK							
MEA034         CZMEA034-AA         CZMEA034-BK         Omaha         1,638,440         2,500         \$2,500.00         \$2,500.00           MEA035         CZMEA035-AA         CZMEA035-BK         Wichita         1,094,213         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA036-AA         CZMEA037-BK         Wichita         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA         CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA038-AA         CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA040-AA         CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA         CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA         CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA045-AA         CZMEA044-BK         Los Angeles-San Diego         19,333,536			Denver				
MEA035         CZMEA035-AA         / CZMEA035-BK         Wichita         1,094,213         2,500         \$2,500.00         \$2,500.00           MEA036         CZMEA036-AA         / CZMEA036-BK         Tulsa         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA         / CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA038-AA         / CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA039         CZMEA039-AA         / CZMEA040-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA         / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA         / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA044         CZMEA043-AA         / CZMEA043-BK         Los Angeles-San Diego         11,956,167         4,800	MEA034						
MEA036         CZMEA036-AA / CZMEA036-BK         Tulsa         1,259,636         2,500         \$2,500.00         \$2,500.00           MEA037         CZMEA037-AA / CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA038-AA / CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA039         CZMEA039-AA / CZMEA039-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA044-AA / CZMEA044-BK         Los Angeles-San Diego         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA045-AA / CZMEA046-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA046-AA	MEA035		Wichita				· · · · · · · · · · · · · · · · · · ·
MEA037         CZMEA037-AA / CZMEA037-BK         Oklahoma City         1,695,572         2,500         \$2,500.00         \$2,500.00           MEA038         CZMEA038-AA / CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA039         CZMEA039-AA / CZMEA039-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA046-AA / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA048	MEA036		1	1,259,636			
MEA038         CZMEA038-AA / CZMEA038-BK         San Antonio         2,944,684         2,500         \$2,500.00         \$2,500.00           MEA039         CZMEA039-AA / CZMEA040-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA046-AA / CZMEA046-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA049							
MEA039         CZMEA039-AA         / CZMEA039-BK         El Paso-Albuquerque         2,114,287         2,500         \$2,500.00         \$2,500.00           MEA040         CZMEA040-AA         / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA         / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA         / CZMEA043-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA         / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00<							
MEA040         CZMEA040-AA         / CZMEA040-BK         Phoenix         3,458,935         2,500         \$2,500.00         \$2,500.00           MEA041         CZMEA041-AA         / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA         / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA         / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana	MEA039						
MEA041         CZMEA041-AA         / CZMEA041-BK         Spokane-Billings         1,727,716         2,500         \$2,500.00         \$2,500.00           MEA042         CZMEA042-AA         / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA         / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         <	MEA040		1 1				. ,
MEA042         CZMEA042-AA         / CZMEA042-BK         Salt Lake City         2,444,454         2,500         \$2,500.00         \$2,500.00           MEA043         CZMEA043-AA         / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA048         CZMEA048-AA         / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA050-AA         / CZMEA050-BK         Quam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.00         \$2,500.	MEA041						
MEA043         CZMEA043-AA         / CZMEA043-BK         San Francisco-Oakland-San Jose         11,956,167         4,800         \$4,800.00         \$6,000.00           MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA048-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA         / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00	-						\$2,500.00
MEA044         CZMEA044-AA         / CZMEA044-BK         Los Angeles-San Diego         19,333,536         7,700         \$7,700.00         \$9,700.00           MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA048         CZMEA048-AA         / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA         / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00	MEA043						. ,
MEA045         CZMEA045-AA         / CZMEA045-BK         Portland         2,999,719         2,500         \$2,500.00         \$2,500.00           MEA046         CZMEA046-AA         / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA         / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA048         CZMEA048-AA         / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA         / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00	-						\$9,700.00
MEA046         CZMEA046-AA / CZMEA046-BK         Seattle         3,990,811         2,500         \$2,500.00         \$2,500.00           MEA047         CZMEA047-AA / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA048         CZMEA048-AA / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00							\$2,500.00
MEA047         CZMEA047-AA / CZMEA047-BK         Alaska         550,043         2,500         \$2,500.00         \$2,500.00           MEA048         CZMEA048-AA / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00							
MEA048         CZMEA048-AA         / CZMEA048-BK         Hawaii         1,108,229         2,500         \$2,500.00         \$2,500.00           MEA049         CZMEA049-AA         / CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA         / CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00							\$2,500.00
MEA049         CZMEA049-AA         CZMEA049-BK         Guam and the Northern Mariana Islands         176,497         2,500         \$2,500.00         \$2,500.00           MEA050         CZMEA050-AA         CZMEA050-BK         Puerto Rico and U.S. Virgin Islands         3,623,846         2,500         \$2,500.00         \$2,500.00							. ,
MEA050 CZMEA050-AA / CZMEA050-BK Puerto Rico and U.S. Virgin Islands 3,623,846 2,500 \$2,500.00 \$2,500.00							
MEDOJI JOZIMEDOJI-DA / CZMEDOJI-DA   MIRCHORI BAHIOR   40.773   2.300  32.300.00   32.300.00	MEA051	CZMEA051-AA / CZMEA051-BK	American Samoa	46,773	2,500		

 Total for a Single Channel
 252,556,989
 153,900
 \$153,900.00
 \$168,600.00

 931 Totals
 9,344,608,593
 5,694,300
 \$5,694,300.00
 \$6,238,200.00

 929 and 931 Totals
 12,375,292,461
 7,541,100
 \$7,541,100.00
 \$8,261,400.00

MEA	County	State
1	Barnstable	MA
1	Bristol	MA
1	Dukes	MA
1	Essex	MA
1	Middlesex	MA
1	Nantucket	MA
1	Norfolk	MA
1	Plymouth	MA
1	Suffolk	MA
1	Worcester	MA
1	Androscoggin	ME
1	Aroostook	ME
1	Cumberland	ME
1	Franklin	ME
1	Hancock	ME
1	Kennebec	ME
1	Knox	ME
1	Lincoln	ME
1	Oxford	ME
1	Penobscot	ME
1		ME
	Piscataquis	ME
1	Sagadahoc	
1	Somerset	ME
1	Waldo	ME
1	Washington	ME
1	York	ME
1	Belknap	NH
1	Carroll	NH
1	Cheshire	NH
1	Coos	NH
1	Grafton	NH
1	Hillsborough	NH
1	Merrimack	NH
1	Rockingham	NH
1	Strafford	NH
1	Sullivan	NH
1	Bristol	RI
1	Kent	RI
1	Newport	RI
1	Providence	RI
1	Washington	RI
1	Essex	VT
1	Orange	VT
1	Windham	VT
1	Windsor	VT
2	Fairfield	CT
2	Hartford	CT
2	Litchfield	СТ
2	Nassau	NY
2	New York	NY
2	Oneida	NY

MEA	County	State
2	Middlesex	CT
2	New Haven	CT
2	New London	CT
2	Tolland	CT
2	Windham	CT
2	Berkshire	MA
2	Franklin	MA
2	Hampden	MA
2	Hampshire	MA
2	Bergen	NJ
2	Essex	NJ
2	Hudson	NJ
2	Hunterdon	NJ
2	Mercer	NJ
2	Middlesex	NJ
2	Monmouth	NJ
2	Morris	NJ
2	Ocean	NJ
2	Passaic	NJ
2	Somerset	NJ
2	Sussex	NJ
2	Union	NJ
2	Warren	NJ
2	Albany	NY
2	Bronx	NY
2	Broome	NY
2	Cayuga	NY
2	Chemung	NY
2	Chenango	NY
2	Clinton	NY
2	Columbia	NY
2	Cortland	NY
2	Delaware	NY
2	Dutchess	NY
2	Essex	NY
2	Franklin	NY
2	Fulton	NY
2	Genesee	NY
2	Greene	NY
2	Hamilton	NY
2	Herkimer	NY
2	Jefferson	NY
2	Kings	NY
2	Lewis	NY
2	Livingston	NY
2	Madison	NY
2	Monroe	NY
2	Montgomery	NY
2	Tioga	PA
2	Union	PA
2	Wayne	PA

MEA	County	State
2	Onondaga	NY
2	Ontario	NY
2	Orange	NY
2	Orleans	NY
2	Oswego	NY
2	Otsego	NY
2	Putnam	NY
2	Queens	NY
2	Rensselaer	NY
2	Richmond	NY
2	Rockland	NY
2		NY
2	Saratoga	NY
2	Schenectady	NY
2	Schoharie	
2	Schuyler	NY NY
	Seneca	
2	St. Lawrence	NY
	Steuben	NY
2	Suffolk	NY
2	Sullivan	NY
2	Tioga	NY
2	Tompkins	NY
2	Ulster	NY
2	Warren	NY
2	Washington	NY
2	Wayne	NY
2	Westchester	NY
2	Wyoming	NY
2	Yates	NY
2	Bradford	PA
2	Carbon	PA
2	Clinton	PA
2	Columbia	PA
2	Lackawanna	PA
2	Lehigh	PA
2	Luzerne	PA
2	Lycoming	PA
2	Monroe	PA
2	Montour	PA
2	Northampton	PA
2	Northumberland	PA
2	Pike	PA
2	Snyder	PA
2	Sullivan	PA
2	Susquehanna	PA
5	Allegany	MD
5	Anne Arundel	MD
5	Baltimore	MD
5	Baltimore City	MD
5	Calvert	MD
5	Caroline	MD
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MEA	County	State
2	Wyoming	PA
2	Addison	VT
2	Bennington	VT
2	Caledonia	VT
2	Chittenden	VT
2	Franklin	VT
2	Grand Isle	VT
2	Lamoille	VT
2	Orleans	VT
2	Rutland	VT
2	Washington	VT
3	Allegany	NY
3	Cattaraugus	NY
3	Chautauqua	NY
3	Erie .	NY
3	Niagara	NY
3	McKean	PA
3	Potter	PA
4	Kent	DE
4	New Castle	DE
4	Cecil	MD
4	Atlantic	NJ
4	Burlington	NJ
4	Camden	NJ
4	Cape May	NJ
4	Cumberland	NJ
4	Gloucester	NJ
4	Salem	NJ
4	Adams	PA
4	Berks	PA
4	Bucks	PA
4	Chester	PA
4	Cumberland	PA
4	Dauphin	PA
4	Delaware	PA
4	Juniata	PA
4	Lancaster	PA
4	Lebanon	PA
4	Montgomery	PA
4	Perry	PA
4	Philadelphia	PA
4	Schuylkill	PA
4	York	PA
5	District of Columbia	DC
5	Sussex	DE
5	Spotsylvania	VA
5	Stafford	VA
5	Warren	VA
5	Westmoreland	VA
5	Winchester City	VA
5	Berkeley	WV

MEA	County	State
5	Carroll	MD
5	Charles	MD
5	Dorchester	MD
5	Frederick	MD
5	Garrett	MD
5	Harford	MD
5	Howard	MD
5	Kent	MD
5	Montgomery	MD
5	Prince George's	MD
5	Queen Anne's	MD
5	Somerset	MD
5	St. Mary's	MD
5	Talbot	MD
5	Washington	MD
5	Wicomico	MD
5	Worcester	MD
5	Franklin	PA
5	Fulton	PA
5	Accomack	VA
5	Alexandria City	VA
5	Arlington	VA
5	Caroline	VA
5	Clarke	VA
5	Culpeper	VA
5	Fairfax	VA
5	Fairfax City	VA
5	Falls Church City	VA
5	Fauquier	VA
5	Frederick	VA
5	Fredericksburg City	VA
5	King George	VA
5	Loudoun	VA
5	Madison	VA
5	Manassas City	VA
5	Manassas Park City	VA
5	Northampton	VA
5	Orange	VA
5	Page	VA
5	Prince William	VA
5	Rappahannock	VA
5	Shenandoah	VA
6	Dinwiddie	VA
6	Emporia City	VA
6	Essex	VA
6	Floyd	VA
6	Fluvanna	VA
6	Franklin	VA
6	Franklin City	VA
6	Galax City	VA
6	Giles	VA

MEA	County	State
5	Grant	WV
5	Hampshire	WV
5	Hardy	WV
5	Jefferson	WV
5	Mineral	WV
5	Morgan	WV
5	Randolph	WV
5	Tucker	WV
6	Alleghany	NC
6	Bertie	NC
6	Camden	NC
6	Chowan	NC
6	Currituck	NC
6	Gates	NC
6	Hertford	NC
6	Pasquotank	NC
6	Perquimans	NC
6	Albemarle	VA
6	Alleghany	VA
6	Amelia	VA
6	Amherst	VA
6	Appomattox	VA
6	Augusta	VA
6	Bath	VA
6	Bedford	VA
6	Bedford City	VA
6	Botetourt	VA
6	Brunswick	VA
6	Buckingham	VA
6	Buena Vista City	VA
6	Campbell	VA
6	Carroll	VA VA
6	Charles City Charlotte	VA
6	Charlottesville City	VA
6	Chesapeake City	VA
6	Chesterfield	VA
6	Clifton Forge City	VA
6	Colonial Heights City	VA
6	Covington City	VA
6	Craig	VA
6	Cumberland	VA
6	Richmond	VA
6	Richmond City	VA
6	Roanoke	VA
6	Roanoke City	VA
6	Rockbridge	VA
6	Rockingham	VA
6	Salem City	VA
6	South Boston City	VA
6	Southampton	VA

MEA	County	State
6	Gloucester	VA
6	Goochland	VA
6	Grayson	VA
6	Greene	VA
6	Greensville	VA
6	Halifax	VA
6	Hampton City	VA
6	Hanover	VA
6	Harrisonburg City	VA
6	Henrico	VA
6	Highland	VA
6	Hopewell City	VA
6	Isle of Wight	VA
6	James City	VA
6	King and Queen	VA
6	King William	VA
6	Lancaster	VA
6	Lexington City	VA
6	Louisa	VA
6	Lunenburg	VA
6	Lynchburg City	VA
6	Mathews	VA
6	Mecklenburg	VA
6	Middlesex	VA
6	Montgomery	VA
6	Nelson	VA
6	New Kent	VA
6	Newport News City	VA
6	Norfolk City	VA
6	Northumberland	VA
6	Nottoway	VA
6	Petersburg City	VA
6	Poquoson City	VA
6	Portsmouth City	VA
6	Powhatan	VA
6	Prince Edward	VA
6	Prince George	VA
6	Pulaski	VA
6	Radford City	VA
7	Forsyth	NC
7	Franklin	NC
7	Gaston	NC
7	Granville	NC
7	Greene	NC NC
	Guilford	NC NC
7	Halifax	NC
7	Harnett	NC NC
7	Haywood	NC NC
7	Henderson	NC NC
7	Hoke	NC NC
	Hyde	NC

MEA	County	State
6	Staunton City	VA
6	Suffolk City	VA
6	Surry	VA
6	Sussex	VA
6	Virginia Beach City	VA
6	Waynesboro City	VA
6	Williamsburg City	VA
6	Wythe	VA
6	York	VA
6	Greenbrier	WV
6	Monroe	WV
6	Pendleton	WV
6	Pocahontas	WV
7	Alamance	NC
7	Alexander	NC
7	Anson	NC
7	Ashe	NC
7	Avery	NC
7	Beaufort	NC
7	Bladen	NC
7	Brunswick	NC
7	Buncombe	NC
7	Burke	NC
7	Cabarrus	NC
7	Caldwell	NC
7	Carteret	NC
7	Caswell	NC
7	Catawba	NC
7	Chatham	NC
7	Cleveland	NC
7	Columbus	NC
7	Craven	NC
7	Cumberland	NC
7	Dare	NC
7	Davidson	NC
7	Davie	NC
7	Duplin	NC
7	Durham	NC
7	Edgecombe	NC
7	Transylvania	NC
7	Tyrrell	NC
7	Union	NC
7	Vance	NC
7	Wake	NC
7	Warren	NC
7	Washington	NC
7	Watauga	NC
7	Wayne	NC
7	Wilkes	NC
7	Wilson	NC
7	Yadkin	NC

MEA	County	State
7	Iredell	NC
7	Jackson	NC
7	Johnston	NC
7	Jones	NC
7	Lee	NC
7	Lenoir	NC
7	Lincoln	NC
7	Madison	NC
7	Martin	NC
7	McDowell	NC
7	Mecklenburg	NC
7	Mitchell	NC
7	Montgomery	NC
7	Moore	NC
7	Nash	NC
7	New Hanover	NC
7	Northampton	NC
7	Onslow	NC
7	Orange	NC
7	Pamlico	NC
7	Pender	NC
7	Person	NC
7	Pitt	NC
7	Polk	NC
7	Randolph	NC
7	Richmond	NC
7	Robeson	NC
7	Rockingham	NC
7	Rowan	NC
7	Rutherford	NC
7	Sampson	NC
7	Scotland	NC
7	Stanly	NC
7	Stokes	NC
7	Surry	NC
7	Swain	NC
7	Union	SC
7	Williamsburg	SC
7	York	SC
7	Johnson	TN
7	Danville City	VA
7	Henry	VA
7	Martinsville City	VA
7	Patrick	VA
7	Pittsylvania	VA
8	Chambers	AL
8	Cherokee	AL
8	Clay	AL
8	Cleburne	AL
8	Coosa	AL
8	Lee	AL
	LCC	AL

MEA	County	State
7	Yancey	NC
7	Abbeville	SC
7	Anderson	SC
7	Berkeley	SC
7	Calhoun	SC
7	Charleston	SC
7	Cherokee	SC
7	Chester	SC
7	Chesterfield	SC
7	Clarendon	SC SC
7	Colleton	SC
7	Darlington	SC
7	Dillon	SC
7	Dorchester	SC
7	Fairfield	SC
7	Florence	SC
7	Georgetown	SC
7	Greenville	SC
7	Greenwood	SC
7	Horry	SC
7	Kershaw	SC
7	Lancaster	SC
7	Laurens	SC
7	Lee	SC
7	Lexington	SC
7	Marion	SC
7	Marlboro	SC
7	McCormick	SC
7	Newberry	SC
7	Oconee	SC
7	Orangeburg	SC
7	Pickens	SC
7	Richland	SC
7	Saluda	SC
7	Spartanburg	SC
7	Sumter	SC
8	Cook	GA
8	Coweta	GA
8	Crawford	GA
8	Crisp	GA
8	Dade	GA
8	Dawson	GA
8	DeKalb	GA
8	Dodge	GA
8	Dooly	GA
8	Dougherty	GA
8	Douglas	GA
8	Echols	GA
8	Effingham	GA
8	Elbert	GA
8	Emanuel	GA

MEA	County	State
8	Macon	AL
8	Randolph	AL
8	Russell	AL
8	Tallapoosa	AL
8	Appling	GA
8	Baker	GA
8	Baldwin	GA
8	Banks	GA
8	Barrow	GA
8	Bartow	GA
8	Ben Hill	GA
8	Berrien	GA
8	Bibb	GA
8	Bleckley	GA
8	Brooks	GA
8	Bryan	GA
8	Bulloch	GA
8	Burke	GA
8	Butts	GA
8	Calhoun	GA
8	Candler	GA
8	Carroll	GA
8	Catoosa	GA
8	Chatham	GA
8	Chattahoochee	GA
8	Chattooga	GA
8	Cherokee	GA
8	Clarke	GA
8	Clay	GA
8	Clayton	GA
8	Cobb	GA
8	Colquitt	GA
8	Columbia	GA
8	Liberty	GA
8	Lincoln	GA
8	Long	GA
8	Lowndes	GA
8	Lumpkin	GA
8	Macon	GA
8	Madison	GA
8	Marion	GA
8	McDuffie	GA
8	Meriwether	GA
8	Mitchell	GA
8	Montgomery	GA
8	Morgan	GA GA
8	Murroy	
8	Murray	GA GA
	Muscogee	GA GA
8	Newton	GA GA
8	Oconee	GA

MEA	County	State
8	Evans	GA
8	Fannin	GA
8	Fayette	GA
8	Floyd	GA
8	Forsyth	GA
8	Franklin	GA
8	Fulton	GA
8	Gilmer	GA
8	Glascock	GA
8	Gordon	GA
8	Greene	GA
8	Gwinnett	GA
8	Habersham	GA
8	Hall	GA
8	Hancock	GA
8	Haralson	GA
8	Harris	GA
8	Hart	GA
8	Heard	GA
8	Henry	GA
8	Houston	GA
8	Irwin	GA
8	Jackson	GA
8	Jasper	GA
8	Jeff Davis	GA
8	Jefferson	GA
8	Jenkins	GA
8	Johnson	GA
8	Jones	GA
8	Lamar	GA
8	Lanier	GA
8	Laurens	GA
8	Lee	GA
8	Twiggs	GA
8	Union	GA
8	Upson	GA
8	Walker	GA
8	Walton	GA
8	Warren	GA
8	Washington	GA
8	Wayne	GA
8	Webster	GA
8	Wheeler	GA
8	White	GA
8	Whitfield	GA
8	Wilcox	GA
8	Wilkes	GA
8	Wilkinson	GA
8	Worth	GA
8	Cherokee	NC
8	Clay	NC
3	Olay	110

MEA	County	State
8	Oglethorpe	GA
8	Paulding	GA
8	Peach	GΑ
8	Pickens	GΑ
8	Pike	GΑ
8	Polk	GΑ
8	Pulaski	GA
8	Putnam	GA
8	Rabun	GA
8	Randolph	GA
8	Richmond	GA
8	Rockdale	GA
8	Schley	GA
8	Screven	GA
8	Spalding	GA
8	Stephens	GA
8	Stewart	GA
8	Sumter	GA
8	Talbot	GA
8	Taliaferro	GA
8	Tattnall	GA
8	Taylor	GA
8	Telfair	GA
8	Terrell	GA
8	Tift	GA
8	Toombs	GA
8	Towns	GA
8	Treutlen	GA
8	Troup	GA
8	Turner	GA
9	Gadsden	FL
9	Gilchrist	FL
9	Gulf	FL
9	Hamilton	FL
9	Jackson	FL
9	Jefferson	FL
9	Lafayette	FL
9	Leon	FL
9	Levy	FL
9	Liberty	FL
9	Madison	FL
9	Nassau	FL
9	Putnam	FL
9	St. Johns	FL
9	Suwannee	FL
9	Taylor	FL
9	Union	FL
9	Wakulla	FL
9	Atkinson	GA
9	Bacon	GA
9	Brantley	GA
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County	State
Graham	NC
Macon	NC
Aiken	SC
Allendale	SC
Bamberg	SC
Barnwell	SC
Beaufort	SC
Edgefield	SC
Hampton	SC
Jasper	SC
Bledsoe	TN
Bradley	TN
Hamilton	TN
Marion	TN
McMinn	TN
Meigs	TN
Monroe	TN
Polk	TN
Rhea	TN
Sequatchie	TN
Alachua	FL
Baker	FL
Bay	FL
Bradford	FL
Calhoun	FL
Clay	FL
Columbia	FL
Dixie	FL
Duval	FL
Franklin	FL
Osceola	FL
Pasco	FL
Pinellas	FL
Polk	FL
Sarasota	FL
Seminole	FL
Sumter	FL
Volusia	FL
Broward	FL
Collier	FL
Dade	FL
	FL
Hendry	FL
Indian River	FL
Lee	FL
Martin	FL
Monroe	FL
Okeechobee	FL
Palm Beach	FL
St. Lucie	FL
Belmont	OH
	Graham Macon Aiken Allendale Bamberg Barnwell Beaufort Edgefield Hampton Jasper Bledsoe Bradley Hamilton Marion McMinn Meigs Monroe Polk Rhea Sequatchie Alachua Baker Bay Bradford Calhoun Clay Columbia Dixie Duval Franklin Osceola Pasco Pinellas Polk Sarasota Seminole Sumter Volusia Broward Collier Dade Glades Hendry Indian River Lee Martin Monroe Okeechobee Palm Beach St. Lucie

MEA	County	State
9	Camden	GA
9	Charlton	GA
9	Clinch	GA
9	Coffee	GA
9	Decatur	GA
9	Early	GA
9	Glynn	GA
9	Grady	GA
9	McIntosh	GΑ
9	Miller	GΑ
9	Pierce	GΑ
9	Seminole	GA
9	Thomas	GΑ
9	Ware	GA
10	Brevard	FL
10	Charlotte	FL
10	Citrus	FL
10	DeSoto	FL
10	Flagler	FL
10	Hardee	FL
10	Hernando	FL
10	Highlands	FL
10	Hillsborough	FL
10	Lake	FL
10	Manatee	FL
10	Marion	FL
10	Orange	FL
12	Harrison	WV
12	Lewis	WV
12	Marion	WV
12	Marshall	WV
12	Monongalia	WV
12	Ohio	WV
12	Preston	WV
12	Taylor	WV
12	Tyler	WV
12	Upshur	WV
12	Wetzel	WV
13	Dearborn	IN
13	Franklin	IN
13	Ohio	IN
13	Ripley	IN
13	Switzerland	IN
13	Boone	KY
13	Boyd	KY
13	Bracken	KY
13	Campbell	KY
13	Carter	KY
13	Elliott	KY
13	Gallatin	KY
13	Grant	KY
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MEA	County	State
12	Jefferson	OH
12	Monroe	ОН
12	Allegheny	PA
12	Armstrong	PA
12	Beaver	PA
12	Bedford	PA
12	Blair	PA
12	Butler	PA
12	Cambria	PA
12	Cameron	PA
12	Centre	PA
12	Clearfield	PA
12	Elk	PA
12	Fayette	PA
12	Greene	PA
12	Huntingdon	PA
12	Indiana	PA
12	Jefferson	PA
12	Lawrence	PA
12	Mifflin	PA
12	Somerset	PA
12	Washington	PA
12	Westmoreland	PA
12	Barbour	WV
12	Brooke	WV
12	Doddridge	WV
12	Hancock	WV
13	Washington	OH
13	Boone	WV
13	Braxton	WV
13	Cabell	WV
13	Calhoun	WV
13	Clay	WV
13	Fayette	WV
13	Gilmer	WV
13	Jackson	WV WV
13 13	Kanawha Lincoln	WV
13		WV
13	Logan Mason	WV
13	Nicholas	WV
13	Pleasants	WV
13	Putnam	WV
13	Raleigh	WV
13	Ritchie	WV
13	Roane	WV
13	Summers	WV
13	Wayne	WV
13	Webster	WV
13	Wirt	WV
13	Wood	WV
10	VVOCa	V V V

MEA	County	State
13	Greenup	KY
13	Kenton	KY
13	Lewis	KY
13	Mason	KY
13	Pendleton	KY
13	Adams	OH
13	Brown	OH
13	Butler	OH
13	Champaign	OH
13	Clark	OH
13	Clermont	ОН
13	Clinton	ОН
13	Darke	ОН
13	Gallia	ОН
13	Greene	OH
13	Hamilton	OH
13	Highland	OH
13	Lawrence	OH
13	Meigs	OH
13	Miami	OH
13	Montgomery	ОН
13	Preble	ОН
13	Shelby	ОН
13	Warren	ОН
14	Union	ОН
14	Vinton	ОН
15	Ashland	OH
15	Ashtabula	OH
15	Carroll	ОН
15	Columbiana	ОН
15	Crawford	ОН
15	Cuyahoga	ОН
15	Erie	ОН
15	Geauga	ОН
15	Harrison	ОН
15	Holmes	OH
15	Huron	OH
15	Lake	OH
15	Lorain	OH
15	Mahoning	OH
15	Medina	OH
15	Portage	OH
15	Richland	OH
15	Stark	OH
15	Summit	OH
15	Trumbull	OH
15	Tuscarawas	OH
15	Wayne	OH
15	Clarion	PA
15	Crawford	PA
15	Erie	PA

MEA	County	State
13	Wyoming	WV
14	Athens	OH
14	Coshocton	OH
14	Delaware	OH
14	Fairfield	OH
14	Fayette	OH
14	Franklin	OH
14	Guernsey	OH
14	Hocking	OH
14	Jackson	OH
14	Knox	OH
14	Licking	OH
14	Logan	OH
14	Madison	OH
14	Marion	OH
14	Morgan	OH
14	Morrow	OH
14	Muskingum	OH
14	Noble	OH
14	Perry	OH
14	Pickaway	OH
14	Pike	OH
14	Ross	OH
14	Scioto	OH
16	Emmet	MI
16	Genesee	MI
16	Gladwin	MI
16	Grand Traverse	MI
16	Gratiot	MI
16	Hillsdale	MI
16	Huron	MI
16	Ingham	MI
16	Ionia	MI
16	losco	MI
16	Isabella	MI
16	Jackson	MI
16	Kalamazoo	MI
16	Kalkaska	MI
16	Kent	MI
16	Lake	MI
16	Lapeer	MI
16	Leelanau	MI
16	Lenawee	MI
16	Livingston	MI
16	Luce	MI
16	Mackinac	MI
16	Macomb	MI
16	Manistee	MI
16	Mason	MI
16	Mecosta	MI
16	Midland	MI

MEA	County	State
15	Forest	PA
15	Mercer	PA
15	Venango	PA
15	Warren	PA
16	Alcona	MI
16	Allegan	MI
16	Alpena	MI
16	Antrim	MI
16	Arenac	MI
16	Barry	MI
16	Bay	MI
16	Benzie	MI
16	Branch	MI
16	Calhoun	MI
16	Charlevoix	MI
16	Cheboygan	MI
16	Chippewa	MI
16	Clare	MI
16	Clinton	MI
16	Crawford	MI
16	Eaton	MI
16	Washtenaw	MI
16	Wayne	MI
16	Wexford	MI
16	Allen	OH
16	Auglaize	ОН
16	Defiance	OH
16	Fulton	OH
16	Hancock	OH
16	Hardin	OH
16	Henry	OH
16	Lucas	ОН
16	Mercer	ОН
16	Ottawa	OH
16	Paulding	ОН
16	Putnam	ОН
16	Sandusky	OH
16	Seneca	ОН
16	Van Wert	ОН
16	Williams	OH
16	Wood	OH
16	Wyandot	OH
17	Allamakee	IA
17	Clayton	IA
17	Delaware	IA
17	Dubuque	IA
17	Jackson	IA
17	Jo Daviess	IL
17	Alger	MI
17	Baraga	MI
17	Delta	MI

MEA	County	State
16	Missaukee	MI
16	Monroe	MI
16	Montcalm	MI
16	Montmorency	MI
16	Muskegon	MI
16	Newaygo	MI
16	Oakland	MI
16	Oceana	MI
16	Ogemaw	MI
16	Osceola	MI
16	Oscoda	MI
16	Otsego	MI
16	Ottawa	MI
16	Presque Isle	MI
16	Roscommon	MI
16	Saginaw	MI
16	Sanilac	MI
16	Shiawassee	MI
16	St. Clair	MI
16	Tuscola	MI
16	Van Buren	MI
17	Dane	WI
17	Dodge	WI
17	Door	WI
17	Florence	WI
17	Fond du Lac	WI
17	Forest	WI
17	Grant	WI
17	Green	WI
17	Green Lake	WI
17	lowa	WI
17	Iron	WI
17	Jackson	WI
17	Jefferson	WI
17	Juneau	WI
17	Kewaunee	WI
17	La Crosse	WI
17	Lafayette	WI
17	Langlade	WI
17	Lincoln	WI
17	Manitowoc	WI
17	Marathon	WI
17	Marinette	WI
17	Marquette	WI
17	Menominee	WI
17	Milwaukee	WI
17	Monroe	WI
17	Oconto	WI
17	Oneida	WI
17	Outagamie	WI
17	Ozaukee	WI

MEA	County	State
17	Dickinson	MI
17	Gogebic	MI
17	Houghton	MI
17	Iron	MI
17	Keweenaw	MI
17	Marquette	MI
17	Menominee	MI
17	Ontonagon	MI
17	Schoolcraft	MI
17	Houston	MN
17	Adams	WI
17	Ashland	WI
17	Bayfield	WI
17	Brown	WI
17	Calumet	WI
17	Clark	WI
17	Columbia	WI
17	Crawford	WI
18	Adams	IL
18	Boone	IL
18	Brown	IL
18	Bureau	IL
18	Carroll	IL
18	Cass	IL
18	Champaign	IL
18	Christian	IL
18	Clay	IL
18	Coles	IL
18	Cook	IL
18	Cumberland	IL
18	De Witt	IL
18	DeKalb	IL
18	Douglas	IL
18	DuPage	IL
18	Edgar	IL
18	Effingham	IL
18	Fayette	IL
18	Ford	IL
18	Fulton	IL
18	Greene	IL
18	Grundy	IL
18	Iroquois	IL
18	Jasper	IL 
18	Kane	IL 
18	Kankakee	IL 
18	Kendall	IL 
18	Knox	IL 
18	La Salle	IL 
18	Lake	IL "
18	Lee	IL "
18	Livingston	IL

MEA	County	State
17	Portage	WI
17	Price	WI
17	Racine	WI
17	Richland	WI
17	Sauk	WI
17	Shawano	WI
17	Sheboygan	WI
17	Taylor	WI
17	Trempealeau	WI
17	Vernon	WI
17	Vilas	WI
17	Walworth	WI
17	Washington	WI
17	Waukesha	WI
17	Waupaca	WI
17	Waushara	WI
17	Winnebago	WI
17	Wood	WI
18	Putnam	IL
18	Sangamon	IL
18	Schuyler	IL
18	Scott	IL
18	Shelby	IL
18	Stark	IL
18	Stephenson	IL
18	Tazewell	L
18	Vermilion	IL
18	Warren	IL
18	Will	IL
18	Winnebago	IL
18	Woodford	IL
18	Adams	IN
18	Allen	IN
18	Blackford	IN
18	De Kalb	IN
18	Elkhart	IN
18	Fulton	IN
18	Grant	IN
18	Huntington	IN
18	Jasper	IN
18	Jay	IN
18	Kosciusko	IN
18	La Porte	IN
18	Lagrange	IN
18	Lake	IN
18	Marshall	IN
18	Newton	IN
18	Noble	IN
18	Porter	IN
18	Pulaski	IN
18	St. Joseph	IN

MEA	County	State
18	Logan	IL
18	Macon	IL
18	Marshall	IL
18	Mason	IL
18	McDonough	IL
18	McHenry	IL
18	McLean	IL
18	Menard	İL
18	Montgomery	İL
18	Morgan	İL
18	Moultrie	IL
18	Ogle	İL
18	Peoria	IL
18	Piatt	IL
18	Pike	IL
19	Benton	IN
19	Boone	IN
19	Brown	IN
19	Carroll	IN
19	Cass	IN
19	Clay	IN
19	Clinton	IN
19	Decatur	IN
19	Delaware	IN
19	Fayette	IN
19	Fountain	IN
19	Greene	IN
19	Hamilton	IN
19	Hancock	IN
19	Hendricks	IN
19	Henry	IN
19	Howard	IN
19	Jackson	IN
19	Jennings	IN
19	Johnson	IN
19	Lawrence	IN
19	Madison	IN
19	Marion	IN
19	Miami	IN
19	Monroe	IN
19	Montgomery	IN
19	Morgan	IN
19	Orange	IN
19	Owen	IN
19	Parke	IN
19	Putnam	IN
19	Randolph	IN
19	Rush	IN
19	Shelby	IN
19	Sullivan	IN
19	Tippecanoe	IN

MEA	County	State
18	Starke	IN
18	Steuben	IN
18	Wabash	IN
18	Wells	IN
18	Whitley	IN
18	Berrien	MI
18	Cass	MI
18	St. Joseph	MI
18	Lewis	MO
18	Marion	MO
18	Ralls	MO
18	Kenosha	WI
18	Rock	WI
19	Clark	IL
19	Bartholomew	IN
20	Anoka	MN
20	Becker	MN
20	Beltrami	MN
20	Benton	MN
20	Big Stone	MN
20	Blue Earth	MN
20	Brown	MN
20	Carlton	MN
20	Carver	MN
20	Cass	MN
20	Chippewa	MN
20	Chisago	MN
20	Clay	MN
20	Clearwater	MN
20	Cook	MN
20	Cottonwood	MN
20	Crow Wing	MN
20	Dakota	MN
20	Dodge	MN
20	Douglas	MN
20	Faribault	MN
20	Fillmore	MN
20	Freeborn	MN
20	Goodhue	MN
20	Grant	MN
20	Hennepin	MN
20	Hubbard	MN
20	Isanti	MN
20	Itasca	MN
20	Jackson	MN
20	Kanabec	MN
20	Kandiyohi	MN
20	Kittson	MN
20	Koochiching	MN
20	Lac qui Parle	MN
20	Lake	MN

MEA	County	State
19	Tipton	IN
19	Union	IN
19	Vermillion	IN
19	Vigo	IN
19	Warren	IN
19	Wayne	IN
19	White	IN
20	Howard	IA
20	Lyon	IA
20	Osceola	IA
20	Winneshiek	IA
20	Aitkin	MN
20	Murray	MN
20	Nicollet	MN
20	Nobles	MN
20	Norman	MN
20	Olmsted	MN
20	Otter Tail	MN
20	Pennington	MN
20	Pine	MN
20	Pipestone	MN
20	Polk	MN
20	Pope	MN
20	Ramsey	MN
20	Red Lake	MN
20	Redwood	MN
20	Renville	MN
20	Rice	MN
20	Rock	MN
20	Roseau	MN
20	Scott	MN
20	Sherburne	MN
20	Sibley	MN
20	St. Louis	MN
20	Stearns	MN
20	Steele	MN
20	Stevens	MN
20	Swift	MN
20	Todd	MN
20	Traverse	MN
20	Wabasha	MN
20	Wadena	MN
20	Waseca	MN
20	Washington	MN
20	Watonwan	MN
20	Wilkin	MN
20	Winona	MN
20	Wright	MN
20	Yellow Medicine	MN
20	Wibaux	MT
20	Barnes	ND

MEA	County	State
20	Lake of the Woods	MN
20	Le Sueur	MN
20	Lincoln	MN
20	Lyon	MN
20	Mahnomen	MN
20	Marshall	MN
20	Martin	MN
20	McLeod	MN
20	Meeker	MN
20	Mille Lacs	MN
20	Morrison	MN
20	Mower	MN
20	Divide	ND
20	Dunn	ND
20	Eddy	ND
20	Emmons	ND
20	Foster	ND
20	Golden Valley	ND
20	Grand Forks	ND
20	Grant	ND
20	Griggs	ND
20	Hettinger	ND
20	Kidder	ND
20	LaMoure	ND
20	Logan	ND
20	McHenry	ND
20	McIntosh	ND
20	McKenzie	ND
20	McLean	ND
20	Mercer	ND
20	Morton	ND
20	Mountrail	ND
20	Nelson	ND
20	Oliver	ND
20	Pembina	ND
20	Pierce	ND
20	Ramsey	ND
20	Ransom	ND
20	Renville	ND
20	Richland	ND
20	Rolette	ND
20	Sargent	ND
20	Sheridan	ND
20	Sioux	ND
20	Slope	ND
20	Stark	ND
20	Steele	ND
20	Stutsman	ND
20	Towner	ND
20	Traill	ND
20	Walsh	ND

MEA	County	State
20	Benson	ND
20	Billings	ND
20	Bottineau	ND
20	Bowman	ND
20	Burke	ND
20	Burleigh	ND
20	Cass	ND
20	Cavalier	ND
20	Dickey	ND
20	Brown	SD
20	Brule	SD
20	Buffalo	SD
20	Campbell	SD
20	Charles Mix	SD
20	Clark	SD
20	Clay	SD
20	Codington	SD
20	Corson	SD
20	Davison	SD
20	Day	SD
20	Deuel	SD
20	Dewey	SD
20	Douglas	SD
20	Edmunds	SD
20	Faulk	SD
20	Grant	SD
20	Gregory	SD
20	Hamlin	SD
20	Hand	SD
20	Hanson	SD
20	Hughes	SD
20	Hutchinson	SD
20	Hyde	SD
20	Jerauld	SD
20	Kingsbury	SD
20	Lake	SD
20	Lincoln	SD
20	Lyman	SD
20	Marshall	SD
20	McCook	SD
20	McPherson	SD
20	Miner	SD
20	Minnehaha	SD
20	Moody	SD
20	Potter	SD
20	Roberts	SD
20	Sanborn	SD
20	Spink	SD
20	Stanley	SD
20	Sully	SD
20	Tripp	SD

MEA	County	State
20	Ward	ND
20	Wells	ND
20	Williams	ND
20	Cedar	NE
20	Knox	NE
20	Aurora	SD
20	Beadle	SD
20	Bon Homme	SD
20	Brookings	SD
20	Burnett	WI
20	Chippewa	WI
20	Douglas	WI
20	Dunn	WI
20	Eau Claire	WI
20	Pepin	WI
20	Pierce	WI
20	Polk	WI
20	Rusk	WI
20	Sawyer	WI
20	St. Croix	WI
20	Washburn	WI
21	Adair	IA
21	Appanoose	IA
21	Benton	IA
21	Black Hawk	IA
21	Boone	IA
21	Bremer	IA
21	Buchanan	IA
21	Buena Vista	IA
21	Butler	IA
21	Calhoun	IA
21	Carroll	IA
21	Cedar	IA
21	Cerro Gordo	IA
21	Cherokee	IA
21	Chickasaw	IA
21	Clarke	IA
21	Clay	IA
21	Clinton	IA
21	Crawford	IA
21	Dallas	IA
21	Davis	IA
21	Decatur	IA
21	Des Moines	IA
21	Dickinson	IA
21	Emmet	IA
21	Fayette	IA
21	Floyd	IA
21	Franklin	IA
21	Greene	IA
21	Grundy	IA

MEA	County	State
20	Turner	SD
20	Walworth	SD
20	Yankton	SD
20	Ziebach	SD
20	Barron	WI
20	Buffalo	WI
21	Ida	IA
21	lowa	IA
21	Jasper	IA
21	Jefferson	IA
21	Johnson	IA
21	Jones	IA
21	Keokuk	IA
21	Kossuth	ΙA
21	Lee	ΙA
21	Linn	IA
21	Louisa	ΙA
21	Lucas	ΙA
21	Madison	ΙA
21	Mahaska	ΙA
21	Marion	ΙA
21	Marshall	ΙA
21	Mitchell	ΙA
21	Monona	IA
21	Monroe	IA
21	Muscatine	IA
21	O'Brien	IA
21	Palo Alto	IA
21	Plymouth	IA
21	Pocahontas	IA
21	Polk	IA
21	Poweshiek	IA
21	Ringgold	IA
21	Sac	IA
21	Scott	IA
21	Sioux	IA
21	Story	IA
21	Tama	IA
21	Union	IA
21	Van Buren	IA
21	Wapello	IA
21	Warren	IA
21	Washington	IA
21	Wayne	IA
21	Webster	IA
21	Winnebago	IA
21	Woodbury	IA
21	Worth	IA
21	Wright	IA
21	Hancock	IL
21	Henderson	IL

MEA	County	State
21	Guthrie	IA
21	Hamilton	IA
21	Hancock	IA
21	Hardin	IA
21	Henry	IA
21	Humboldt	IA
21	Whiteside	IL
21	Clark	MO
21	Scotland	MO
21	Dakota	NE
21	Dixon	NE
21	Thurston	NE
21	Union	SD
22	Anderson	TN
22	Blount	TN
22	Campbell	TN
22	Carter	TN
22	Cocke	TN
22	Grainger	TN
22	Greene	TN
22	Hamblen	TN
22	Hancock	TN
22	Hawkins	TN
22	Jefferson	TN
22	Knox	TN
22	Loudon	TN
22	Morgan	TN
22	Roane	TN
22	Scott	TN
22	Sevier	TN
22	Sullivan	TN
22	Unicoi	TN
22	Union	TN
22	Washington	TN
22	Bristol City	VA
22	Scott	VA
22	Smyth	VA
22	Washington	VA
23	Crawford	IL
23	Edwards	IL
23	Lawrence	IL
23	Massac	IL
23	Richland	IL
23	Wabash	IL 
23	Wayne	IL 
23	White	IL
23	Clark	IN
23	Crawford	IN
23	Daviess	IN
23	Dubois	IN
23	Floyd	IN

MEA	County	State
21	Henry	State IL
21	Mercer	IL
21	Rock Island	IL
23	Knox	IN
23	Martin	IN
23		IN
23	Perry Pike	IN
		IN
23	Posey	
23	Scott	IN
23	Spencer	IN
23	Vanderburgh	IN
23	Warrick	IN
23	Washington	IN
23	Adair	KY
23	Anderson	KY
23	Ballard	KY
23	Bath	KY
23	Bell	KY
23	Bourbon	KY
23	Boyle	KY
23	Breathitt	KY
23	Breckinridge	KY
23	Bullitt	KY
23	Caldwell	KY
23	Calloway	KY
23	Carlisle	KY
23	Carroll	KY
23	Casey	KY
23	Clark	KY
23	Clay	KY
23	Clinton	KY
23	Crittenden	KY
23	Daviess	KY
23	Estill	KY
23	Fayette	KY
23	Fleming	KY
23	Floyd	KY
23	Franklin	KY
23	Garrard	KY
23	Graves	KY
23	Grayson	KY
23	Green	KY
23	Hancock	KY
23	Hardin	KY
23	Harlan	KY
23	Harrison	KY
23	Henderson	KY
23	Henry	KY
23	Hopkins	KY
23	Jackson	KY
23	Jefferson	KY

MEA	County	State
23	Gibson	IN
23	Harrison	IN
23	Jefferson	IN
23	Jessamine	KY
23	Johnson	KY
23	Knott	KY
23	Knox	KY
23	Larue	KY
23	Laurel	KY
23	Lawrence	KY
23	Lee	KY
23	Leslie	KY
23	Letcher	KY
23	Lincoln	KY
23	Livingston	KY
23	Lyon	KY
23	Madison	KY
23	Magoffin	KY
23	Marion	KY
23	Marshall	KY
23	Martin	KY
23	McCracken	KY
23	McCreary	KY
23	McLean	KY
23	Meade	KY
23	Menifee	KY
23	Mercer	KY
23	Montgomery	KY
23	Morgan	KY
23	Muhlenberg	KY
23	Nelson	KY
23	Nicholas	KY
23	Ohio	KY
23	Oldham	KY
23	Owen	KY
23	Owsley	KY
23	Perry	KY
23	Pike	KY
23	Powell	KY
23	Pulaski	KY
23	Robertson	KY
23	Rockcastle	KY
23	Rowan	KY
23	Russell	KY
23	Scott	KY
23	Shelby	KY
23	Spencer	KY
23	Taylor	KY
23	Trimble	KY
23	Union	KY
23	Washington	KY

MEA	County	State
23	Wayne	KY
23	Webster	KY
23	Whitley	KY
23	Wolfe	KY
23	Woodford	KY
23	Claiborne	TN
23	Bland	VA
23	Buchanan	VA
23	Dickenson	VA
23	Lee	VA
23	Norton City	VA
23	Russell	VA
23	Tazewell	VA
23	Wise	VA
23	McDowell	WV
23	Mercer	WV
23	Mingo	WV
24	Autauga	AL
24	Barbour	AL
24	Bibb	AL
24	Blount	AL
24	Bullock	AL
24	Butler	AL
24	Calhoun	AL
24	Chilton	AL
24	Coffee	AL
24	Colbert	AL
24	Covington	AL
24	Crenshaw	AL
24	Cullman	AL
24	Dale	AL
24	Dallas	AL
24	DeKalb	AL
24	Elmore	AL
24	Etowah	AL
24	Fayette	AL
24	Franklin	AL
24	Geneva	AL
24	Hale	AL
24	Henry	AL
24	Houston	AL
24	Jackson	AL
24	Jefferson	AL
24	Lauderdale	AL
24	Lawrence	AL
24	Limestone	AL
24	Lowndes	AL
24	Madison	AL
25	Lewis	TN
25	Macon	TN
25	Marshall	TN

MEA	County	State
24	Marion	AL
24	Marshall	AL
24	Montgomery	AL
24	Morgan	AL
24	Perry	AL
24	Pike	AL
24	Shelby	AL
24	St. Clair	AL
24	Talladega	AL
24	Tuscaloosa	AL
24	Walker	AL
24	Winston	AL
24	Holmes	FL
24	Washington	FL
24	Quitman	GA
24	Lincoln	TN
25	Allen	KY
25	Barren	KY
25	Butler	KY
25	Christian	KY
25	Cumberland	KY
25	Edmonson	KY
25	Hart	KY
25	Logan	KY
25	Metcalfe	KY
25	Monroe	KY
25	Simpson	KY
25	Todd	KY
25	Trigg	KY
25	Warren	KY
25	Bedford	TN
25	Cannon	TN
25	Cheatham	TN
25	Clay	TN
25	Coffee	TN
25	Cumberland	TN
25	Davidson	TN
25	DeKalb	TN
25	Dickson	TN
25	Fentress	TN
25	Franklin	TN
25	Giles	TN
25	Grundy	TN
25	Houston	TN TN
25	Houston	TN
25	Humphreys	
25	Jackson	TN
25	Lawrence	TN MS
26	Choctaw	
26	Claiborne	MS
26	Clarke	MS

MEA	County	State
25	Maury	TN
25	Montgomery	TN
25	Moore	TN
25	Overton	TN
25	Perry	TN
25	Pickett	TN
25	Putnam	TN
25	Robertson	TN
25	Rutherford	TN
25	Smith	TN
25	Stewart	TN
25	Sumner	TN
25	Trousdale	TN
25	Van Buren	TN
25	Warren	TN
25	Wayne	TN
25	White	TN
25	Williamson	TN
25	Wilson	TN
26	Choctaw	AL
26	Greene	AL
26	Lamar	AL
26	Marengo	AL
26	Pickens	AL
26	Sumter	AL
26	Crittenden	AR
26	Cross	AR
26	Lee	AR
26	Phillips	AR
26	St. Francis	AR
26	Fulton	KY
26	Hickman	KY
26	Catahoula	LA
26	Concordia	LA
26	Madison	LA
26	Tensas	LA
26	Adams	MS
26	Alcorn	MS
26	Amite	MS
26	Attala	MS
26	Benton	MS
26	Bolivar	MS
26	Calhoun	MS
26	Carroll	MS
26	Chickasaw	MS
26	Sharkey	MS
26	Simpson	MS
26	Smith	MS
26	Sunflower	MS
26	Tallahatchie	MS
26	Tate	MS

MEA	County	State
26	Clay	MS
26	Coahoma	MS
26	Copiah	MS
26	Covington	MS
26	DeSoto	MS
26	Forrest	MS
26	Franklin	MS
26	Greene	MS
26	Grenada	MS
26	Hinds	MS
26	Holmes	MS
26	Humphreys	MS
26	Issaquena	MS
26	Itawamba	MS
26	Jasper	MS
26	Jefferson	MS
26	Jefferson Davis	MS
26	Jones	MS
26	Kemper	MS
26	Lafayette	MS
26	Lamar	MS
26	Lauderdale	MS
26	Lawrence	MS
26	Leake	MS
26	Lee	MS
26	Leflore	MS
26	Lincoln	MS
26	Lowndes	MS
26	Madison	MS
26	Marion	MS
26	Marshall	MS
26	Monroe	MS
26	Montgomery	MS
26	Neshoba	MS
26	Newton	MS
26	Noxubee	MS
26	Oktibbeha	MS
26	Panola	MS
26	Perry	MS
26	Pike	MS
26	Pontotoc	MS
26	Prentiss	MS
26	Quitman	MS
26	Rankin	MS
26	Scott	MS
27	Okaloosa	FL
27	Santa Rosa	FL
27	Walton	FL
27	Acadia	LA
27	Ascension	LA
27	Assumption	LA

MEA	County	State
26	Tippah	MS
26	Tishomingo	MS
26	Tunica	MS
26	Union	MS
26	Walthall	MS
26	Warren	MS
		MS
26 26	Washington	
26	Wayne	MS
	Webster	MS
26	Winston	MS
26	Yalobusha	MS
26	Yazoo	MS
26	Benton	TN
26	Carroll	TN
26	Chester	TN
26	Crockett	TN
26	Decatur	TN
26	Dyer	TN
26	Fayette	TN
26	Gibson	TN
26	Hardeman	TN
26	Hardin	TN
26	Haywood	TN
26	Henderson	TN
26	Henry	TN
26	Lake	TN
26	Lauderdale	TN
26	Madison	TN
26	McNairy	TN
26	Obion	TN
26	Shelby	TN
26	Tipton	TN
26	Weakley	TN
27	Baldwin	AL
27	Clarke	AL
27	Conecuh	AL
27	Escambia	AL
27	Mobile	AL
27	Monroe	AL
27	Washington	AL
27	Wilcox	AL
27	Escambia	FL
28	Chicot	AR
28	Clark	AR
28	Clay	AR
28	Cleburne	AR
28	Cleveland	AR
28	Conway	AR
28	Craighead	AR
28	Crawford	AR
28	Dallas	AR
		• • • • •

MEA	County	State
27	East Baton Rouge	LA
27	East Feliciana	LA
27	Evangeline	LA
27	Iberia	LA
27	Iberville	LA
27	Jefferson	LA
27	Lafayette	LA
27	Lafourche	LA
27	Livingston	LA
27	Orleans	LA
27	Plaquemines	LA
27	Pointe Coupee	LA
27	St. Bernard	LA
27	St. Charles	LA
27	St. Helena	LA
27	St. James	LA
27	St. John the Baptist	LA
27	St. Landry	LA
27	St. Martin	LA
27	St. Mary	LA
27	St. Tammany	LA
27	Tangipahoa	LA
27	Terrebonne	LA
27	Vermilion	LA
27	Washington	LA
27	West Baton Rouge	LA
27	West Feliciana	LA
27	George	MS
27	Hancock	MS
27	Harrison	MS
27	Jackson	MS
27	Pearl River	MS
27	Stone	MS
27	Wilkinson	MS
28	Arkansas	AR
28	Ashley	AR
28	Baxter	AR
28	Benton	AR
28	Boone	AR
28	Bradley	AR
28	Calhoun	AR
28	Carroll	AR
28	Sharp	AR
28	Stone	AR
28	Union	AR
28	Van Buren	AR
28	Washington	AR
28	White	AR
28	Woodruff	AR
28	Yell	AR
28	Dunklin	MO

MEA	County	State
28	Desha	AR
28	Drew	AR
28	Faulkner	AR
28	Franklin	AR
28	Fulton	AR
28	Garland	AR
28	Grant	AR
28	Greene	AR
28	Hempstead	AR
28	Hot Spring	AR
28	Howard	AR
28	Independence	AR
28	Izard	AR
28	Jackson	AR
28	Jefferson	AR
28	Johnson	AR
L		
28	Lawrence	AR
28	Lincoln	AR
28	Logan	AR
28	Lonoke	AR
28	Madison	AR
28	Marion	AR
28	Mississippi	AR
28	Monroe	AR
28	Montgomery	AR
28	Nevada	AR
28	Newton	AR
28	Ouachita	AR
28	Perry	AR
28	Pike	AR
28	Poinsett	AR
28	Pope	AR
28	Prairie	AR
28	Pulaski	AR
28	Randolph	AR
28	Saline	AR
28	Scott	AR
28	Searcy	AR
28	Sebastian	AR
29	Adair	MO
29	Andrew	MO
29	Barton	MO
29	Bates	MO
29	Benton	MO
29	Buchanan	MO
29	Caldwell	MO
29	Carroll	MO
29	Cass	MO
29	Cedar	MO
29	Chariton	MO
29	Clay	MO

MEA	County	State
28	McDonald	MO
28	Pemiscot	MO
28	Adair	OK
28	Delaware	OK
28	Haskell	OK
28	Latimer	OK
28	Le Flore	OK
28	Sequoyah	OK
29	Anderson	KS
29	Atchison	KS
29	Bourbon	KS
29	Brown	KS
29	Chase	KS
29	Cherokee	KS
29	Clay	KS
29	Coffey	KS
29	Crawford	KS
29	Dickinson	KS
29	Doniphan	KS
29	Douglas	KS
29	Franklin	KS
29	Geary	KS
29	Jackson	KS
29	Jefferson	KS
29	Johnson	KS
29	Leavenworth	KS
29	Linn	KS
29	Lyon	KS
29	Marshall	KS
29	Miami	KS
29	Morris	KS
29	Nemaha	KS
29	Osage	KS
29	Pottawatomie	KS
29	Riley	KS
29	Shawnee	KS
29	Wabaunsee	KS
29	Washington	KS
29	Wyandotte	KS
30	Hamilton	IL
30	Hardin	L
30	Jackson	IL
30	Jefferson	L
30	Jersey	IL
30	Johnson	IL
30	Macoupin	IL
30	Madison	IL
30	Marion	IL
30	Monroe	IL
30	Perry	IL
30	Pope	IL

MEA	County	State
29	Clinton	MO
29	Daviess	MO
29	DeKalb	MO
29	Gentry	MO
29	Grundy	MO
29	Harrison	MO
29	Henry	MO
29	Holt	MO
29	Jackson	MO
29	Jasper	MO
29	Johnson	MO
29	Knox	MO
29	Lafayette	MO
29	Linn	MO
29	Livingston	MO
29	Macon	MO
29	Mercer	MO
29	Newton	MO
29	Nodaway	MO
29	Pettis	MO
29	Platte	MO
29	Putnam	MO
29	Ray	MO
29	Saline	MO
29	Schuyler	MO
29	St. Clair	MO
29	Sullivan	MO
29	Vernon	MO
29	Worth	MO
29	Ottawa	OK
30	Alexander	IL
30	Bond	IL
30	Calhoun	IL
30	Clinton	IL
30	Franklin	IL
30	Gallatin	IL
30	Maries	MO
30	Miller	MO
30	Mississippi	MO
30	Moniteau	MO
30	Monroe	MO
30	Montgomery	MO
30	Morgan	MO
30	New Madrid	MO
30	Oregon	MO
30	Osage	MO
30	Ozark	MO
30	Perry	MO
30	Phelps	MO
30	Pike	MO
30	Polk	MO
	•	

MEA	County	State
30	Pulaski	IL
30	Randolph	IL
30	Saline	IL
30	St. Clair	IL
30	Union	IL
30	Washington	IL
30	Williamson	IL
30	Audrain	MO
30	Barry	MO
30	Bollinger	MO
30	Boone	MO
30	Butler	MO
30	Callaway	MO
30	Camden	MO
30	Cape Girardeau	MO
30	Carter	MO
30	Christian	MO
30	Cole	MO
30	Cooper	MO
30	Crawford	MO
30	Dade	MO
30	Dallas	MO
30	Dent	MO
30	Douglas	MO
30	Franklin	MO
30	Gasconade	MO
30	Greene	MO
30	Hickory	MO
30	Howard	MO
30	Howell	MO
30	Iron	MO
30	Jefferson	MO
30	Laclede	MO
30	Lawrence	MO
30	Lincoln	MO
30	Madison	MO
31	Brazoria	TX
31	Brazos	TX
31	Burleson	TX
31	Calhoun	TX
31	Chambers	TX
31	Colorado	TX
31	DeWitt	TX
31	Fayette	TX
31	Fort Bend	TX
31	Freestone	TX
31	Galveston	TX
31	Goliad	TX
31	Grimes	TX
31	Hardin	TX
31	Harris	TX

MEA	County	State
30	Pulaski	MO
30	Randolph	MO
30	Reynolds	MO
30	Ripley	MO
30	Scott	MO
30	Shannon	MO
30	Shelby	MO
30	St. Charles	MO
30	St. Francois	MO
30	St. Louis	MO
30	St. Louis City	MO
30	Ste. Genevieve	MO
30	Stoddard	MO
30	Stone	MO
30		MO
30	Taney	
	Texas	MO
30	Warren	MO
30	Washington	MO
30	Wayne	MO
30	Webster	MO
30	Wright	MO
31	Allen	LA
31	Avoyelles	LA
31	Beauregard	LA
31	Calcasieu	LA
31	Cameron	LA
31	Grant	LA
31	Jefferson Davis	LA
31	La Salle	LA
31	Rapides	LA
31	Vernon	LA
31	Angelina	TX
31	Austin	TX
32	Bienville	LA
32	Bossier	LA
32	Caddo	LA
32	Caldwell	LA
32	Claiborne	LA
32	De Soto	LA
32	East Carroll	LA
32	Franklin	LA
32	Jackson	LA
32	Lincoln	LA
32	Morehouse	LA
32	Natchitoches	LA
32	Ouachita	LA
32	Red River	LA
32	Richland	LA
32	Sabine	LA
32	Union	LA
32	Webster	LA

MEA	County	State
31	Houston	TX
31	Jackson	TX
31	Jasper	TX
31	Jefferson	TX
31	Lavaca	TX
31	Leon	TX
31	Liberty	TX
31	Limestone	TX
31	Madison	TX
31	Matagorda	TX
31	Montgomery	TX
31	Nacogdoches	TX
31	Newton	TX
31	Orange	TX
31	Polk	TX
31	Robertson	TX
31	Sabine	TX
31	San Augustine	TX
31	San Jacinto	TX
31	Shelby	TX
31	Trinity	TX
31	Tyler	TX
31	Victoria	TX
31	Walker	TX
31	Waller	TX
31	Washington	TX
31	Wharton	TX
32	Columbia	AR
32	Lafayette	AR
32	Little River	AR
32	Miller	AR
32	Polk	AR
32	Sevier	AR
32	Callahan	TX
32	Camp	TX
32	Carson	TX
32	Cass	TX
32	Castro	TX
32	Cherokee	TX
32	Childress	TX
32	Clay	TX
32	Cochran	TX
32	Coke	TX
32	Coleman	TX
32	Collin	TX
32	Collingsworth	TX
32	Comanche	TX
32	Concho	TX
32	Cooke	TX
32	Coryell	TX
32	Cottle	TX

MEA	County	State
32	West Carroll	LA
32	Winn	LA
32	Curry	NM
32	DeBaca	NM
32	Harding	NM
32	Quay	NM
32	Roosevelt	NM
32	Union	NM
32	Bryan	OK
32	Choctaw	OK
32	McCurtain	OK
32	Pushmataha	OK
32	Tillman	OK
32	Anderson	TX
32	Andrews	TX
32	Archer	TX
32	Armstrong	TX
32	Bailey	TX
32	Bastrop	TX
32	Baylor	TX
32	Bell	TX
32	Blanco	TX
32	Borden	TX
32	Bosque	TX
32	Bowie	TX
32	Brewster	TX
32	Briscoe	TX
32	Brown	TX
32	Burnet	TX
32	Caldwell	TX
32	Hansford	TX
32	Hardeman	TX
32	Harrison	TX
32	Hartley	TX
32	Haskell	TX
32	Hays	TX
32	Hemphill	TX
32	Henderson	TX
32	Hill	TX
32	Hockley	TX
32	Hood	TX
32	Hopkins	TX
32	Howard	TX
32	Hunt	TX
32	Hutchinson	TX
32	Irion	TX
32	Jack	TX
32	Jeff Davis	TX
32	Johnson	TX
32	Jones	TX
32	Kaufman	TX

MEA	County	State
32	Crane	TX
32	Crockett	TX
32	Crosby	TX
32	Dallam	TX
32	Dallas	TX
32	Dawson	TX
32	Deaf Smith	TX
32	Delta	TX
32	Denton	TX
32	Dickens	TX
32	Donley	TX
32	Eastland	TX
32	Ector	TX
32	Edwards	TX
32	Ellis	TX
32	Erath	TX
32	Falls	TX
32	Fannin	TX
32	Fisher	TX
32	Floyd	TX
32	Foard	TX
32	Franklin	TX
32	Garza	TX
32	Glasscock	TX
32	Gray	TX
32	Grayson	TX
32	Gregg	TX
32	Hale	TX
32	Hall	TX
32	Hamilton	TX
32	Motley	TX
32	Navarro	TX
32	Nolan	TX
32	Ochiltree	TX
32	Oldham	TX
32	Palo Pinto	TX
32	Panola	TX
32	Parker	TX
32	Parmer	TX
32	Pecos	TX
32	Potter	TX
32	Presidio	TX
32	Rains	TX
32	Randall	TX
32	Reagan	TX
32	Red River	TX
32	Reeves	TX
32	Roberts	TX
32	Rockwall	TX
32	Runnels	TX
32	Rusk	TX

MEA	County	State
32	Kent	TX
32	Kimble	TX
32	King	TX
32	Kinney	TX
32	Knox	TX
32	Lamar	TX
32	Lamb	TX
32	Lampasas	TX
32	Lee	TX
32	Lipscomb	TX
32	Llano	TX
32	Loving	TX
32	Lubbock	TX
32	Lynn	TX
32	Marion	TX
32	Martin	TX
32	Mason	TX
32	McCulloch	TX
32	McLennan	TX
32	Menard	TX
32	Midland	TX
32	Milam	TX
32	Mills	TX
32	Mitchell	TX
32	Montague	TX
32	Moore	TX
32	Morris	TX
32	Wilbarger	TX
32	Williamson	TX
32	Winkler	TX
32	Wise	TX
32	Wood	TX
32	Young	TX
33	Adams	CO
33	Alamosa	CO
33	Arapahoe	CO
33	Baca	CO
33	Bent	CO
33	Boulder	CO
33	Chaffee	CO
33	Cheyenne	CO
33	Clear Creek	CO
33	Conejos	CO
33	Costilla	CO
33	Crowley	CO
33	Custer	CO
33	Delta	CO
33	Denver	CO
33	Douglas	CO
33	Eagle	CO
33	El Paso	CO

MEA	County	State
32	San Saba	TX
32	Schleicher	TX
32	Scurry	TX
32	Shackelford	TX
32	Sherman	TX
32	Smith	TX
32	Somervell	TX
32	Stephens	TX
32	Sterling	TX
32	Stonewall	TX
32	Sutton	TX
32	Swisher	TX
32	Tarrant	TX
32	Taylor	TX
32	Terrell	TX
32	Terry	TX
32	Throckmorton	TX
32	Titus	TX
32	Tom Green	TX
32	Travis	TX
32	Upshur	TX
32	Upton	TX
32	Val Verde	TX
32	Van Zandt	TX
32	Ward	TX
32	Wheeler	TX
32	Wichita	TX
33	Park	CO
33	Phillips	CO
33	Pitkin	CO
33	Prowers	CO
33	Pueblo	CO
33	Rio Blanco	CO
33	Rio Grande	CO
33	Routt	CO
33	Saguache	CO
33	San Miguel	CO
33	Summit	CO
33	Teller	CO
33	Washington	CO
33	Weld	CO
33	Yuma	CO
33	Bear Lake	ID
33	Caribou	ID
33	Cheyenne	KS
33	Gove	KS
33	Logan	KS
33	Sheridan	KS
33	Sherman	KS
33	Thomas	KS
33	Wallace	KS

MEA	County	State
33	Elbert	CO
33	Fremont	CO
33	Garfield	CO
33	Gilpin	CO
33	Grand	CO
33	Gunnison	CO
33	Hinsdale	CO
33	Huerfano	CO
33	Jackson	CO
33	Jefferson	CO
33	Kiowa	CO
33	Kit Carson	CO
33	Lake	CO
33	Larimer	CO
33	Las Animas	CO
33	Lincoln	CO
33		CO
33	Logan Mesa	CO
33	Mineral	
33	Moffat	CO CO
L		
33	Montrose	CO
33	Morgan	CO
33	Otero	CO
33	Ouray	CO
33	Meade	SD
33	Mellette	SD
33	Pennington	SD
33	Perkins	SD
33	Shannon	SD
33 33	Todd	SD
	Daggett	UT
33	Rich	UT
33	Albany	WY
33 33	Campbell	WY
L	Carbon	WY
33	Converse	WY
33	Crook	WY
33	Fremont	WY
33	Goshen	WY
33	Hot Springs	WY
33	Laramie	WY
33	Lincoln	WY
33	Natrona	WY
33	Niobrara	WY
33	Platte	WY
33	Sublette	WY
33	Sweetwater	WY
33	Uinta	WY
33	Washakie	WY
33	Weston	WY
34	Sedgwick	CO

MEA	County	State
33	Carter	MT
33	Adams	ND
33	Banner	NE
33	Box Butte	NE
33	Cherry	NE
33	Cheyenne	NE
33	Dawes	NE
33	Dundy	NE
33	Grant	NE
33	Kimball	NE
33	Morrill	NE
33	Scotts Bluff	NE
33	Sheridan	NE
33	Sioux	NE
33	Colfax	NM
33	Bennett	SD
33	Butte	SD
33	Custer	SD
33	Fall River	SD
33	Haakon	SD
33	Harding	SD
33	Jackson	SD
33	Jones	SD
33	Lawrence	SD
34	Butler	NE
34	Cass	NE
34	Chase	NE
34	Clay	NE
34	Colfax	NE
34	Cuming	NE
34	Custer	NE
34	Dawson	NE
34 34	Deuel	NE NE
34	Dodge	NE NE
34	Douglas	NE NE
34	Fillmore Franklin	NE NE
34	Frontier	NE
34	Furnas	NE
34	Gage	NE
34	Garden	NE
34	Garfield	NE
34	Gosper	NE
34	Greeley	NE
34	Hall	NE
34	Hamilton	NE
34	Harlan	NE
34	Hayes	NE
34	Hitchcock	NE
34	Holt	NE
34	Hooker	NE
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MEA	County	State
34	Adams	IA
34	Audubon	IA
34	Cass	IA
34	Fremont	IA
34	Harrison	IA
34	Mills	IA
34	Montgomery	IA
34	Page	IA
34	Pottawattamie	IA
34	Shelby	IA
34	Taylor	IA
34	Atchison	MO
34	Adams	NE
34	Antelope	NE
34	Arthur	NE
34	Blaine	NE
34	Boone	NE
34	Boyd	NE
34	Brown	NE
34	Buffalo	NE
34	Burt	NE
34	Platte	NE
34	Polk	NE
34	Red Willow	NE
34	Richardson	NE
34	Rock	NE
34	Saline	NE
34	Sarpy	NE
34	Saunders	NE
34	Seward	NE
34	Sherman	NE
34	Stanton	NE
34	Thayer	NE
34	Thomas	NE
34	Valley	NE
34	Washington	NE
34	Wayne	NE
34	Webster	NE
34	Wheeler	NE
34	York	NE
35	Barber	KS
35	Barton	KS
35	Butler	KS
35	Clark	KS
35	Cloud	KS
35	Comanche	KS
35	Cowley	KS
35	Decatur	KS
35	Edwards	KS
35	Elk	KS
35	Ellis	KS

MEA	County	State
34	Howard	NE
34	Jefferson	NE
34	Johnson	NE
34	Kearney	NE
34	Keith	NE
34	Keya Paha	NE
34	Lancaster	NE
34	Lincoln	NE
34	Logan	NE
34	Loup	NE
34	Madison	NE
34	McPherson	NE
34	Merrick	NE
34	Nance	NE
34	Nemaha	NE
34	Nuckolls	NE
34	Otoe	NE
34	Pawnee	NE
34	Perkins	NE
34	Phelps	NE
34	Pierce	NE
35	Lincoln	KS
35	Marion	KS
35	McPherson	KS
35	Meade	KS
35	Mitchell	KS
35	Morton	KS
35	Ness	KS
35	Norton	KS
35	Osborne	KS
35	Ottawa	KS
35	Pawnee	KS
35	Phillips	KS
35	Pratt	KS
35	Rawlins	KS
35	Reno	KS
35	Republic	KS
35	Rice	KS
35	Rooks	KS
35	Rush	KS
35	Russell	KS
35	Saline	KS
35	Scott	KS
35	Sedgwick	KS
35	Seward	KS
35	Smith	KS
35	Stafford	KS
35	Stanton	KS
35	Stevens	KS
35	Sumner	KS
35	Trego	KS

MEA	County	State
35	Ellsworth	KS
35	Finney	KS
35	Ford	KS
35	Graham	KS
35	Grant	KS
35	Gray	KS
35	Greeley	KS
35	Greenwood	KS
35	Hamilton	KS
35	Harper	KS
35	Harvey	KS
35	Haskell	KS
35		KS
35	Hodgeman Jewell	KS
		KS
35 35	Kearny	KS
35	Kingman	KS
35	Kiowa	KS
	Lane	
36	Noble	OK
36	Nowata	OK
36	Okmulgee	OK
36	Osage	OK
36	Pawnee	OK
36	Payne	OK
36	Pittsburg	OK
36	Rogers	OK
36	Tulsa	OK
36	Wagoner	OK
36	Washington	OK
37	Alfalfa	OK
37	Atoka	OK
37	Beckham	OK
37	Blaine	OK
37	Caddo	OK
37	Canadian	OK
37	Carter	OK
37	Cleveland	OK
37	Coal	OK
37	Comanche	OK
37	Cotton	OK
37	Custer	OK
37	Dewey	OK
37	Ellis	OK
37	Garfield	OK
37	Garvin	OK
37	Grady	OK
37	Grant	OK
37	Greer	OK
37	Harmon	OK
37	Harper	OK
37	Hughes	OK

MEA	County	State
35	Wichita	KS
35	Beaver	OK
35	Cimarron	OK
35	Texas	OK
36	Allen	KS
36	Chautauqua	KS
36	Labette	KS
36	Montgomery	KS
36	Neosho	KS
36	Wilson	KS
36	Woodson	KS
36	Cherokee	OK
36	Craig	OK
36	Creek	OK
36	Kay	OK
36	Mayes	OK
36	McIntosh	OK
36	Muskogee	OK
37	Pottawatomie	OK
37	Roger Mills	OK
37	Seminole	OK
37	Stephens	OK
37	Washita	OK
37	Woods	OK
37	Woodward	OK
38	Aransas	TX
38	Atascosa	TX
38	Bandera	TX
38	Bee	TX
38	Bexar	TX
38	Brooks	TX
38	Cameron	TX
38	Comal	TX
38	Dimmit	TX
38	Duval	TX
38	Frio	TX
38	Gillespie	TX
38	Gonzales	TX
38	Guadalupe	TX
38	Hidalgo	TX
38	Jim Hogg	TX
38	Jim Wells	TX
38	Karnes	TX
38	Kendall	TX
38	Kenedy	TX
38	Kerr	TX
38	Kleberg	TX
38	La Salle	TX
38	Live Oak	TX
38	Maverick	TX
38	McMullen	TX

MEA	State	
37	County Jackson	OK
37	Jefferson	OK
37	Johnston	OK
37	Kingfisher	OK
37	Kiowa	OK
37	Lincoln	OK
37	Logan	OK
37	Love	OK
37	Major	OK
37	Marshall	OK
37	McClain	OK
37	Murray	OK
37	Okfuskee	OK
37	Oklahoma	OK
37	Pontotoc	OK
39	La Plata	CO
39	Montezuma	CO
39	San Juan	CO
39	Bernalillo	NM
39	Catron	NM
39	Chaves	NM
39	Cibola	NM
39	Dona Ana	NM
39	Eddy	NM
39	Guadalupe	NM
39	Lea	NM
39	Lincoln	NM
39	Los Alamos	NM
39	McKinley	NM
39	Mora	NM
39	Otero	NM
39	Rio Arriba	NM
39	San Juan	NM
39	San Miguel	NM
39	Sandoval	NM
39	Santa Fe	NM
39	Sierra	NM
39	Socorro	NM
39	Taos	NM
39	Torrance	NM
39	Valencia	NM
39	Culberson	TX
39	El Paso	TX
39	Gaines	TX
39	Hudspeth	TX
39	Yoakum	TX
40	Cochise	AZ
40	Coconino	AZ
40	Gila	AZ
40	Graham	AZ
40	Greenlee	AZ

MEA	County	State
38	Medina	TX
38	Nueces	TX
38	Real	TX
38	Refugio	TX
38	San Patricio	TX
38	Starr	TX
38	Uvalde	TX
38	Webb	TX
38	Willacy	TX
38	Wilson	TX
38	Zapata	TX
38	Zavala	TX
39	Apache	AZ
39	Archuleta	CO
39	Dolores	CO
41	Bonner	ID
41	Boundary	ID
41	Clearwater	ID
41	Idaho	ID
41	Kootenai	ID
41	Latah	ID
41	Lewis	ID
41	Nez Perce	ID
41	Shoshone	ID
41	Beaverhead	MT
41	Big Horn	MT
41	Blaine	MT
41	Broadwater	MT
41	Carbon	MT
41	Cascade	MT
41	Chouteau	MT
41	Custer	MT
41	Daniels	MT
41	Dawson	MT
41	Deer Lodge	MT
41	Fallon	MT
41	Fergus	MT
41	Flathead	MT
41	Gallatin	MT
41	Garfield	MT MT
41	Glacier	
41 41	Golden Valley Granite	MT MT
41	Hill	
41	Jefferson	MT MT
41	Judith Basin	MT
41	Lake	MT
41	Lewis and Clark	MT
41	Liberty	MT
41	Lincoln	MT
41	Madison	MT
41	IVIAUISUII	IVI I

MEA	State	
40	County Maricopa	AZ
40	Navajo	AZ
40	Pima	AZ
40	Pinal	AZ
40	Santa Cruz	AZ
40	Yavapai	AZ
40	Grant	NM
40	Hidalgo	NM
40	Luna	NM
40	Kane	UT
40	San Juan	UT
41	Benewah	ID
41	Ravalli	MT
41	Richland	MT
41	Roosevelt	MT
41	Rosebud	MT
41	Sanders	MT
41	Sheridan	MT
41	Silver Bow	MT
41	Stillwater	MT
41	Sweet Grass	MT
41	Teton	MT
41	Toole	MT
41	Treasure	MT
41	Valley	MT
41	Wheatland	MT
41	Yellowstone	MT
41	Yellowstone National Park	MT
41	Baker	OR
41	Gilliam	OR
41	Grant	OR
41	Morrow	OR
41	Umatilla	OR
41	Union	OR
41	Wallowa	OR
41	Wheeler	OR
41	Asotin	WA
41	Columbia	WA
41	Ferry	WA
41	Garfield	WA
41	Lincoln	WA
41	Pend Oreille	WA
41	Spokane	WA
41	Stevens	WA
41	Walla Walla	WA
41	Whitman	WA
41	Big Horn	WY
41	Johnson	WY
41	Park	WY
41	Sheridan	WY
42	Ada	ID

MEA	County	State
41	McCone	MT
41	Meagher	MT
41	Mineral	MT
41	Missoula	MT
41	Musselshell	MT
41	Park	MT
41	Petroleum	MT
41	Phillips	MT
41	Pondera	MT
41	Powder River	MT
41	Powell	MT
41	Prairie	MT
42	Cassia	ID
42	Clark	ID
42	Custer	ID
42	Elmore	ID
42	Franklin	ID
42	Fremont	ID
42	Gem	ID
42	Gooding	ID
42	Jefferson	ID
42	Jerome	ID
42	Lemhi	ID
42	Lincoln	ID
42	Madison	ID
42	Minidoka	ID
42	Oneida	ID
42	Owyhee	ID
42	Payette	ID
42	Power	ID
42	Teton	ID
42	Twin Falls	ID
42	Valley	ID
42	Washington	ID
42	Harney	OR
42	Malheur	OR
42	Box Elder	UT
42	Cache	UT
42	Carbon	UT
42	Davis	UT
42	Duchesne	UT
42	Emery	UT
42	Grand	UT
42	Juab	UT
42	Millard	UT
42	Morgan	UT
42	Salt Lake	UT
42	Sanpete	UT
42	Sevier	UT
42	Summit	UT
42	Tooele	UT

MEA	County	State
42	Adams	ID
42	Bannock	ID
42	Bingham	ID
42	Blaine	ID
42	Boise	ID
42	Bonneville	ID
42	Butte	ID
42	Camas	ID
42	Canyon	ID
43	Butte	CA
43	Calaveras	CA
43	Colusa	CA
43	Contra Costa	CA
43	El Dorado	CA
43	Fresno	CA
43	Glenn	CA
43	Humboldt	CA
43	Inyo	CA
43	Kings	CA
43	Lake	CA
43	Lassen	CA
43	Madera	CA
43	Marin	CA
43	Mariposa	CA
43	Mendocino	CA
43	Merced	CA
43	Modoc	CA
43	Mono	CA
43	Monterey	CA
43	Napa	CA
43	Nevada	CA
43	Placer	CA
43	Plumas	CA
43	Sacramento	CA
43	San Benito	CA
43	San Francisco	CA
43	San Joaquin	CA
43	San Mateo	CA
43	Santa Clara	CA
43	Santa Cruz	CA
43	Shasta	CA
43	Sierra	CA
43	Siskiyou	CA
43	Solano	CA
43	Sonoma	CA
43	Stanislaus	CA
43	Sutter	CA
43	Tehama	CA
43	Trinity	CA
43	Tulare	CA
43	Tuolumne	CA

MEA	County	State
42	Uintah	UT
42	Utah	UT
42	Wasatch	UT
42	Wayne	UT
42	Weber	UT
42	Teton	WY
43	Alameda	CA
43	Alpine	CA
43	Amador	CA
43	Eureka	NV
43	Humboldt	NV
43	Lander	NV
43	Lyon	NV
43	Pershing	NV
43	Storey	NV
43	Washoe	NV
43	White Pine	NV
43	Klamath	OR
44	La Paz	AZ
44	Mohave	AZ
44	Yuma	AZ
44	Imperial	CA
44	Kern	CA
44	Los Angeles	CA
44	Orange	CA
44	Riverside	CA
44	San Bernardino	CA
44	San Diego	CA
44	San Luis Obispo	CA
44	Santa Barbara	CA
44	Ventura	CA
44	Clark	NV
44	Esmeralda	NV
44	Lincoln	NV
44	Mineral	NV
44	Nye	NV
44	Beaver	UT
44	Garfield	UT
44	Iron	UT
44	Piute	UT
44	Washington	UT
45	Del Norte	CA
45	Benton	OR
45	Clackamas	OR
45	Clatsop	OR
45	Columbia	OR
45	Coos	OR
45	Crook	OR
45	Curry	OR
45	Deschutes	OR
45	Douglas	OR

MEA	County	State
43	Yolo	CA
43	Yuba	CA
43	Carson City	NV
43	Churchill	NV
43	Douglas	NV
43	Elko	NV
45	Lincoln	OR
45	Linn	OR
45	Marion	OR
45	Multnomah	OR
45	Polk	OR
45	Sherman	OR
45	Tillamook	OR
45	Wasco	OR
45		OR
	Washington	OR
45	Yamhill	
45 45	Clark Cowlitz	WA WA
45 45	Klickitat	WA
	Skamania	WA
45	Wahkiakum	WA
46	Adams	WA
46	Benton	WA
46	Chelan	WA
46	Clallam	WA
46	Douglas	WA
46	Franklin	WA
46	Grant	WA
46	Grays Harbor	WA
46 46	Island	WA
	Jefferson	WA
46	King	WA
46	Kitsap	WA
46	Kittitas	WA
46	Lewis	WA
46	Mason	WA
46	Okanogan	WA
46	Pacific	WA
46	Pierce	WA
46	San Juan	WA
46	Skagit	WA
46	Snohomish	WA
46	Thurston	WA
46	Whatcom	WA
46	Yakima	WA
47	Aleutians East	AK
47	Aleutians West	AK
47	Anchorage	AK
47	Bethel	AK
47	Bristol Bay	AK
47	Dillingham	AK

MEA	County State				
45	Hood River	OR			
45	Jackson	OR			
45	Jefferson	OR			
45	Josephine	OR			
45	Lake	OR			
45	Lane	OR			
47	Kenai Peninsula	AK			
47	Ketchikan Gateway	AK			
47	Kodiak Island	AK			
47	Lake and Peninsula	AK			
47	Matanuska-Susitna	AK			
47	Nome	AK			
47	North Slope	AK			
47	Northwest Arctic	AK			
47	Prince Of Wales-Ketchikan	AK			
47	Sitka	AK			
47	Skagway-Yakutat-Angoon	AK			
47	Southeast Fairbanks	AK			
47	Valdez-Cordova	AK			
47	Wade Hampton	AK			
47	Wrangell-Petersburg	AK			
47	Yukon-Koyukuk	AK			
48	Hawaii	HI			
48	Honolulu	HI			
48	Kalawao	HI			
48	Kauai	HI			
48	Maui	HI			
49	Guam	GU			
49	Northern Islands	MP			
49	Rota	MP			
49	Saipan	MP			
49	Tinian	MP			
50	Adjuntas	PR			
50	Aguada	PR			
50	Aguadillia	PR			
50	Aguas Buenas	PR			
50	Aibonito	PR			
50	Añasco	PR			
50	Arecibo	PR			
50	Arroyo	PR			
50	Barceloneta	PR			
50	Barranquitas	PR			
50	Bayamón	PR			
50	Cabo Rojo	PR			
50	Caguas	PR			
50	Camuy	PR			
50	Can6vanas	PR			
50	Carolina	PR			
50	Cataño	PR			
50	Cayey	PR			
50	Ceiba	PR			

MEA	MEA County			
47	Fairbanks North Star	State AK		
47	Haines	AK		
47	Juneau	AK		
50	Comerio	PR		
50	Corozal	PR		
50	Culebra	PR		
50	Dorado	PR		
50	Fajardo	PR		
50	Florida	PR		
50	Guánica	PR		
50	Guayama	PR		
50	Guayanilla	PR		
50	Guaynabo	PR		
50	Gurabo	PR		
50	Hatillo	PR		
50	Hormigueros	PR		
50	Humacao	PR		
50	Isabela	PR		
50	Jayuya	PR		
50	Juana Díaz	PR		
50	Juncos	PR		
50	Lajas	PR		
50	Lares	PR		
50	Las Marías	PR		
50	Las Piedras	PR		
50	Loíza	PR		
50	Luquillo	PR		
50	Manatí	PR		
50	Maricao	PR		
50	Maunabo	PR		
50	Mayagüez	PR		
50	Moca	PR		
50	Morovis	PR		
50	Naguabo	PR		
50	Naranjito	PR		
50	Orocovis	PR		
50	Patillas	PR		
50	Peñuelas	PR		
50	Ponce	PR		
50	Quebradillas	PR		
50	Rincón	PR		
50	Río Grande	PR		
50	Sabana Grande	PR		
50	Salinas	PR		
50	San Germán	PR		
50	San Juan	PR		
50	San Lorenzo	PR		
50	San Sebastián	PR		
50	Santa Isabel	PR		
50	Toa Alta	PR		
50	Toa Baja	PR		

MEA	County	State
50	Ciales	PR
50	Cidra	PR
50	Coamo	PR
50	Trujillo Alto	PR
50	Utuado	PR
50	Vega Alta	PR
50	Vega Baja	PR
50	Vieques	PR
50	Villalba PR	
50	Yabucoa PR	
50	Yauco	PR
50	St. Croix	
50	St. John	VI
50	St. Thomas	VI
51	Eastern	AS
51	Manua	AS
51	Rose Island	AS
51	Swains Island	AS
51	Western	AS

**Bidder Alerts:** All applicants must certify on their FCC Form 175 applications under penalty of perjury that they are legally, technically, financially and otherwise qualified to hold a license, and not in default on any payment for Commission licenses (including down payments) or delinquent on any non-tax debt owed to any Federal agency. Prospective bidders are reminded that submission of a false certification to the Commission is a serious matter that may result in severe penalties, including monetary forfeitures, license revocations, exclusion from participation in future auctions, and/or criminal prosecution.

The FCC makes no representations or warranties about the use of this spectrum for particular services. Applicants should be aware that an FCC auction represents an opportunity to become an FCC licensee in this service, subject to certain conditions and regulations. An FCC auction does not constitute an endorsement by the FCC of any particular services, technologies or products, nor does an FCC license constitute a guarantee of business success. Applicants should perform their individual due diligence before proceeding as they would with any new business venture.

As is the case with many business investment opportunities, some unscrupulous entrepreneurs may attempt to use the Paging auction to deceive and defraud unsuspecting investors. Common warning signals of fraud include the following:

- The first contact is a "cold call" from a telemarketer, or is made in response to an inquiry prompted by a radio or television infomercial.
- The offering materials used to invest in the venture appear to be targeted at IRA funds, for example by including all documents and papers needed for the transfer of funds maintained in IRA accounts.
- The amount of the minimum investment is less than \$25,000.
- The sales representative makes verbal representations that: (a) the Internal Revenue Service ("IRS"), Federal Trade Commission ("FTC"), Securities and Exchange Commission ("SEC"), FCC, or other government agency has approved the investment; (b) the investment is not subject to state or federal securities laws; or (c) the investment will yield unrealistically high short-term profits. In addition, the offering materials often include copies of actual FCC releases, or quotes from FCC personnel, giving the appearance of FCC knowledge or approval of the solicitation.

Information about deceptive telemarketing investment schemes is available from the FTC at (202) 326-2222 and from the SEC at (202) 942-7040. Complaints about specific deceptive telemarketing investment schemes should be directed to the FTC, the SEC, or the National Fraud Information Center at (800) 876-7060. Consumers who have concerns about specific 929 and 931 MHz Paging proposals may also call the FCC National Call Center at (888) CALL-FCC ((888) 225-5322).

## **DUE DILIGENCE**

Potential bidders are reminded that there are a number of incumbent licensees already licensed and operating on frequencies that will be subject to the upcoming auction. Geographic area licensees in accordance with the Commission's Rules must protect such incumbents from harmful interference. *See* 47 C.F.R. § 22.503(i). These limitations may restrict the ability of such geographic area licensees to use certain portions of the electromagnetic spectrum or provide service to certain areas in their geographic license areas.

In addition, potential bidders seeking licenses for geographic areas adjacent to the Canadian and Mexican border should be aware that the use of some or all of the channels they acquire in the auction could be restricted as a result of agreements with Canada or Mexico on the use of 929 and 931 MHz spectrum in the border area.<sup>1</sup>

Potential bidders should also be aware that certain applications (including those for modification), waiver requests, petitions to deny, petitions for reconsideration, and applications for review are pending before the Commission that relate to particular applicants or incumbent licensees. In addition, certain decisions reached in the paging proceeding are the subject to judicial appeal and may be the subject of additional reconsideration or appeal. We note that resolution of these matters could have an impact on the availability of spectrum for MEA licensees in the 929 and 931 MHz bands. In addition, while the Commission will continue to act on pending applications, requests and petitions, some of these matters may not be resolved by the time of the auction.

Potential bidders are solely responsible for investigating and evaluating the degree to which such pending matters may affect spectrum availability in areas where they seek MEA licenses.

Potential bidders are referred to the August 12, 1999, Public Notice for a list of matters pending before the Commission (as of July 29, 1999) that relate to licenses or applications for the 929 MHz and 931 MHz service. The Commission plans to update this information prior to the Form 175 filing deadline of January 20, 2000 in a separate Public Notice. The Commission makes no representations or guarantees that the listed matters are the only pending matters that could affect spectrum availability in the 929 or 931 MHz bands.

See December 19, 1995 Letter of Understanding with Mexico related to the temporary use of 929-932 MHz channels for paging services within 120 kilometers (75 miles) of the common border; see also U.S.-Canada Interim Coordination Considerations for the Band 929-932 MHz, as amended.

<sup>&</sup>lt;sup>2</sup> See Auction of 929 and 931 MHz Paging Service Spectrum, *Public Notice*, DA 99-1591 (rel. August 12, 1999).

In addition, potential bidders may research the Bureau's licensing databases on the World Wide Web in order to determine which frequencies are already licensed to incumbent licensees. Because some of our incumbent paging licensing records have not yet been converted to the Bureau's new Universal Licensing System (ULS), potential bidders may have to select other databases to perform research for the frequency(s) of interest. The research options below will allow potential bidders to download licensing data, as well as to perform queries online.

929 MHz band Incumbent Licenses: Licensing records for the 929 MHz band are contained in the Bureau's Land Mobile database (not ULS) and may be researched on the internet at <a href="http://www.fcc.gov/wtb">http://www.fcc.gov/wtb</a> by selecting the "Databases" link at the top of the page. Potential bidders may download a copy of the licensing database by selecting "Download the Wireless Databases" and choosing the appropriate files under "Land Mobile Database Files - 47 C.F.R. Parts 74, 90, and 95." Alternatively, potential bidders may query the Bureau's licensing records online by selecting "Search the Wireless Databases Online."

931 MHz band Incumbent Licenses: Licensing records for the 931 MHz band are contained in the Bureau's ULS and may be researched on the internet at <a href="http://www.fcc.gov/wtb/uls">http://www.fcc.gov/wtb/uls</a> by selecting the "License Search" button in the left frame. Potential bidders may query the database online and download a copy of their search results if desired. The Bureau recommends that potential bidders select the "Frequency" option under License Search, specify the desired frequency, and use the "GeoSearch" button at the bottom of the screen to limit their searches to a particular geographic area. Detailed instructions on using License Search (including frequency searches and the GeoSearch capability) and downloading query results are available online by selecting the "?" button at the bottom right-hand corner of the License Search screen.

Potential bidders should direct questions regarding the search capabilities described above to the FCC Technical Support Hotline at (202) 414-1250 (voice) or (202) 414-1255 (TTY), or via email at ulscomm@fcc.gov. The hotline is available Monday through Friday, from 8:00 AM to 6:00 PM Eastern Time. In order to provide better service to the public, *all calls to the hotline are recorded*.

The Commission makes no representations or guarantees regarding the accuracy or completeness of information that has been provided by incumbent licensees and incorporated into the database. Potential bidders are strongly encouraged to physically inspect any sites located in or near the geographic area for which they plan to bid.

## PRE-AUCTION PROCEDURES

#### 1. Auction Seminar

On January 7, 2000, the FCC will sponsor a free seminar for the 929 and 931 MHz Paging Auction at the Federal Communications Commission, located at 445 12<sup>th</sup> Street, S.W. Washington, D.C. The seminar will provide attendees with information about preauction procedures, conduct of the auction, FCC remote bidding software, and the 929 and 931 MHz Paging service and auction rules. The seminar will also provide a unique opportunity for prospective bidders to ask questions of FCC staff.

To register, complete the registration form included in Tab F and submit it by Wednesday, January 5, 2000. Registrations are accepted on a first-come, first-served basis.

#### 2. Prohibition of Collusion

To ensure the competitiveness of the auction process, the Commission's Rules prohibit applicants for the same geographic license area from communicating with each other during the auction about bids, bidding strategies, or settlements. This prohibition begins with the filing of short-form applications, and ends on the down payment due date. To comply with this rule, bidders competing for the same license(s) should not use the same individual authorized bidder. A violation of the anti-collusion rule could occur if an individual acts as the authorized bidder for two or more competing applicants, and conveys information concerning the substance of bids or bidding strategies between the bidders he/she is authorized to represent in the auction. Also, if the authorized bidders are different individuals employed by the same organization (e.g., law firms or consulting firm), a violation could similarly occur. In such instances, the Bureau **strongly encourages** applicants to certify on their applications that precautionary steps (e.g., establishing a "Chinese wall") have been taken to prevent communication between authorized bidders and that applicants and their bidding agents will comply with the anticollusion rule. The Bureau, however, cautions that merely filing a certifying statement as part of an application will not outweigh specific evidence that collusive behavior has occurred nor will it preclude the initiation of an investigation when warranted.<sup>2</sup> In the Paging auction, for example, the rule would apply to any applicants bidding for the same MEA. Therefore, applicants that apply to bid for "all markets" would be precluded from communicating with all other applicants after filing the FCC Form 175. However, applicants may enter into bidding agreements before filing their FCC Form 175 shortform applications, as long as they disclose the existence of the agreement(s) in their Form

<sup>&</sup>lt;sup>1</sup> See, e.g., "Wireless Telecommunications Bureau Responds to Questions About the Local Multipoint Distribution Service Auction, "*Public Notice*, 13 FCC Rcd 341 (1998); In re Application of Nevada Wireless for a License to Provide 800 MHz Specialized Mobile Radio Service in the Farmington, NM-CO Economic Area (EA-155) Frequency Band A, *Memorandum Opinion and Order*, 13 FCC Rcd 11973, 11977, ¶ 11 (1998)("*Nevada Wireless*").

<sup>&</sup>lt;sup>2</sup> See Nevada Wireless. 13 FCC Rcd at 11978. ¶ 13 (1998).

175 short-form applications.<sup>3</sup> By signing their FCC Form 175 short form applications, applicants are certifying their compliance with Section 1.2105(c). In addition, Section 1.65 of the Commission's Rules requires an applicant to maintain the accuracy and completeness of information furnished in its pending application and to notify the Commission within 30 days of any substantial change that may be of decisional significance to that application.<sup>4</sup> Thus, Section 1.65 requires an auction applicant to notify the Commission of any violation of the anti-collusion rules upon learning of such violation. Bidders are therefore required to make such notification to the Commission immediately upon discovery.

#### 3. Short-Form Application (FCC Form 175) -- Due January 20, 2000

In order to be eligible to bid in this auction, applicants must first electronically submit an FCC Form 175 application. **This application must be received at the Commission by 5:30 p.m. ET on January 20, 2000.** Late applications will not be accepted.

There is no application fee required when filing an FCC Form 175. However, to be eligible to bid, an applicant must submit an upfront payment. See Upfront Payment Section in this Tab.

### (a) Electronic Filing

Applicants must file their FCC Form 175 applications electronically.<sup>5</sup> Applications may generally be filed at any time from January 7, 2000 until 5:30 p.m. ET on January 20, 2000. Applicants are strongly encouraged to file early, and applicants are responsible for allowing adequate time for filing their applications. Applicants may update or amend their electronic applications multiple times until the filing deadline of January 20, 2000.

Applicants must press the "Submit Form 175" button on the "Submit" page of the electronic form to successfully submit their FCC Forms 175. Information about accessing the FCC Form 175 is included in Tab F. Technical support is available at (202) 414-1250 (voice) or (202) 414-1255 (text telephone (TTY)); the hours of service are 8 a.m. - 6 p.m. ET, Monday – Friday.

## (b) Completion of the FCC Form 175

Applicants should carefully review 47 C.F.R. § 1.2105, and must complete all items on the FCC Form 175. Instructions for completing the FCC Form 175 are located in Tab F. Applicants are encouraged to begin preparing the required attachments for FCC Form 175 prior to submitting the form. Tab F also provides information on the required attachments and appropriate formats.

<sup>&</sup>lt;sup>3</sup> See C.F.R. § 1.2105(c).

<sup>&</sup>lt;sup>4</sup> See C.F.R. § 1.65.

All short-form applications must be filed electronically. See 47 C.F.R. § 1.2105 (a).

#### (c) Electronic Review of FCC Form 175

The FCC Form 175 review software may be used to review and print applicants' FCC Form 175 information. Applicants may also view other applicants' completed FCC Form 175s after the filing deadline has passed and the FCC has issued a public notice explaining the status of the applications. For this reason, it is important that applicants do not include their Taxpayer Identification Numbers (TINs) on any Exhibits to their FCC Form 175 applications. There is no fee for accessing this system. See Tab F for details.

#### 4. Application Processing and Minor Corrections

After the deadline for filing the FCC Form 175 applications has passed, the FCC will process all timely submitted applications to determine which are acceptable for filing, and subsequently will issue a public notice identifying: (1) those applications accepted for filing (including FCC account numbers and the licenses for which they applied); (2) those applications rejected; and (3) those applications which have minor defects that may be corrected, and the deadline for filing such corrected applications.

As described more fully in the Commission's Rules, after the January 20, 2000, short form filing deadline, applicants may make only minor corrections to their FCC Form 175 applications. Applicants will not be permitted to make major modifications to their applications (*e.g.*, change their license selections, change the certifying official, change control of the applicant, or change bidding credit eligibility).<sup>6</sup>

#### 5. Upfront Payments -- Due February 7, 2000

In order to be eligible to bid in the auction, applicants must submit an upfront payment accompanied by an FCC Remittance Advice Form (FCC Form 159). After completing the FCC Form 175, filers will have access to an electronic version of the FCC Form 159. All upfront payments must be received at Mellon Bank in Pittsburgh, PA, by 6:00 p.m. ET on February 7, 2000.

#### Please note that:

- All payments must be made in U.S. dollars.
- All payments must be made by wire transfer.
- Upfront payments for Auction # 26 go to a lockbox number different from the ones used in previous FCC auctions, and different from the lockbox number to be used for post-auction payments.

<sup>&</sup>lt;sup>6</sup> See 47 C.F.R. § 1.2105. See also Two Way Radio of Carolina, Inc., Memorandum, Opinion and Order, FCC 99-189 (rel. July 22, 1999).

 Failure to deliver the upfront payment by the February 7, 2000 deadline will result in dismissal of the application and disqualification from participation in the auction.

#### (a) Making Auction Payments by Wire Transfer

Wire transfer payments must be received by **6:00 p.m. ET on February 7, 2000**. To avoid untimely payments, applicants should discuss arrangements (including bank closing schedules) with their banker several days before they plan to make the wire transfer, and allow sufficient time for the transfer to be initiated and completed before the deadline. Applicants will need the following information:

ABA Routing Number: 043000261 Receiving Bank: Mellon Pittsburgh

BNF: FCC/AC 911-6878

OBI Field: (Skip one space between each information item)

"AUCTIONPAY"

TAXPAYER IDENTIFICATION NO. (same as FCC Form 159,

block 26)

PAYMENT TYPE CODE (enter "A26U")

FCC CODE 1 (same as FCC Form 159, block 23A: "26")

PAYER NAME (same as FCC Form 159, block 2)

LOCKBOX NO. #358400

**NOTE:** The BNF and Lockbox number are specific to the upfront payments for this auction; do not use BNF or Lockbox numbers from previous auctions.

Applicants must fax a completed FCC Form 159 to Mellon Bank at (412) 236-5702 at least one hour before placing the order for the wire transfer (but on the same business day). On the cover sheet of the fax, write "Wire Transfer - Auction Payment for Auction Event #26." Bidders may confirm receipt of their upfront payment at Mellon Bank by contacting their sending financial institution.

#### (b) FCC Form 159

A completed FCC Remittance Advice Form (FCC Form 159) must accompany each upfront payment. Proper completion of FCC Form 159 is critical to ensuring correct credit of upfront payments. Detailed instructions for completion of FCC Form 159 are included in Tab F.

#### (c) Upfront Payment Calculation

The use of eligibility and activity rules is an integral part of the simultaneous multiple round auction design. The eligibility rule regulates the licenses on which a bidder is qualified to bid, and the activity rule requires each bidder to be active on a certain percentage of those licenses. Both of these rules are based on the number of bidding

units that are assigned to each license in the auction and each bidder's total eligibility level (as measured in bidding units) which is determined by the upfront payment. Each license has been assigned a specific number of bidding units, generally based on the size of the license (i.e., the amount of spectrum and the population covered). These bidding unit amounts are listed at the front of this bidder information package. The number of bidding units assigned to each license does not change during the auction.

#### i.) Determining the Amount of Upfront Payment

Before the upfront payment deadline, it is the responsibility of all bidders to determine the licenses on which they intend to bid and calculate the total number of bidding units associated with those licenses. This is necessary because in order to be eligible to place a bid on a license, each bidder must have submitted an upfront payment that is large enough to meet or exceed the number of bidding units assigned to the license(s) on which he or she intends to bid.

To ensure that sufficient eligibility is purchased, each bidder must determine the licenses on which they wish to bid, add the number of bidding units associated with them, and submit an upfront payment sufficient to purchase that number of bidding units. For Auction No. 26, the amount of the upfront payment will be translated into bidding units on a one-to-one basis, *e.g.*, a \$25,000 upfront payment provides the bidder with 25,000 bidding units. These upfront monies are made in the form of a refundable deposit that is returned to the bidder if no obligation is owed to the Commission at the conclusion of the auction.

#### **Upfront Payment Formula**

For the Paging Auction the FCC has calculated the upfront payments on a license by license basis using the following formula:

## \$.0004 \* population of license area

The result for each license is rounded to the nearest hundred dollars for levels below \$10,000 and to the nearest thousand dollars for levels above \$10,000. There is a minimum upfront payment amount of \$2,500 per license. These amounts have been calculated and appear in this bidder information package.

It is extremely important that bidders be accurate in calculating and submitting an upfront payment to the Commission, because the Commission will not permit bidders to provide additional upfront monies to purchase additional bidding units after the upfront payment deadline. Providing an upfront payment that is too small may limit a bidder's ability to place bids on certain licenses. At a minimum, an applicant's total upfront payment must be sufficient to establish eligibility (as measured in bidding units) to bid on at least one of the licenses selected on the FCC Form 175. If the applicant does not purchase enough

bidding units to bid on any licenses, the applicant will not be eligible to participate in the auction.

#### **Example 1: Determining the amount of upfront payment to submit:**

Assume Bidder X intends to bid on the Boston, Buffalo, and Richmond licenses. The number of bidding units associated with these three licenses is 8,500. To purchase 8,500 bidding units, Bidder X must submit a timely upfront payment of \$8,500. A smaller upfront payment will limit the licenses on which Bidder X may bid (see text below for a more detailed explanation.)

License	Discription	Population	<b>Upfront Payment</b>	Bidding Units
MEA001	Boston	8,672,944	\$3,500.00	3,500
MEA003	Buffalo	1,529,735	\$2,500.00	2,500
MEA004	Philadelphia	7,942,319	\$3,200.00	3,200
MEA005	Washington	7,745,433	\$3,100.00	3,100
MEA006	Richmond	3,897,805	\$2,500.00	2,500
		Total:	\$ 8,500.00	8,500

### ii.) Flexible Use of Eligibility

Bidding units are not specific to a license and can be applied toward any of the licenses a bidder has selected on their FCC Form 175 application. The 8,500 bidding units could be used toward the Boston, Buffalo and Richmond licenses as in Example 1. Alternatively, the 8,500 bidding units would allow Bidder X to bid on Philadelphia (3,200 bidding units) instead of Boston, along with Buffalo and Richmond (thereby using 8,200 bidding units).

Because bidding units do not apply to specific licenses, bidders can be afforded significant flexibility. However, the eligibility rule dictates that a bidder who wishes to bid on two markets at the same time must purchase enough bidding units to cover **both** markets. If the bidder is interested in one market **or** another, they must purchase enough bidding units to cover the larger of the two markets (as measured in bidding units).

#### Example 2: Upfront payments and bidding flexibility

If Bidder X wishes to bid on both Philadelphia and Washington, they must purchase at least 6,300 bidding units (3,200+3,100). If Bidder X only wishes to bid on one, but not both, purchasing 3,200 bidding units would meet the requirement for either market. The bidder would be able to bid on either, but not both at the same time. If the bidder purchased only 3,100 bidding units, Bidder X would have enough eligibility for Washington but not for Philadelphia.

License	Discription	Population	Upfront Payment	Bidding Units
MEA001	Boston	8,672,944	\$3,500.00	3,500
MEA003	Buffalo	1,529,735	\$2,500.00	2,500
MEA004	Philadelphia	7,942,319	\$3,200.00	3,200
MEA005	Washington	7,745,433	\$3,100.00	3,100
MEA006	Richmond	3,897,805	\$2,500.00	2,500

In order to preserve flexibility in the auction, bidders must carefully consider the markets on which they wish to place bids before submitting their upfront payment. The Form 175 filing software offers an upfront payment calculator feature that will help bidders calculate the appropriate upfront payment that should be submitted.

#### (d) Applicant's Wire Transfer Information for Purposes of Refunds

To ensure that refunds are processed in an expeditious manner, the Commission is requesting that **all pertinent information as listed below be supplied to the FCC no later than February 7, 2000**. The Commission will use wire transfers for all Auction No. 26 refunds. Please fax Wire Transfer Instructions to the FCC, Financial Operations Center, Auctions Accounting Group, ATTN: Michelle Bennett or Gail Glasser, at (202) 418-2843. For additional information please call (202) 418-1995.

Name of Bank
ABA Number
Contact and Phone Number
Account Number to Credit
Name of Account Holder
Correspondent Bank (if applicable)
ABA Number
Account Number

(Applicants should also note that implementation of the Debt Collection Improvement Act of 1996 requires the FCC to obtain a Taxpayer Identification Number (TIN) before it can disburse refunds.) Eligibility for refunds is discussed in "Post Auction Procedures", under Tab E.

## 6. Auction Registration

Approximately ten days before the auction, the FCC will issue a public notice announcing all qualified bidders for the auction. Qualified bidders are those applicants whose FCC Form 175 applications have been accepted for filing and that have timely submitted upfront payments sufficient to make them eligible to bid on at least one of the licenses for which they applied.

All qualified bidders are automatically registered for the auction. Registration materials will be distributed prior to the auction by two separate overnight mailings, each

containing part of the confidential identification codes required to place bids. These mailings will be sent only to the contact person at the contact address listed in the FCC Form 175.

Applicants that do not receive both registration mailings will not be able to submit bids. Therefore, any qualified applicant that has not received both mailings by noon on Friday, February 18, 2000 should contact the Auctions Hotline at 1-(888) 225-5322 (option #2) or (717) 338-2888. Receipt of both registration mailings is critical to participating in the auction and each applicant is responsible for ensuring it has received all of the registration material.

Qualified bidders should note that lost login codes, passwords or bidder identification numbers can be replaced only by appearing in person at the FCC Auction Headquarters located at 445 12<sup>th</sup> St., S.W., Washington, D.C. 20554. Only an authorized representative or certifying official, as designated on an applicant's FCC Form 175, may appear in person with two forms of identification (one of which must be a photo identification) in order to receive replacement codes. Qualified bidders requiring replacement codes must call technical support prior to arriving at the FCC to arrange preparation of new codes.

## 7. Remote Electronic Bidding Software

Qualified bidders are allowed to bid electronically or telephonically. Those choosing to bid electronically must purchase remote electronic bidding software for \$175.00 by February 8, 2000. (Auction software is tailored to a specific auction, so software from prior auctions will not work for Auction # 26.) A software order form is included in this bidder information package. If bidding telephonically, the appropriate phone number will be supplied in the second Federal Express mailing of confidential login codes.

#### 8. Mock Auction

All applicants whose FCC Form 175 have been accepted for filing will be eligible to participate in a mock auction on **Tuesday**, **February 22**, **2000**. The mock auction will enable applicants to become familiar with the electronic software prior to the auction. Free demonstration software will be available for use in the mock auction. Participation by all bidders is strongly recommended. Details will be announced by public notice.

## **AUCTION EVENT**

The first round of the auction will begin on February 24, 2000. The initial round schedule will be announced in a Public Notice listing the qualified bidders, to be released approximately 10 days before the start of the auction.

## 1. AUCTION STRUCTURE

## (a) Simultaneous Multiple Round Auction

The 2,499 licenses in the 929 and 931 MHz Paging auction will be awarded through a single, simultaneous multiple round auction. Unless otherwise announced, bids will be accepted on all licenses in each round of the auction.

## (b) Maximum Eligibility and Activity Rules

As noted in "Amount of Upfront Payment," in Tab C, the amount of the upfront payment submitted by a bidder would determine the initial maximum eligibility (as measured in bidding units) for each bidder. Upfront payments are not attributed to specific licenses, but instead will be translated into bidding units to define a bidder's initial maximum eligibility. The total upfront payment defines the maximum number of bidding units on which the applicant will initially be permitted to bid. There is no provision for increasing a bidder's maximum eligibility during the course of an auction.

In order to ensure that the auction closes within a reasonable period of time, an activity rule requires bidders to bid actively throughout the auction, rather than wait until the end before participating. Bidders are required to be active on a specific percentage of their maximum eligibility during each round of the auction, as described in the section on Auction Stages, *see* next page.

A bidder is considered active on a license in the current round if it is either the high bidder at the end of the previous bidding round and does not withdraw the high bid in the current round, or if it submits an acceptable bid in the current round (see "Minimum Accepted Bids" in this Tab). A bidder's activity level in a round is the sum of the bidding units associated with licenses on which the bidder is active. The minimum required activity level is expressed as a percentage of the bidder's maximum bidding eligibility, and increases as the auction progresses

## (c) Activity Rule Waivers and Reducing Eligibility

Each bidder will be provided five *activity rule waivers* that may be used in any round during the course of the auction. Use of an activity rule waiver preserves the bidder's current bidding eligibility despite the bidder's activity in the current round being below the required minimum level. An activity rule waiver applies to an entire round of bidding and not to a particular license.

The FCC auction system assumes that bidders with insufficient activity would prefer to use an activity rule waiver (if available) rather than lose bidding eligibility. Therefore, the system will automatically apply a waiver (known as an "automatic waiver") at the end of any round where a bidder's activity level is below the minimum required unless: (1) there are no activity rule waivers available; or (2) the bidder overrides the automatic application of a waiver by reducing eligibility, thereby meeting the minimum requirements.

A bidder with insufficient activity that wants to reduce its bidding eligibility rather than use an activity rule waiver must affirmatively override the automatic waiver mechanism during the round by using the reduce eligibility function in the software. In this case, the bidder's eligibility is permanently reduced to bring the bidder into compliance with the activity rules as described in "Auction Stages," below. Once eligibility has been reduced, a bidder will not be permitted to regain its lost bidding eligibility.

Finally, a bidder may proactively use an activity rule waiver as a means to keep the auction open without placing a bid. If a bidder submits a proactive waiver (using the proactive waiver function in the bidding software) during a round in which no bids are submitted, the auction will remain open and the bidder's eligibility will be preserved. An automatic waiver invoked in a round in which there are no new valid bids or withdrawals will not keep the auction open.

### (d) Auction Stages

The auction will be composed of three stages, which are each defined by an increasing activity rule. Below are the activity levels for each stage of the auction. The FCC reserves the discretion to further alter the activity percentages before and/or during the auction.

**Stage One**: In each round of the first stage of the auction, a bidder desiring to maintain its current eligibility is required to be active on licenses encompassing at least 80 percent of its current bidding eligibility. Failure to maintain the requisite activity level will result in a reduction in the bidder's bidding eligibility in the next round of bidding (unless an activity rule waiver is used). During Stage One, reduced eligibility for the next round will be calculated by multiplying the current round activity by five-fourths (5/4).

**Stage Two**: In each round of the second stage, a bidder desiring to maintain its current eligibility is required to be active on 90 percent of its current bidding eligibility. During Stage Two, reduced eligibility for the next round will be calculated by multiplying the current round activity by ten-ninths (10/9).

**Stage Three**: In each round of the third stage, a bidder desiring to maintain its current eligibility is required to be active on 98 percent of its current bidding eligibility. In this final stage, reduced eligibility for the next round will be calculated by multiplying the current round activity by fifty-fortyninths (50/49).

**CAUTION:** Since activity requirements increase in each auction stage, bidders must carefully check their current activity during the bidding round of the first round following a stage transition. This is especially critical for bidders that have standing high bids and do not plan to submit new bids. In past auctions, some bidders have inadvertently lost bidding eligibility or used an activity rule waiver because they did not reverify their activity status at stage transitions. Bidders may check their activity against the required minimum activity level by using the bidding software's bidding module.

### (e) Stage Transitions

The auction will start in Stage One, and under the FCC's general guidelines it will advance to the next stage (*i.e.*, from Stage One to Stage Two, and from Stage Two to Stage Three) when, in each of three consecutive rounds of bidding, the high bid has increased on 10 percent or less of the licenses being auctioned (as measured in bidding units). However, the Bureau will retain the discretion to change stages unilaterally by announcement during the auction. This determination will be based on a variety of measures of bidder activity, including, but not limited to, the auction activity level, the percentages of licenses (as measured in bidding units) on which there are new bids, the number of new bids, and the percentage increase in revenue.

## (f) Auction Stopping Rules

Barring extraordinary circumstances, bidding will remain open for all licenses until the first round in which no new acceptable bids, proactive waivers, or withdrawals are received ("simultaneous stopping rule"). After the first such round, bidding closes simultaneously on all licenses. Further, the Bureau retains the discretion to implement a modified stopping rule to close the auction in the first round in which no bidder submits a proactive waiver, a withdrawal, or a new bid on any license on which it is not the standing high bidder. Thus, under this modified stopping rule, absent any other bidding activity, a bidder placing a new bid on a license for which it is the standing high bidder would not keep the auction open.

The Bureau retains the discretion; however, to keep an auction open even if no new acceptable bids or proactive waivers are submitted, and no previous high bids are withdrawn. In this event, the effect will be the same as if a bidder had submitted a proactive waiver. Thus, the activity rule will apply as usual, and a bidder with insufficient activity will either lose bidding eligibility or use an activity rule waiver (if it has any left).

Further, in its discretion, the Bureau reserves the right to declare that the auction will end after a specified number of additional rounds ("special stopping rule"). If the FCC invokes this special stopping rule, it will accept bids in the final round(s) only for licenses on which the high bid increased in at least one of the preceding specified number of rounds. The FCC intends to exercise this option only in extreme circumstances, such as

where the auction is proceeding very slowly, where there is minimal overall bidding activity, or where it appears likely that the auction will not close within a reasonable period of time. Before exercising this option, the FCC is likely to attempt to increase the pace of the auction by, for example, moving the auction into the next stage (where bidders would be required to maintain a higher level of bidding activity), increasing the number of bidding rounds per day, and/or increasing the amount of the minimum bid increments for the limited number of licenses where there is still a high level of bidding activity.

## (g) Auction Delay, Suspension, or Cancellation

By public notice or by announcement during the auction, the Bureau may delay, suspend or cancel the auction in the event of natural disaster, technical obstacle, evidence of an auction security breach, unlawful bidding activity, administrative or weather necessity, or for any other reason that affects the fair and competitive conduct of competitive bidding. In such cases, the Bureau, in its sole discretion, may elect to: resume the auction starting from the beginning of the current round; resume the auction starting from some previous round; or cancel the auction in its entirety. Network interruption may cause the Bureau to delay or suspend the auction. We emphasize that exercise of this authority is solely within the discretion of the Bureau, and its use is not intended to be a substitute for situations in which bidders may wish to apply their activity rule waivers.

#### 2. BIDDING PROCEDURES

#### (a) Round Structure

The initial bidding schedule will be announced by public notice at least one week before the start of the auction, and will be included in the registration mailings. The round structure for each bidding round contains a single bidding round followed by the release of the round results.

The FCC has discretion to change the bidding schedule in order to foster an auction pace that reasonably balances speed with the bidders' need to study round results and adjust their bidding strategies. The FCC may increase or decrease the amount of time for the bidding rounds and review periods, or the number of rounds per day, depending upon the bidding activity level and other factors.

#### (b) Reserve Price or Minimum Opening Bid

There are minimum opening bids for each of the licenses in the 929 and 931 MHz Paging auction that are reducible at the discretion of the Bureau. The level will be set as follows:

\$0.0005\*POPs (the result rounded to the nearest hundred for levels below \$10,000 and to the nearest thousand for levels above \$10,000) with a minimum of no less than \$2,500 per license.

## (c) Minimum Accepted Bids

Once there is a standing high bid on a license, a bid increment will be applied to that license to establish a minimum acceptable bid for the following round. For the 929 and 931 MHz Paging auction, we will utilize, as described immediately below, an exponential smoothing methodology to calculate minimum bid increments. The Bureau retains the discretion to change the minimum bid increment if it determines that circumstances so dictate. The exponential smoothing methodology has been used in previous auctions, including the LMDS, 220 MHz and LMS auctions.

## **Exponential Smoothing**

The exponential smoothing formula calculates the bid increment for each license based on a weighted average of the activity received on each license in the current and all previous rounds. This methodology will tailor the bid increment for each license based on activity, rather than setting a global increment for all licenses. For every license that receives a bid, the bid increment for the next round for that license will be established as a percentage increment that is determined by using the exponential smoothing formula.

Using exponential smoothing, the calculation of the percentage bid increment for each license will be based on an activity index, which is calculated as the weighted average of the current activity and the activity index from the previous round. The activity index at the start of the auction (round 0) will be set at 0. The current activity index is equal to a weighting factor times the number of new bids received on the license in the current bidding round plus one minus the weighting factor times the activity index from the previous round. The activity index is then used to calculate a percentage increment by multiplying a minimum percentage increment by one plus the activity index with that result being subject to a maximum percentage increment. The Commission will initially set the weighting factor at 0.5, the minimum percentage increment at 0.1 and the maximum percentage increment at 0.2

The Bureau retains the discretion to change the minimum bid increment if it determines that circumstances so dictate, such as raising the minimum increment toward the end of the auction to enable bids to reach their final values more quickly. The Bureau will do so by announcement in the Automated Auction System.

Under its discretion the Bureau may also implement an absolute dollar floor for the bid increment to further facilitate a timely close of the auction. The Bureau may also use its discretion to adjust the minimum bid increment without prior notice if circumstances warrant. As an alternative approach, the Bureau may, in its discretion, adjust the minimum bid increment gradually over a number of rounds as opposed to single large changes in the minimum bid increment (*e.g.*, by raising the increment floor by one percent every round over the course of ten rounds). The Bureau also retains the

discretion to use alternate methodologies for the 929 and 931 MHz Paging Auction if circumstances warrant.

## **Equations**

$$A_i = (C * B_i) + ((1-C) * A_{i-1})$$
  
 $I_i = \text{smaller of } ((1 + A_i) * N) \text{ and } M$ 

where,

 $A_i$  = activity index for the current round (round i)

C = activity weight factor

 $B_i$  = number of bids in the current round (round i)

 $A_{i-1}$  = activity index from previous round (round i-1),  $A_0$  is 0

 $I_i$  = percentage bid increment for the current round (round i)

N = minimum percentage increment

M = maximum percentage increment

Under the exponential smoothing methodology, once a bid has been received on a license, the minimum acceptable bid for that license in the following round will be the new high bid plus the dollar amount associated with the percentage increment (variable  $I_i$  from above times the high bid). This result will be rounded to the nearest thousand if it is over 10,000 or to the nearest hundred if it is under 10,000.

## **Examples**

License 1 C=0.5, N = 0.1, M = 0.2

### Round 1 (2 new bids, high bid = \$1,000,000)

1. Calculation of percentage increment using exponential smoothing:

$$A_1 = (0.5 * 2) + (0.5 * 0) = 1$$
  
The smaller of  $I_1 = (1 + 1) * 0.1 = 0.2$  or 0.2 (the maximum percentage increment)

2. Minimum bid increment using the percentage increment ( $I_1$  from above)

$$0.2 * \$1,000,000 = \$200,000$$

3. Minimum acceptable bid for round 2 = 1,200,000

## Round 2 (3 new bids, high bid = 2,000,000)

1. Calculation of percentage increment using exponential smoothing:

$$A_2 = (0.5 * 3) + (0.5 * 1) = 2$$
  
The smaller of  $I_2 = (1 + 2) * 0.1 = 0.3$  or 0.2 (the maximum percentage increment)

2. Minimum bid increment using the percentage increment (I<sub>2</sub> from above)

```
0.2 * \$2,000,000 = \$400,000
```

3. Minimum acceptable bid for round 3 = 2,400,000

Round 3 (1 new bid, high bid = 2,400,000)

1. Calculation of percentage increment using exponential smoothing:

```
A_3 = (0.5 * 1) + (0.5 * 2) = 1.5
The smaller of I_3 = (1 + 1.5) * 0.1 = 0.25 or 0.2 (the maximum percentage increment)
```

- 2. Minimum bid increment using the percentage increment ( $I_3$  from above) 0.2 \* \$2,400,000 = \$480,000
- 3. Minimum acceptable bid for round 4 = 2,880,000

## (d) High Bids

Each bid will be date- and time-stamped when it is entered into the Auctions Automation System. In the event of tie bids, the Commission will identify the high bidder on the basis of the order in which bids are received by the Commission, starting with the earliest bid. The bidding software allows bidders to make multiple submissions in a round. As each bid is individually date and time-stamped according to when it was submitted, bids submitted by a bidder earlier in a round will have an earlier date- and time-stamp than bids submitted later in a round.

### (e) Bidding

During a bidding round, a bidder may submit bids for as many licenses for which it is eligible, as well as withdraw high bids from previous bidding rounds, remove bids placed in the same bidding round, or permanently reduce eligibility. Bidders also have the option of making multiple submissions and withdrawals in each bidding round. If a bidder submits multiple bids for a single license in the same round, the system takes the last bid entered as that bidder's bid for the round, and the date- and time-stamp of that bid reflect the latest time the bid was submitted.

Please note that all bidding will take place either through the automated bidding software or by telephonic bidding. (Telephonic bid assistants are required to use a script when handling bids placed by telephone. Telephonic bidders are therefore reminded to allow sufficient time to bid, by placing their calls well in advance of the close of a round, because four to five minutes are necessary to complete a bid submission.) There will be no on-site bidding during Auction #26.

A bidder's ability to bid on specific licenses in the first round of the auction is determined by two factors: (1) the licenses applied for on FCC Form 175; and (2) the upfront

payment amount deposited. The bid submission screens will be tailored for each bidder to include only those licenses for which the bidder applied on its FCC Form 175.

The bidding software requires each bidder to login to the FCC auction system during the bidding round using the FCC account number, bidder identification number, and the confidential security codes provided in the registration materials. Bidders are strongly encouraged to download and print bid confirmations <u>after</u> they submit their bids.

The bid entry screen of the Automated Auction System software for the 929 and 931 MHz Paging Auction allows bidders to place multiple increment bids which will let bidders increase high bids from one to nine bid increments. A single bid increment is defined as the difference between the standing high bid and the minimum acceptable bid for a license.

To place a bid on a license, the bidder must enter a whole number between **1** and **9** in the bid increment multiplier (Bid Mult) field. This value will determine the amount of the bid (Amount Bid) by multiplying the bid increment multiplier by the bid increment and adding the result to the high bid amount according to the following formula:

## **Amount Bid = High Bid + (Bid Mult \* Bid Increment)**

Thus, bidders may place a bid that exceeds the standing high bid by between one and nine times the bid increment. For example, to bid the minimum acceptable bid, which is equal to one bid increment, a bidder will enter "1" in the bid increment multiplier column and press submit.

For any license on which the FCC is designated as the high bidder (*i.e.*, a license that has not yet received a bid in the auction or where the high bid was withdrawn and a new bid has not yet been placed), bidders will be limited to bidding only the minimum acceptable bid. In both of these cases no increment exists for the licenses, and bidders should enter "1" in the Bid Mult field. Note that any whole number between 1 and 9 entered in the multiplier column will result in a bid value at the minimum acceptable bid amount. Finally, bidders are cautioned in entering numbers in the Bid Mult field because, as explained in the following section, a high bidder that withdraws its standing high bid from a previous round, even if mistakenly or erroneously made, is subject to bid withdrawal payments.

## (f) Bid Removal and Bid Withdrawal

Before the close of a bidding round, a bidder has the option of removing any bids placed in that round. By using the "remove bid" function in the software, a bidder may effectively "unsubmit" any bid placed within that round. A bidder removing a bid placed in the same round is not subject to withdrawal payments. Removing a bid will affect a bidder's activity for the round in which it is removed so bidders are cautioned to check their activity level for the round carefully.

Once a round closes, a bidder may no longer remove a bid. However, in the next round, a bidder may withdraw standing high bids from previous rounds using the withdraw bid function (assuming that the bidder has not exhausted its withdrawal allowance). A high bidder that withdraws its standing high bid from a previous round is subject to the bid withdrawal payments specified in 47 C.F.R. §§ 1.2104(g), and 1.2109. The procedure for withdrawing a bid and receiving a withdrawal confirmation is essentially the same as the bidding procedure described in "High Bids," in this Tab.

Bidders are limited to placing withdrawals in two rounds. These rounds will be at the bidder's discretion and there will be no limit on the number of bids that may be withdrawn in either of these rounds. Withdrawals will still be subject to the bid withdrawal payments specified in 47 C.F.R. §§ 1.2104(g), and 1.2109. Bidders should note that abuse of the Commission's bid withdrawal procedures could result in the denial of the ability to bid on a market.

If a high bid is withdrawn, the license will be offered in the next round at the second highest bid price, which may be less than, or equal to, in the case of tie bids, the amount of the withdrawn bid, without any bid increment. The FCC will serve as a "place holder" on the license until a new acceptable bid is submitted on that license.

Generally, a bidder that withdraws a standing high bid during the course of an auction will be subject to a payment equal to the lower of: (1) the difference between the net withdrawn bid and the subsequent net winning bid; or (2) the difference between the gross withdrawn bid and the subsequent gross winning bid for that license. *See* 47 C.F.R. §§ 1.2104(g), and 1.2109. No withdrawal payment will be assessed if the subsequent winning bid exceeds the withdrawn bid.

#### (g) Round Results

The bids placed during a round are not published until the conclusion of that bidding period. After a round closes, the FCC will compile reports of all bids placed, bids withdrawn, current high bids, new minimum accepted bids, and bidder eligibility status (bidding eligibility and activity rule waivers), and post the reports for public access.

Reports reflecting bidders' identities and bidder identification numbers for Auction #26 will be available before and during the auction. Thus, bidders will know in advance of this auction the identities of the bidders against which they are bidding.

#### (h) Auction Announcements

The FCC will use auction announcements to announce items such as schedule changes and stage transitions. All FCC auction announcements will be available on the FCC remote electronic bidding system, as well as the Internet and the FCC Bulletin Board System.

## (i) Changes to Short Form

As noted in "Pre-Auction Procedures," Tab C, after the short-form filing deadline, applicants may make only minor changes to their FCC Form 175 applications. For example, permissible minor changes include deletion and addition of authorized bidders (to a maximum of three) and revision of exhibits. Filers should make these changes online, and submit a letter to Amy Zoslov, Chief, Auctions and Industry Analysis Division, Wireless Telecommunications Bureau, Federal Communications Commission, 445 12<sup>th</sup> Street, S.W., Washington, D.C. 20554 (and mail a separate copy to Rosemary Cabral, Legal Branch, Auctions and Industry Analysis Division, 445 12<sup>th</sup> Street, S.W., Washington, DC 20554) briefly summarizing the changes. Questions about other changes should be directed to Rosemary Cabral at (202) 418-0660.

## 3. TELEPHONIC BIDDING INSTRUCTIONS

Bidders are encouraged to utilize the remote electronic bidding software. However, the option to bid telephonically can be used as a backup to electronic bidding or by those participants who prefer not to bid electronically. Trained bid assistants can:

- Submit a bid(s)
- Reduce eligibility
- Submit a waiver
- Remove a current bid(s)
- Withdrawal a standing high bid(s)

Listed below are instructions for using the telephonic bidding option. These instructions can also be used as a guide when submitting a bid electronically for the first time.

- 1) Each time a call is placed, you will be asked to provide the following information:
  - Login ID: Provided in the 2nd Federal Express mailing.
  - Login Password: Provided in the 2nd Federal Express mailing.
  - FCC Account Number: Provided in the 1st Federal Express mailing.
  - Bidder Identification Number (BIN): Provided in the 1st Federal Express mailing.
- 2) Your fax number will be verified.
- 3) You will be asked to identify yourself. (Your eligibility to bid for this bidder will be verified with the information provided on the FCC Form 175.)
- 4) You will be notified of your current status in the auction. This will include the stage, round number, time remaining in bidding period, waivers used, waivers remaining, current activity, and activity amount required.
- 5) You will be asked what transaction you would like to perform (i.e. submit a bid, reduce eligibility, submit a waiver, etc.). Please have the pertinent market number(s) and frequency block(s) you are interested in readily available.
- 6) If submitting a bid(s), the bid assistant will indicate if you are the standing high bidder in that market. If not, they will identify the previous high bid and the current bid increment. You will then be asked how many increments you wish to bid (1-9).
- 7) After the last bid has been placed, the bid assistant will confirm your bid(s) before submitting and will advise you of the total dollar amount of your bid(s) and the total activity (bidding units) used in the round.
- 8) A bid verification will be generated and faxed to number confirmed previously.

Note: Advise bid assistant of any intention to submit multiple transactions. Completing transactions randomly may jeopardize your status in the auction. For instance:

If you intend to withdrawal a standing high bid or remove a current bid as well as submit a new bid, the withdrawal/removal should be done first to ensure that you have sufficient eligibility to place the new bid.

If you intend to reduce your eligibility as well as submit a bid(s), all bids should be submitted first. If not, your eligibility will be reduced to your current activity amount and you will not have enough eligibility to place new bids.

## 4. HOW TO MONITOR THE FCC AUCTIONS ON-LINE

The auction announcements and round results for Auction 26 will be accessible through the FCC Wide Area Network, the Internet, the FCC Auction Bulletin Board System (BBS), and the FCC's Automated Round Results System. You can check on round results and also read any material released by the Commission during the course of the auction. The information needed to track the auction from your computer is listed in options 1-3. An alternative method is listed in option 4.

## Option 1: Tracking the Auction via the FCC Wide Area Network

The FCC has implemented a Remote Access System that allows users to dial in directly to the FCC to view round results, auction announcements, and messages, and to make suggestions to the FCC regarding the FCC auction process.

The following minimum hardware and software is required to use the FCC Remote Access System:

## **Minimum Hardware Requirements**

- CPU: Intel Pentium
- RAM: 16 MB (more recommended if you have multiple applications open)
- Modem: v.32bis 14.4kbps Hayes compatible modem or faster (recommend 56.6 Kbps)
- Monitor: VGA or above
- Mouse or other pointing device

#### **Minimum Software Requirements**

- Operating System: Microsoft Windows 95/98
- Point-to-Point Protocol (PPP) Dialer: Use the Dial-Up Networking feature included with Windows 95/98
- Web Browser: Netscape® Communicator<sup>TM</sup> 4.7 is recommended. However, you can also use Netscape Communicator 4.5, 4.51, or 4.61 (Internet web browser software).

Note: To download Netscape Communicator 4.7 free of charge, access the Netscape download site at *http://home.netscape.com/download/* 

### **Connecting to the FCC Network**

To use the FCC Remote Access System, you must first connect to the FCC Network using Dial-Up Networking.

Dial-Up Networking connects to a 900 number telephone service at a charge of \$2.30 per minute. The first minute of connection time to the 900 number service is at no charge.

Dial-Up Networking establishes a point-to-point connection from your PC to the FCC Network. *This point-to-point connection is not routed through the Internet*.

For instructions regarding how to connect to the FCC Network using Dial-Up Networking, see the *Accessing the FCC Network Using Windows 95/98* section.

*Note:* Throughout these instructions, "enter" means to type the appropriate information and then press the ENTER key.

## **Using the FCC Remote Access System**

After you have connected to the FCC Network, start your Netscape Web browser. In your browser's *Location* field, enter the following location:

http://wtbwww26.fcc.gov and then click Round Results Viewer, Suggestion Box, or Announcements

**Note:** If you cannot access the preceding site, and you suspect there is a problem with your Domain Name Server (DNS), refer to *Accessing FCC Sites In Case of DNS Problems* at the end of this document.

When you have finished, exit your Web browser, then disconnect from the FCC Network.

For technical assistance with installing or using FCC software, contact the FCC Technical Support Hotline at (202) 414-1250 (V) or (202) 414-1255 (TTY). The FCC Technical Support Hotline is generally available Monday through Friday, from 8 a.m. to 6 p.m. ET. *All calls to the FCC Technical Support Hotline are recorded.* 

#### **Option 2: Tracking the Auction via the Internet**

You may use your Web browser to download announcements and round results from *wtbwww13.fcc.gov* – or from either of two secondary locations, *wtbwww01.fcc.gov* or *www.fcc.gov/wtb/auctions/* – as described in the following section.

## **Downloading from** *wtbwww13.fcc.gov* or *wtbwww01.fcc.gov*:

- 1. Connect to your Internet service provider and start your Web browser.
- 2. In the *Location* field of the Web browser screen, enter one of the following locations: *http://wtbwww13.fcc.gov* or *wtbwww01.fcc.gov*

**Note:** If you cannot access either of the preceding sites, and you suspect there is a problem with your Domain Name Server (DNS), refer to *Accessing FCC Sites In Case of DNS Problems* at the end of this document.

#### 3. Click on Auction 26.

- For auction announcements, click on **Announcements**.
- To download a bid import template file, click on **Announcements**, then select template.txt.
- For auction round results, click on **Results** and then click on the subdirectory for the type of files you wish to use:

mdb - Microsoft Access database files,txt - text files, anddbf - dBASE database files.

4. Click on the file you wish to download.

### Downloading from www.fcc.gov/wtb/auctions/

- 1. Connect to your Internet service provider and start your Web browser.
- 2. In the *Location* field of the Web browser screen, enter the following location: *http://www.fcc.gov/wtb/auctions/*
- 3. Do the following:
  - a. In the *Auctions* section on the right, click **929 and 931 MHz Paging Auction** #26 under *In Progress*.
  - b. Then click on Announcements, Programs, or Results.
    - For auction announcements, click on **Announcements**.
    - To download a bid import template file, click on **Announcements**, then select template.txt.

- For auction round results, click on **Results** and then click on the subdirectory for the type of files you wish to use:

mdb - Microsoft Access database files,txt - text files, anddbf - dBASE database files.

4. Then click on the file you wish to download.

#### **Archive Directories**

The FCC will establish archive directories for round results files on the Internet. After every 50 rounds, files will be moved from the *Results* MDB, TXT, or DBF directories to a respective archive directory. The newest round results files will continue to be uploaded to the *Results* directory.

For example, in round 102, DBF round results files would be located as follows:

### On the primary location, wtbwww13.fcc.gov:

Rounds 1-50	http://wtbwww13.fcc.gov/Paging/Auction_26/Results/dbf/D001_050
Rounds 51-100	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/dbf/D051_100
Rounds 101-102	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/dbf/
Rounds 1-50 Rounds 51-100 Rounds 101-102	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/mdb/M001_050 http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/mdb/M051_100 http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/mdb/
Rounds 1-50	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/txt/T001_050
Rounds 51-100	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/txt/T051_100
Rounds 101-102	http://wtbwww13.fcc.gov/ Paging /Auction_26/Results/txt/

**Note:** If you cannot access these files at the preceding primary location, you can use your regular Internet Service Provider to access the same files at either of the following secondary locations: *wtbwww01.fcc.gov* or *www.fcc.gov/wtb/auctions/*.

## **Option 3: Tracking the Auction via the Bulletin Board System (BBS)**

The FCC Auction Bulletin Board System (BBS) provides dial-in access for Auction Results. To access the FCC Auction BBS, use a communications package that can handle Zmodem protocol (such as PcAnyWhere, Procomm, or Microsoft Hyperterminal in Windows 95/98) to dial in to (202) 682-5851 or (717) 338-0731. Use the settings of 8 data bits, no parity and 1 stop bit (8,N,1).

Once your computer is connected to the Auction BBS, do the following:

- 1. To create an account:
  - a. Enter your first name.
  - b. Enter your last name.
  - c. When asked whether you want to create an account, enter y. (You may also enter Y, the program accepts either case.)
  - d. When prompted, enter a password.

The password can be from four to ten characters long (where the characters can be either letters or numbers).

- e. To confirm the password, enter it again.
- f. When prompted for contact information, enter your voice phone number. Include the area code; for example, you might enter *202-555-1234*.
- g. Enter your company name.
- 2. On the Welcome screen, enter *c* for *Continue*.
- 3. When asked whether you want to view the bulletin menu, enter *y* for *Yes*. Then, to continue, press ENTER to obtain the FCC Auction BBS Main Menu.
- 4. Enter *a* (for Auction Menu) to obtain the *Auction Library Menu*. The top options on this menu provides a range of numbers to represent the available auctions.
- 5. To select Auction 26, enter c to select the third range.
- 6. On the Auctions Library Menu, enter the number of the auction you want.

The Auction Menu appears.

7. Enter a to select *Announcements* or enter r to select *Results*.

The list of available files for Auction 26 appears. These files are sorted by date, with the most recent files at the beginning of the list.

8. To scroll downward to the next screen of file names, either press ENTER or enter *c* for *Continue*. To scroll upward to the preceding screen of file names, enter *p* for *Previous*.

Note that on each screen, file names are numbered separately, starting with 1.

9. To select one or more files for downloading or viewing, mark the files you want. The program marks a file by preceding its name with an asterisk (\*).

You can do the following:

- o To mark an individual file, enter its line number.
- o To mark a range of files, enter *m* (for *Mark*) and then enter the range of files in response to the prompt. For example, to mark files 6 through 12, enter *6-12* at the prompt.
- o To unmark a file, enter its number again. You can also use Mark to unmark a range of files.
- 10. When you have finished marking files, you may download or view the marked files (you may only view text files).

To download the marked files, take the following steps:

a. Enter **d** for *Download*.

The program displays a list that summarizes the download operation. The *Time* column lists the download time for each file; the *Total Time* column lists a running total of the download times.

- b. Enter *d* to proceed.
- c. Select the file transfer protocol that has been specified in your terminal emulation software (e.g., Zmodem).
- d. When the download operation has finished, the list of files reappears.

To view the marked files, do the following:

- a. Enter *v* for *View*.
- b. Enter the file number that you would like to view.
- 11. Enter *x* to leave the BBS.

*Note:* All round results files will be accessed through the *Results* menu on the BBS. No archive menus will be created.

#### **Announcement Files**

The announcement files will use the naming convention  $aa\_xxx.nn$ , where aa is the auction number, xxx is the round number and nn is the announcement number. For example, 26\_002.07 would represent an announcement for Auction 26 that was posted during round two and was the seventh announcement for the auction.

#### **Round Results Files**

For each round, dBase-compatible database files will be uploaded with the following naming conventions i.e. naming conventions where *xxx* represents the round number.

26\_xxxS.DBF contains all bids submitted in a particular round

26\_xxxW.DBF contains all bids withdrawn in a particular round

26\_xxxE.DBF contains the maximum eligibility and remaining number of waivers for each bidder

26\_xxxH.DBF contains the high bids in a particular round and the minimum accepted bids for the next round

For those who cannot use the dBase-compatible database files, we will also upload the ASCII text (.TXT) version of these files with the same filenames as above (e.g., 26\_xxxS.TXT, 26\_xxxE.TXT).

In addition, if you wish to use Microsoft Access or are using the FCC provided Auction Tracking Tool, we upload the MDB access version of the round results files with the filenames as above as zipped files (e.g., 26\_xxxS.ZIP, 26\_xxxE.ZIP).

## **Round Results File Formats**

The Round Results File Formats will be published in a future Public Notice.

## **Accessing FCC Sites In Case of DNS Problems**

When you enter a URL into your browser, the system must convert this alphanumeric text (e.g., www.fcc.gov/wtb/auctions/) into its associated numeric IP address (192.104.54.3, in this case). To make this conversion, the system checks URL-to-IP-address "lookup" tables in two different places.

First, it looks at the table contained in a file called **hosts** in the c:\windows directory on your computer's hard drive. If the URL is not in that table, the system looks in the database on your Domain Name Server (DNS). However, if your DNS is unavailable for some reason, the system will not be able to find the IP address you requested.

The following procedure is intended to help ensure that you can access auction results files on the FCC's Web and FTP sites if your designated DNS has problems. Note the following:

- The IP addresses shown in the following procedure are correct as of the date this document was created. They may have changed subsequently. In case of problems, please check with Tech Support at (202) 414-1250.
- Make entries in the **hosts** file *only* to work around DNS problems. We do not recommend leaving these entries in permanently; please remove them when your DNS problem has been resolved.

To add FCC-related URL entries to your computer's hosts file, do the following:

1. Using Windows Explorer, ensure that the hosts file exists in your c:\windows directory. If c:\windows has no **hosts** file, use the Windows *Rename* function to change the name of the **hosts.sam** file to **hosts** (with no extension).

To do this, use your *right-hand* mouse button to click the **hosts.sam** file, then click the Rename option in the menu that appears.

2. Using a text editor of your choice, such as Wordpad or Notepad, open the hosts file in your c:\windows directory.

This file will already contain the following entry:

```
127.0.0.1 localhost
```

3. Using the same format (with at least one space between each number and its corresponding URL), add the following entries to the bottom of the file:

```
192.104.54.3 ftp.fcc.gov
192.104.54.3 www.fcc.gov
208.245.40.194 wtbftp02.fcc.gov
208.245.40.194 wtbwww13.fcc.gov
207.123.193.68 wtbftp01.fcc.gov
207.123.193.68 wtbwww01.fcc.gov
```

4. Save the file and exit your text editor.

Be sure that the file name has not changed to *hosts.txt* or *hosts.doc* or similar. It must remain just **hosts** (with no extension).

#### Using the Backup 900 Number

If you had problems connecting through the FCC's 900 number, to review FCC Form 175 applications or to use the FCC Remote Access System, you must reconfigure Dial-Up Networking to use the backup 900 number. Do the following:

- 1. Click the FCC Auctions 900# icon, to highlight it.
- 2. Using your mouse's *right* mouse button, click this icon.
- 3. Click the *Properties* option on the menu.
- 4. In the *Telephone Number* field of the window that appears, type 555-5335.
- 5. Click the **OK** button.

#### Option 4: Tracking the Auction via the FCC's Automated Round Results System

Round results are also available from a touch-tone phone, using the FCC's Automated Round Results System. To access this system, dial 800-432-2110 from outside the Washington DC area and 202-414-1260 from within the Washington DC area. Once the system has been activated, you will follow the voice prompts. You will need to know the name of the license you want by market and frequency block, such as MEA001 A.

#### Help

For technical assistance with downloading files or installing and using FCC software, contact the FCC Technical Support Hotline at (202) 414-1250 (V) or (202) 414-1255 (TTY). The FCC Technical Support Hotline is generally available Monday through Friday, from 8 a.m. to 6 p.m. ET. *All calls to the FCC Technical Support Hotline are recorded.* 

#### 5. ACCESSING THE FCC NETWORK USING WINDOWS 95/98

This attachment describes how to access the FCC Network from a system that is running the Microsoft Windows 95 or Microsoft Windows 98 operating system. This involves configuring dial-up network access and then performing the dial-up procedure. Dial-up access to the FCC Network is required to submit FCC Form 175 applications electronically or use the FCC Remote Access System.

**Note:** Dial-up access to the FCC Network is **not** required to review FCC Form 175 applications. You can perform that function from the Internet, by entering location **http://wtbwww15.fcc.gov/** on your Netscape Web browser and clicking the **175 Review** button.

#### **Conventions**

The instructions in this section use the following typographical conventions:

Represents objects on the screen that you click with the mouse pointer, including buttons, Internet links, icons, tabs, menu items (e.g., **Cancel** button, **Auctions** link, **Save** option in the File menu).

italic Represents field names or areas of a screen (e.g., Applicant field, Selected Licenses area of a screen).

**bold italic** Represents characters that you must type exactly as they appear in the instructions. For example, if you are instructed to type **http://wtbwww26.fcc.gov**, you should type all of the characters shown in bold italic exactly as they are printed.

SMALL CAPS Represents keys on the keyboard (e.g., ENTER, CTRL, ESC).

*Note:* Throughout these instructions, "enter" means to type the appropriate information and then press the ENTER key.

#### **Configuring Dial-Up Networking**

- 1. To start dial-up networking:
  - a. Click the Windows 95/98 **Start** button.
  - b. Click the **Programs** option to display the Programs menu.
  - c. Click the **Accessories** option to display the Accessories menu.
  - d. In Windows 95, click **Dial-Up Networking**.
     In Windows 98, click **Communications**, then **Dial-Up Networking**.

If Dial-Up Networking is not an option on your Accessories menu, you should install it from your Windows 95/98 CD or diskettes.

2. When the Dial-Up Networking window appears, double-click the **Make New Connection** icon.

The Make New Connection window appears.

3. If you are connecting to submit FCC Form 175 applications, type *FCC Auctions* **877**# in the field titled *Type a name for the computer you are dialing.* 

If you are connecting to use the FCC Remote Access System, type **FCC Auctions 900**# in the field titled *Type a name for the computer you are dialing.* 

**Note**: If you connect to the FCC's 900# telephone service, there is a charge of \$2.30 per minute. The first minute of connection time to the 900 number service is at no charge.

4. In Windows 95, click the down arrow at the right of the *Select a modem* field and select your modem from the menu of available modems.

In Windows 98, click the down arrow at the right of the *Select a device* field and select your modem from the menu of available devices.

If your modem does not appear on this list, you must install your modem driver according to the modem manufacturer installation procedures, which are usually described in your modem's user manual.

- 5. Click the **Next** button.
- 6. If you are connecting to submit FCC Form 175 applications, type **877** and **844**-**2788** in the *Area Code* and *Telephone Number* fields, respectively.

If you are connecting to use the FCC Remote Access System, type **900** and **555-554** in the *Area Code* and *Telephone Number* fields, respectively.

7. Verify that the correct country is selected in the *Country code* field.

If necessary, click the down arrow at the right of the *Country code* field and select the appropriate country from the menu of available countries.

- 8. Click the **Next** button.
- 9. Click the **Finish** button.

- An icon labeled either *FCC Auctions 877#* or *FCC Auctions 900#* appears in the Dial-Up Networking window.
- 10. Verify that properties are configured correctly before attempting a dial-up session. Put the mouse pointer on the FCC Auctions icon that you wish to configure and click the *right* mouse button to display a menu. Click **Properties** from the menu.
- 11. Click the **Configure** button. Click the **Options** tab at the top of the Properties window.
- 12. In the *Connection control* area of the Options tab, verify that *neither* option is selected. If either option is selected, click the check box at the left of the option to deselect it. Then click **OK**.
- 13. In Windows 95, click the **Server Type...** button.
  - In Windows 98, click the **Server Types** tab at the top of the Properties window.
- 14. In the *Advanced Options* area, verify that only *Enable software compression* is selected. If it is not selected, click the check box at the left of the option to select it. If either of the other options is selected, click the check box to deselect it.
- 15. In the *Allowed Network Protocols* area, verify that only *TCP/IP* is selected.
  - If it is not selected, click the check box at the left of the option to select it. If either of the other options is selected, click the check box to deselect it.
- 16. Click the **TCP/IP Settings** button. On the TCP/IP Settings window, select *Server assigned IP address* at the top and *Specify name server addresses* in the area midway down the window.
- 17. Type **165.135.79.95** as the Primary DNS.

Ensure that these two options are checked:

- Use IP header compression
- Use default gateway or remote network
- 18. Click **OK** on the TCP/IP Settings window and the Server Type window.
- 19. a. Click the Windows 95/98 *Start* button, then click the *Settings* option to display the Settings menu.
  - b. Click *Control Panel* and then double-click the *Network* icon.

- c. Highlight the TCP/IP Protocol and click *Properties*. If there are multiple TCP/IP protocols, highlight TCP/IP --> Dial-Up Adapter and click *Properties*.
- d. Click the DNS Configuration tab.
- e. Select *Enable DNS*. Type **bidder** in the *Host* box, type **fcc.gov** in the *Domain* box, then type **165.135.79.95** in the DNS Server Search Order box and click the *Add* button.
- f. Click *OK* on the TCP/IP Properties windows, then click *OK* on the Network windows.
- f. If you are prompted to restart your computer, click *Yes* to restart, then begin the Dial-Up Procedure.

#### **Dial-Up Procedure**

- 1. If the Dial-Up Networking window is not currently open, do the following:
  - a. Click the Windows 95/98 **Start** button.
  - b. Click the **Programs** option to display the Programs menu.
  - c. Click the **Accessories** option to display the Accessories menu.
  - d. In Windows 95, click **Dial-Up Networking**In Windows 98, click **Communications**, then **Dial-Up Networking**.

The Dial-Up Networking window appears.

 In the Dial-Up Networking window, double-click the FCC Auctions 877# or FCC Auctions 900# icon.

**Note**: If you connect to the FCC's 900 number telephone service, there is a charge of \$2.30 per minute. The first minute of connection time to the 900 number service is at no charge.

3. Click the **Connect** button on the window. *Do not enter User name and Password* .

The Connection window appears, indicating the status of your connection as your modem dials into the system. This window must remain running during your dial-up session. You may minimize the window, if you wish.

If your modem fails to establish a connection, please see the *Troubleshooting* section below.

- 4. Once the connection is established, open your Web browser.
- 5. In your browser's *Location* field, enter the appropriate Universal Resource Locator (URL) as follows:
  - For FCC Form 175 Submit, enter *http://wtbwww34.fcc.gov* (primary location) or *http://wtbwww04.fcc.gov* (secondary location)
  - For the FCC Remote Access System, enter **http://wtbwww26.fcc.gov** (primary location) or **http://wtbwww03.fcc.gov** (secondary location)

If nothing appears in your Web browser, please see the *Troubleshooting* section below.

6. When you have finished, exit the Web browser, then click the **Disconnect** button on the Connection window to end your dial-up session.

#### **Troubleshooting**

Following are problems you may encounter and possible solutions for resolving or isolating them.

#### Modem does not respond

- 1. Confirm that all physical connections for the modem are present.
- 2. Confirm that the phone line is active by connecting it to a telephone and checking for a dial-tone.
- 3. If you are dialing the 900 number service, check for a 900 number telephone block. If the volume settings are low, the modem may be dialing but not connecting. Check for this by trying to connect to the 877 number, or by dialing the 900 number on that line using a telephone.
- 4. Confirm that the correct modem driver is installed for your modem.

#### Modem dials but does not connect

- 1. If you are dialing the 900 number service, check for a 900 number telephone block. Check for this by dialing the 877 number to see if you connect, or by dialing the 900 number on that line using a telephone.
- 2. Confirm that the number the modem is dialing is correct.

- 3. Confirm that the modem prefix, if any, is correct.
- 4. Reconfigure Dial-Up Networking to use the backup 900 number, as described under "Accessing FCC Sites In Case of DNS Problems" under this section *How To Monitor the FCC Auctions On-Line*.

# Modem dials and connects, but nothing appears when you enter the Location in the Web browser

- 1. Verify the Dial-Up Networking settings specified in the Configuring Dial-Up *Networking* section.
- 2. Confirm that your Web browser is not using proxies:
  - a) On your browser, click the *Preferences* option in the Edit menu.
  - b) In the Category area at the left, double-click *Advanced*.
  - c) Click the Advanced structure's *Proxies* option.
  - d) Click the radio button labeled *Direct connection to the Internet*.
  - e) Click the **OK** button at the bottom of the window.

#### Receive an Internal Server error in the Web browser

- 1. Confirm that the *Location* is correct.
- 2. Confirm that *Java* and *JavaScript* are enabled in your Web browser, and confirm that *Cookies* is set to Accept All.

#### Help

For technical assistance with installing or using FCC software, contact the FCC Technical Support Hotline at (202) 414-1250 (V) or (202) 414-1255 (TTY). The FCC Technical Support Hotline is generally available Monday through Friday, from 8 a.m. to 6 p.m. ET. *All calls to the FCC Technical Support Hotline are recorded.* 

#### 6. AUCTION TRACKING SOFTWARE

The FCC has developed the Auctions Tracking Tool ("ATT") for tracking the results of its auctions. The ATT is a stand-alone application which allows users to import auction round result files and analyze bidding results. The ATT runs on Microsoft Windows 95/98 and NT operating systems and does not require any further software for its basic operation, however some advanced features require Microsoft Excel 97 or later.

The **ATT version 3.2.2** is available for download at: <a href="http://www.fcc.gov/wtb/auctions">http://www.fcc.gov/wtb/auctions</a>. At this web page, choose 929 and 931 MHz Paging Auction #26 under "Future" or "In Progress Auctions", and then choose the link for the FCC Auction Tracking Tool. The ATT will also be available on the FCC Auctions Bulletin Board.

**User Requirements**. This software is designed for a wide range of users. To use the tool most effectively, users should have a working knowledge of the following:

- Microsoft Windows 95, 98, or NT
- Microsoft Excel
- The FCC simultaneous multiple round ascending auction format

**Software and Hardware requirements.** As a minimum, users will need the following to operate the ATT:

- Microsoft Windows 95, 98, or NT (Recommend Microsoft Excel 97 or later for advanced features.)
- 40-50 MB of available hard disk space. The application requires 2-3 MB of disk space. The rest of the storage space is necessary, as the auction database can grow quite large.
- 16 MB RAM and a Pentium 133 MHz processor. (32 MB RAM and Pentium 166 MHz processor is recommended).
- Some advanced features of the tool require Microsoft Excel 97, but most functions can be used without it.

**Installation Procedure**. The software for the Auction Tracking Tool is available as a self-extracting file that you download from the FCC's Auctions website. To install it please follow these steps:

- 1. Create a directory on your computer's hard drive for the Auction Tracking Tool software (remember this subdirectory).
- 2. Click the "Tool Icon" found on the Auction Tracking Tool page to select file.
- 3. Type the subdirectory you chose in step 1 when the "Save As" dialog box appears and select "Save" to download the zipped file.
- 4. Go to the subdirectory where you downloaded the file and double click the Auction Tracking Tool (fccatt.exe) to unzip the file.

5. Close all Windows applications and run the **fccatt.exe** program. This will initiate the installation of ATT.

(Please note: The ATT includes a utility that will unzip the round result ".mdb" files, so it is not necessary to unzip them after downloading.)

#### POST-AUCTION PROCEDURES

#### 1. Down Payments and Withdrawn Bid Payments

After bidding has ended, the Commission will issue a public notice declaring the auction closed, identifying the winning bids and bidders for each license, and listing withdrawn bid payments due.

Within ten business days after release of the auction closing notice, each winning bidder must submit sufficient funds (in addition to its upfront payment) to bring its total amount of money on deposit with the Government to 20 percent of its net winning bids (actual bids less any applicable bidding credits). *See* 47 C.F.R. § 1.2107(b). In addition, by the same deadline all bidders must pay any withdrawn bid amounts due under 47 C.F.R. § 1.2104(g), as discussed in "Bid Removal and Bid Withdrawal," in Tab D. (Upfront payments are applied first to satisfy any withdrawn bid liability, before being applied toward down payments.)

#### 2. Long-Form Application

Within ten business days after release of the auction closing notice, winning bidders must electronically submit a properly completed long-form application and required exhibits for each 929 and 931 MHz Paging license won through the auction. Winning bidders that are small businesses or very small businesses must include an exhibit demonstrating their eligibility for bidding credits. *See* 47 C.F.R. § 1.2112(b). Further filing instructions will be provided to auction winners at the close of the auction.

#### 3. Default and Disqualification

Any high bidder that defaults or is disqualified after the close of the auction (*i.e.*, fails to remit the required down payment within the prescribed period of time, fails to submit a timely long-form application, fails to make full payment, or is otherwise disqualified) will be subject to the payments described in 47 C.F.R. § 1.2104(g)(2). In such event the Commission may reauction the license or offer it to the next highest bidders (in descending order) at their final bids. *See* 47 C.F.R. § 1.2109(b) and (c). In addition, if a default or disqualification involves gross misconduct, misrepresentation, or bad faith by an applicant, the Commission may declare the applicant and its principals ineligible to bid in future auctions, and may take any other action that it deems necessary, including institution of proceedings to revoke any existing licenses held by the applicant. *See* 47 C.F.R. § 1.2109(d).

#### 4. Refund of Remaining Upfront Payment Balance

All applicants that submitted upfront payments but were not winning bidders for a 929 and 931 MHz Paging license may be entitled to a refund of their remaining upfront payment

balance after the conclusion of the auction. No refund will be made unless there are excess funds on deposit from that applicant after any applicable bid withdrawal payments have been paid.

Bidders that drop out of the auction completely may be eligible for a refund of their upfront payments before the close of the auction. However, bidders that reduce their eligibility and remain in the auction are not eligible for partial refunds of upfront payments until the close of the auction. Qualified bidders that have exhausted all of their activity rule waivers, have no remaining bidding eligibility, and have not withdrawn a high bid during the auction must submit a written refund request which includes wire transfer instructions, a Taxpayer Identification Number ("TIN") to:

Federal Communications Commission
Financial Operations Center
Auctions Accounting Group
Shirley Hanberry
445 12th Street, S.W., Room 1-A824
Washington, D.C. 20554

Bidders can also fax their request to the Auctions Accounting Group at (202) 418-2843. Once the request has been approved, a refund will be sent to the address provided on the FCC Form 159.

NOTE: Refund processing generally takes up to two weeks to complete. Bidders with questions about refunds should contact Michelle Bennett or Gail Glasser at (202) 418-1995.

#### 5. Winning Bidder Requirements

# AUCTION-SPECIFIC INSTRUCTIONS FCC REMITTANCE ADVICE, FCC FORM 159: DOWN PAYMENTS AND FINAL PAYMENTS

Specific information regarding down payments and final payments will be included in a closing Public Notice (PN) announcing the winning bidders.

#### POST-AUCTION LONG-FORM FILING

Within ten business days after release of the auction closing PN, winning bidders must submit a properly completed long-form application (FCC Form 601) and required exhibits for **each license won** through the auction. Further filing instructions will be provided to auction winners at the close of the auction.

# 1. FCC AUCTION SEMINAR REGISTRATION FORM The 929 and 931 MHz Paging Auction

The FCC will sponsor a one day seminar for the Paging auction applicants. The seminar is free of charge and will provide information about pre-auction procedures, service and auction rules, conduct of the auction, and the FCC remote bidding software.

**Space is limited.** A maximum of two representatives from each company may attend on a reservation basis, first-come first-served until room capacity is filled. Additional seating may be available on a stand-by basis the day of the seminar. The seminar will be held:

Friday, January 7, 2000 Federal Communications Commission 445 12<sup>th</sup> Street S.W. Washington, DC 20554

Registration 8:30 a.m. - 9:30 a.m. Seminar 9:30 a.m. - 4 p.m.

If hotel accommodations are needed Please contact 1-888-CALL-FCC (option #2) for a list of hotels in the area

To register, complete the form below and return no later than

Wednesday, January 5, 2000, by mail or fax to:

FCC Auction 26 Auctions Operations Branch 1270 Fairfield Road Gettysburg, PA 17325-7245

> FAX: 717-338-2850 Phone: 717-338-2888

I/We will attend the 929 and 931 MHz Paging auction seminar on **Friday, January 7, 2000** 

Name of attendee:	
Name of attendee:	
Company name:	
Phone:	Fax:

# 2. FCC REMOTE BIDDING SOFTWARE ORDER FORM: The 929 and 931 MHz Paging Auction

Qualified bidders have the option to electronically participate in the auction bidding process by using the FCC Remote Bidding Software. Further, while bidders are free to copy the software for use by authorized bidders at different locations, the FCC auction system will accept electronic bids only from bidders who have purchased the software. (Since bidding software is tailored to a specific auction, software from prior auctions will not work for Auction 26.)

The price of the FCC Remote Bidding Software is \$175.00, including a user manual and shipping. To order, complete the form below and return no later than 5:30 p.m. ET on **Tuesday, February 8, 2000**, to:

FCC Bidding Software, Auction #26

<u>Auction Operations Branch</u>
1270 Fairfield Rd.

Gettysburg, PA 17325-7245

FAX: 717-338-2850

For security purposes, software packages will be sent with other registration materials only to the contact person at the contact address specified on the FCC Form 175. NO EXCEPTIONS.

Auction Applicant:	
FCC Assigned Account No	Phone:
Fax:	_ Fax Modem No
Payment of \$175.00 US by: _ check	enclosed (payable to "FCC")
_ Visa _ MasterCard	
Type: _ 3.5 diskette _ 0	CD-Rom
Credit card number	Expiration date
Name on card	
Authorized signature	Date

# 3. ELECTRONIC FILING AND REVIEW OF THE FCC FORM 175

Applicants must submit their FCC Form 175 applications electronically using the Commission's remote access system. This system will generally be available 24 hours per day beginning January 8, 2000. FCC Form 175 applications must be submitted and confirmed by **5:30 p.m. ET on Thursday, January 20, 2000.** Late applications or unconfirmed submissions of electronic data will not be accepted.

Applicants must press the **175 Submit** button on the *Submit* page to successfully submit their FCC Form 175. The electronic filing process consists of an initial filing period and a resubmission period to make minor corrections. During each filing period, submitted applications may be updated and amended multiple times until the filing deadline.

Applicants will need to meet the following minimum hardware and software requirements:

#### **Minimum Hardware Requirements**

• CPU: Intel Pentium

• RAM: 16 MB (more recommended if you have multiple applications open)

Modem: v.32bis 14.4kbps Hayes compatible modem or faster (recommend 56.6 Kbps)

• Monitor: VGA or above

• Mouse or other pointing device

#### **Minimum Software Requirements**

- Operating System: Microsoft Windows 95 or 98
- PPP (Point-to-Point Protocol) Dialer: Use the Dial-Up Networking feature included with Windows 95/98
- Web Browser: Netscape Communicator 4.7 is recommended. However, you can also use Netscape Communicator 4.5, 4.51, or 4.61 (Internet web browser software).

**Note:** To download Netscape Communicator 4.7 free of charge, access the Netscape download site at *http://home.netscape.com/download/* 

- PDF Viewer: Adobe Acrobat Reader 3.0 or higher (available at *http://www.adobe.com*)
- If you wish to use the download feature in the Form 175 Review, you will need a .tar file extraction utility, e.g., Winzip (available at *http://www.winzip.com*) or Pkzip for Windows (available at *http://www.pkware.com/download.html*).

#### **Submitting FCC Form 175 Applications**

To submit FCC Form 175 applications electronically, you must first connect to the FCC Network via a toll-free 800 phone number, (877-844-2788) using Dial-Up Networking. Dial-Up Networking establishes a point-to-point connection from your PC to the FCC Network. *This point-to-point connection is not routed through the Internet*.

**Note:** For instructions on how to connect to the FCC Network using Dial-Up Networking, see the *Accessing the FCC Network Using Windows 95/98* attachment.

After you have connected to the FCC Network, start your Netscape Web browser. In your browser's *Location* field, enter *http://wtbwww34.fcc.gov* and then click **175 Submit**.

When uploading attachments in FCC Form 175 Submission, applicants may use a variety of file formats -- including Word, WordPerfect, Adobe PDF, Excel, Lotus, and ASCII text -- and should verify that the files contain all exhibit information. Graphics file uploads (e.g., .bmp, .tiff, .jpg) are not supported, and graphics images should not be imported into any word processing files that are uploaded.

After you upload an attachment, check to see if it converted properly by selecting the PDF filename in the rightmost column. The conversion process may take up to thirty minutes. If you are unable to read this file after it has been converted, please do the following:

- 1. Re-upload the attachment.
- 2. If the file still has not converted properly, then simplify the formatting of the file.

For example, if you are using a Table structure in a WordPerfect document, remove the Table structure and leave the contents of the table, then re-upload the attachment.

After you have successfully re-uploaded an attachment, please delete the old, unreadable attachment files.

Applicants must press the **Submit Form 175** button on the *Submit* page to successfully submit their FCC Form 175. During each filing period, submitted applications may be updated and amended multiple times until the filing deadline.

When you have finished, exit your Web browser; then disconnect from the FCC Network.

#### **Reviewing FCC Form 175 Applications**

Once the FCC has completed the 175 Review process, you can review FCC Form 175 applications electronically via the Internet. Start your Netscape Web browser. In your browsers *Location* field, enter *http://wtbwww15.fcc.gov* and then click **175 Review**.

#### Help

For technical assistance with installing or using FCC software, contact the FCC Technical Support Hotline at (202) 414-1250 (V) or (202) 414-1255 (TTY). The FCC Technical Support Hotline is generally available Monday through Friday, from 8 a.m. to 6 p.m. ET. *All calls to the FCC Technical Support Hotline are recorded.* 

# 4. GUIDELINES FOR COMPLETION OF FCC FORM 175, EXHIBITS AND EXAMPLE

#### A. FCC Form 175

Because of the significance of the FCC Form 175 application to the auction, bidders should especially note the following:

**Applicant Name:** Name given is used as your bidder name in the auction.

**Address:** Give a street address (not a Post Office box number) for the applicant, suitable for mail or private parcel delivery. The FCC will send all registration materials and other written communications to the applicant at this address. Please ensure that the contact person listed at the bottom of the form will be able to receive materials at this address.

**Applicant Classification:** Applicants must indicate their legal classification. The FCC Form 175 requires the applicant to classify itself as an individual, joint venture, partnership, trust, corporation, consortium, association, limited liability company (LLC) or government entity.

**Applicant Status:** Applicants are also requested to indicate their status as a rural telephone company, minority-owned business and/or women-owned business, so that the FCC can monitor its performance in promoting economic opportunities for these designated entities.

**Bidding Credit Eligibility:** Be advised that this is the sole opportunity applicants have to elect small business or very small business status and bidding credit level (if applicable), and there is no opportunity to change the election once the short-form filing deadline passes.

Small business or very small business applicants should enter the
applicable bidding credit from the drop down menu. Applicants
should be aware that this is the sole opportunity that they will have to
elect the appropriate bidding credit.

**License Selection:** Applicants should identify all licenses on which they want to be eligible to bid in the auction. Be advised that there is no opportunity to change this list once the short-form filing deadline passes. The FCC auction system will not accept bids on licenses for which an applicant has not applied on its FCC Form 175.

**Authorized Bidders:** Applicants must list the name(s) of the person(s) (no more than three) authorized to represent them at the auction. Only those individuals listed on the FCC Form 175 will be authorized to place or withdraw bids for the applicant during the auction. **Note:** Applicants may only share a common authorized bidder(s) if each applicant has selected separate markets. See 47 CFR § 1.2105(c).

Certifications: Applicants should carefully read the list of certifications on the FCC Form 175. These certifications help to ensure a fair and competitive auction and require, among other things, disclosure to the Commission of certain information on applicant ownership and agreements or arrangements concerning the auction. Submission of an FCC Form 175 application constitutes a representation by the certifying official that he or she is an authorized representative of the applicant, has read the form's instructions and certifications, and that the contents of the application and its attachments are true and correct. Submission of a false certification to the Commission may result in penalties, including monetary forfeitures, license forfeitures, ineligibility to participate in future auctions, and/or criminal prosecution.

**Contact person:** If the Commission wishes to communicate with the applicant by telephone or fax, those communications will be directed to the contact person identified on the FCC Form 175. Space is provided for a telephone number, fax number, and email address. All written communication and registration information will be directed to the applicant's contact person at the address specified on the FCC Form 175. Applicants must provide a street address; no P.O. Box addresses may be used.

**Completeness:** Applicants must submit all information required by the FCC Form 175 and by applicable rules. **Failure to submit required information by the resubmission date will result in dismissal of the application and inability to participate in the auction.** *See* **47 C.F.R. § 1.2105(b).** 

NOTE: Applicants must press the "Submit Form 175" button on the "Submit" page to successfully submit their FCC Form 175.

**Continuing Accuracy:** Each applicant is responsible for the continuing accuracy and completeness of information furnished in the FCC Form 175 and its exhibits. *See* 47 C.F.R. § 1.65. It is the FCC's position that during the conduct of an auction, thirty business days from a reportable change is a reasonable period of time. Applicants are reminded that Certification 6 on the FCC Form 175 includes consent to be audited.

#### **B.** Exhibits and Attachments

In addition to the FCC Form 175 itself, applicants must submit additional information required by the FCC's rules. Although the FCC does not require a particular format for this information, it has developed the following guidelines that will facilitate the processing of short-form applications. The FCC encourages applicants to submit this information using the following format.

If you find that an attachment has not converted properly to Adobe PDF format, take the following steps:

1) Delete the failed attachment.

- 2) Simplify the formatting of the file. For example, if using a Table structure in a WordPerfect document, remove the Table structure leaving the contents of the table, re-save the document.
- *3) Re-upload the attachment.*

NOTE: Applicants should not list their TIN numbers on any Exhibits to their FCC Form 175s.

**Exhibit A -- Applicant Identity and Ownership Information**: 47 C.F.R. § 1.2105(a)(2)(ii) requires each applicant to fully disclose the real party or parties-in-interest in an exhibit to its FCC Form 175 application. Each member of an applicant applying to bid as a small or very small business consortium must provide this information. The following information is required:

#### 1. General Information

Applicant Status	Required Information
General Partnership	Name, citizenship, and address of all partners, and the share or interest participation of each partner.
Limited Partnership	Name, citizenship, and address of each limited partner whose interest in the applicant is equal to or greater than 10 percent (as calculated according to the percentage of equity paid in and the percentage of distribution of profits and losses).
Corporation	Corporate name and address; and name, title, and citizenship of a responsible officer or director.
Limited Liability Corporation	Corporate name and address; and name, address, and citizenship of all members.
Trust	Name, citizenship, and address of trustee.
None of the above	Name, citizenship, title or other relation to the applicant, and address of a principal or other responsible person.

#### 2. Ownership Information

Applicant Status	Required Information
All applicants	Name, citizenship, and address of all controlling interests
	of the applicant as defined in Tab A.

#### **Applicant Status**

#### Required Information

All applicants

Name, citizenship, and address of all parties holding 10 percent or more of each class of stock, warrants, options or debt securities and the amount and percentage held.

All applicants

Name of all parties holding a 10 percent or greater interest in the applicant and the specific amount held.

All applicants

List of any FCC-licensed entity or applicant for an FCC license, in which

- a. the applicant;
- b. any party with a 10 percent or greater interest in the applicant; or
- c. a controlling interest (as defined in Tab A) of the applicant owns a 10 percent or greater interest or 10 percent or more of any class of stock, warrants, options or debt securities. (See also 47 C.F.R. § 22.223 and § 1.2110) This list must include a description of each such entities' principal business and a description of each such entities' relationship to the applicant.

Example of a. The applicant owns 10 percent of Company A (an FCC-licensed entity or an applicant for an FCC license). The applicant must list Company A on its Form 175 Exhibit A and provide the required information.

Example of b. Company A owns 10 percent of the applicant and 10 percent of Company B (an FCC-licensed entity or an applicant for an FCC license). The applicant must list both Company A and Company B on its Form 175 Exhibit A and provide the required information.

Example of c. A owns 55% of the applicant and owns 10 percent of Company B (an FCC-licensed entity or an applicant for an FCC license). The applicant must list both A and Company B on its Form 175 Exhibit A and provide the required information.

All applicants

List of all parties holding indirect ownership interests in the applicant as determined by successive multiplication of the ownership percentages in each link of the vertical ownership chain, that equals 10 percent or more of the applicant, except that if the ownership percentage for any link in the chain

#### **Applicant Status**

#### Required Information

exceeds 50 percent or represents actual control, it shall be reported as if it were a 100 percent interest.

Example. A owns 10% of Company B, which owns 60% of Company C, which owns 25% of the applicant. Company B's interest in the applicant would be 25% (the same as Company C's interest since Company B's interest in Company C exceeds 50%), and A's interest in the applicant would be 2.5% (0.1 \* 0.25). Under the 10% attribution benchmark, Company B's interest in the applicant must be reported on the applicant's FCC Form 175 Exhibit A, while A's interest in the applicant need not be reported. However, if A owned 40% of Company B in the above example, then A's interest in the applicant would be 10% (0.4 \* 0.25), and the applicant would need to report it on the applicant's FCC Form 175 Exhibit A.

**Exhibit B -- Agreements with Other Parties/Joint Bidding Arrangements:** Applicants must attach an exhibit identifying all parties with which they have entered into any agreements, arrangements or understandings which relate in any way to the licenses being auctioned, including any relating to the post-auction market structure. *See* 47 C.F.R. §1.2105(a)(2)(viii).

Be aware that pursuant to Certification (4) on the FCC Form 175, the applicant certifies that it will not enter into any explicit or implicit agreements or understandings of any kind with parties not identified in the application regarding bid amounts, bidding strategies, or the particular licenses the applicant will or will not bid. See 47 C.F.R..§ 1.2105 (a)(2)(ix). To prevent collusion, the Commission's Rules generally prohibit communication among applicants for the same license areas between the initial short-form applications filing deadline and the down payment on licenses won, when such communications concern bids, bidding strategies, or settlements. 47 C.F.R. § 1.2105(c).

**Exhibit C -- Status as a Small Business or Very Small Business**: Applicants claiming status as a very small business or small business must attach an exhibit providing the following information regarding this status.

#### **Entity**

#### **Required Information**

Applicant

Average gross revenues for the preceding three years set forth *both separately* (*e.g.*, for each of the three preceding three years individually) *and in the aggregate* (for all of the

#### **Entity**

#### Required Information

average gross revenues for the preceding three years do not exceed the required limit, or providing average gross revenues for the 3-year period without providing the gross revenues for each of the preceding three years, is insufficient.

Applicant's Affiliates see 47 CFR § 22.223

same information required as discussed above

Applicant's
Controlling Interests
See Tab A.
(See also Paging
Reconsideration
Order at ¶¶ 98-107)

same information required as discussed above

Example. The applicant had gross revenues of \$500,000 in 1997, \$1,000,000 in 1998, and \$3,000,000 in 1999, with average gross revenues for that time period of \$1,500,000. The applicant owns 60% of Company A, making Company A an affiliate of the applicant under Section 1.2110(b)(4)(i)(B), and Company B owns 52% of the applicant (making Company B a controlling interest of the applicant, as defined in Tab A. The applicant's Exhibit C would look like this:

#### Applicant Name

1997 gross revenues	\$ 500,000
1998 gross revenues	\$ 1,000,000
1999 gross revenues	\$ 3,000,000

Average gross revenues

for the preceding 3 years \$1,500,000

#### Company A (an affiliate of the applicant)

1997 gross revenues	\$ enter amount
1998 gross revenues	\$ enter amount
1999 gross revenues	\$ enter amount

Average gross revenues

for the preceding 3 years \$ enter amount

#### Required Information

Company B (a controlling interest in the applicant)

1997 gross revenues \$ enter amount 1998 gross revenues \$ enter amount 1999 gross revenues \$ enter amount

Average gross revenues

for the preceding 3 years \$ enter amount

**TOTAL:** combined average gross revenues for the

preceding three years of the applicant, the applicant's affiliates and their controlling

interests

NOTE: Each member of an applicant that is applying to bid as a consortium of

small or very small businesses must provide this information and

qualify for the claimed status.

**Exhibit D -- Information Requested of Designated Entities:** Applicants owned by minorities or women, as defined in 47 C.F.R. § 1.2110(b), or that are rural telephone companies, may attach an exhibit regarding this status. This information, in conjunction with the information in Item 10, will assist the Commission in monitoring the participation of these "designated entities" in its auctions.

**Exhibit E -- Miscellaneous Information**: Applicants wishing to submit additional information should include it in Exhibit E.

Applicants are reminded that all information required in connection with applications to participate in spectrum auctions is necessary to determine the applicants' qualifications, and as such will be available for public inspection. Required proprietary information may be redacted, or confidentiality may be requested, following the procedures set forth in 47 C.F.R. § 0.459. Such requests must be submitted in writing to Amy Zoslov, Chief, Auctions and Industry Analysis Division, Wireless Telecommunications Bureau, Federal Communications Commission, 445 12<sup>th</sup> Street, S.W., Room 4-A760, Washington, D.C. 20554 (with a separate copy mailed to Rosemary Cabral, Legal Branch, Auctions and Industry Analysis Division), in which case the applicant must indicate in Exhibit E that it has filed a confidentiality request. Because the required information bears on applicants' qualifications, the FCC envisions that confidentiality requests will not be routinely granted.

**Waivers:** Applicants requesting waiver of any rules must submit a statement of reasons sufficient to justify the waiver sought. *See* 47 C.F.R. § 1.3.

# 5. AUCTION-SPECIFIC INSTRUCTIONS FCC REMITTANCE ADVICE, FCC FORM 159

#### **UPFRONT PAYMENTS**

The following information supplements the standard instructions for FCC Form 159, and is provided to help ensure correct completion of the FCC Form 159 for upfront payments for the 929 and 931 MHz Paging Auction (Auction #26). Applicants need to complete FCC Form 159 carefully, since:

- Mistakes may affect their bidding eligibility; and
- Lack of consistency between information set forth in FCC Form 159, FCC Form 175, long-form application, and correspondence about an application may cause processing delays.

Therefore appropriate cross-references between the FCC Form 159 Remittance Advice and the FCC Form 175 Short Form Application are described below.

#### Block Number Required Information

- 1 LOCKBOX # Enter "358400"
- Payer Name Enter the name of the person or company making the payment. If the applicant itself is the payer, this entry would be the same as FCC Form 175
- Total Amount Paid Enter the amount of the upfront payment associated with the FCC Form 159.
- 4-8 Street Address, City, State, ZIP Code Enter the street mailing address (not Post Office box number) where mail should be sent to the payer. If the applicant is the payer, these entries would be the same as FCC Form 175.
- 9 Daytime Telephone Number Enter the telephone number of a person knowledgeable about this upfront payment.
- 10 Country Code For addresses outside the United States, enter the appropriate postal country code (available from the Mailing Requirements Department of the U.S. Postal Service).
- 20A Payment Type Code Enter "A26U"
- 21A Quantity Enter the number "1"

- 22A Amount Due Enter the total upfront payment due.
- 23A FCC Code 1 Enter the number"26" (indicating Auction #26).
- 26 Applicant Taxpayer Identification Number (TIN).

#### NOTES:

- Do not use Remittance Advice (Continuation Sheet), FCC Form 159-C, for upfront payments.
- If applicant is different from the payer, complete blocks 11 through 18 for the applicant, using the same information shown on FCC Form 175. Otherwise leave them blank.
- Since credit card payments will not be accepted for this auction, leave this area blank.

Help

### **PROFILE**

Applicant		
Applicant Address (No P.O. Boxes)		
City	State 🔻	ZIP Code
Auction No. 26	FCC Account No	) <b>.</b>
Applicant Classification		Bidding Credit Eligibilty
	Partnership	Small Business
	Consortium	>
O Association O LLC	Govt. Entity	☐ Very Small Business
Applicant Status		>
	wned business ercial	☐ New Entrant
Person(s) authorized to make or withdraw a	bid	
(a)(First Name, Middle Initial, Last Name)		
(b)(First Name, Middle Initial, Last Name)		
(c)(First Name, Middle Initial, Last Name)		
Contact Person		
Contact Person Address (No P.O. Boxes)	Contact Pers	on E-Mail Address
City	State	ZIP Code
Contact Person Telephone Number	Contact Pers	on Fax Number  -
Initial Submission Date	Resubmission I	Date
	Save	

1 of 1 11/16/99 4:59 PM

### REQUIRED CERTIFICATIONS

#### I certify the following:

- (1) that the applicant is legally, technically, financially and otherwise qualified pursuant to 308(b) of the Communications Act and the Commission's Rules and is in compliance with the foreign ownership provisions contained in Section 310 of the Communications Act.
- (2) that the applicant is the real party in interest in this application and that there are no agreements or understandings other than those specified in this application (see Instructions for certification), which provide that someone other than the applicant shall have an interest in the license.
- (3) that the applicant is aware that, if upon Commission inspection, this application is shown to be defective, the application may be dismissed without further consideration, and certain fees forfeited. Other penalties may also apply.
- (4) except as explicitly provided in the Commission's Rules, that the applicant has not entered into and will not enter into any explicit or implicit agreements or understandings of any kind with parties not identified in this application regarding the amount to be bid, bidding strategies or the particular license on which the applicant or other parties will or will not bid.
- (5) that the applicant, or any party to this application, is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988.
- (6) that, if a bidding credit eligibility is claimed in block 10, the applicant is eligible for any special provisions set forth in the Commission's Rules applicable to this auction and consents to audits, as set forth in the Commission's Rules, to verify such status.
- (7) that the applicant is and will, during the pendency of its application(s), remain in compliance with any service specific qualifications applicable to the licenses on which the applicant intends to bid including, but not limited to, financial qualifications.
- (8) that the applicant is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.

I declare, under penalties of perjury, that I am an authorized representative of the above-named applicant for the license(s) and/or construction premit(s) specified above, that I have read the instructions and the foregoing certification and all matters and things stated in this application, its schedules and attachments, including exhibits, are true and correct.

Name of Person Certifyin	g		
Title of Person Certifying			
	Previous Page	Next Page	
			Help

1 of 1 11/16/99 5:01 PM

#### 175 Supplemental Screen Prints

Samples of the 175 supplemental screens are not included in this bidder information package. The following screens will be accessible when filing your short form application on-line beginning on January 8, 2000.

- Profile Screen (included)
- Required Certification (included)
- Licenses
- Attachments (Including Exhibits)
- Upload New Attachment or Exhibit
- 175 Submit

January 19, 2000

#### **Exhibit A: Applicant Identity and Ownership Information**

John Buck (50%) and Jane Doe (50%) U.S. Citizen U.S. Citizen 123 Any Street 456 Some Road

Anytown, USA 99999 Anytown, USA 99999

We hereby certify that we are a 50/50 partnership. There are no other partners.

#### **Exhibit B: Agreements with Other Parties/Joint Bidding Arrangements**

We wish to disclose that we have discussed the upcoming auction with another bidder, XYZ, Inc of Anytown, USA, who will be bidding on a license in the same EA that we intend to bid in.

#### **Exhibit C: Status as a Very Small Business**

The partnership of John Buck and Jane Doe certifies that it qualifies as a very small business. The applicant is a new entity and there have been no gross revenues to date. The aggregated gross revenues for the partners from other business interests for the past three years totals \$535,000.00. A breakdown of the aggregated gross revenue is as follows:

John Buck Jane Doe

Gross Revenues for John Buck Gross Revenues for Jane Doe

 1999: \$200,000
 1999: \$120,000

 1998: \$ 30,000
 1998: \$ 40,000

 1997: \$ 50,000
 1997: \$ 20,000

The Following Corporation is an S Corporation, 100% owned and controlled by John Buck. Address same as Exhibit A above:

ABC Enterprises, Inc.

1999: \$60,000 1998: \$ 7,000 1997: \$ 8,000

#### **Exhibit D: Information Requested of Designated Entities**

The applicant is a minority-owned Designated Entity.

READ INSTRUCTIONS CAREFULLY			APPROV	ED BY OMB	3060-0589	
BEFORE PROCEEDING		FEDERAL COMMUNICATIONS COMMISSION		CDECIAL LICE		
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5) STREET ADDRESS LINE NO. 2						
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27) CERTIFICATION STATEMENT	SECTION	NE - CERTIFICATION				
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are true and correct to the best of	mv knowledge, infomation	and belief. SIGNATURE				
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APPROVED BY OMB 3060-0589											
<b>REMITTANCE ADVICE (Continuation Sheet)</b>											
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### ADVICE REFERENCE GUIDE HOW TO USE FCC FORM 159-REMITTANCE ADVICE

The FCC Form 159, "Remittance Advice", and FCC Form 159-C, (Continuation Sheet) is a multi-purpose form that generally accompanies (see chart below for specific instructions) any payment to the Federal Communications Commission (e.g., Regulatory Fees, Processing Fees, Auctions, Fines, Forfeitures, Freedom of Information Act (FOIA) Billings, or any other debt due to the FCC). The information on this form is collected to ensure credit for full payment, to ensure you receive any refunds due, to service public inquiries, and to comply with the Debt Collection Improvement Act of 1996.

If you are using this form to:	Then:
Pay a Regulatory Fee for Private Wireless Services	You must pay your regulatory fee, in addition to your application fee at the time of renewal or at the time the original license application is requested. Consult the appropriate FCC Fee Filing Guide on where to file for this service.
Pay a Regulatory Fee for any of the Mass Media, Common Carrier, Cable, International Services, or Commercial Wireless Services	You must submit FCC Form 159 - FCC Remittance Advice. Consult the FCC's Public Notice for specific instructions, and where to file for this service.
Pay a Processing Fee for multiple applications filed within the same lockbox with a single remittance	You must submit FCC Form 159, FCC Remittance Advice. Consult the appropriate FCC Fee Filing Guide for where to file for this service.
Pay a Processing Fee for a service that does not require a specific FCC Form, (e.g. request for Special Temporary Authority)	You must submit FCC Form 159, FCC Remittance Advice. Consult the appropriate FCC Fee Filing Guide for where to file for this service.
Pay for an Auction	You must submit FCC Form 159, FCC Remittance Advice. Consult the FCC Public Notice or Bidder's Package for specific instructions, and where to file for this service.
Pay for Fines/Forfeitures, Freedom of Information Act Fees Billings or any other debts	All customers paying for any of these categories must submit a FCC Form 159, FCC Remittance Advice, and a copy of their notice or invoice to the appropriate lockbox. Please refer to the specific instructions accompanying your billing document. Pay to the address designated on the notice or invoice you received.
Pay by credit card, money order, or wire transfer	You must submit FCC Form 159, FCC Remittance Advice.
Pay by Western Union Quick Collect	You must submit FCC Form 159, FCC Remittance Advice. Consult the appropriate FCC Fee Filing Guide for where to file for this service.

Note: Fee Filing Guides can be obtained by calling Forms Distribution -- (202) 418-3676 or 1-800-418-3676, or by calling FCC's fax-on-demand -- (202) 418-0177 from the handset of a fax machine.

### Instructions For Completing FCC Form 159 & 159-C (Remittance Advice & Continuation Sheet)

NOTE: All required blocks must be completed or it may result in a delay in processing or the return of your application.

(1) **Lockbox No.** - Enter the appropriate six-digit P.O. Box Number as found in either the FCC Fee Filing Guide for the service requested, or as specified in the Public Notice.

#### SECTION A

- (2) Payer Name Enter the name of the person or company (i.e., maker of the check) making the payment. If using an individual name, enter the last name, first name, and middle initial). If a company, enter the name used commercially. If paying by credit card, enter the name exactly as it appears on your card. (You must also complete Section D- block 25 of the taxpayer information at the bottom of the Form 159.)
- (3) Total Amount Paid Enter the total amount of your remittance.
- (4) **Street Address** (Line 1) The street address or post office box number to which correspondence should be sent.
- (5) **Street Address** (Line 2) This line may be used if further identification of the address is required.
- (6)  ${f City}$  The name of the city associated with the street address given in (4).
- (7) **State** If the payer has a United States mailing address enter the appropriate two-digit state abbreviation as prescribed by the U.S. Post Office. If the payer has a mailing address outside the United States, leave this section blank.
- (8) **ZIP Code** Enter the appropriate five or nine-digit ZIP code prescribed by the U.S. Post Office. If address is foreign, enter the appropriate ZIP (postal) code.
- (9) Daytime Telephone Number Enter the payer's ten-digit daytime telephone number, including area code.

For foreign telephone numbers include the appropriate country dialing access code, as if you were calling from the United States. This daytime number should be the number

where you can be reached during normal business hours.

(10) **Country Code** - This section is for payers who have an address outside the United States of America. Enter the appropriate code here. To obtain country code information, contact the Mailing Requirements Dept. of the U.S. Postal Service.

#### SECTION B

COMPLETE THIS SECTION IF THE PAYER AND APPLICANT NAMES ARE DIFFERENT.

(11) Applicant Name, which includes Licensees, Regulatees or Debtors - Enter the name (last, first, middle initial) as it appears on the original application or filing being submitted. If this is a company, enter name used commercially. If you are using this form to pay for multiple applicants with a single remittance, each applicant must be listed separately using the continuation sheet - Form 159-C. (If the name is the same as the payer, (block 2), it is not necessary to fill out this section, MOVE TO SECTION C.)

(You must complete Section D - block 26 of the taxpayer information at the bottom of the Form 159.)

- (12) **Street Address** (Line 1) (Same instructions as block 4 above.
- (13) **Street Address** (Line 2) (Same instructions as block 5 above
- (14) **City** (Same instructions as block 6 above.
- (15) **State** (Same instructions as block 7 above.)
- (16) **ZIP Code** (Same instructions as block 8 above.)

- (17) **Daytime Telephone Number** (Same instructions as block 9 above.)
- (18) **Country Code** (Same instructions as block 10 above.)

#### SECTION C

- (19) FCC Call Sign/Other Identifier Enter an applicable call sign or unique FCC identifier, if any, as prescribed by the appropriate FCC Fee Filing Guide or Public Notice.
- (20) Payment Type Code (PTC) Enter the appropriate payment type code for the service you are requesting as found in the appropriate FCC Fee Filing Guide or Public Notice. (Incorrect or omitted payment type codes may result in your application or filing being returned to you without further processing.) You are allowed to file multiple actions. There are three ways "multiple actions" are defined. The following examples provide instructions on how multiple actions should be filed when using FCC Forms 159 & 159-C:
- (i) If a single service allows for a quantity of more than one of the same action, as defined in the appropriate Fee Filing Guide or Public Notice, complete Section C. (e.g., if you are filing an ownership report in the mass media services you may pay for both your AM & FM stations using the same payment type code and a quantity of two as long as it can be filed in the same lockbox.) Blocks 23 & 24 are only to be completed when required by Public Notice.
- (ii) If you are filing concurrent actions (not the same actions) in the same lockbox, on the same application, refer to the appropriate Fee Filing Guide or Public Notice for specific instructions as to the number of quantities allowed. Complete Section C. (e.g., you may file a regulatory fee for a CARS license and Broadcast Auxiliary license or you may file a regulatory fee for a mass media service and a common carrier service on the same FCC Form 159 by using the designated payment type codes, and quantities as defined by the Public Notices.) Complete a separate item for each action required. Blocks 23 & 24 are only to be completed when required

by Public Notice.

(iii) If a single Remittance Advice is used to pay for more than one applicant, licensee, regulatee or debtor, for permitted action(s) in the same lockbox, then a Continuation Sheet (159-C) must be completed for each applicant, licensee, regulatee or debtor. (e.g., if you are paying for different applicants submitting separate Domestic 214 Applications in the common carrier services, they can all be filed on one FCC Form 159 as long as they are filed in the same lockbox. Each additional applicant must submit a separate FCC Form 159-C and all required blocks must be completed.

Remember, if any of these applications fall into category (i) or (ii) above, you can follow those instructions as well. Make sure to check the appropriate FCC Fee Filing Guide or Public Notice for any special filing stipulations that may apply.

- (21) **Quantity** Enter the total number of actions required with this submission. Refer to the FCC Fee Filing Guide or Public Notice for information concerning multiple requests.
- (22) **FEE Due for (PTC) in Block 20** Multiply the total quantity by the fee for this payment type code and enter here.
- (23) FCC Code 1 This section is used for special filing codes as required by the Bureau/Office or Public Notice. Do not complete this block unless instructed to do so.
- (24) FCC Code 2 This section is used for special filing codes as required by the Bureau/Office or Public Notice. Do not complete this block unless instructed to do so.

#### SECTION D

(25) Payer TIN - Enter your Taxpayer Identification Number (TIN) following the pre-printed "0". The taxpayer identification number will either be your Employer Identification Number (EIN) or Social Security Number (SSN) as reported to the Internal Revenue Service.

(26) Applicant TIN - Complete this section only if applicant name in Section B - block 11 is different from payer name in Section A,

block 2. In accordance with the Debt Collection Improvement Act of 1996, you must provide your Taxpayer Identification Number (TIN). This is either your EIN or SSN as defined in item 25. You must provide a TIN for each applicant covered by this filing.

#### SECTION E

(27) **Certification Statement** - This section must be completed and signed. Failure to do so may delay the processing of your application/filing.

#### SECTION F

(28) Credit Card Data - If remitting payment by credit card, place an "x" in the appropriate block for the credit card being used - MasterCard or Visa only. Enter your credit card number and expiration date. Sign and date the FCC Form 159 to authorize your credit card payment. (If any area required for credit card approval is incomplete, the application will be returned unprocessed.)

#### Continuation Sheet Form 159-C

FCC Remittance Advice Continuation Sheet (FCC Form 159-C) - Use this form for any additional services pertaining to this filing, or if you are paying for multiple applicants with a single payment. (See Sections B,C and D of the instructions to assist you in completing this form. For each additional applicant listed in Section BB of the FCC Form 159-C, you must complete Section DD - taxpayer information at the bottom of the continuation sheet. Each additional applicant must use a separate Form 159-C.

Note: Checks must be denominated in  $\overline{\text{U.S.}}$  Currency and deposited in a U.S. financial institution. No checks drawn on a foreign bank will be accepted.

## NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT

The solicitation of the personal information requested in this form is authorized by the Communications Act, Sections 8 & 9, and other debts under the Debt Collection Improvement Act of 1996. P.L. 104-134. The form will be used primarily to capture information to maintain required accounts receivable, and collect fines and debts due the Commission. As part of the Debt Collection Improvement Act, agencies are authorized to refer Taxpayers Identification information which includes Employer Identification Numbers and Social Security Numbers to the Department of Treasury for further investigation and possible enforcement of a statute, rule, regulation or order. If we believe there may be a violation or potential violation of a FCC statute, regulation, rule or order, your application may be referred to the Federal, state, or local agency responsible for investigating, prosecuting, enforcing or implementing the statute, rule, regulation or order. In certain cases, the information in your application may be disclosed to the Department of Justice or a court or adjudicative body when (a) the FCC; or (b) any employee of the FCC; or (c) the United States Government, is a party to a proceeding before the body or has an interest in the proceeding. If information requested on the form is not provided, processing of the application/filing may be delayed or returned without action pursuant to Commission rules.

If you owe a past due debt to the Federal Government, the taxpayer identification number (such as your social security number) and other information you provide may also be disclosed to the Department of the Treasury, Financial Management Service, other federal agencies and/or your employer to offset your salary, IRS tax refund or other payments to collect that debt. The FCC may also provide this information to these agencies through the matching of computer records when authorized

We have estimated that each response to this collection of information will

take, on average, 30 minutes. estimate includes the time to read the instructions, look through existing records, gather and maintain required data, and actually review and complete the form. If you have any comments on this estimate, or on how we can improve the collection of this data to reduce the burden it causes you, please write the Federal Communications Commission, AMD-PERM, Washington, DC 20554, Paperwork Reduction Project (3060-0589). We will also accept your comments via the Internet if you send them to jboley@fcc.gov. Please DO NOT SEND COMPLETED APPLICATION FORMS TO THIS ADDRESS.

Remember -- You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0589.

This notice is required by the Privacy Act of 1974, Public Law 93-579, December 31, 1974, 5 U.S.C. Section 552a(e) (3) and the Paperwork Reduction Act of 1995, Public Law 104-13, October 1, 1995, 44 U.S.C. 3507.

**Relevant Authority:** Prospective bidders must familiarize themselves thoroughly with the Commission's Rules relating to the 929 and 931 MHz Paging Bands, contained in Title 47, Part 22 and Part 90 of the Code of Federal Regulations, and those relating to application and auction procedures, contained in Title 47, Part 1 of the Code of Federal Regulations.

Prospective bidders must also be thoroughly familiar with the procedures, terms and conditions (collectively, "Terms") contained in the Second Report and Order in PP Docket No. 93-253, 9 FCC Rcd 2348 (1994); the Second Memorandum Opinion and Order in PP Docket No. 93-253, 9 FCC Rcd 7245 (1994); the Erratum to the Second Memorandum Opinion and Order in PP Docket No. 93-253 (released Oct. 19, 1994); Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, WT Docket No. 96-18, Notice of Proposed Rulemaking, 11 FCC Rcd 3108 (1996) ("Paging Notice"); Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, WT Docket No. 96-18, First Report and Order, 11 FCC Rcd 16570 (1996) ("Paging First Report and Order"); Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, WT Docket No. 96-18, Order on Reconsideration of First Report and Order, 11 FCC Rcd 7409 (1996) ("First Paging" Reconsideration"); Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, Second Report and Order and Further Notice of Proposed Rulemaking, 12 FCC Rcd 2731 (1997) ("Paging Second Report and Order"); Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, Memorandum Opinion and Order on Reconsideration and Third Report and Order, FCC 99-98 (rel. May 24, 1999) ("Paging Reconsideration Order" and "Paging Third Report and Order"); Auction of 929 and 931 MHz Paging Service Spectrum, Public Notice, DA 99-1591 (rel. August 12, 1999).

The terms contained in the Commission's Rules, relevant orders, public notices and bidder information package are not negotiable. The Commission may amend or supplement the information contained in our public notices or the bidder information package at any time, and will issue public notices to convey any new or supplemental information to bidders. It is the responsibility of all prospective bidders to remain current with all Commission Rules and with all public notices pertaining to this auction. Copies of most Commission documents, including public notices, can be retrieved from the FCC Internet node via anonymous ftp @ftp.fcc.gov or the FCC World Wide Web site at http://www.fcc.gov/wtb/auctions. Additionally, documents may be obtained for a fee by calling the Commission's copy contractor, International Transcription Service, Inc. (ITS), at (202) 314-3070. When ordering documents from ITS, please provide the appropriate FCC number (e.g., FCC 99-98 for the Paging Third Report and Order).

INSERT NEWS RELEASE, 2<sup>ND</sup> R&O AND FURTHER NPRM; RECON and 3rd R&O; PART 22; PART 90; PART 1 SUBPART Q; AND PARTIAL BIBLIOGRAPHY

# SELECTED FCC RULES

Following is an unofficial staff compilation of selected rules applicable to the 929 and 931 MHz Paging Auction, drawn from Parts 1, 22, and 90 of the FCC's rules, which applicants may use until such time as the Government Printing Office publishes a current version in the Code of Federal Regulations (CFR). The rules compiled in this Bidder Information Package reflect rule changes effective August 23, 1999. Applicants should also refer to the official version of the rules contained in FCC orders and in the Federal Register. The official rules govern in the event of conflicts. Relevant orders adopted to date by the FCC are also provided in this Tab. Applicants need to stay apprised of any rule changes that occur after release of this Bidder Information Package by checking the FCC website and the Federal Register. Applicants should also be familiar with international coordination agreements with Canada and Mexico. The Canada agreement is in Part 22. The Mexican coordination agreement is available on the FCC website at http://www.fcc.gov/wtb/auctions. Click on the 929 and 931 MHz Paging Auction in right column and click on the last selection, "Link to Paging Web Page and additional information".

# PART 90--PRIVATE LAND MOBILE RADIO SERVICES SUBPART A--GENERAL INFORMATION

# § 90.1 Basis and purpose.

- (a) Basis. The rules in this part are promulgated under Title II of the Communications Act of 1934, as amended which vests authority in the Federal Communications Commission to regulate radio transmission and to issue licenses for radio stations. All rules in this part are in accordance with applicable treaties and agreements to which the United States is a party.
- (b) Purpose. This part states the conditions under which radio communications systems may be licensed and used in the Public Safety, Special Emergency, Industrial, Land Transportation, and Radiolocation Radio Services. These rules do not govern radio systems employed by agencies of the Federal Government.

# § 90.5 Other applicable rule parts.

Other Commission rule parts of importance that may be referred to with respect to licensing and operations in radio services governed under this part include the following:

- (a) Part 0 of the Commission's Rules describes the Commission's organization and delegations of authority. This part also lists available Commission publications, and standards and procedures for access to Commission records, and location of Commission Field Offices.
- (b) Part 1 of this chapter includes rules of practice and procedure for the filing of applications for stations to operate in the Wireless Telecommunications Services, adjudicatory proceedings including hearing proceedings, and rulemaking proceedings; procedures for reconsideration and review of the Commission's actions; provisions concerning violation notices and forfeiture proceedings; and the environmental processing requirements that, if applicable, must be complied with prior to initiating construction.
- (c) Part 2 contains the table of frequency allocations and special requirements in International regulations, agreements, and treaties. This part also contains standards and procedures concerning marketing of radio frequency devices, and for obtaining equipment certification.
- (d) Part 5 contains standards and procedures for obtaining experimental authorizations.
- (e) Part 15 provides for the operation of incidental and restricted radio frequency devices that do not require an individual license.
- (f) Part 17 contains detailed requirements for construction, marking, and lighting of antenna towers.
- (g) Part 18 deals with the operation of industrial, scientific, and medical (ISM) devices that are not intended for radio communication.
- (h) Part 20 of this chapter contains rules relating to commercial mobile radio services.
- (i) Part 20 of this chapter which governs commercial mobile radio service applicable to certain providers in the following services in this part:
- (1) Industrial/business pool.
- (2) Private paging;
- (3) Land mobile service on 220-222 MHz;

- (4) Specialized Mobile Radio Service.
- (j) Part 22 contains regulations for public (common carrier) mobile radio services.
- (k) Part 51 contains rules relating to interconnection.
- (l) Part 68 contains technical standards for connection of private land mobile radio equipment to the public switched telephone network.
- (m) Part 101 governs the operation of fixed microwave services.

§ 90.7 Definitions.

Antenna height above average terrain (AAT). Height of the center of the radiating element of the antenna above the average terrain. (See § 90.309(a)(4) for calculation method.)

Antenna height above sea level. The height of the topmost point of the antenna above mean sea level.

Antenna structure. Structure on which an antenna is mounted.

Assigned frequency. Center of a frequency band assigned to a station.

Assigned frequency band. The frequency band the center of which coincides with the frequency assigned to the station and the width of which equals the necessary bandwidth plus twice the absolute value of the frequency tolerance.

Authorized bandwidth. The frequency band, specified in kilohertz and centered on the carrier frequency containing those frequencies upon which a total of 99 percent of the radiated power appears, extended to include any discrete frequency upon which the power is at least 0.25 percent of the total radiated power.

Automobile emergency licensee. Persons regularly engaged in any of the following activities who operate radio stations for transmission of communications required for dispatching repair trucks, tow trucks, or other road service vehicles to disabled vehicles:

- (1) The operation of a private emergency road service for disabled vehicles by associations of owners of private automobiles; or
- (2) The business of providing to the general public an emergency road service for disabled vehicles.

Average terrain. The average elevation of terrain between 3.2 and 16 km (2 and 10 miles) from the antenna site.

Base station. A station at a specified site authorized to communicate with mobile stations.

Basic trading areas. Service areas that are based on the Rand McNally 1992 Commercial Atlas & Marketing Guide, 123rd Edition, at pages 38-39, with the following additions licensed separately as BTA-like areas: American Samoa; Guam, Northern Mariana Islands; Mayaguez/Aguadilla-Ponce, Puerto Rico; San Juan, Puerto Rico; and the United States Virgin Islands. The Mayaguez/Aguadilla-Ponce BTA-like 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, Rincon, Sabana Grande, Salinas, San German, Santa Isabel, Villalba, and Yauco. The San Juan BTA-like service area consists of all other municipios in Puerto Rico.

Carrier frequency. The frequency of an unmodulated electromagnetic wave.

Channel loading. The number of mobile transmitters authorized to operate on a particular channel within the same service area.

Control point. Any place from which a transmitter's functions may be controlled.

Control station. An Operational Fixed Station, the transmissions of which are used to control automatically the emissions or operation of another radio station at a specified location.

Conventional radio system. A method of operation in which one or more radio frequency channels are assigned to mobile and base stations but are not employed as a trunked group. An "urban-conventional system" is one whose transmitter site is located within 24 km (15 miles) of the geographic center of any of the first 50 urbanized areas (ranked by population) of the United States. A "sub-urban-conventional system" is one whose transmitter site is located more than 24 km (15 miles) from the geographic center of the first 50 urbanized areas. See Table 21, Rank of Urbanized Areas in the United States by Population, page 1-87, U.S. Census (1970); and Table 1 of § 90.635.

Developmental operation. A specially licensed operation for the purpose of testing concepts in the use of radio appropriate to the radio services governed by this part.

Dispatch point. Any place from which radio messages can be originated under the supervision of a control point.

EA-based or EA license. A license authorizing the right to use a specified block of SMR or LMS spectrum within one of the 175 Economic Areas (EAs) as defined by the Department of Commerce Bureau of Economic Analysis. The EA Listings and the EA Map are available for public inspection at the Wireless Telecommunications Bureau public reference room, Room 5608, 2025 M St., NW, Washington, DC 20554.

Economic Areas (EAs). A total of 175 licensing regions based on the United States Department of Commerce Bureau of Economic Analysis Economic Areas defined as of February 1995, with the following exceptions:

- (1) Guam and Northern Mariana Islands are licensed as a single EA-like area (identified as EA 173 in the 220 MHz Service);
- (2) Puerto Rico and the U.S. Virgin Islands are licensed as a single EA-like area (identified as EA 174 in the 220 MHz Service); and
- (3) American Samoa is licensed as a single EA-like area (identified as EA 175 in the 220 MHz Service).

Effective radiated power (ERP). The power supplied to an antenna multiplied by the relative gain of the antenna in a given direction.

Emergency Medical Licensee. Persons or entities engaged in the provision of basic or advanced life support services on an ongoing basis that operate radio stations for transmission of communications essential for the delivery or rendition of emergency medical services for the provision of basic or advanced life support.

Film and video production licensee. Persons primarily engaged in or providing direct technical support to the production, videotaping, or filming of motion pictures or television programs, such as movies, programs, news programs, special events, educational programs, or training films, regardless of whether the productions are prepared primarily for final exhibition at theatrical outlets or on television or for distribution through other mass communications outlets.

Fire licensee. Any territory, possession, state, city, county, town, or similar governmental entity, and persons or organizations charged with specific fire protection activities that operate radio stations for transmission of communications essential to official fire activities.

Fixed relay station. A station at a specified site used to communicate with another station at another specified site.

Forest products licensee. Persons primarily engaged in tree logging, tree farming, or related woods operations, including related hauling activities, if the hauling activities are performed under contract to, and exclusively for, persons engaged in woods operations or engaged in manufacturing lumber, plywood, hardboard, or pulp and paper products from wood fiber.

Forward links. Transmissions in the frequency bands specified in § 90.357(a) and used to control and interrogate the mobile units to be located by multilateration LMS systems.

Frequency coordination. The process of obtaining the recommendation of a frequency coordinator for a frequency(ies) that will most effectively meet the applicant's needs while minimizing interference t licensees already operating within a given frequency band.

Frequency coordinator. An entity or organization that has been certified by the Commission to recommend frequencies for use by licensees in the Private Land Mobile Radio Services.

Geographic center. The geographic center of an urbanized area is defined by the coordinates given at Table 1 of § 90.635.

Geophysical Telemetry. Telemetry involving the simultaneous transmission of seismic data from numerous locations to a central receiver and digital recording unit.

Harmful interference. For the purposes of resolving conflicts between stations operating under this part, any emission, radiation, or induction which specifically degrades, obstructs, or interrupts the service provided by such stations.

Interconnection. Connection through automatic or manual means of private land mobile radio stations with the facilities of the public switched telephone network to permit the transmission of messages or signals between points in the wireline or radio network of a public telephone company and persons served by private land mobile radio stations. Wireline or radio circuits or links furnished by common carriers, which are used by licensees or other authorized persons for transmitter control (including dial-up transmitter control circuits) or as an integral part of an authorized, private, internal system of communication or as an integral part of dispatch point circuits in a private land mobile radio station are not considered to be interconnection for purposes of this rule part.

Internal System. An internal system of communication is one in which all messages are transmitted between the fixed operating positions located on premises controlled by the licensee and the associated mobile stations or paging receivers of the licensee. (See Subpart O).

Itinerant Operation. Operation of a radio station at unspecified locations for varying periods of time.

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

Land Mobile Radio System. A regularly interacting group of base, mobile and associated control and fixed relay stations intended to provide land mobile radio communications service over a single area of operation.

Land Station. A station in the mobile service not intended to be used while in motion. [As used in this Part, the term may be used to describe a base, control, fixed, operational fixed or fixed relay station, or any such station authorized to operate in the "temporary" mode.]

Line A. An imaginary line within the U.S., approximately paralleling the U.S.-Canadian border, north of which Commission coordination with Canadian authorities in the assignment of frequencies is generally required. It begins at Aberdeen, Washington, running by great circle arc to the intersection of 48° N., 120° W., then along parallel 48° N., to the intersection of 95° W., thence by great circle arc through the southern most point of Duluth,

Minn., thence by great circle arc to 45° N., 85° W., thence southward along meridian 85° W., to its intersection with parallel 41° N., thence along parallel 41° N. to its intersection with meridian . . . 82° W., thence by great circle arc through the southernmost point of Bangor, Maine, thence by great circle arc through the southernmost point of Searsport, Maine, at which point it terminates.

Line C. An imaginary line in Alaska approximately paralleling the border with Canada, East of which Commission coordination with Canadian authorities in the assignment of frequencies is generally required. It begins at the intersection of 70° N., 144° W., thence by great circle arc to the intersection of 60° N., 143° W., thence by great circle arc so as to include all the Alaskan Panhandle.

Location and Monitoring Service (LMS). The use of non-voice signaling methods to locate or monitor mobile radio units. LMS systems may transmit and receive voice and nonvoice status and instructional information related to such units.

Major trading areas. Service areas based on the Rand McNally 1992 Commercial Atlas & Marketing Guide, 123rd Edition, at pages 38-39, with the following exceptions and additions:

- (a) Alaska is separated from the Seattle MTA and is licensed separately.
- (b) Guam and the Northern Mariana Islands are licensed as a single MTA-like area.
- (c) Puerto Rico and the United States Virgin Islands are licensed as a single MTA-like area.
- (d) American Samoa is licensed as a single MTA-like area.

Manufacturers licensee. Persons primarily engaged in any of the following manufacturing activities:

- (1) The mechanical or chemical transformation of substances into new products within such establishments as plants, factories, shipyards, or mills which employ, in that process, powerdriven machines and materials-handling equipment;
- (2) The assembly of components of manufactured products within such establishments as plants, factories, shipyards, or mills where the new product is neither a new structure nor other fixed improvement. Establishments primarily engaged in the wholesale or retail trade, or in service activities, even though they fabricate or assemble any or all the products or commodities handled, are not included in this category; or
- (3) The providing of supporting services or materials by a corporation to its parent corporation, to another subsidiary of its parent or to its own subsidiary, where such supporting services or materials are directly related to those regular activities of such parent or subsidiary which are eligible under paragraphs (1) or (2) of this definition.

Meteor burst communications. Communications by the propagation of radio signals reflected off ionized meteor trails.

Mobile relay station. A base station in the mobile service authorized to retransmit automatically on a mobile service frequency communications which originate on the transmitting frequency of the mobile station.

Mobile Repeater Station. A mobile station authorized to retransmit automatically on a mobile service frequency, communications to or from hand- carried transmitters.

Mobile service. A service of radio-communication between mobile and base 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. This includes hand carried transmitters.

MTA-based license or MTA license. A license authorizing the right to use a specified block of SMR spectrum within one of the 51 Major Trading Areas ("MTAs"), as embodied in Rand McNally's Trading Area System MTA Diskette and geographically represented in the map contained in Rand McNally's Commercial Atlas & Marketing Guide (the "MTA Map.") The MTA Listings, the MTA Map and the Rand McNally/AMTA license agreement are available for public inspection at the Wireless Telecommunications Bureau's public reference room, Room 628, 1919 M Street NW., Washington, DC 20554.

Multilateration LMS System. A system that is designed to locate vehicles or other objects by measuring the difference of time of arrival, or difference in phase, of signals transmitted from a unit to a number of fixed points or from a number of fixed points to the unit to be located.

Mutually exclusive application. 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 Commission rules governing the services involved.

Navigable waters. This term, as used in reference to waters of the United States, its territories and possessions, means the waters shoreward of the baseline of its territorial sea and internal waters as contained in 33 CFR 2.05-25.

900 MHz SMR MTA-based license or MTA license. A license authorizing the right to use a specified block of 900 MHz SMR spectrum within one of the 47 Major Trading Areas ("MTAs"), as embodied in Rand McNally's Trading Areas System MTA Diskette and geographically represented in the map contained in Rand McNally's Commercial Atlas & Marketing Guide (the "MTA Map"), with the following exceptions and additions:

- (1) Alaska is separated from the Seattle MTA and is licensed separately.
- (2) Guam and the Northern Mariana Islands are licensed as a single MTA-like area.
- (3) Puerto Rico and the United States Virgin Islands are licensed as a single MTA-like area.
- (4) American Samoa is licensed as a single MTA-like area.

The MTA map is available for public inspection in the Office of Engineering and Technology's Technical Information Center, room 7317, 2025 M Street NW., Washington, DC.

Motor carrier licensee. Persons primarily engaged in providing a common or contract motor carrier transportation service in any of the following activities: Provided, however, that motor vehicles used as taxicabs, livery vehicles, or school buses, and motor vehicles used for sightseeing or special charter purposes, shall not be included within the meaning of this term. For purposes of this definition, an urban area is defined as being one or more contiguous, incorporated or unincorporated cities, boroughs, towns, or villages, having an aggregate population of 2,500 or more persons.

- (1) The transportation of passengers between urban areas;
- (2) The transportation of property between urban areas;
- (3) The transportation of passengers within a single urban area; or
- (4) The transportation, local distribution or collection of property within a single urban area.

Non-multilateration LMS System. A system that employs any of a number of non-multilateration technologies to transmit information to and/or from vehicular units.

Operational Fixed Station. A fixed station, not open to public correspondence, operated by, and for the sole use of

those agencies operating their own radiocommunication facilities in the Public Safety, Industrial, Land Transportation, Marine, or Aviation Radio Services. (This includes all stations in the fixed service under this part.)

Output Power. The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load of the impedance recommended by the manufacturer.

Paging. A one-way communications service from a base station to mobile or fixed receivers that provide signaling or information transfer by such means as tone, tone-voice, tactile, optical readout, etc.

Person. An individual, partnership, association, joint stock company, trust or corporation.

Petroleum licensee. Persons primarily engaged in prospecting for, producing, collecting, refining, or transporting by means of pipeline, petroleum or petroleum products (including natural gas).

Police licensee. Any territory, possession, state, city, county, town, or similar governmental entity including a governmental institution authorized by law to provide its own police protection that operate radio stations for transmission of communications essential to official police activities.

Power licensee. Persons primarily engaged in any of the following activities:

- (1) The generation, transmission, or distribution of electrical energy for use by the general public or by the members of a cooperative organization;
- (2) The distribution of manufactured or natural gas by means of pipe line, for use by the general public or by the members of a cooperative organization, or, in a combination of that activity with the production, transmission or storage of manufactured or natural gas preparatory to such distribution;
- (3) The distribution of steam by means of pipeline or, of water by means of pipeline, canal, or open ditch, for use by the general public or by the members of a cooperative organization, or in a combination of that activity with the collection, transmission, storage, or purification of water or the generation of steam preparatory to such distribution; or
- (4) The providing of a supporting service by a corporation directly related to activities of its parent corporation, of another subsidiary of the same parent, or of its own subsidiary, where the party served is regularly engaged in any of the activities set forth in this definition.

Private carrier. An entity licensed in the private services and authorized to provide communications service to other private services on a commercial basis.

Radio call box. A transmitter used by the public to request fire, police, medical, road service, or other emergency assistance.

Radiodetermination. The determination of position, or the obtaining of information relating to position, by means of the propagation of radio waves.

Radiofacsimile. A system of radiocommunication for the transmission of fixed images, with or without half-tones, with a view to their reproduction in a permanent form.

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

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

Radio teleprinting. Radio transmissions to a printing telegraphic instrument having a signal-actuated mechanism

for automatically printing received messages.

Railroad licensee. Railroad common carriers which are regularly engaged in the transportation of passengers or property when such passengers or property are transported over all or part of their route by railroad.

Regional Economic Area Groupings (REAGs). The six geographic areas for Regional licensing in the 220-222 MHz band, based on the United States Department of Commerce Bureau of Economic Analysis Economic Areas (see 60 FR 13114 (March 10, 1995)) defined as of February 1995, and specified as follows:

REAG 1 (Northeast): REAG 1 consists of the following EAs: EA 001 (Bangor, ME) through EA 011 (Harrisburg-Lebanon-Carlisle, PA); and EA 054 (Erie, PA).

REAG 2 (Mid-Atlantic): REAG 2 consists of the following EAs: EA 012 (Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD) through EA 026 (Charleston-North Charleston, SC); EA 041 (Greenville-Spartanburg-Anderson, SC-NC); EA 042 (Asheville, NC); EA 044 (Knoxville, TN) through EA 053 (Pittsburgh, PA-WV); and EA 070 (Louisville, KY-IN).

REAG 3 (Southeast): REAG 3 consists of the following EAs: EA 027 (Augusta- Aiken, GA-SC) through EA 040 (Atlanta, GA-AL-NC); EA 043 (Chattanooga, TN- GA); EA 069 (Evansville-Henderson, IN-KY-IL); EA 071 (Nashville, TN-KY) through EA 086 (Lake Charles, LA); EA 088 (Shreveport-Bossier City, LA-AR) through EA 090 (Little Rock-North Little Rock, AR); EA 095 (Jonesboro, AR- MO); EA 096 (St. Louis, MO-IL); and EA 174 (Puerto Rico and the U.S. Virgin Islands).

REAG 4 (Great Lakes): REAG 4 consists of the following EAs: EA 055 Cleveland-Akron, OH-PA) through EA 068 (Champaign-Urbana, IL); EA 097 (Springfield, IL-MO); and EA 100 (Des Moines, IA-IL-MO) through EA 109 (Duluth-Superior, MN-WI).

REAG 5 (Central/Mountain): REAG 5 consists of the following EAs: EA 087 (Beaumont-Port Arthur, TX); EA 091 (Forth Smith, AR-OK) through EA 094 (Springfield, MO); EA 098 (Columbia, MO); EA 099 (Kansas City, MO-KS); EA 110 (Grand Forks, ND-MN) through EA 146 (Missoula, MT); EA 148 (Idaho Falls, ID-WY); EA 149 (Twin Falls, ID); EA 152 (Salt Lake City-Ogden, UT-ID); and EA 154 (Flagstaff, AZ-UT) through EA 159 (Tucson, AZ).

REAG 6 (Pacific): REAG 6 consists of the following EAs: EA 147 (Spokane, WA- ID); EA 150 (Boise City, ID-OR); EA 151 (Reno, NV-CA); EA 153 (Las Vegas, NV-AZ-UT); EA 160 (Los Angeles-Riverside-Orange County, CA-AZ) through EA 173 (Guam and the Northern Mariana Islands); and EA 175 (American Samoa).

Regional License. A license authorizing the right to use a specified block of 220-222 MHz spectrum within one of six Regional Economic Area Groupings (REAGs).

Relay press licensee. Persons primarily engaged in the publication of a newspaper or in the operation of an established press association.

Secondary operation. Radio communications which may not cause interference to operations authorized on a primary basis and which are not protected from interference from those primary operations.

Signal booster. A device at a fixed location which automatically receives, amplifies, and retransmits on a one-way or two-way basis, the signals received from base, fixed, mobile, and portable stations, with no change in frequency or authorized bandwidth. A signal booster may be either narrowband (Class A), in which case the booster amplifies only those discrete frequencies intended to be retransmitted, or broadband (Class B), in which case all signals within the passband of the signal booster filter are amplified.

Special industrial licensee. Persons regularly engaged in any of the following activities:

- (1) The operation of farms, ranches, or similar land areas, for the quantity production of crops or plants; vines or trees (excluding forestry operations); or for the keeping, grazing or feeding of livestock for animal products, animal increase, or value enhancement;
- (2) Plowing, soil conditioning, seeding, fertilizing, or harvesting for agricultural activities;
- (3) Spraying or dusting of insecticides, herbicides, or fungicides, in areas other than enclosed structures;
- (4) Livestock breeding service;
- (5) The operation of a commercial business regularly engaged in the construction of roads, bridges, sewer systems, pipelines, airfields, or water, oil, gas, or power production, collection, or distribution systems. The construction of buildings is not included in this category;
- (6) The operation of mines for the recovery of solid fuels, minerals, metal, rock, sand and gravel from the earth or the sea, including the exploration for and development of mining properties;
- (7) Maintaining, patrolling or repairing gas or liquid transmission pipelines, tank cars, water or waste disposal wells, industrial storage tanks, or distribution systems of public utilities;
- (8) Acidizing, cementing, logging, perforating, or shooting activities, and services of a similar nature incident to the drilling of new oil or gas wells, or the maintenance of production from established wells;
- (9) Supplying chemicals, mud, tools, pipe, and other materials or equipment unique to the petroleum and gas production industry, as the primary activity of the applicant if delivery, installation or application of these materials requires the use of specifically fitted conveyances;
- (10) The delivery of ice or fuel to the consumer for heating, lighting, refrigeration or power generation purposes, by means other than pipelines or railroads when such products are not to be resold following their delivery; or
- (11) The delivery and pouring of ready mixed concrete or hot asphalt mix.

Specialized Mobile Radio System. A radio system in which licensees provide land mobile communications services (other than radiolocation services) in the 800 MHz and 900 MHz bands on a commercial basis to entities eligible to be licensed under this Part, Federal Government entities, and individuals.

SMSA (Standard Metropolitan Statistical Area). A city of 50,000 or more population and the surrounding counties.

Station authorization. A license issued by the Commission for the operation of a radio station.

Taxicab licensee. Persons regularly engaged in furnishing to the public for hire a nonscheduled passenger land transportation service (which may also include the occasional transport of small items of property) not operated over a regular route or between established terminals.

Telecommand. The transmission of non voice signals for the purpose of remotely controlling a device.

Telemetering (also telemetry). The transmission of non-voice signals for the purpose of automatically indicating or recording measurements at a distance from the measuring instrument.

Telephone maintenance licensee. Communications common carriers engaged in the provision of landline local exchange telephone service, or interexchange communications service, or who provide wire-telegraph service, and radio communications common carriers authorized in the Point-to-Point Microwave Radio Service under part 21 of this chapter. Resellers that do not own or control transmission facilities is not included in this category.

Travelers' Information Station. A base station in the Local Government Radio Service used to transmit non-commercial, voice information pertaining to traffic and road conditions, traffic hazard and traveler advisories, directions, availability of lodging, rest stops, and service stations, and descriptions of local points of interest.

Trunk (telephony). A one or two-way channel provided as a common traffic artery between switching equipment.

Trunk group. All of the trunks of a given type of characteristic that extend between two switching points.

Trunked radio system. A method of operation in which a number of radio frequency channel pairs are assigned to mobile and base stations in the system for use as a trunk group.

220 MHz Service. The radio service for the licensing of frequencies in the 220-222 MHz band.

Universal Licensing System (ULS). The consolidated database, application filing system and processing system for all Wireless Telecommunications Services. The ULS offers Wireless Telecommunications Bureau (WTB) applicants and the general public electronic filing of all applications requests, and full public access to all WTB licensing data.

Urbanized Area. A city and the surrounding closely settled territories.

# PART 90--PRIVATE LAND MOBILE RADIO SERVICES SUBPART P--PAGING OPERATIONS

§ 90.490 One-way paging operations in the private services.

- (a) Subject to specific prohibition or restriction by rule provisions governing the radio service in which a licensee's radio system is authorized, paging operations are permitted:
- (1) Where the signals and messages are transmitted by a control operator of the licensee stationed at a licensed control point in the licensee's system of communication.
- (2) Where the signals and messages are transmitted from an operating position within an internal system of communication which meets the tests of §§ 90.471 through 90.475.
- (3) Where the signals and messages are transmitted from a dispatch point within the licensee's system of communication, as defined as § 90.7.
- (b) Systems employing dial-up circuits (§ 90.461(c)) may be used in one-way paging operations, but only where the paging signals are transmitted as provided at paragraph (a) (1) of this section.
- (c) Paging may be initiated directly from telephone positions in the public switched telephone network. When land stations are multiple licensed or otherwise shared by authorized users, arrangements for the telephone service must be made with a duly authorized carrier by users, licensees, or their authorized agents on a non-profit, cost-shared basis. When telephone service costs are shared, at least one licensee participating in the cost sharing arrangements must maintain cost sharing records and the costs must be distributed at least once a year. Licensees, users, or their authorized agents may also make joint use arrangements with a duly authorized carrier and arrange that each licensee or user pay the carrier directly for the licensee's or user's share of the joint use of the shared telephone service. A report of the cost distribution must be placed in the licensee's station records and made available to participants in the sharing arrangement and the Commission upon request. In all cases, arrangements with the duly authorized carrier must disclose the number of licensees and users and the nature of the use.

§ 90.492 One way paging operations in the 806-824/851-869 MHz and 896-901/935-940 MHz bands.

Paging operations are permitted in these bands only in accordance with §§ 90.645(e) and (f).

§ 90.493 Paging operations on exclusive channels in the 929-930 MHz band.

Paging operations on the exclusive channels in the 929-930 MHz band are subject to the rules set forth in this section.

- (a) Exclusive channels. The center frequencies of the channels in the 929-930 MHz band that may be assigned on an exclusive basis are as follows: 929.0125, 929.1125, 929.1375, 929.1875, 929.2125, 929.2375, 929.2875, 929.3125, 929.3375, 929.3625, 929.3875, 929.4125, 929.4375, 929.4625, 929.4875, 929.5125, 929.5375, 929.5625, 929.5875, 929.6125, 929.6375, 929.6625, 929.6875, 929.7125, 929.7375, 929.7625, 929.7875, 929.8125, 929.8375, 929.8625, 929.8875, 929.9125, 929.9375, 929.9625, and 929.9875 MHz.
- (b) Part 22 licensing, construction and operation rules apply. Licensing, construction and operation of paging stations on the exclusive channels in the 929-930 MHz band are subject to the application filing, licensing procedure, auction procedure, construction, operation and notification rules and requirements that are set forth in part 22 of this chapter for paging stations operating in the 931-932 MHz band, instead of procedures elsewhere in this part.
- (c) Part 22 power limits apply; type acceptance required. Paging operations on the exclusive channels in the 929-930 MHz band are subject to the transmitting power limits set forth in part 22 of this chapter for paging stations operating in the 931-932 MHz band, instead of power limits elsewhere in this part. Transmitters used on the exclusive channels in the 929-930 MHz band must be of a type accepted under either part 22 of this chapter or this part (or both).
- § 90.494 Paging operations on shared channels in the 929-930 MHz band.
- (a) This section applies to licensing of paging stations on the shared (non- exclusive) channels in the 929-930 MHz band. The center frequencies of these channels are listed in paragraph (b) of this section.
- (b) The following frequencies are available to all eligible part 90 users for one-way paging systems on a shared basis only and will not be assigned for the exclusive use of any licensee.

929.0375, 929.0625, 929.0875, 929.1625, 929.2625

- (c) All frequencies listed in this section may be used to provide one-way paging communications to persons eligible for licensing under subpart B or C of this part, representatives of Federal Government agencies, individuals, and foreign governments and their representatives. The provisions of § 90.173(b) apply to all frequencies listed in this section.
- (d) Licensees on these frequencies may utilize any type of paging operation desired (tone only, tone-voice, digital, tactile, optical readout, etc.).
- (e) There shall be no minimum or maximum loading standards for these frequencies.
- (f) The effective radiated power for base stations providing paging service on the shared channels must not exceed 3500 Watts.
- (g) Licenses may be granted on these shared paging channels only for expansion (addition of new sites or relocation of existing sites) or other modification, assignment or transfer of control of existing, licensed private or commercial paging systems, and for new private, internal-use paging systems. Any application for authority to

operate a new commercial paging system on any of these shared channels is unacceptable for filing.

# PART 22--PUBLIC MOBILE SERVICES SUBPART A—SCOPE AND AUTHORITY

# § 22.1 Basis and purpose.

This section contains a concise general statement of the basis and purpose of the rules in this part, pursuant to 5 U.S.C. 553(c).

- (a) Basis. These rules are issued pursuant to the Communications Act of 1934, as amended, 47 U.S.C. 151 et. seq.
- (b) Purpose. The purpose of these rules is to establish the requirements and conditions under which domestic common carrier radio stations may be licensed and used in the Public Mobile Services.

# § 22.3 Authorization required.

Stations in the Public Mobile Services must be used and operated only in accordance with the rules in this part and with a valid authorization granted by the FCC under the provisions of this part.

- (a) The holding of an authorization does not create any rights beyond the terms, conditions and period specified in the authorization. Authorizations may be granted upon proper application, provided that the FCC finds that the applicant is qualified in regard to citizenship, character, financial, technical and other criteria, and that the public interest, convenience and necessity will be served. See 47 U.S.C. 301, 308, and 309.
- (b) Authority for subscribers to operate mobile or fixed stations in the Public Mobile Services, except for certain stations in the Rural Radiotelephone Service and the Air-Ground Radiotelephone Service, is included in the authorization held by the common carrier providing service to them. Subscribers are not required to apply for, and the FCC does not accept applications from subscribers for, individual mobile or fixed station authorizations in the Public Mobile Services, except as follows:
- (1) Individual authorizations are required to operate general aviation airborne mobile stations in the Air-Ground Radiotelephone Service. See § 22.821.
- (2) Individual authorizations are required to operate rural subscriber stations in the Rural Radiotelephone Service, except as provided in § 22.703.

## § 22.5 Citizenship.

The rules in this section implement section 310 of the Communications Act of 1934, as amended (47 U.S.C. § 310), in regard to the citizenship of licensees in the Public Mobile Services.

- (a) Foreign governments. The FCC will not grant an authorization in the Public Mobile Services to any foreign government or any representative thereof.
- (b) Alien ownership or control. The FCC will not grant an authorization in the Public Mobile Services to:
- (1) Any alien or the representative of any alien;
- (2) Any corporation organized under the laws of any foreign government;
- (3) Any corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country;

(4) Any corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country, if the FCC finds that the public interest will be served by the refusal or revocation of such license.

#### § 22.7 General eligibility.

Except as otherwise provided in this part, existing and proposed common carriers are eligible to hold authorizations in the Public Mobile Services. Applications are granted only if the applicant is legally, financially, technically and otherwise qualified to render the proposed service.

### § 22.99 Definitions.

Terms used in this part have the following meanings:

Air-Ground Radiotelephone Service. A radio service in which common carriers are authorized to offer and provide radio telecommunications service for hire to subscribers in aircraft.

Airborne station. A mobile station in the Air-Ground Radiotelephone Service authorized for use on aircraft while in flight or on the ground.

Antenna structure. A structure comprising an antenna, the tower or other structure that exists solely to support antennas, and any surmounting appurtenances (attachments such as beacons or lightning rods).

Antenna. A device that converts radio frequency electrical energy to radiated electromagnetic energy and vice versa; in a transmitting station, the device from which radio waves are emitted.

Authorized bandwidth. The necessary or occupied bandwidth of an emission, whichever is more.

Authorized spectrum. The spectral width of that portion of the electromagnetic spectrum within which the emission power of the authorized transmitter(s) must be contained, in accordance with the rules in this part. The authorized spectrum comprises one channel bandwidth or the bandwidths of two or more contiguous channels.

Auxiliary test transmitter. A fixed transmitter used to test Public Mobile systems.

Base transmitter. A stationary transmitter that provides radio telecommunications service to mobile and/or fixed receivers, including those associated with mobile stations.

Blanketing interference. Disturbance in consumer receivers located in the immediate vicinity of a transmitter, caused by currents directly induced into the consumer receiver's circuitry by the relatively high field strength of the transmitter.

Build-out transmitters. In the Cellular Radiotelephone Service, transmitters added to the first cellular system authorized on a channel block in a cellular market during the five year build-out period in order to expand the coverage of the system within the market.

Cardinal radials. Eight imaginary straight lines extending radially on the ground from an antenna location in the following azimuths with respect to true North: 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°.

Carrier frequency. The frequency of the unmodulated electrical wave at the output of an amplitude modulated (AM), frequency modulated (FM) or phase modulated (PM) transmitter.

Cell. The service area of an individual transmitter location in a cellular system.

Cellular Geographic Service Area. The geographic area served by a cellular system, within which that system is entitled to protection and adverse effects are recognized, for the purpose of determining whether a petitioner has standing. See § 22.911.

Cellular markets. Standard geographic areas used by the FCC for administrative convenience in the licensing of cellular systems. See § 22.909.

Cellular Radiotelephone Service. A radio service in which common carriers are authorized to offer and provide cellular service for hire to the general public. This service was formerly titled Domestic Public Cellular Radio Telecommunications Service.

Cellular repeater. In the Cellular Radiotelephone Service, a stationary transmitter or device that automatically re-radiates the transmissions of base transmitters at a particular cell site and mobile stations communicating with those base transmitters, with or without channel translation.

Cellular service. Radio telecommunication services provided using a cellular system.

Cellular system. An automated high-capacity system of one or more multichannel base stations designed to provide radio telecommunication services to mobile stations over a wide area in a spectrally efficient manner. Cellular systems employ techniques such as low transmitting power and automatic hand-off between base stations of communications in progress to enable channels to be reused at relatively short distances. Cellular systems may also employ digital techniques such as voice encoding and decoding, data compression, error correction, and time or code division multiple access in order to increase system capacity.

Center frequency. The frequency of the middle of the bandwidth of a channel.

Central office transmitter. A fixed transmitter in the Rural Radiotelephone Service that provides service to rural subscriber stations.

CGSA. See Cellular Geographic Service Area.

Channel. The portion of the electromagnetic spectrum assigned by the FCC for one emission. In certain circumstances, however, more than one emission may be transmitted on a channel. See, for example, § 22.161.

Channel bandwidth. The spectral width of a channel, as specified in this part, within which 99% of the emission power must be contained.

Channel block. A group of channels that are assigned together, not individually.

Channel pair. Two channels that are assigned together, not individually. In this part, channel pairs are indicated by an ellipsis between the center frequencies.

Communications channel. In the Cellular Radiotelephone and Air-ground Radiotelephone Services, a channel used to carry subscriber communications.

Construction period. The period between the date of grant of an authorization and the date of required commencement of service.

Control channel. In the Cellular Radiotelephone Service and the Air-ground Radiotelephone Service, a channel used to transmit information necessary to establish or maintain communications. In the other Public Mobile Services, a channel that may be assigned to a control transmitter.

Control point. A location where the operation of a public mobile station is supervised and controlled by the

licensee of that station.

Control transmitter. A fixed transmitter in the Public Mobile Services that transmits control signals to one or more base or fixed stations for the purpose of controlling the operation of the base or fixed stations, and/or transmits subscriber communications to one or more base or fixed stations that retransmit them to subscribers.

Dead spots. Small areas within a service area where the field strength is lower than the minimum level for reliable service. Service within dead spots is presumed.

Dispatch service. A radiotelephone service comprising communications between a dispatcher and one or more mobile units. These communications normally do not exceed one minute in duration and are transmitted directly through a base station, without passing through mobile telephone switching facilities.

Effective radiated power (ERP). The effective radiated power of a transmitter (with antenna, transmission line, duplexers etc.) is the power that would be necessary at the input terminals of a reference half-wave dipole antenna in order to produce the same maximum field intensity. ERP is usually calculated by multiplying the measured transmitter output power by the specified antenna system gain, relative to a half-wave dipole, in the direction of interest.

Emission. The electromagnetic energy radiated from an antenna.

Emission designator. An internationally accepted symbol for describing an emission in terms of its bandwidth and the characteristics of its modulation, if any. See § 2.201 of this chapter for details.

Emission mask. The design limits imposed, as a condition or certification, on the mean power of emissions as a function of frequency both within the authorized bandwidth and in the adjacent spectrum.

Equivalent isotropically radiated power (EIRP). The equivalent isotropically radiated power of a transmitter (with antenna, transmission line, duplexers etc.) is the power that would be necessary at the input terminals of a reference isotropic radiator in order to produce the same maximum field intensity. An isotropic radiator is a theoretical lossless point source of radiation with unity gain in all directions. EIRP is usually calculated by multiplying the measured transmitter output power by the specified antenna system gain, relative to an isotropic radiator, in the direction of interest.

Extension. In the Cellular Radiotelephone Service, an area within the service area boundary of a cellular system, but outside of the market boundary. See §§ 22.911(c) and 22.912.

Facsimile service. Transmission of still images from one place to another by means of radio.

Fill-in transmitters. Transmitters added to a station, in the same area and transmitting on the same channel or channel block as previously authorized transmitters, that do not expand the existing service area, but are established for the purpose of improving reception in dead spots.

Five year build-out period. A five year period during which the licensee of the first cellular system authorized on each channel block in each cellular market may expand the system within that market. See § 22.947.

Fixed transmitter. A stationary transmitter that communicates with other stationary transmitters.

Frequency. The number of cycles occurring per second of an electrical or electromagnetic wave; a number representing a specific point in the electromagnetic spectrum.

Ground station. In the Air-ground Radiotelephone Service, a stationary transmitter that provides service to airborne mobile stations.

Height above average terrain (HAAT). The height of an antenna above the average elevation of the surrounding area.

In-building radiation systems. Supplementary systems comprising low power transmitters, receivers, indoor antennas and/or leaky coaxial cable radiators, designed to improve service reliability inside buildings or structures located within the service areas of stations in the Public Mobile Services.

Initial cellular applications. Applications for authority to construct and operate a new cellular system, excluding applications for interim operating authority.

Interfering contour. The locus of points surrounding a transmitter where the predicted median field strength of the signal from that transmitter is the maximum field strength that is not considered to cause interference at the service contour of another transmitter.

Interoffice transmitter. A fixed transmitter in the Rural Radiotelephone Service that communicates with other interoffice transmitters for the purpose of interconnecting rural central offices.

Meteor burst propagation mode. A long distance VHF radio communication path occurring as a result of the refraction of electromagnetic waves by ionized meteor trails.

Mobile station. One or more transmitters that are capable of operation while in motion.

Necessary bandwidth. The calculated spectral width of an emission. Calculations are made using procedures set forth in part 2 of this chapter. The bandwidth so calculated is considered to be the minimum necessary to convey information at the desired rate with the desired accuracy.

Occupied bandwidth. The measured spectral width of an emission. The measurement determines occupied bandwidth as the difference between upper and lower frequencies where 0.5% of the emission power is above the upper frequency and 0.5% of the emission power is below the lower frequency.

Offshore central transmitter. A fixed transmitter in the Offshore Radiotelephone Service that provides service to offshore subscriber stations.

Offshore Radiotelephone Service. A radio service in which common carriers are authorized to offer and provide radio telecommunication services for hire to subscribers on structures in the offshore coastal waters of the Gulf of Mexico.

Offshore subscriber station. One or more fixed and/or mobile transmitters in the Offshore Radiotelephone Service that receive service from offshore central transmitters.

Pager. A small radio receiver designed to be carried by a person and to give an aural, visual or tactile indication when activated by the reception of a radio signal containing its specific code. It may also reproduce sounds and/or display messages that were also transmitted. Some pagers also transmit a radio signal acknowledging that a message has been received.

Paging and Radiotelephone Service. A radio service in which common carriers are authorized to offer and provide paging and radiotelephone service for hire to the general public. This service was formerly titled Public Land Mobile Service.

Paging geographic area authorization. An authorization conveying the exclusive right to establish and expand one or more stations throughout a paging geographic area or, in the case of a partitioned geographic area, throughout a specified portion of a paging geographic area, on a specified channel allocated for assignment in the Paging and Radiotelephone Service. These are subject to the conditions that no interference may be caused to existing co-channel stations operated by other licensees within the paging geographic area and that no interference may be

caused to existing or proposed co-channel stations of other licensees in adjoining paging geographic areas.

Paging geographic areas. Standard geographic areas used by the FCC for administrative convenience in the licensing of stations to operate on channels allocated for assignment in the Paging and Radiotelephone Service. See § 22.503(b).

Paging service. Transmission of coded radio signals for the purpose of activating specific pagers; such transmissions may include messages and/or sounds.

Partitioned cellular market. A cellular market with two or more authorized cellular systems on the same channel block during the five year build-out period, as a result of settlements during initial licensing or contract(s) between the licensee of the first cellular system and the licensee(s) of the subsequent systems. See § 22.947(b).

Public Mobile Services. Radio services in which common carriers are authorized to offer and provide mobile and related fixed radio telecommunication services for hire to the public.

Radio common carrier. A telecommunications common carrier that provides radio communications services but is not engaged in the business of providing landline local exchange telephone service.

Radio telecommunication services. Communication services provided by the use of radio, including radiotelephone, radiotelegraph, paging and facsimile service.

Radiotelegraph service. Transmission of messages from one place to another by means of radio.

Radiotelephone service. Transmission of sound from one place to another by means of radio.

Repeater. A fixed transmitter that retransmits the signals of other stations.

Roamer. A mobile station receiving service from a station or system in the Public Mobile Services other than one to which it is a subscriber.

Rural Radiotelephone Service. A radio service in which common carriers are authorized to offer and provide radio telecommunication services for hire to subscribers in areas where it is not feasible to provide communication services by wire or other means.

Rural subscriber station. One or more fixed transmitters in the Rural Radiotelephone Service that receive service from central office transmitters.

Service area. The geographic area considered by the FCC to be reliably served by a station in the Public Mobile Services.

Service contour. The locus of points surrounding a transmitter where the predicted median field strength of the signal from that transmitter is the minimum field strength that is considered sufficient to provide reliable service to mobile stations.

Service to subscribers. Service to at least one subscriber that is not affiliated with, controlled by or related to the providing carrier.

Signal booster. A stationary device that automatically reradiates signals from base transmitters without channel translation, for the purpose of improving the reliability of existing service by increasing the signal strength in dead spots.

Station. A station equipped to engage in radio communication or radio transmission of energy (47 U.S.C. 153(k)).

Telecommunications common carrier. An individual, partnership, association, joint-stock company, trust or corporation engaged in rendering radio telecommunications services to the general public for hire.

Temporary fixed station. One or more fixed transmitters that normally do not remain at any particular location for longer than 6 months.

Universal licensing system. The Universal Licensing System (ULS) is the consolidated database, application filing system, and processing system for all Wireless Radio Services. ULS supports electronic filing of all applications and related documents by applicants and licensees in the Wireless Radio Services, and provides public access to licensing information.

Unserved areas. With regard to a channel block allocated for assignment in the Cellular Radiotelephone Service: Geographic area in the District of Columbia, or any State, Territory or possession of the United States of America that is not within the CGSA of any cellular system authorized to transmit on that channel block. With regard to a channel allocated for assignment in the Paging and Radiotelephone Service: Geographic area within the District of Columbia, or any State, Territory or possession of the United States of America that is not within the service contour of any base transmitter in any station authorized to transmit on that channel.

Wireline common carrier. A telecommunications common carrier that is also engaged in the business of providing landline local exchange telephone service.

# PART 22--PUBLIC MOBILE SERVICES SUBPART B—LICENSING REQUIREMENTS AND PROCEDURES

## § 22.107 General application requirements.

In general, applications for authorizations, assignments of authorizations, or consent to transfer of control of licensees in the Public Mobile Services must:

- (a) Demonstrate the applicant's qualifications to hold an authorization in the Public Mobile services;
- (b) State how a grant would serve the public interest, convenience, and necessity;
- (c) Contain all information required by FCC rules or application forms;
- (d) Propose operation of a facility in compliance with all rules governing the Public Mobile service;
- (e) Be amended as necessary to remain substantially accurate and complete in all significant respects, in accordance with the provisions of § 1.65 of this chapter; and,
- (f) Be signed in accordance with § 1.743 of this chapter.

#### § 22.131 Procedures for mutually exclusive applications.

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 Commission rules governing the Public Mobile Services involved. The Commission uses the general procedures in this section for processing mutually exclusive applications in the Public Mobile Services. Additional specific procedures are prescribed in the subparts of this part governing the individual Public Mobile Services (see §§ 22.509, 22.717, and 22.949) and in part 1 of this chapter.

(a) Separate applications. Any applicant that files an application knowing that it will be mutually exclusive with one or more applications should not include in the mutually exclusive application a request for other channels or

facilities that would not, by themselves, render the application mutually exclusive with those other applications. Instead, the request for such other channels or facilities should be filed in a separate application.

- (b) Filing groups. Pending mutually exclusive applications are processed in filing groups. Mutually exclusive applications in a filing group are given concurrent consideration. The Commission may dismiss as defective (pursuant to § 1.945 of this chapter) any mutually exclusive application(s) whose filing date is outside of the date range for inclusion in the filing group. The types of filing groups used in day-to-day application processing are specified in paragraph (c)(3) of this section. A filing group is one of the following types:
- (1) Renewal filing group. A renewal filing group comprises a timely-filed application for renewal of an authorization and all timely-filed mutually exclusive competing applications (see § 1.935 of this chapter).
- (2) Same-day filing group. A same-day filing group comprises all mutually exclusive applications whose filing date is the same day, which is normally the filing date of the first-filed application(s).
- (3) Thirty-day notice and cut-off filing group. A 30-day notice and cut-off filing group comprises mutually exclusive applications whose filing date is no later than thirty (30) days after the date of the Public Notice listing the first-filed application(s) (according to the filing dates) as acceptable for filing.
- (4) Window filing group. A window filing group comprises mutually exclusive applications whose filing date is within an announced filing window. An announced filing window is a period of time between and including two specific dates, which are the first and last dates on which applications (or amendments) for a particular purpose may be accepted for filing. In the case of a one-day window, the two dates are the same. The dates are made known to the public in advance.
- (c) Procedures. Generally, the Commission may grant one application in a filing group of mutually exclusive applications and dismiss the other application(s) in the filing that are excluded by that grant, pursuant to § 1.945 of this chapter.
- (1) Selection methods. In selecting the application to grant, the Commission will use competitive bidding.
- (2) Dismissal of applications. The Commission may dismiss any application in a filing group that is defective or otherwise subject to dismissal under § 1.945 of this chapter, either before or after employing selection procedures.
- (3) Type of filing group used. Except as otherwise provided in this part, the type of filing group used in the processing of two or more mutually exclusive applications depends upon the purpose(s) of the applications.
- (i) If one of the mutually exclusive applications is a timely-filed application for renewal of an authorization, a renewal filing group is used.
- (ii) If any mutually exclusive application filed on the earliest filing date is an application for modification and none of the mutually exclusive applications is a timely-filed application for renewal, a same-day filing group is used.
- (iii) If all of the mutually exclusive applications filed on the earliest filing date are applications for initial authorization, a 30-day notice and cut-off filing group is used, except that, for Phase I unserved area applications in the Cellular Radiotelephone Service, a one-day window filing group is used (see § 22.949).
- (4) Disposition. If there is only one application in any type of filing group, the Commission may grant that application and dismiss without prejudice any mutually exclusive applications not in the filing group. If there is more than one mutually exclusive application in a filing group, the Commission disposes of these applications as follows:
- (i) Applications in a renewal filing group. All mutually exclusive applications in a renewal filing group are

designated for comparative consideration in a hearing.

- (ii) Applications in a 30-day notice and cut-off filing group.
- (A) If all of the mutually exclusive applications in a 30-day notice and cut- off filing group are applications for initial authorization, the FCC administers competitive bidding procedures in accordance with § 22.201 through § 22.227 and subpart Q of part 1 of this chapter, as applicable. After such procedures, the application of the successful bidder may be granted and the other applications may be dismissed without prejudice.
- (B) If any of the mutually exclusive applications in a 30-day notice and cut- off filing group is an application for modification, the Commission may attempt to resolve the mutual exclusivity by facilitating a settlement between the applicants. If a settlement is not reached within a reasonable time, the FCC may designate all applications in the filing group for comparative consideration in a hearing. In this event, the result of the hearing disposes all of the applications in the filing group.
- (iii) Applications in a same-day filing group. If there are two or more mutually exclusive applications in a same-day filing group, the Commission may attempt to resolve the mutual exclusivity by facilitating a settlement between the applicants. If a settlement is not reached within a reasonable time, the Commission may designate all applications in the filing group for comparative consideration in a hearing. In this event, the result of the hearing disposes of all of the applications in the filing group.
- (iv) Applications in a window filing group. Applications in a window filing group are processed in accordance with the procedures for a 30-day notice and cut-off filing group in paragraph (c)(4)(ii) of this section.
- (d) Terminology. For the purposes of this section, terms have the following meanings:
- (1) The filing date of an application is the date on which that application was received in a condition acceptable for filing or the date on which the most recently filed major amendment to that application was received, whichever is later, excluding major amendments in the following circumstances:
- (i) The major amendment reflects only a change in ownership or control found by the Commission to be in the public interest;
- (ii) The major amendment as received is defective or otherwise found unacceptable for filing; or
- (iii) The application being amended has been designated for hearing and the Commission or the presiding officer accepts the major amendment.
- (2) An application for initial authorization is:
- (i) Any application requesting an authorization for a new system or station;
- (ii) Any application requesting authorization for an existing station to operate on an additional channel, unless the additional channel is for paired two-way radiotelephone operation, is in the same frequency range as the existing channel(s), and will be operationally integrated with the existing channel(s) such as by trunking;
- (iii) Any application requesting authorization for a new transmitter at a location more than 2 kilometers (1.2 miles) from any existing transmitters of the applicant licensee on the requested channel or channel block; or
- (iv) Any application to expand the CGSA of a cellular system (as defined in § 22.911), except during the five-year build-out period.
- (v) Any "short-form" application (filed on FCC Form 175) requesting a new paging geographic area authorization.

#### § 22.143 Construction prior to grant of application.

Applicants may construct facilities in the Public Mobile services prior to grant of their applications, subject to the provisions of this section, but must not operate such facilities until the FCC grants an authorization. If the conditions stated in this section are not met, applicants must not begin to construct facilities in the Public Mobile Services.

- (a) When applicants may begin construction. An applicant may begin construction of a facility 35 days after the date of the Public Notice listing the application for that facility as acceptable for filing, except that an applicant whose application to operate a new cellular system was selected in a random selection process may begin construction of that new cellular system 35 days after the date of the Public Notice listing it as the tentative selectee.
- (b) Notification to stop. If the FCC for any reason determines that construction should not be started or should be stopped while an application is pending, and so notifies the applicant, orally (followed by written confirmation) or in writing, the applicant must not begin construction or, if construction has begun, must stop construction immediately.
- (c) Assumption of risk. Applicants that begin construction pursuant to this section before receiving an authorization do so at their own risk and have no recourse against the United States for any losses resulting from:
- (1) Applications that are not granted;
- (2) Errors or delays in issuing Public Notices;
- (3) Having to alter, relocate or dismantle the facility; or
- (4) Incurring whatever costs may be necessary to bring the facility into compliance with applicable laws, or FCC rules and orders.
- (d) Conditions. Except as indicated, all pre-grant construction is subject to the following conditions:
- (1) The application is not mutually exclusive with any other application, except for successful bidders and tentative selectees in the Cellular Radiotelephone Service;
- (2) No petitions to deny the application have been filed;
- (3) The application does not include a request for a waiver of one or more FCC rules;
- (4) For any construction or alteration that would exceed the requirements of § 17.7 of this chapter, the licensee has notified the appropriate Regional Office of the Federal Aviation Administration (FAA Form 7460-1), filed a request for antenna height clearance and obstruction marking and lighting specifications (FCC Form 854) with the FCC, PRB, Support Services Branch, Gettysburg, PA 17325;
- (5) The applicant has indicated in the application that the proposed facility would not have a significant environmental effect, in accordance with §§ 1.1301 through 1.1319 of this chapter; and,
- (6) Under applicable international agreements and rules in this part, individual coordination of the proposed channel assignment(s) with a foreign administration is not required.
- § 22.150 Standard pre-filing technical coordination procedure.

For operations on certain channels in the Public Mobile Services, carriers must attempt to coordinate the proposed use of spectrum with other spectrum users prior to filing an application for authority to operate a station. Rules requiring this procedure for specific channels and types of stations are contained in the subparts governing the individual Public Mobile Services.

- (a) Coordination comprises two steps--notification and response. Each step may be accomplished orally or in writing.
- (b) Notification must include relevant technical details of the proposal. At minimum, this should include the following:
- (1) Geographical coordinates of the antenna site(s).
- (2) Transmitting and receiving channels to be added or changed.
- (3) Transmitting power, emission type and polarization.
- (4) Transmitting antenna pattern and maximum gain.
- (5) Transmitting antenna height above ground level.
- (c) Applicants and licensees receiving notification must respond promptly, even if no channel usage conflicts are anticipated. If any notified party fails to respond within 30 days, the applicant may file the application without a response from that party.
- (d) The 30-day period begins on the date the notification is submitted to the Commission via the ULS. If the notification is by mail, this date may be ascertained by:
- (1) The return receipt on certified mail,
- (2) The enclosure of a card to be dated and returned by the party being notified, or
- (3) A reasonable estimate of the time required for the mail to reach its destination. In this case, the date when the 30-day period will expire must be stated in the notification.
- (e) All channel usage conflicts discovered during the coordination process should be resolved prior to filing of the application. If the applicant is unable or unwilling to resolve a particular conflict, the application may be accepted for filing if it contains a statement describing the unresolved conflict and a brief explanation of the reasons why a resolution was not achieved.
- (f) If a number of changes in the technical parameters of a proposed facility become necessary during the course of the coordination process, an attempt should be made to minimize the number of separate notifications. If the changes are incorporated into a completely revised notice, the items that were changed from the previous notice should be identified.
- (g) In situations where subsequent changes are not numerous or complex, the party receiving the changed notification should make an effort to respond in less than 30 days. If the applicant believes a shorter response time is reasonable and appropriate, it should so indicate in the notice and suggest a response date.
- (h) If a subsequent change in the technical parameters of a proposed facility could not affect the facilities of one or more of the parties that received an initial notification, the applicant is not required to coordinate that change with these parties. However, these parties must be advised of the change and of the opinion that coordination is not required.

#### § 22.157 Distance computation.

The method given in this section must be used to compute the distance between any two locations, except that, for computation of distance involving stations in Canada and Mexico, methods for distance computation specified in the applicable international agreement, if any, must be used instead. The method set forth in this paragraph is considered to be sufficiently accurate for distances not exceeding 475 km (295 miles).

(a) Convert the latitudes and longitudes of each reference point from degree- minute-second format to degree-decimal format by dividing minutes by 60 and seconds by 3600, then adding the results to degrees.

$$LATX_{dd} = DD + \frac{MM}{60} + \frac{SS}{3600}$$

$$LONX_{dd} = DDD + \frac{MM}{60} + \frac{SS}{3600}$$

(b) Calculate the mean geodetic latitude between the two reference points by averaging the two latitudes:

$$ML = \frac{LATl_{dd} + LAT2_{dd}}{2}$$

(c) Calculate the number of kilometers per degree latitude difference for the mean geodetic latitude calculated in paragraph (b) of this section as follows:

$$\begin{aligned} KPD_{lat} = & 111.13209 - 0.56605 \ cos \ 2ML \\ & + 0.00120 \ cos \ 4ML \end{aligned}$$

(d) Calculate the number of kilometers per degree of longitude difference for the mean geodetic latitude calculated in paragraph (b) of this section as follows:

$$\begin{split} KPD_{lon} = & 111.41513 \ cos \ ML \\ & - 0.09455 \ cos \ 3ML \\ & + 0.00012 \ cos \ 5ML \end{split}$$

(e) Calculate the North-South distance in kilometers as follows:

$$NS = KPD_{lat} \times (LAT1_{dd} - LAT2_{dd})$$

(f) Calculate the East-West distance in kilometers as follows:

$$EW = KPD_{lon} x (LON1_{dd} - LON2_{dd})$$

(g) Calculate the distance between the locations by taking the square root of the sum of the squares of the East-West and North-South distances:

$$DIST = \sqrt{NS^2 + EW^2}$$

- (h) Terms used in this section are defined as follows:
- (1) LAT1<sub>dd</sub> and LON1<sub>dd</sub> are the coordinates of the first location in degree-decimal format.
- (2) LAT2<sub>dd</sub> and LON2<sub>dd</sub> are the coordinates of the second location in degree-decimal format.
- (3) ML is the mean geodetic latitude in degree-decimal format.
- (4) KPD<sub>lat</sub> is the number of kilometers per degree of latitude at a given mean geodetic latitude.
- (5) KPD<sub>lon</sub> is the number of kilometers per degree of longitude at a given mean geodetic latitude.
- (6) NS is the North-South distance in kilometers.
- (7) DIST is the distance between the two locations, in kilometers.
- § 22.159 Computation of average terrain elevation.

Average terrain elevation must be calculated by computer using elevations from a 30 second point or better topographic data file. The file must be identified. If a 30 second point data file is used, the elevation data must be processed for intermediate points using interpolation techniques; otherwise, the nearest point may be used. In cases of dispute, average terrain elevation determinations can also be done manually, if the results differ significantly from the computer derived averages.

- (a) Radial average terrain elevation is calculated as the average of the elevation along a straight line path from 3 to 16 kilometers (2 and 10 miles) extending radially from the antenna site. If a portion of the radial path extends over foreign territory or water, such portion must not be included in the computation of average elevation unless the radial path again passes over United States land between 16 and 134 kilometers (10 and 83 miles) away from the station. At least 50 evenly spaced data points for each radial should be used in the computation.
- (b) Average terrain elevation is the average of the eight radial average terrain elevations (for the eight cardinal radials).
- (c) For locations in Dade and Broward Counties, Florida, the method prescribed above may be used or average terrain elevation may be assumed to be 3 meters (10 feet).

### § 22.161 Application requirements for ASSB.

Applications for base stations employing amplitude compandored single sideband modulation (ASSB) must contain the following information:

- (a) The application must describe fully the modulation characteristics, emission and occupied bandwidth, and specify the center frequency of the emission for each channel, carrier frequency, and pilot channels, if any. The emission must fall completely within a channel assignable for two-way operation in the Paging and Radiotelephone Service, Rural Radiotelephone Service or Offshore Radiotelephone Service.
- (b) The application must contain interference studies between stations within an authorized bandwidth, whether FM-to-ASSB, ASSB-to-FM, or ASSB-to-ASSB in accordance with the following: For ASSB stations, the transmitter nearest to the protected station must be used. The effective radiated power in the direction of the

protected station must be the sum of the peak effective radiated power of all transmitters in the group, in the direction of the protected station. The antenna center of radiation height above average terrain must be the highest antenna center of radiation height of any transmitter in the group in the direction of the protected station. The channel of the group is assumed to be the same as that of the protected station (co-channel), and studies must be made in accordance with § 22.567.

§ 22.165 Additional transmitters for existing systems.

A licensee may operate additional transmitters at additional locations on the same channel or channel block as its existing system without obtaining prior Commission approval provided:

- (a) International coordination. The locations and/or technical parameters of the additional transmitters are such that individual coordination of the channel assignment(s) with a foreign administration, under applicable international agreements and rules in this part, is not required.
- (b) Antenna structure registration. Certain antenna structures must be registered with the Commission prior to construction or alteration. Registration requirements are contained in part 17 of this chapter.
- (c) Environmental. The additional transmitters must not have a significant environmental effect as defined by §§ 1.1301 through 1.1319 of this chapter.
- (d) Paging and Radiotelephone Service. The provisions in this paragraph apply for stations in the Paging and Radiotelephone Service.
- (1) The interfering contours of the additional transmitter(s) must be totally encompassed by the composite interfering contour of the existing station (or stations under common control of the applicant) on the same channel, except that this limitation does not apply to nationwide network paging stations or in-building radiation systems.
- (2) Additional transmitters in the 43 MHz frequency range operate under developmental authority, subject to the conditions set forth in § 22.411.
- (3) The additional transmitters must not operate on control channels in the 72-76 MHz, 470-512 MHz, 928 MHz, 932 MHz, 941 MHz or 959 MHz frequency ranges.
- (e) Cellular radiotelephone service. During the five-year build-out period, the service area boundaries of the additional transmitters, as calculated by the method set forth in § 22.911(a), must remain within the market, except that the service area boundaries may extend beyond the market boundary into the area that is part of the COSA or is already encompassed by the service area boundaries of previously authorized facilities. After the five-year build-out period, the service area boundaries of the additional transmitters, as calculated by the method set forth in § 22.911(a), must remain within the COSA. Licensees must notify the Commission (FCC Form 601) of any transmitters added under this section that cause a change in the COSA boundary. The notification must include full size and reduced maps, and supporting engineering, as described in § 22.953(a)(5)(i) through (iii). If the addition of transmitters involves a contract service area boundary (SAB) extension (see § 22.912), the notification must include a statement as to whether the five-year build-out period for the system on the relevant channel block in the market into which the SAB extends has elapsed and whether the SAB extends into any unserved area in the market. The notification must be made electronically via the ULS, or delivered to the filing place (see § 1.913 of this chapter) no later than 15 days after the addition is made.
- (f) Air-ground Radiotelephone Service. Ground stations may be added to Commercial Aviation air-ground systems at previously established ground station locations, pursuant to § 22.859, subject to compliance with the applicable technical rules. This section does not apply to General Aviation air-ground stations.
- (g) Rural Radiotelephone Service. A "service area" and "interfering contours" must be determined using the same method as for stations in the Paging and Radiotelephone Service. The service area and interfering contours so

determined for the additional transmitter(s) must be totally encompassed by the similarly determined composite service area contour and predicted interfering contour, respectively, of the existing station on the same channel. This section does not apply to Basic Exchange Telecommunications Radio Systems.

- (h) Offshore Radiotelephone Service. This section does not apply to stations in the Offshore Radiotelephone Service.
- (i) Provision of information upon request. Upon request by the FCC, licensees must supply administrative or technical information concerning the additional transmitters. At the time transmitters are added pursuant to this section, licensees must make a record of the pertinent technical and administrative information so that such information is readily available. See § 22.303.
- § 22.201 Scope of competitive bidding rules.

Sections 22.201 through 22.227, inclusive (and, unless otherwise specified in this part, the procedures set forth in part 1, subpart Q, of this chapter), apply only to competitive bidding ("auction") procedures for authorizations as follows:

- (a) Paging geographic area authorizations issued pursuant to this part or to part 90 of this chapter.
- (b) [Reserved]
- § 22.203 Competitive bidding design for paging licensing.

A simultaneous multiple round auction will be used to choose from among mutually exclusive initial applications for paging geographic area authorizations, unless the FCC specifies otherwise by Public Notice prior to the competitive bidding procedure.

- § 22.205 Competitive bidding mechanisms.
- (a) Sequencing. The FCC will establish and may vary the sequence in which paging geographic area authorizations are auctioned.
- (b) Grouping. The FCC will determine which licenses will be auctioned simultaneously or in combination based on interdependency and administrative circumstances.
- (c) Minimum Bid Increments. The FCC may, by public announcement before or during an auction, require minimum bid increments in dollar or percentage terms.
- (d) Stopping Rules. The FCC may establish stopping rules before or during an auction in order to terminate the auction within a reasonable time.
- (e) Activity Rules. The FCC may establish activity rules which require a minimum amount of bidding activity. In the event that the FCC establishes an activity rule in connection with a simultaneous multiple round auction, each bidder may request waivers of such rule during the auction. The FCC may, by public announcement either before or during an auction, specify or vary the number of waivers available to each bidder.
- § 22.207 Withdrawal, default, and disqualification payments.

The FCC will impose payments on bidders who withdraw high bids during the course of an auction, who default on payments due after an auction terminates, or who are disqualified. When the FCC conducts a simultaneous

multiple round auction, payments will be calculated as set forth in §§ 1.2104(g) and 1.2109 of this chapter. When the amount of such a payment cannot be determined, a deposit of up to 20 percent of the amount bid on the license will be required.

# § 22.211 Submission of upfront payments and down payments.

- (a) The FCC will require applicants to submit an upfront payment prior to the start of a paging auction. The amount of the upfront payment for each geographic area license auctioned and the procedures for submitting it will be set forth by the Wireless Telecommunications Bureau in a Public Notice in accordance with § 1.2106 of this chapter.
- (b) Each winning bidder in a paging auction must submit a down payment to the FCC in an amount sufficient to bring its total deposits up to 20 percent of its winning bid. All winning bidders except small businesses will be required to make such payment within ten business days following the release of a Public Notice announcing the close of bidding. Small businesses must bring their deposits up to 10 percent of their winning bids within ten business days following the release of a Public Notice announcing the close of bidding, and must pay an additional 10 percent prior to licensing, by a date and time to be specified by Public Notice.

## § 22.213 Long-form application (FCC Form 601).

Each successful bidder for a paging geographic area authorization must submit a "long-form" application (Form 601) within ten (10) business days after being notified by Public Notice that it is the winning bidder. Applications for paging geographic area authorizations on FCC Form 601 must be submitted in accordance with § 1.2107 and § 1.2112 of this chapter, all applicable procedures set forth in the rules in this part, and any applicable Public Notices that the FCC may issue in connection with an auction. After an auction, the FCC will not accept long-form applications for paging geographic area authorizations from anyone other than the auction winners and parties seeking partitioned authorizations pursuant to agreements with auction winners under § 22.221 of this part.

## § 22.215 Authorization grant, denial, default, and disqualification.

- (a) Each winning bidder will be required to pay the full balance of its winning bid no later than ten (10) business days following the release date of a Public Notice establishing the payment deadline. If a winning bidder fails to pay the balance of its winning bids in a lump sum by the applicable deadline as specified by the Commission, it will be allowed to make payment no later than ten (10) business days after the payment deadline, provided that it also pays a late fee equal to five (5) percent of the amount due. When a winning bidder fails to pay the balance of its winning bid by the late payment deadline, it is considered to be in default on its authorization(s) and subject to the applicable default payments. Authorizations will be awarded upon the full and timely payment of winning bids and any applicable late fees.
- (b) A bidder that withdraws its bid subsequent to the close of bidding, defaults on a payment due, or is disqualified, is subject to the payments specified in § 22.207, § 1.2104(g), or § 1.2109 of this chapter, as applicable.

# § 22.217 Bidding credits for small businesses.

(a) A winning bidder that qualifies as a small business or a consortium of small businesses as defined in § 22.223(b)(1)(i) of this part may use a bidding credit of thirty-five (35) percent to lower the cost of its winning bid. A winning bidder that qualifies as a small business or a consortium of small businesses as defined in § 22.223(b)(1)(ii) of this part may use a bidding credit of twenty-five (25) percent to lower the cost of its winning bid.

### (b) Unjust Enrichment:

- (1) If a small business that utilizes a bidding credit under this section seeks to transfer control or assign an authorization to an entity that is not a small business under § 22.223(b)(1), or seeks to make any other change in ownership that would result in the licensee losing eligibility as a small business, the small business must seek FCC approval and reimburse the U.S. government for the amount of the bidding credit (plus interest at the rate imposed for installment financing at the time the license was awarded), as a condition of approval of such assignment, transfer, or other ownership change.
- (2) If a small business that utilizes a bidding credit under this section seeks to transfer control or assign an authorization to a small business meeting the eligibility standards for a lower bidding credit, or seeks to make any other change in ownership that would result in the licensee qualifying for a lower bidding credit under this section, the licensee must seek FCC approval and reimburse the U.S. government for the difference between the amount of the bidding credit obtained by the licensee and the bidding credit for which the assignee, transferee, or licensee is eligible under this section (plus interest at the rate imposed for installment financing at the time the license was awarded), as a condition of the approval of such assignment, transfer, or other ownership change.
- (3) The amount of payments made pursuant to paragraphs (b)(1) and (b)(2) of this section will be reduced over time as follows: A transfer in the first two years of the license term will result in a forfeiture of 100 percent of the value of the bidding credit (or the difference between the bidding credit obtained by the original licensee and the bidding credit for which the post-transfer licensee is eligible); in year 3 of the license term the payment will be 75 percent; in year 4 the payment will be 50 percent; and in year 5 the payment will be 25 percent, after which there will be no assessment.
- (4) If a small business that utilizes a bidding credit under this section partitions its authorization or disaggregates its spectrum to an entity not meeting the eligibility standards for the same bidding credit, the partitioning or disaggregating licensee will be subject to the provisions concerning unjust enrichment as set forth in § 1.2111(e)(2) and (3) of this chapter.

## § 22.221 Eligibility for partitioned licenses.

If partitioned licenses are being applied for in conjunction with a license(s) to be awarded through competitive bidding procedures--

- (a) The applicable procedures for filing short-form applications and for submitting upfront payments and down payments contained in this chapter shall be followed by the applicant, who must disclose as part of its short-form application all parties to agreement(s) with or among other entities to partition the license pursuant to this section, if won at auction (see 47 CFR 1.2105(a)(2)(viii));
- (b) Each party to an agreement to partition the authorization must file a long-form application (FCC Form 601) for its respective, mutually agreed-upon geographic area together with the application for the remainder of the MEA or EA filed by the auction winner.
- (c) If the partitioned authorization is being applied for as a partial assignment of the MEA or EA authorization following grant of the initial authorization, request for authorization for partial assignment of an authorization shall be made pursuant to § 1.948 of this part.

#### § 22.223 Definitions concerning competitive bidding process.

(a) Scope. The definitions in this section apply to §§ 22.201 through 22.227, unless otherwise specified in those sections.

- (b) Small business; consortium of small businesses.
- (1) A small business is an entity that either:
- (i) Together with its affiliates and controlling interests has average gross revenues that are not more than \$3 million for the preceding three years; or
- (ii) Together with its affiliates and controlling interests has average gross revenues that are not more than \$15 million for the preceding three years.
- (2) For purposes of determining whether an entity meets either the \$3 million or \$15 million average annual gross revenues size standard set forth in paragraph (b)(1) of this section, the gross revenues of the entity, its affiliates, and controlling interests shall be considered on a cumulative basis and aggregated.
- (3) A consortium of small businesses is a conglomerate organization formed as a joint venture between or among mutually independent business firms, each of which individually satisfies the definition of a small business in paragraph (b)(1) of this section. Each individual member must establish its eligibility as a small business, as defined in this section. Where an applicant (or licensee) is a consortium of small businesses, the gross revenues of each small business shall not be aggregated.
- (4) Applicants without identifiable controlling interests. Where an applicant (or licensee) cannot identify controlling interests under the standards set forth in this section, the gross revenues of all interest holders in the applicant, and their affiliates, will be attributable.
- (c) Gross Revenues. Gross revenues shall mean all income received by an entity, whether earned or passive, before any deductions are made for costs of doing business (e.g., cost of goods sold). Gross revenues are evidenced by audited financial statements for the relevant number of calendar or fiscal years preceding the filing of the applicant's short-form application. If an entity was not in existence for all or part of the relevant period, gross revenues shall be evidenced by the audited financial statements of the entity's predecessor-in-interest or, if there is no identifiable predecessor-in- interest, unaudited financial statements certified by the applicant as accurate. When an applicant does not otherwise use audited financial statements, its gross revenues may be certified by its chief financial officer or its equivalent.
- (d) Affiliate .--
- (1) Basis for Affiliation. An individual or entity is an affiliate of an applicant if such individual or entity:
- (i) Directly or indirectly controls or has the power to control the applicant, or
- (ii) Is directly or indirectly controlled by the applicant, or
- (iii) Is directly or indirectly controlled by a third party or parties who also control or have the power to control the applicant, or
- (iv) Has an "identity of interest" with the applicant.
- (2) Nature of control in determining affiliation.
- (i) Every business concern is considered to have one or more parties who directly or indirectly control or have the power to control it. Control may be affirmative or negative and it is immaterial whether it is exercised so long as the power to control exists.

Example for paragraph (d)(2)(i). An applicant owning 50 percent of the voting stock of another concern would

have negative power to control such concern since such party can block any action of the other stockholders. Also, the bylaws of a corporation may permit a stockholder with less than 50 percent of the voting stock to block any actions taken by the other stockholders in the other entity. Affiliation exists when the applicant has the power to control a concern while at the same time another person, or persons, are in control of the concern at the will of the party or parties with the power of control.

- (ii) Control can arise through stock ownership; occupancy of director, officer or key employee positions; contractual or other business relations; or combinations of these and other factors. A key employee is an employee who, because of his/her position in the concern, has a critical influence in or substantive control over the operations or management of the concern.
- (iii) Control can arise through management positions if the voting stock is so widely distributed that no effective control can be established.

Example for paragraph (d)(2)(iii). In a corporation where the officers and directors own various size blocks of stock totaling 40 percent of the corporation's voting stock, but no officer or director has a block sufficient to give him/her control or the power to control and the remaining 60 percent is widely distributed with no individual stockholder having a stock interest greater than 10 percent, management has the power to control. If persons with such management control of the other entity are controlling principals of the applicant, the other entity will be deemed an affiliate of the applicant.

- (3) Identity of interest between and among persons. Affiliation can arise between or among two or more persons with an identity of interest, such as members of the same family or persons with common investments. In determining if the applicant controls or is controlled by a concern, persons with an identity of interest will be treated as though they were one person.
- (i) Spousal affiliation. Both spouses are deemed to own or control or have the power to control interests owned or controlled by either of them, unless they are subject to a legal separation recognized by a court of competent jurisdiction in the United States.
- (ii) Kinship affiliation. Immediate family members will be presumed to own or control or have the power to control interests owned or controlled by other immediate family members. In this context "immediate family member" means father, mother, husband, wife, son, daughter, brother, sister, father- or mother-in-law, son- or daughter-in-law, brother- or sister-in-law, step-father, or -mother, step-brother, or -sister, step-son, or -daughter, half-brother or sister. This presumption may be rebutted by showing that:
- (A) The family members are estranged,
- (B) The family ties are remote, or
- (C) The family members are not closely involved with each other in business matters.

Example for paragraph (d)(3)(ii). A owns a controlling interest in Corporation X. A's sister-in-law, B, has a controlling interest in a paging geographic area authorization application. Because A and B have a presumptive kinship affiliation, A's interest in Corporation X is attributable to B, and thus to the applicant, unless B rebuts the presumption with the necessary showing.

- (4) Affiliation through stock ownership.
- (i) An applicant is presumed to control or have the power to control a concern if he/she owns or controls or has the power to control 50 percent or more of its voting stock.
- (ii) An applicant is presumed to control or have the power to control a concern even though he/she owns, controls, or has the power to control less than 50 percent of the concern's voting stock, if the block of stock he/she owns,

controls, or has the power to control is large as compared with any other outstanding block of stock.

- (iii) If two or more persons each owns, controls or has the power to control less than 50 percent of the voting stock of a concern, such minority holdings are equal or approximately equal in size, and the aggregate of these minority holdings is large as compared with any other stock holding, the presumption arises that each one of these persons individually controls or has the power to control the concern; however, such presumption may be rebutted by a showing that such control or power to control, in fact, does not exist.
- (5) Affiliation arising under stock options, convertible debentures, and agreements to merge. Stock options, convertible debentures, and agreements to merge (including agreements in principle) are generally considered to have a present effect on the power to control the concern. Therefore, in making a size determination, such options, debentures, and agreements will generally be treated as though the rights held thereunder had been exercised. However, neither an affiliate nor an applicant can use such options and debentures to appear to terminate its control over another concern before it actually does so.

Example 1 for paragraph (d)(5). If company B holds an option to purchase a controlling interest in company A, who holds a controlling interest in a paging geographic area authorization application, the situation is treated as though company B had exercised its rights and had become owner of a controlling interest in company A. The gross revenues of company B must be taken into account in determining the size of the applicant.

Example 2 for paragraph (d)(5). If a large company, BigCo, holds 70% (70 of 100 outstanding shares) of the voting stock of company A, who holds a controlling interest in a paging geographic area authorization application, and gives a third party, SmallCo, an option to purchase 50 of the 70 shares owned by BigCo, BigCo will be deemed to be an affiliate of company A, and thus the applicant, until SmallCo actually exercises its options to purchase such shares. In order to prevent BigCo from circumventing the intent of the rule which requires such options to be considered on a fully diluted basis, the option is not considered to have present effect in this case.

Example 3 for paragraph (d)(5). If company A has entered into an agreement to merge with company B in the future, the situation is treated as though the merger has taken place.

- (6) Affiliation under voting trusts.
- (i) Stock interests held in trust shall be deemed controlled by 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.
- (ii) If a trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the stock interests held in trust will be deemed controlled by the grantor or beneficiary, as appropriate.
- (iii) If the primary purpose of a voting trust, or similar agreement, is to separate voting power from beneficial ownership of voting stock for the purpose of shifting control of or the power to control a concern in order that such concern or another concern may meet the Commission's size standards, such voting trust shall not be considered valid for this purpose regardless of whether it is or is not recognized within the appropriate jurisdiction.
- (7) Affiliation through common management. Affiliation generally arises where officers, directors, or key employees serve as the majority or otherwise as the controlling element of the board of directors and/or the management of another entity.
- (8) Affiliation through common facilities. Affiliation generally arises where one concern shares office space and/or employees and/or other facilities with another concern, particularly where such concerns are in the same or related industry or field of operations, or where such concerns were formerly affiliated, and through these sharing arrangements one concern has control, or potential control, of the other concern.
- (9) Affiliation through contractual relationships. Affiliation generally arises where one concern is dependent upon

another concern for contracts and business to such a degree that one concern has control, or potential control, of the other concern.

- (10) Affiliation under joint venture arrangements.
- (i) A joint venture for size determination purposes is an association of concerns and/or individuals, with interests in any degree or proportion, formed by contract, express or implied, to engage in and carry out a single, specific business venture for joint profit for which purpose they combine their efforts, property, money, skill and knowledge, but not on a continuing or permanent basis for conducting business generally. The determination whether an entity is a joint venture is based upon the facts of the business operation, regardless of how the business operation may be designated by the parties involved. An agreement to share profits/losses proportionate to each party's contribution to the business operation is a significant factor in determining whether the business operation is a joint venture.
- (ii) The parties to a joint venture are considered to be affiliated with each other.
- (e) Controlling interest.
- (1) For purposes of this section, controlling interest includes individuals or entities with de jure and de facto control of the applicant. De jure control is greater than 50 percent of the voting stock of a corporation, or in the case of a partnership, the general partner. De facto control is determined on a case-by-case basis. An entity must disclose its equity interest and demonstrate at least the following indicia of control to establish that it retains de facto control of the applicant:
- (i) The entity constitutes or appoints more than 50 percent of the board of directors or management committee;
- (ii) The entity has authority to appoint, promote, demote, and fire senior executives that control the day-to-day activities of the licensee; and
- (iii) The entity plays an integral role in management decisions.
- (2) Calculation of certain interests.
- (i) Ownership interests shall be calculated on a fully diluted basis; all agreements such as warrants, stock options and convertible debentures will generally be treated as if the rights thereunder already have been fully exercised.
- (ii) Partnership and other ownership interests and any stock interest equity, or outstanding stock, or outstanding voting stock shall be attributed as specified below.
- (iii) 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.
- (iv) Non-voting stock shall be attributed as an interest in the issuing entity.
- (v) Limited partnership interests shall be attributed to limited partners and shall be calculated according to both the percentage of equity paid in and the percentage of distribution of profits and losses.
- (vi) Officers and directors of an entity shall be considered to have an attributable interest in the entity. The officers and directors of an entity that controls a licensee or applicant shall be considered to have an attributable interest in the licensee or applicant.

- (vii) Ownership interests 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 if the ownership percentage for an interest in any link in the chain exceeds 50 percent or represents actual control, it shall be treated as if it were a 100 percent interest.
- (viii) Any person who manages the operations of an applicant or licensee pursuant to a management agreement shall be considered to have an attributable interest in such applicant or licensee if such person or its affiliate pursuant to paragraph (d) of this section has authority to make decisions or otherwise engage in practices or activities that determine, or significantly influence,
- (A) The nature or types of services offered by such an applicant or licensee;
- (B) The terms upon which such services are offered; or
- (C) The prices charged for such services.
- (ix) Any licensee or its affiliate who enters into a joint marketing arrangement with an applicant or licensee, or its affiliate, shall be considered to have an attributable interest, if such applicant or licensee, or its affiliate, has authority to make decisions or otherwise engage in practices or activities that determine, or significantly influence,
- (A) The nature or types of services offered by such an applicant or licensee;
- (B) The terms upon which such services are offered; or
- (C) The prices charged for such services.
- § 22.225 Certifications, disclosures, records maintenance and audits.
- (a) Short-form applications: certifications and disclosure. In addition to certifications and disclosures required by part 1, subpart Q, of this chapter, each applicant for a paging license which qualifies as a small business or consortium of small businesses shall append the following information as an exhibit to its FCC Form 175:
- (1) The identity of the applicant's controlling interests and affiliates, and, if a consortium of small businesses, the members of the joint venture; and
- (2) The applicant's gross revenues, computed in accordance with § 22.223.
- (b) Long form applications: certifications and disclosure. Each applicant submitting a long-form application for a paging geographic area authorization and qualifying as a small business shall, in an exhibit to its long-form application:
- (1) Disclose separately and in the aggregate the gross revenues, computed in accordance with § 22.223, for each of the following: the applicant, the applicant's affiliates, the applicant's controlling interests, and, if a consortium of small businesses, the members of the joint venture;
- (2) List and summarize all agreements or other instruments (with appropriate references to specific provisions in the text of such agreements and instruments) that support the applicant's eligibility as a small business under §§ 22.217 through 22.223, including the establishment of de facto and de jure control; such agreements and instruments include, but are not limited to, articles of incorporation and bylaws, shareholder agreements, voting or other trust agreements, franchise agreements, and any other relevant agreements, including letters of intent, oral or written; and

- (3) List and summarize any investor protection agreements, including rights of first refusal, supermajority clauses, options, veto rights, and rights to hire and fire employees and to appoint members to boards of directors or management committees.
- (c) Records maintenance. All winning bidders qualifying as small businesses shall maintain at their principal place of business an updated file of ownership, revenue, and asset information, including any documents necessary to establish eligibility as a small business and/or consortium of small businesses under § 22.223. Licensees (and their successors-in-interest) shall maintain such files for the term of the license. Applicants that do not obtain the license(s) for which they applied shall maintain such files until the grant of such license(s) is final, or one year from the date of the filing of their short-form application (FCC Form 175), whichever is earlier.

#### (d) Audits.

- (1) Applicants and licensees claiming eligibility as a small business or consortium of small businesses under §§ 22.217 through 22.223 shall be subject to audits by the Commission. Selection for audit may be random, on information, or on the basis of other factors.
- (2) Consent to such audits is part of the certification included in the short- form application (FCC Form 175). Such consent shall include consent to the audit of the applicant's or licensee's books, documents and other material (including accounting procedures and practices) regardless of form or type, sufficient to confirm that such applicant's or licensee's representations are, and remain, accurate. Such consent shall include inspection at all reasonable times of the facilities, or parts thereof, engaged in providing and transacting business, or keeping records regarding licensed paging service and shall also include consent to the interview of principals, employees, customers and suppliers of the applicant or licensee.
- (e) Definitions. The terms affiliate, small business, consortium of small businesses, gross revenues, and controlling interest used in this section are defined in § 22.223.
- § 22.227 Petitions to deny and limitations on settlements.
- (a) Procedures regarding petitions to deny long-form applications in the paging service will be governed by §§ 1.2108(b) through 1.2108(d) of this chapter, § 22.130, and § 90.163.
- (b) The consideration that an individual or an entity will be permitted to receive for agreeing to withdraw an application or a petition to deny will be limited by the provisions set forth in § 22.129, § 90.162, and § 1.2105(c) of this chapter.

# PART 22--PUBLIC MOBILE SERVICES SUBPART C—OPERATIONAL AND TECHNICAL REQUIREMENTS

# § 22.301 Station inspection.

Upon reasonable request, the licensee of any station authorized in the Public Mobile Services must make the station and station records available for inspection by authorized representatives of the Commission at any reasonable hour.

#### § 22.303 Retention of station authorizations; identifying transmitters.

The current authorization for each station, together with current administrative and technical information concerning modifications to facilities pursuant to § 22.163 and added facilities pursuant to § 22.165 must be

retained as a permanent part of the station records. A clearly legible photocopy of the authorization must be available at each regularly attended control point of the station, or in lieu of this photocopy, licensees may instead make available at each regularly attended control point the address or location where the licensee's current authorization and other records may be found. The station call sign must be clearly and legibly marked on or near every transmitting facility, other than mobile transmitters, of the station.

## § 22.305 Operator and maintenance requirements.

FCC operator permits and licenses are not required to operate, repair or maintain equipment authorized in the Public Mobile Services. Station licensees are responsible for the proper operation and maintenance of their stations, and for compliance with FCC rules.

# § 22.307 Operation during emergency.

Licensees of stations in the Public Mobile services may, during a period of emergency in which normal communications facilities are disrupted as a result of hurricane, flood, earthquake or other natural disaster, civil unrest, widespread vandalism, national emergencies or emergencies declared by Executive Order of the President, use their stations to temporarily provide emergency communications services in a manner or configuration not normally allowed by this part, provided that such operations comply with the provisions of this section.

- (a) Technical limitations. Public Mobile stations providing temporary emergency communications service must not transmit:
- (1) On channels other than those authorized for normal operations.
- (2) With power in excess of that authorized for normal operations;
- (3) Emission types other than those authorized for normal operations.
- (b) Discontinuance. Temporary emergency use of Public Mobile stations must be discontinued as soon as normal communication facilities are restored. The FCC may, at any time, order the discontinuance of any such emergency communication services.

## § 22.313 Station identification.

The licensee of each station in the Public Mobile Services must ensure that the transmissions of that station are identified in accordance with the requirements of this section.

- (a) Station identification is not required for transmission by:
- (1) Stations in the Cellular Radiotelephone Service;
- (2) General aviation ground stations in the Air-ground Radiotelephone Service;
- (3) Rural subscriber stations using meteor burst propagation mode communications in the Rural Radiotelephone Service;
- (4) Stations using Basic Exchange Telephone Radio Systems in the Rural Radiotelephone Service;
- (5) Nationwide network paging stations operating on 931 MHz channels; or,

- (6) Stations operating pursuant to paging geographic area authorizations.
- (b) For all other stations in the Public Mobile Services, station identification must be transmitted each hour within five minutes of the hour, or upon completion of the first transmission after the hour. Transmission of station identification may be temporarily delayed to avoid interrupting the continuity of any public communication in progress, provided that station identification is transmitted at the conclusion of that public communication.
- (c) Station identification must be transmitted by telephony using the English language or by telegraphy using the international Morse code, and in a form that can be received using equipment appropriate for the modulation type employed, and understood without the use of unscrambling devices, except that, alternatively, station identification may be transmitted digitally, provided that the licensee provides the Commission with information sufficient to decode the digital transmission to ascertain the call sign. Station identification comprises transmission of the call sign assigned by the Commission to the station, however, the following may be used in lieu of the call sign.
- (1) For transmission from subscriber operated transmitters, the telephone number or other designation assigned by the carrier, provided that a written record of such designations is maintained by the carrier;
- (2) For general aviation airborne mobile stations in the Air-Ground Radiotelephone Service, the official FAA registration number of the aircraft;
- (3) For stations in the Paging and Radiotelephone Service, a call sign assigned to another station within the same system.

#### § 22.317 Discontinuance of station operation.

If the operation of a Public Mobile Services station is permanently discontinued, the licensee shall send authorization for cancellation by electronic filing via the ULS on FCC Form 601. For purposes of this section, any station that has not provided service to subscribers for 90 continuous days is considered to have been permanently discontinued, unless the applicant notified the FCC otherwise prior to the end of the 90 day period and provided a date on which operation will resume, which date must not be in excess of 30 additional days.

# § 22.321 Equal employment opportunities.

Public Mobile Services licensees shall afford equal opportunity in employment to all qualified persons, and personnel must not be discriminated against in employment because of sex, race, color, religion, or national origin.

- (a) Equal employment opportunity program. Each licensee shall establish, maintain, and carry out a positive continuing program of specific practices designed to assure equal opportunity in every aspect of employment policy and practice.
- (1) Under the terms of its program, each licensee shall:
- (i) Define the responsibility of each level of management to insure a positive application and vigorous enforcement of the policy of equal opportunity, and establish a procedure to review and control managerial and supervisory performance.
- (ii) Inform its employees and recognized employee organizations of the positive equal employment opportunity policy and program and enlist their cooperation.
- (iii) Communicate its equal employment opportunity policy and program and its employment needs to sources of qualified applicants without regard to sex, race, color, religion or national origin, and solicit their recruitment assistance on a continuing basis.

- (iv) Conduct a continuing campaign to exclude every form of prejudice or discrimination based upon sex, race, color, religion, or national origin, from the licensee's personnel policies and practices and working conditions.
- (v) Conduct a continuing review of job structure and employment practices and adopt positive recruitment, training, job design and other measures needed in order to ensure genuine equality of opportunity to participate fully in all organizational units, occupations and levels of responsibility.
- (2) The program must reasonably address specific concerns through policies and actions as set forth in this paragraph, to the extent that they are appropriate in consideration of licensee size, location and other factors.
- (i) To assure nondiscrimination in recruiting.
- (A) Posting notices in the licensee's offices informing applicants for employment of their equal employment rights and their right to notify the Equal Employment Opportunity Commission (EEOC), the Federal Communications Commission (FCC), or other appropriate agency. Where a substantial number of applicants are Spanish-surnamed Americans, such notice should be posted in both Spanish and English.
- (B) Placing a notice in bold type on the employment application informing prospective employees that discrimination because of sex, race, color, religion or national origin is prohibited, and that they may notify the EEOC, the FCC or other appropriate agency if they believe they have been discriminated against.
- (C) Placing employment advertisements in media which have significant circulation among minority groups in the recruiting area.
- (D) Recruiting through schools and colleges with significant minority group enrollments.
- (E) Maintaining systematic contacts with minority and human relations organizations, leaders and spokespersons to encourage referral of qualified minority or female applicants.
- (F) Encouraging present employees to refer minority or female applicants.
- (G) Making known to the appropriate recruitment sources in the employer's immediate area that qualified minority members are being sought for consideration whenever the licensee hires.
- (ii) To assure nondiscrimination in selection and hiring.
- (A) Instructing employees of the licensee who make hiring decisions that all applicants for all jobs are to be considered without discrimination.
- (B) Where union agreements exist, cooperating with the union or unions in the development of programs to assure qualified minority persons or females of equal opportunity for employment, and including an effective nondiscrimination clause in new or renegotiated union agreements.
- (C) Avoiding use of selection techniques or tests that have the effect of discriminating against minority groups or females.
- (iii) To assure nondiscriminatory placement and promotion.
- (A) Instructing employees of the licensee who make decisions on placement and promotion that minority employees and females are to be considered without discrimination, and that job areas in which there is little or no minority or female representation should be reviewed to determine whether this results from discrimination.
- (B) Giving minority groups and female employees equal opportunity for positions which lead to higher positions. Inquiring as to the interest and skills of all lower-paid employees with respect to any of the higher-paid positions,

followed by assistance, counseling, and effective measures to enable employees with interest and potential to qualify themselves for such positions.

- (C) Reviewing seniority practices to insure that such practices are nondiscriminatory and do not have a discriminatory effect.
- (D) Avoiding use of selection techniques or tests that have the effect of discriminating against minority groups or females.
- (iv) To assure nondiscrimination in other areas of employment practices.
- (A) Examining rates of pay and fringe benefits for present employees with equivalent duties and adjusting any inequities found.
- (B) Providing opportunity to perform overtime work on a basis that does not discriminate against qualified minority groups or female employees.
- (b) EEO statement. Each licensee having 16 or more full-time employees shall file with the FCC, no later than May 31st following the grant of that licensee's first Public Mobile Services authorization, a statement describing fully its current equal employment opportunity program, indicating specific practices to be followed in order to assure equal employment opportunity on the basis of sex, race, color, religion or national origin in such aspects of employment practices as regards recruitment, selection, training, placement, promotion, pay, working conditions, demotion, layoff and termination. Any licensee having 16 or more full-time employees that changes its existing equal employment opportunity program shall file with the FCC, no later than May 31st thereafter, a revised statement reflecting the change(s).

Note to paragraph (b) of § 22.321: Licensees having 16 or more full-time employees that were granted their first Public Mobile Services authorization prior to January 1, 1995, and do not have a current EEO statement on file with the FCC, must file such statement, required by paragraph (b) of this section, no later than May 31, 1995.

- (c) Report of complaints filed against licensees. Each licensee, regardless of how many employees it has, shall submit an annual report to the FCC no later than May 31st of each year indicating whether any complaints regarding violations by the licensee or equal employment provisions of Federal, State, Territorial, or local law have been filed before anybody having competent jurisdiction.
- (1) The report should state the parties involved, the date filing, the courts or agencies before which the matters have been heard, the appropriate file number (if any), and the respective disposition or current status of any such complaints.
- (2) Any licensee who has filed such information with the EEOC may file a notification of such filing with the FCC in lieu of a report.
- (d) Complaints of violations of Equal Employment Programs. Complaints alleging employment discrimination against a common carrier licensee are considered by the FCC in the following manner:
- (1) If a complaint raising an issue of discrimination is received against a licensee who is within the jurisdiction of the EEOC, it is submitted to that agency. The FCC maintains a liaison with that agency that keeps the FCC informed of the disposition of complaints filed against common carrier licensees.
- (2) Complaints alleging employment discrimination against a common carrier licensee who does not fall under the jurisdiction of the EEOC but is covered by appropriate enforceable State law, to which penalties apply, may be submitted by the FCC to the respective State agency.
- (3) Complaints alleging employment discrimination against a common carrier licensee who does not fall under the

jurisdiction of the EEOC or an appropriate State law, are accorded appropriate treatment by the FCC.

- (4) The FCC will consult with the EEOC on all matters relating to the evaluation and determination of compliance by the common carrier licensees with the principles of equal employment as set forth herein.
- (5) Complaints indicating a general pattern of disregard of equal employment practices which are received against a licensee that is required to file an employment report to the FCC under § 1.815(a) of this chapter are investigated by the FCC.
- (e) FCC records. A copy of every annual employment report, equal employment opportunity program statement, reports on complaints regarding violation of equal employment provisions of Federal, State, Territorial, or local law, and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference, are open for public inspection at the offices of the FCC.
- (f) Licensee records. Each licensee required to file annual employment reports (pursuant to § 1.815(a) of this chapter), equal employment opportunity program statements, and annual reports on complaints regarding violations of equal employment provisions of Federal, State, Territorial, or local law shall maintain for public inspection a file containing a copy of each such report and copies of all exhibits, letters, and other documents filed as part thereto, all correspondence between the licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference. The documents must be retained for a period of 2 years.

#### § 22.323 Incidental communication services.

Carriers authorized to operate stations in the Public Mobile radio services may use these stations to provide other communications services incidental to the primary public mobile service for which the authorizations were issued, provided that:

- (a) The costs and charges of subscribers who do not wish to use incidental services are not increased as a result of provision of incidental services to other subscribers;
- (b) The quality of the primary public mobile service does not materially deteriorate as a result of provision of incidental services, and neither growth nor availability of the primary public mobile service is significantly diminished as a result of provision of incidental services;
- (c) The provision of the incidental services is not inconsistent with the Communications Act of 1934, as amended, or with FCC rules and policies; and
- (d) The licensee notifies the Commission using FCC Form 601 before providing the incidental services. This notification must include a complete description of the incidental services.

## § 22.325 Control points.

Each station in the Public Mobile Services must have at least one control point and a person on duty who is responsible for station operation. This section does not require that the person on duty be at the control point or continuously monitor all transmissions of the station. However, the control point must have facilities that enable the person on duty to turn off the transmitters in the event of a malfunction.

## § 22.351 Channel assignment policy.

The channels allocated for use in the Public Mobile Services are listed in the applicable subparts of this part.

Channels and channel blocks are assigned in such a manner as to facilitate the rendition of service on an interference-free basis in each service area. Except as otherwise provided in this part, each channel or channel block is assigned exclusively to one common carrier in each service area. All applicants for, and licensees of, stations in the Public Mobile Services shall cooperate in the selection and use of channels in order to minimize interference and obtain the most efficient use of the allocated spectrum.

#### § 22.352 Protection from interference.

Public Mobile Service stations operating in accordance with FCC rules that provide technical channel assignment criteria for the radio service and channels involved, all other 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 that significantly interrupts or degrades a radio service is being caused, it may, in accordance with the provisions of sections 303(f) and 316 of the Communications Act of 1934, as amended, (47 U.S.C. 303(f), 316), require modifications to any Public Mobile 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) Inteference 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.
- (6) Facilities for which the Commission is not notified. No protection is provided against interference to the service of any additional or modified transmitter operating pursuant to §§ 1.929 or 22.165, unless and until the licensee modifies its authorization using FCC Form 601.
- (7) In-building radiation systems. No protection is provided against interference to the service of in-building radiation systems (see § 22.383).

# § 22.353 Blanketing interference.

Licensees of Public Mobile Services stations are responsible for resolving cases of blanketing interference in accordance with the provisions of this section.

(a) Except as provided in paragraph (c) of this section, licensees must resolve any cases of blanketing interference in their area of responsibility caused by operation of their transmitter(s) during a one-year period following

commencement of service from new or modified transmitter(s). Interference must be resolved promptly at no cost to the complainant.

(b) The area of responsibility is that area in the immediate vicinity of the transmitting antenna of stations where the field strength of the electromagnetic radiation from such stations equals or exceeds 115 dBMUV/m. To determine the radial distance to the boundary of this area, the following formula must be used:

$$d = 0.394 \text{ x } \sqrt{p}$$

where d is the radial distance to the boundary, in kilometers

p is the radial effective radiated power, in kilowatts

The maximum effective radiated power in the pertinent direction, without consideration of the antenna's vertical radiation pattern or height, must be used in the formula.

- (c) Licensees are not required to resolve blanketing interference to mobile receivers or non-RF devices or blanketing interference occurring as a result of malfunctioning or mistuned receivers, improperly installed consumer antenna systems, or the use of high gain antennas or antenna booster amplifiers by consumers.
- (d) Licensees that install transmitting antennas at a location where there are already one or more transmitting antennas are responsible for resolving any new cases of blanketing interference in accordance with this section.
- (e) Two or more licensees that concurrently install transmitting antennas at the same location are jointly responsible for resolving blanketing interference cases, unless the FCC can readily determine which station is causing the interference, in which case the licensee of that station is held fully responsible.
- (f) After the one year period of responsibility to resolve blanketing interference, licensees must provide upon request technical information to complainants on remedies for blanketing interference.

## § 22.355 Frequency tolerance.

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1.--Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	(ppm)	Mobile <=3 watts (ppm)	watts (ppm)
25 to 50		20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

§ 22.357 Emission types.

Any authorized station in the Public Mobile Services may transmit any emission type provided that the resulting emission complies with the appropriate emission mask. See §§ 22.359, 22.861 and 22.917.

#### § 22.359 Emission masks.

Unless otherwise indicated in the rules governing a specific radio service, all transmitters intended for use in the Public Mobile Services must be designed to comply with the emission masks outlined in this section. If an emission outside of the authorized bandwidth causes harmful interference, the FCC may, at its discretion, require greater attenuation than specified in this section.

- (a) Analog modulation. For transmitters other than those employing digital modulation techniques, the mean or peak envelope power of adjacent channel emissions must be attenuated below the output mean or peak envelope power of the total emission (P, in Watts) in accordance with the following schedule:
- (1) On any frequency removed from the center frequency of the assigned channel by more than 50 percent up to and including 100 percent of the authorized bandwidth:

at least 25 dB:

(2) On any frequency removed from the center frequency of the assigned channel by more than 100 percent up to and including 250 percent of the authorized bandwidth:

at least 35 dB:

(3) On any frequency removed from the center frequency of the assigned channel by more than 250 percent of the authorized bandwidth:

at least 43 + 10 log P dB, or 80 dB, whichever is the lesser attenuation.

- (b) Digital modulation. For transmitters not equipped with an audio low pass filter and for transmitters employing digital modulation techniques, the mean or peak envelope power of sideband emissions must be attenuated below the mean or peak envelope power of the total emission (P, in Watts) in accordance with the following schedule:
- (1) For transmitters that operate in the frequency ranges 35 to 44 MHz, 72 to 73 MHz, 75.4 to 76.0 MHz and 152 to 159 MHz,
- (i) On any frequency removed from the center frequency of the assigned channel by a displacement frequency  $f_d$  (in kHz) of more than 5 kHz but not more than 10 kHz:

at least 83 log  $(f_d/5)$  dB;

(ii) On any frequency removed from the center frequency of the assigned channel by a displacement frequency  $f_d$  (in kHz) of more than 10 kHz but not more than 250 percent of the authorized bandwidth:

at least 29 log  $f_d2$  /11) dB or 50 dB, whichever is the lesser attenuation;

(iii) On any frequency removed from the center frequency of the assigned channel by more than 250 percent of the authorized bandwidth:

at least 43 + 10 log P dB, or 80 dB, whichever is the lesser attenuation.

- (2) For transmitters that operate in the frequency ranges 450 to 512 MHz and 929 to 932 MHz,
- (i) On any frequency removed from the center frequency of the assigned channel by a displacement frequency  $f_d$  (in kHz) of more than 5 kHz but not more than 10 kHz:

at least 83 log ( $f_d$  /5) dB;

(ii) On any frequency removed from the center frequency of the assigned channel by a displacement frequency  $f_d$  (in kHz) of more than 10 kHz but not more than 250 percent of the authorized bandwidth:

at least 116 log (f<sub>d</sub> /6.1) dB, or 50 + 10 log P dB, or 70 dB, whichever is the lesser attenuation;

(iii) On any frequency removed from the center frequency of the assigned channel by more than 250 percent of the authorized bandwidth:

at least 43 + 10 log P dB, or 80 dB, whichever is the lesser attenuation.

(c) Measurement procedure. Either peak or average power may be used, provided that the same technique is used for both the adjacent channel or sideband emissions and the total emission. The resolution bandwidth of the measuring instrument must be set to 300 Hz for measurements on any frequency removed from the center frequency of the assigned channel by no more than 250 percent of the authorized bandwidth and 30 kHz for measurements on any frequency removed from the center frequency of the assigned channel by more than 250 percent of the authorized bandwidth.

# § 22.361 Standby facilities.

Licensees of stations in the Public Mobile Services may install standby transmitters for the purpose of continuing service in the event of failure or during required maintenance of regular transmitters without obtaining separate authorization, provided that operation of the standby transmitters would not increase the service areas or interference potential of the stations, and that such standby transmitters use the same antenna as the regular transmitters they temporarily replace.

Table C-2.--Technical Requirements for Directional Antennas

Frequency range	Maximum beamwidth	Suppression	
35 to 512 MHz	80°	10 dB	
	20°		
1500 to 2500 MHz	12°	13 dB	

#### § 22.363 Directional antennas.

Fixed transmitters for point-to-point operation must use a directional transmitting antenna with the major lobe of radiation in the horizontal plane directed toward the receiving antenna or passive reflector of the station for which the transmissions are intended. Directional antennas used in the Public Mobile Services must meet the technical requirements given in Table C-2 to § 22.361.

(a) Maximum beamwidth is for the major lobe at the half power points.

- (b) Suppression is the minimum attenuation for any secondary lobe referenced to the main lobe.
- (c) An omnidirectional antenna may be used for fixed transmitters where there are two or more receive locations at different azimuths.
- § 22.365 Antenna structures; air navigation safety.

Licensees that own their antenna structures must not allow these antenna structures to become a hazard to air navigation. In general, antenna structure owners are responsible for registering antenna structures with the FCC if required by part 17 of this chapter, and for installing and maintaining any required marking and lighting. However, in the event of default of this responsibility by an antenna structure owner, each FCC permittee or licensee authorized to use an affected antenna structure will be held responsible by the FCC for ensuring that the antenna structure continues to meet the requirements of part 17 of this chapter. See § 17.6 of this chapter.

- (a) Marking and lighting. Antenna structures must be marked, lighted and maintained in accordance with Part 17 of this chapter and all applicable rules and requirements of the Federal Aviation Administration.
- (b) Maintenance contracts. Antenna structure owners (or licensees and permittees, in the event of default by an antenna structure owner) may enter into contracts with other entities to monitor and carry out necessary maintenance of antenna structures. Antenna structure owners (or licensees and permittees, in the event of default by an antenna structure owner) that make such contractual arrangements continue to be responsible for the maintenance of antenna structures in regard to air navigation safety.

### § 22.367 Wave polarization.

Public mobile station antennas must be of the correct type and properly installed such that the electromagnetic emissions have the polarization required by this section.

- (a) Vertical. Waves radiated by the following must be vertically polarized:
- (1) Base, mobile, dispatch, and auxiliary test transmitters in the Paging and Radiotelephone Service;
- (2) Transmitters in the Offshore Radiotelephone Service;
- (3) Transmitters on channels in the 72-76 MHz frequency range;
- (4) Base, mobile and auxiliary test transmitters in the Cellular Radiotelephone Service;
- (5) Control and repeater transmitters on channels in the 900-960 MHz frequency range;
- (6) Rural subscriber stations communicating with base transmitters in the Paging and Radiotelephone Service pursuant to § 22.563.
- (7) Ground and airborne mobile transmitters in the Air-ground Radiotelephone Service.
- (b) Horizontal. Waves radiated by transmitters in the Public Mobile Services, other than transmitters required by paragraph (a) of this section to radiate a vertically polarized wave must be horizontally polarized, except as otherwise provided in paragraphs (c) and (d) of this section.
- (c) Circular. If communications efficiency would be improved and/or interference reduced, the FCC may authorize transmitters other than those listed in paragraphs (a)(1) through (a)(7) of this section to radiate a circularly polarized wave.

(d) Any polarization. Public Land Mobile stations transmitting on channels higher than 960 MHz are not limited as to wave polarization.

## § 22.371 Disturbance of AM broadcast station antenna patterns.

Public Mobile Service 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 Public Mobile Service 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 affected the AM station antenna pattern. The Public Mobile Service 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 Public Mobile Service 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 affected the AM station antenna pattern. The Public Mobile Service licensee is responsible for the installation and continued maintenance of any detuning apparatus necessary to restore proper performance of the AM station array.

#### § 22.373 Access to transmitters.

Unless otherwise provided in this part, the design and installation of transmitters in the Public Mobile Services must meet the requirements of this section.

- (a) Transmitters and control points, other than those used with in-building radiation systems, must be installed such that they are readily accessible only to persons authorized by the licensee to operate or service them.
- (b) Transmitters must be designed and installed such that any adjustments or controls that could cause the transmitter to deviate from its authorized operating parameters are readily accessible only to persons authorized by the licensee to make such adjustments.
- (c) Transmitters (other than hand-carried or pack-carried mobile transmitters) and control points must be equipped with a means of indicating when the control circuitry has been put in a condition that should cause the transmitter to radiate.
- (d) Transmitters must be designed such that they can be turned off independently of any remote control circuits.
- (e) Transmitters used with in-building radiation systems must be installed such that, to the extent possible, they are readily accessible only to persons authorized by the licensee to access them.
- (f) Transmitters used with in-building radiation systems must be designed such that, in the event an unauthorized person does gain access, that person can not cause the transmitter to deviate from its authorized operating parameters in such a way as to cause interference to other stations.

#### § 22.377 Certification of transmitters.

Except as provided in paragraph (b) of this section, transmitters used in the Public Mobile Services, including those used with signal boosters, in-building radiation systems and cellular repeaters, must be certificated for use in the radio services regulated under this part. Transmitters must be type accepted when the station is ready for service, not necessarily at the time of filing an application.

- (a) The FCC may list as certificated only transmitters that are capable of meeting all technical requirements of the rules governing the service in which they will operate. The procedure for obtaining certification is set forth in part 2 of this chapter.
- (b) Transmitters operating under a developmental authorization (see subpart D of this part) do not have to be certificated.
- (c) In addition to the technical standards contained in this part, transmitters intended for operation in the Cellular Radiotelephone Service must be designed to comply with the technical requirements contained in the cellular system compatibility specification (see § 22.933) and the electronic serial number rule (see § 22.919).

## § 22.379 Replacement of equipment.

Licensees may replace any equipment in Public Mobile Service stations without applying for authorization or notifying the FCC, provided that:

- (a) If a transmitter is replaced, the replacement transmitter must be certificated for use in the Public Mobile Services:
- (b) The antenna structure must not become a hazard to air navigation and its height must not be not increased;
- (c) The interference potential of the station must not be increased;
- (d) The Effective radiated power, emission type, antenna radiation pattern and center of radiation height above average terrain are not changed.

# § 22.381 Auxiliary test transmitters.

Auxiliary test transmitters may be used only for testing the performance of fixed receiving equipment located remotely from the control point. Auxiliary test transmitters may transmit only on channels designated for mobile transmitters.

## § 22.383 In-building radiation systems.

Licensees may install and operate in-building radiation systems without applying for authorization or notifying the FCC, provided that the locations of the in-building radiation systems are within the protected service area of the licensee's authorized transmitter(s) on the same channel or channel block.

# PART 22--PUBLIC MOBILE SERVICES SUBPART E—PAGING AND RADIOTELEPHONE SERVICE

# § 22.501 Scope.

The rules in this subpart govern the licensing and operation of public mobile paging and radiotelephone stations. The licensing and operation of these stations are also subject to rules elsewhere in this part that apply generally to the Public Mobile Services. However, in case of conflict, the rules in this subpart govern.

## § 22.503 Paging geographic area authorizations.

The FCC considers applications for and issues paging geographic area authorizations in the Paging and Radiotelephone Service in accordance with the rules in this section. Each paging geographic area authorization contains conditions requiring compliance with paragraphs (h) and (i) of this section.

- (a) Channels. The FCC may issue a paging geographic area authorization for any channel listed in § 22.531 of this part or for any channel pair listed in § 22.561 of this part.
- (b) Paging geographic areas. The paging geographic areas are as follows:
- (1) The Nationwide paging geographic area comprises the District of Columbia and all States, Territories and possessions of the United States of America.
- (2) Major Economic Areas (MEAs) and Economic Areas (EAs) are defined below. EAs are defined by the Department of Commerce, Bureau of Economic Analysis. See Final Redefinition of the MEA Economic Areas, 60 FR 13114 (March 10, 1995). MEAs are based on EAs. In addition to the Department of Commerce's 172 EAs, the FCC shall separately license Guam and the Northern Mariana Islands, Puerto Rico and the United States Virgin Islands, and American Samoa, which have been assigned FCC-created EA numbers 173-175, respectively, and MEA numbers 49-51, respectively.
- (3) The 51 MEAs are composed of one or more EAs as defined in the table below:

MEAs	EAs
1 (Boston)	1-3
2 (New York City)	4-7, 10
3 (Buffalo)	8
4 (Philadelphia)	11-12
5 (Washington)	13-14
6 (Richmond)	15-17, 20
7 (Charlotte-Greensboro-Greenville-Raleigh)	18-19, 21-26, 41-42, 46
8 (Atlanta)	27-28, 37-40, 43
9 (Jacksonville)	29, 35
10 (Tampa-St. Petersburg- Orlando)	30, 33-34
11 (Miami)	31-32
12 (Pittsburgh)	9, 52-53
13 (Cincinnati-Dayton)	48-50
14 (Columbus)	51
15 (Cleveland)	54-55
16 (Detroit)	56-58, 61-62
17 (Milwaukee)	59-60, 63, 104-105, 108

18 (Chicago)	64-66, 68, 97, 101
19 (Indianapolis)	67
20 (Minneapolis-St. Paul)	106-107, 109-114, 116
21 (Des Moines-Quad Cities)	100, 102-103, 117
22 (Knoxville)	44-45
23 (Louisville-Lexington-Evansville)	47, 69-70, 72
24 (Birmingham)	36, 74, 78-79
25 (Nashville)	71
26 (Memphis-Jackson)	73, 75-77
27 (New Orleans-Baton Rouge)	80-85
28 (Little Rock)	90-92, 95
29 (Kansas City)	93, 99, 123
30 (St. Louis)	94, 96, 98
31 (Houston)	86-87, 131
32 (Dallas-Fort Worth)	88-89, 127-130, 135, 137-138
33 (Denver)	115, 140-143
34 (Omaha)	118-121
35 (Wichita)	122
36 (Tulsa)	124
37 (Oklahoma City)	125-126
38 (San Antonio)	132-134
39 (El Paso-Albuquerque)	136, 139, 155-157
40 (Phoenix)	154, 158-159
41 (Spokane-Billings)	144-147, 168
42 (Salt Lake City)	148-150, 152
43 (San Francisco-Oakland-San Jose)	151, 162-165
44 (Los Angeles-San Diego)	153, 160-161
45 (Portland)	166-167
46 (Seattle)	169-170
47 (Alaska)	171
48 (Hawaii)	172
49 (Guam and the Northern Mariana Islands)	173

50 (Puerto Rico and U.S. Virgin Islands)	174
51 (American Samoa)	175

- (c) Availability. The FCC may determine whether to issue a paging geographic area authorization for any specific channel or channel pair in any specific paging geographic area. The FCC may replace existing site specific authorizations for facilities on a channel or channel pair located in a paging geographic area with a paging geographic area authorization for that channel or channel pair, if in its sole discretion, the FCC determines that the public interest would be served by such replacement.
- (d) Filing windows. The FCC accepts applications for paging geographic area authorizations only during filing windows. The FCC issues Public Notices announcing in advance the dates of the filing windows, and the specific paging geographic areas and channels for which applications may be accepted.
- (e) One grant per geographic area. The FCC may grant one and only one application for a paging geographic area authorization for any specific channel or channel pair in any specific paging geographic area defined in paragraph (b) of this section. Selection from among mutually exclusive applications for a paging geographic area authorization will be made in accordance with the procedures in §§ 22.131 and 22.200 through 22.299. If after the selection process but prior to filing a "long form" application, a successful bidder decides to partition the paging geographic area, the FCC may require and accept multiple "long form" applications from the consortium members.
- (f) Exclusive right to expand. During the term of a paging geographic area authorization, the FCC does not accept, from anyone other than the paging geographic area licensee, any major application for authorization to operate a facility that would serve unserved area within the paging geographic area specified in that paging geographic area authorization, on the channel specified in that paging geographic area authorization, unless any extension of the interfering contour of the proposed facility falls:
- (1) Within the composite interfering contour of another licensee; or,
- (2) Into unserved area and the paging geographic area licensee consents to such extension.
- (g) Subsequent applications not accepted. During the term of a paging geographic area authorization, the FCC does not accept any application for authorization relating to a facility that is or would be located within the paging geographic area specified in that paging geographic area authorization, on the channel specified in that paging geographic area authorization, except in the following situations:
- (1) FCC grant of an application authorizing the construction of the facility could have a significant environmental effect as defined by § 1.1307 of this chapter. See § 22.115(a)(5).
- (2) Specific international coordination procedures are required, prior to assignment of a channel to the facility, pursuant to a treaty or other agreement between the United States government and the government of Canada or Mexico. See § 22.169.
- (3) The paging geographic area licensee or another licensee of a system within the paging geographic area applies to assign its authorization or for FCC consent to a transfer of control.
- (h) Adjacent geographic area coordination required. Before constructing a facility for which the interfering contour (as defined in § 22.537 or § 22.567 of this part, as appropriate for the channel involved) would extend into another paging geographic area, a paging geographic area licensee must obtain the consent of the relevant co-channel paging geographic area licensee, if any, into whose area the interfering contour would extend. Licensees are expected to cooperate fully and in good faith attempt to resolve potential interference problems before bringing matters to the FCC. In the event that there is no co-channel paging geographic area licensee from whom

to obtain consent in the area into which the interfering contour would extend, the facility may be constructed and operated subject to the condition that, at such time as the FCC issues a paging geographic area authorization for that adjacent geographic area, either consent must be obtained or the facility modified or eliminated such that the interfering contour no longer extends into the adjacent geographic area.

- (i) Protection of existing service. All facilities constructed and operated pursuant to a paging geographic area authorization must provide co-channel interference protection in accordance with § 22.537 or § 22.567, as appropriate for the channel involved, to all authorized co-channel facilities of exclusive licensees within the paging geographic area. Non-exclusive licensees on the thirty-five exclusive 929 MHz channels are not entitled to exclusive status, and will continue to operate under the sharing arrangements established with the exclusive licensees and other non-exclusive licensees that were in effect prior to February 19, 1997. MEA, EA, and nationwide geographic area licensees have the right to share with non-exclusive licensees on the thirty-five exclusive 929 MHz channels on a non-interfering basis.
- (j) Site location restriction. The transmitting antenna of each facility constructed and operated pursuant to a paging geographic area authorization must be located within the paging geographic area specified in the authorization.
- (k) Coverage requirements. Failure by an MEA or EA licensee to meet either the coverage requirements in paragraphs (k)(1) and (k)(2) of this section, or alternatively, the substantial service requirement in paragraph (k)(3) of this section, will result in automatic termination of authorizations for those facilities that were not authorized, constructed, and operating at the time the geographic area authorization was granted. MEA and EA licensees have the burden of showing when their facilities were authorized, constructed, and operating, and should retain necessary records of these sites until coverage requirements are fulfilled. For the purpose of this paragraph, to "cover" area means to include geographic area within the composite of the service contour(s) determined by the methods of §§ 22.537 or 22.567 as appropriate for the particular channel involved. Licensees may determine the population of geographic areas included within their service contours using either the 1990 census or the 2000 census, but not both.
- (1) No later than three years after the initial grant of an MEA or EA geographic area authorization, the licensee must construct or otherwise acquire and operate sufficient facilities to cover one third of the population in the paging geographic area. The licensee must notify the FCC at the end of the three-year period pursuant to § 1.946 of this chapter, either that it has satisfied this requirement or that it plans to satisfy the alternative requirement to provide substantial service in accordance with paragraph (k)(3) of this section.
- (2) No later than five years after the initial grant of an MEA or EA geographic area authorization, the licensee must construct or otherwise acquire and operate sufficient facilities to cover two thirds of the population in the paging geographic area. The licensee must notify the FCC at the end of the five year period pursuant to  $\S$  1.946 of this chapter, either that it has satisfied this requirement or that it has satisfied the alternative requirement to provide substantial service in accordance with paragraph (k)(3) of this section.
- (3) As an alternative to the coverage requirements of paragraphs (k)(1) and (k)(2) of this section, the paging geographic area licensee may demonstrate that, no later than five years after the initial grant of its paging geographic area authorization, it provides substantial service to the paging geographic area. "Substantial service" means service that is sound, favorable, and substantially above a level of mediocre service that would barely warrant renewal.

## § 22.507 Number of transmitters per station.

This section concerns the number of transmitters licensed under each station authorization in the Paging and Radiotelephone Service, other than paging geographic area authorizations.

(a) Operationally related transmitters. Each station must have at least one transmitter. There is no limit to the

number of transmitters that a station may comprise. However, transmitters within a station should be operationally related and/or should serve the same general geographical area. Operationally related transmitters are those that operate together as a system (e.g., trunked systems, simulcast systems), rather than independently.

- (b) Split of large systems. The FCC may split wide-area systems into two or more stations for administrative convenience. Except for nationwide paging and other operationally related transmitters, transmitters that are widely separated geographically are not licensed under a single authorization.
- (c) Consolidation of separate stations. The FCC may consolidate site-specific contiguous authorizations upon request (FCC Form 601) of the licensee, if appropriate under paragraph (a) of this section. Paging licensees may include remote, stand-alone transmitters under the single system-wide authorization, if the remote, stand-alone transmitter is linked to the system via a control/repeater facility or by satellite. Including a remote, stand-alone transmitter in a system-wide authorization does not alter the limitations provided under § 22.503(f) on entities other than the paging geographic area licensee. In the alternative, paging licensees may maintain separate site-specific authorizations for stand-alone or remote transmitters. The earliest expiration date of the authorizations that make up the single system-wide authorization will determine the expiration date for the system-wide authorization. Licensees must file timely renewal applications for site-specific authorizations included in a single system-wide authorization request until the request is approved. Renewal of the system-wide authorization will be subject to § 1.949 of this chapter.
- (d) Replacement of site-by-site authorizations with single authorization. After a paging geographic area authorization for a channel has been issued, the FCC may, on its own motion, replace the authorization(s) of any other licensee (for facilities located within that paging geographic area on that channel) with a single replacement authorization.
- § 22.509 Procedures for mutually exclusive applications in the Paging and Radiotelephone Service.

Mutually exclusive applications in the Paging and Radiotelephone Service, including those that are mutually exclusive with applications in the Rural Radiotelephone Service, are processed in accordance with § 22.131 and with this section.

- (a) Applications in the Paging and Radiotelephone Service may be mutually exclusive with applications in the Rural Radiotelephone Service if they seek authorization to operate facilities on the same channel in the same area, or the technical proposals are otherwise in conflict. See § 22.567.
- (b) A modification application in either service filed on the earliest filing date may cause all later-filed mutually exclusive applications of any type in either service to be "cut off" (excluded from a same-day filing group) and dismissed, pursuant to § 22.131(c)(3)(ii) and § 22.131(c)(4).
- § 22.511 Construction period for the Paging and Radiotelephone Service.

The construction period for stations in the Paging and Radiotelephone Service is one year.

## § 22.513 Partitioning and disaggregation.

MEA and EA licensees may apply to partition their authorized geographic service area or disaggregate their authorized spectrum at any time following grant of their geographic area authorizations. Nationwide geographic area licensees may apply to partition their authorized geographic service area or disaggregate their authorized spectrum at any time as of August 23, 1999.

(a) Application required. Parties seeking approval for partitioning and/or disaggregation shall apply for partial

assignment of a license pursuant to § 1.948 of this chapter.

- (b) Partitioning. In the case of partitioning, requests for authorization for partial assignment of a license must include, as attachments, a description of the partitioned service area and a calculation of the population of the partitioned service area and the authorized geographic service area. The partitioned service area shall be defined by 120 sets of geographic coordinates at points at every 3 degrees azimuth from a point within the partitioned service area along the partitioned service area boundary unless either an FCC- recognized service area is used (e.g., MEA or EA) or county lines are followed. The geographical coordinates must be specified in degrees, minutes, and seconds to the nearest second latitude and longitude, and must be based upon the 1983 North American Datum (NAD83). In the case where FCC-recognized service areas or county lines are used, applicants need only list the specific area(s) through use of FCC designations or county names that constitute the partitioned area.
- (c) Disaggregation. Spectrum may be disaggregated in any amount.
- (d) Combined partitioning and disaggregation. Licensees may apply for partial assignment of authorizations that propose combinations of partitioning and disaggregation.
- (e) 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 § 1.955 of this chapter.
- (f) Coverage requirements for partitioning.
- (1) Parties to a partitioning agreement must satisfy at least one of the following requirements:
- (i) The partitionee must satisfy the applicable coverage requirements set forth in § 22.503(k)(1), (2) and (3) for the partitioned license area; or
- (ii) The original licensee must meet the coverage requirements set forth in § 22.503(k)(1), (2) and (3) for the entire geographic area. In this case, the partitionee must meet only the requirements for renewal of its authorization for the partitioned license area.
- (2) Parties seeking authority to partition must submit with their partial assignment application a certification signed by both parties stating which of the above options they select.
- (3) Partitionees must submit supporting documents showing compliance with their coverage requirements as set forth in § 22.503(k)(1), (2) and (3).
- (4) Failure by any partitionee to meet its coverage requirements will result in automatic cancellation of the partitioned authorization without further Commission action.
- (g) Coverage requirements for disaggregation.
- (1) Parties to a disaggregation agreement must satisfy at least one of the following requirements:
- (i) Either the disaggregator or disaggregatee must satisfy the coverage requirements set forth in § 22.503(k)(1), (2) and (3) for the entire license area; or
- (ii) Parties must agree to share responsibility for meeting the coverage requirements set forth in § 22.503(k)(1), (2) and (3) for the entire license area.
- (2) Parties seeking authority to disaggregate must submit with their partial assignment application a certification signed by both parties stating which of the above requirements they meet.
- (3) Disaggregatees must submit supporting documents showing compliance with their coverage requirements as

set forth in  $\S 22.503(k)(1)$ , (2) and (3).

(4) Parties that accept responsibility for meeting the coverage requirements and later fail to do so will be subject to automatic license cancellation without further Commission action.

#### § 22.515 Permissible communications paths.

Mobile stations may communicate only with and through base stations. Base stations may communicate only with mobile stations and receivers on land or surface vessels.

## § 22.527 Signal boosters.

Licensees may install and operate signal boosters on channels listed in § 22.531 only in accordance with the provisions of § 22.165 governing additional transmitters for existing systems. Licensees must not allow any signal booster that they operate to cause interference to the service or operation of any other authorized stations or systems.

§ 22.529 Application requirements for the Paging and Radiotelephone Service.

In addition to information required by subparts B and D of this part, applications for authorization in the Paging and Radiotelephone Service must contain the applicable information and data described in this section.

- (a) Administrative information. The following information, associated with Form 601, is required as indicated. Each application of any type, including applications for paging geographic area authorizations, must contain one and only one Schedule A.
- (b) Technical data. The following data, associated with FCC Form 601, are required as indicated for each application. Applications for a paging geographic area authorization must not contain Schedule B. Other type of applications may contain as many Schedule Bs as are necessary for the intended purpose.
- (1) For each transmitting antenna site to be added, deleted or modified, the following are required: an indication of the desired database action, the Commission location number, if any, the street address or other description of the transmitting antenna site, the city, county and state, the geographic coordinates (latitude and longitude), correct to +-1 second, of the transmitting antenna site (NAD83), and in the case of a proposed relocation of a transmitting antenna, the Commission location number and geographic coordinates, correct to +-1 second, of the transmitting antenna site (NAD83) to which the geographic coordinates of the current location are referenced.
- (2) For each transmitting antenna site to be added, deleted or modified, the following supplementary information is required: An indication as to whether or not the transmitting antenna site is within 200 kilometers (124 miles) of the U.S.-Mexico border, and an indication as to whether or not the transmitting antenna site is North of Line A or East of Line C. Line A and Line C are defined in § 2.1 of this chapter. For each adjacent geographic area within 200 kilometers (124 miles) of each transmitting antenna site to be added, deleted or modified, the geographic area designator and name, and the shortest distance (in kilometers) to the boundary of that geographic area.
- (3) The height (in meters) above average terrain of the center of radiation of the antenna, the beamwidth of the main lobe of the horizontal radiation pattern of the electric field of the antenna, the height (in meters) to the tip of the antenna above ground level, a polar plot of the horizontal gain pattern of the antenna, the antenna gain in the maximum lobe and the electric field polarization of the wave emitted by the antenna when installed as proposed.
- (i) The center frequency of the requested channel, the transmitter classification (e.g. base, fixed mobile), the

designator for any non-standard emission type to be used, including bandwidth and modulation type, and the maximum effective radiated power.

- (ii) For each of the eight cardinal radials, the antenna height above the average elevation along the radial, and the effective radiated power of each transmitter in the direction of the radial.
- (iii) For each transmitter proposed to transmit on a channel reserved for point-to-multipoint operation involving transmission to four or more points of communications (i.e. base transmitters), the following is required for each point of communication: an indication of the desired database action, the location (city or town, state), and the geographical coordinates (latitude and longitude, NAD 83).

## § 22.531 Channels for paging operation.

The following channels are allocated for assignment to base transmitters that provide paging service, either individually or collectively under a paging geographic area authorization. Unless otherwise indicated, all channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz.

Low VHF Channels
35.20 35.46 43.20 43.46
35.22 35.50 43.22 43.50
35.24 35.54 43.24 43.54
35.26 35.56 43.26 43.56
35.30 35.58 43.30 43.58
35.34 35.60 43.34 43.60
35.38 35.62 43.38 43.62
35.42 35.66 43.42 43.66
High VHF Channels
152.24 152.84 158.10 158.70
UHF Channels
931.0125 931.2625 931.5125 931.7625
931.0375 931.2875 931.5375 931.7875
931.0625 931.3125 931.5625 931.8125
931.0875 931.3375 931.5875 931.8375
931.1125 931.3625 931.6125 931.8625
931.1375   931.3875   931.6375   931.8875
931.1625 931.4125 931.6625 931.9125
931.1875   931.4375   931.6875   931.9375
931.2125 931.4625 931.7125 931.9625
> = 1.2120 > 0 11.1020 > 0 11.1120 > 0 11.5020
931.2375 931.4875 931.7375 931.9875

- (a) The 43 MHz channels may be assigned under developmental authorizations, pursuant to the requirements of § 22.411.
- (b) Channels 931.8875, 931.9125, and 931.9375 MHz may be assigned only to transmitters providing nationwide network paging service.
- (c) Upon application using FCC Form 601, common carriers may be authorized to provide one-way paging service using the leased subcarrier facilities of broadcast stations licensed under part 73 of this chapter.
- (d) Occasionally in case law and other formal and informal documents, the low VHF channels have been referred to as "lowband" channels, and the high VHF channels have been referred to as "guardband" channels.

- (e) Pursuant to the U.S.-Canada Interim Coordination Considerations for 929- 932 MHz, as amended, only the following UHF channels may be assigned in the continental United States North of Line A or in the State of Alaska East of Line C, within the indicated longitudes:
- (1) From longitude W.73° to longitude W.75° and from longitude W.78° to longitude W.81°:

```
931.0125 .... 931.1125 ... 931.1875 ... 931.2625
931.0375 .... 931.1375 ... 931.2125 ... 931.8625
931.0625 .... 931.1625 ... 931.2375
```

(2) From longitude W.81° to longitude W.85°:

```
931.0125 .... 931.2125 ... 931.3875 ... 931.5875

931.0375 .... 931.2375 ... 931.4125 ... 931.6125

931.0625 .... 931.2625 ... 931.4625 ... 931.6375

931.1125 .... 931.2875 ... 931.4875 ... 931.8625

931.1375 .... 931.3125 ... 931.5125

931.1625 .... 931.3375 ... 931.5375

931.1875 .... 931.3625 ... 931.5625
```

(3) Longitudes other than specified in paragraphs (e)(1) and (e)(2) of this section:

```
931.0125 .... 931.1625 ... 931.2875 ... 931.4125
931.0375 .... 931.1875 ... 931.3125 ... 931.4625
931.0625 .... 931.2125 ... 931.3375 ... 931.8625
931.1125 .... 931.2375 ... 931.3625
931.1375 .... 931.2625 ... 931.3875
```

(4) At any longitude, with authorization condition requiring coordinated, shared use and equal access by licensees in both countries:

```
931.4375 .... 931.8875 .... 931.9125 .... 931.9375
```

- (f) For the purpose of issuing paging geographic authorizations, the paging geographic areas used for UHF channels are the MEAs, and the paging geographic areas used for the low and high VHF channels are the EAs (see § 22.503(b)).
- § 22.535 Effective radiated power limits.

The effective radiated power (ERP) of transmitters operating on the channels listed in § 22.531 must not exceed the limits in this section.

(a) Maximum ERP. The ERP must not exceed the applicable limits in this paragraph under any circumstances.

Frequency range (MHz)	Maximum ERP (Watts)

35-36	600
43-44	500
152-159	1400
931-932	3500

- (b) Basic power limit. Except as provided in paragraph (d) of this section, the ERP of transmitters on the VHF channels must not exceed 500 Watts.
- (c) Height-power limit. Except as provided in paragraph (d) of this section, the ERP of transmitters on the VHF channels must not exceed the amount that would result in an average distance to the service contour of 32.2 kilometers (20 miles). The average distance to the service contour is calculated by taking the arithmetic mean of the distances determined using the procedures specified in § 22.537 for the eight cardinal radial directions, excluding cardinal radial directions for which 90% or more of the distance so calculated is over water.
- (d) Encompassed interfering contour areas. Transmitters are exempt from the basic power and height-power limits of this section if the area within their interfering contours is totally encompassed by the interfering contours of operating co-channel base transmitters controlled by the same licensee. For the purpose of this paragraph, operating transmitters are authorized transmitters that are providing service to subscribers.
- (e) Adjacent channel protection. The ERP of transmitters must not exceed 500 Watts if they:
- (1) Transmit on a channel in the 152-159 MHz frequency range and are located less than 5 kilometers (3.1 miles) from any station licensed in the Private Radio Services that receives on an adjacent channel; or,
- (2) Transmit on channel 158.10 or 158.70 MHz and are located less than 5 kilometers (3.1 miles) from any station licensed in the Public Mobile Services that receives on either of the following adjacent channels: 158.07 MHz or 158.67 MHz.
- (f) Signal boosters. The effective radiated power of signal boosters must not exceed 5 watts ERP under any normal operating condition.
- § 22.537 Technical channel assignment criteria.

The rules in this section establish technical assignment criteria for the channels listed in § 22.531. These criteria permit channel assignments to be made in a manner such that reception by public paging receivers of signals from base transmitters, within the service area of such base transmitters, is protected from interference caused by the operation of independent co-channel base transmitters.

- (a) Contour overlap. The FCC may grant an application requesting assignment of a channel to a proposed base transmitter only if:
- (1) The interfering contour of the proposed transmitter does not overlap the service contour of any protected co-channel transmitter controlled by a carrier other than the applicant, unless that carrier has agreed in writing to accept any interference that may result from operation of the proposed transmitter; and,
- (2) The service contour of the proposed transmitter does not overlap the interfering contour of any protected co-channel transmitter controlled by a carrier other than the applicant, unless the applicant agrees to accept any interference that may result from operation of the protected co-channel transmitter; and,
- (3) The area and/or population to which service would be provided by the proposed transmitter is substantial, and service gained would exceed that lost as a result of agreements to accept interference.
- (b) Protected transmitter. For the purposes of this section, protected transmitters are authorized transmitters for

which there is a current FCC public record and transmitters proposed in prior-filed pending applications.

(c) VHF service contour. For paging stations transmitting on the VHF channels, the distance from the transmitting antenna to the service contour along each cardinal radial is calculated as follows:

$$d=1.243xh^{0.40}xp^{0.20}$$

where d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (1) Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.
- (2) The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction or 0.1 Watt, whichever is more.
- (3) The distance from the transmitting antenna to the service contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. However, in resolving petitions to deny, the FCC may calculate the distance to the service contour using the formula in paragraph (c) of this section with actual HAAT and ERP data for the inter-station radial and additional radials above and below the inter-station radial at 2.5° intervals.
- (d) VHF interfering contour. For paging stations transmitting on the VHF channels, the distance from the transmitting antenna to the interfering contour along each cardinal radial is calculated as follows:

$$d=6.509xh^{0.28}xp^{0.17}$$

where d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (1) Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.
- (2) The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction or 0.1 Watt, whichever is more.
- (3) The distance from the transmitting antenna to the interfering contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. In resolving petitions to deny, however, the FCC may calculate the distance to the interfering contour using the formula in paragraph (d) of this section with actual HAAT and ERP data for the inter-station radial and additional radials above and below the inter-station radial at 2.5° intervals.
- (e) 931 MHz service contour. For paging stations transmitting on the 931 MHz channels, the service contour is a circle, centered on the transmitting antenna, with a radius determined from Table E-1 of this section.

	TABLE E-1 931 MHz PAGING SERVICE RADII
Service radius km (miles)	Effective radiated power (Watts)

Antenna HAAT meters (feet)	0-125	126-250	251-500	501-1000	1001-1860	1861-3500
0-177	32.2 (20)	32.2 (20)	32.2 (20)	32.2 (20)	32.2 (20)	32.2 (20)
(0-581)						
178-305	32.2 (20)	32.2 (20)	32.2 (20)	32.2 (20)	37.0 (23)	41.8 (26)
(582-1001)						
306-427	32.2 (20)	32.2 (20)	37.0 (23)	41.8 (26)	56.3 (35)	56.3 (35)
(1002-1401)						
428-610	32.2 (20)	37.0 (23)	41.8 (26)	56.3 (35)	56.3 (35)	56.3 (35)
(1402-2001)						
611-861	37.0 (23)	41.8 (26)	41.8 (26)	56.3 (35)	83.7 (52)	83.7 (52)
(2002-2825)						
862-1219	41.8 (26)	56.3 (35)	56.3 (35)	83.7 (52)	83.7 (52)	83.7 (52)
(2826-3999)						
1220+	56.3 (35)	56.3 (35)	83.7 (52)	83.7 (52)	83.7 (52)	83.7 (52)
(4000+)						

(f) 931 MHz interfering contour. For paging stations transmitting on the 931 MHz channels, the interfering contour is a circle, centered on the transmitting antenna, with a radius determined from Table E-2 of this section.

	TABLE E-2	931 MHz	PAGING IN	TERFERING I	RADII	
Interfering radius km (miles)			Effective rad	iated power (V	Vatts)	
Antenna HAAT meters (feet)	0-125	126-250	251-500	501-1000	1001-1860	1861-3500
0-177	80.5 (50)	80.5 (50)	80.5 (50)	80.5 (50)	80.5 (50)	80.5 (50)
(0-581)						
178-305	80.5 (50)	80.5 (50)	80.5 (50)	80.5 (50)	88.5 (55)	96.6 (60)
(582-1001)						
306-427	80.5 (50)	80.5 (50)	88.5 (55)	96.6 (60)	130.4 (81)	130.4 (81)
(1002-1401)						
428-610	80.5 (50)	88.5 (55)	96.6 (60)	130.4 (81)	130.4 (81)	130.4 (81)
(1402-2001)						
611-861	88.5 (55)	96.6 (60)	96.6 (60)	130.4 (81)	191.5 (119)	191.5 (119)
(2002-2825)						
862-1219	96.6 (60)	130.4 (81)	130.4 (81)	191.5 (119)	191.5 (119)	191.5 (119)
(2826-3999)						
1220+						
(4000+)	130.4 (81)	130.4 (81)	191.5 (119)	191.5 (119)	191.5 (119)	191.5 (119)

<sup>(</sup>g) In-building radiation systems. The locations of in-building radiation systems must be within the service contour(s) of the licensee's authorized transmitter(s) on the same channel. In-building radiation systems are not protected facilities, and therefore do not have service or interfering contours.

#### § 22.539 Additional channel policies.

The rules in this subsection govern the processing of applications for a paging channel when the applicant has

<sup>(</sup>h) Signal boosters on 931 MHz channels. For the purpose of compliance with § 22.165 and notwithstanding paragraphs (e) and (f) of this section, signal boosters operating on the 931 MHz channels with an antenna HAAT not exceeding 30 meters (98 feet) are deemed to have as a service contour a circle with a radius of 1.0 kilometer (0.6 mile) and as an interfering contour a circle with a radius of 10 kilometers (6.2 miles).

applied for or been granted an authorization for other paging channels in the same geographic area. This section applies to applications proposing to use the channels listed in § 22.531, excluding the nationwide network paging channels and broadcast station subcarriers, or the channels listed in § 22.561, where the application proposes to use those channels to provide paging service only. The general policy of the Commission is to assign one paging channel in an area to a carrier per application cycle. That is, a carrier must apply for one paging channel, receive the authorization, construct the station, provide service to the subscribers, and notify the Commission of commencement of service to subscribers by using FCC Form 601 before applying for an additional paging channel in that area. This notification must be sent by electronic filing via the ULS.

- (a) VHF transmitters in same area. Any transmitter on any VHF channel listed in § 22.531 is considered to be in the same geographic area as another transmitter on any other VHF channel listed in § 22.531 if:
- (1) One transmitter location is within the service area of the other transmitter; or,
- (2) the area within the overlap of the service contours of the two transmitters constitutes 50 percent or more of the service area of either of the transmitters.
- (b) 931 MHz transmitters in same area. Any transmitter on any 931 MHz channel is considered to be in the same geographic area as another transmitter on any channel listed in § 22.531 if it is located less than 64.4 kilometers (40 miles) from the transmitter. Likewise, any transmitter on any channel listed in § 22.531 is considered to be in the same geographic area as another transmitter on any 931 MHz channel if it is located less than 64.4 kilometers (40 miles) from that transmitter.
- (c) Initial channel. The FCC will not assign more than one channel for new paging stations. Paging stations are considered to be new if there are no authorized transmitters on any channel listed in § 22.531 controlled by the applicant in the same geographic area.
- (d) Additional channel. Applications for transmitters to be located in the same geographic area as an authorized station controlled by the applicant, but to operate on a different channel, are considered as requesting an additional channel for the authorized station, unless paragraph (e) of this section applies.
- (e) Additional transmitters on same channel. Notwithstanding other provisions of this section, the following applications are not considered to be requests for an additional paging channel:
- (1) Applications for transmitters to be located in the same geographic area as an authorized station controlled by the applicant, and to operate on the same paging channel;
- (2) Applications for transmitters to be located within a paging geographic area for which the applicant holds the paging geographic area authorization for the requested channel; and,
- (3) Applications for paging geographic area authorizations.
- (f) Amendment of pending application. If the FCC receives and accepts for filing an application for a transmitter to be located in the same geographic area as a transmitter proposed in a pending application previously filed by the applicant, but on a different channel, the subsequent application is considered as a major amendment to change the technical proposal of the prior application, unless paragraph (e) applies. The filing date of any application so amended is the date the FCC received the subsequent application.
- (g) Dismissal of premature applications for additional channel. If the FCC receives an application requesting an additional channel for an authorized station prior to receiving notification that the station is providing service to subscribers on the authorized channel(s), the FCC may dismiss that application without prejudice in accordance with § 22.128.

## § 22.551 Nationwide network paging service.

The rules in this section govern the application for and provision of nationwide network paging service on the channels reserved specifically for such service in § 22.531(b).

- (a) Nationwide network providers; organizers. If and when a nationwide network paging channel becomes available for assignment, the FCC will issue a Public Notice inviting applications from eligibles seeking to provide or organize a nationwide network paging service. The Public Notice will provide complete details regarding application requirements and procedures.
- (b) Licensing. The FCC may issue a paging geographic area authorization to the nationwide network provider or organizer. All transmissions of nationwide network messages on the channels reserved for such service in § 22.531(b) are authorized solely under the authorization(s) of the nationwide network provider or organizer, notwithstanding whether or not the messages pass through facilities owned, operated or licensed to affiliated local carriers.

# § 22.559 Paging application requirements.

In addition to information required by Subparts B and D and § 22.529, applications for authorization to operate a paging transmitter on the channels listed in § 22.531, other than applications for a paging geographic area authorization, must contain the applicable supplementary information described in this section.

- (a) Interference exhibit. Except as provided in paragraph (b) of this section, an exhibit demonstrating compliance with § 22.537 with regard to protected transmitters is required for applications to operate a transmitter on the VHF channels. This exhibit must:
- (1) Identify each protected transmitter located within 109 kilometers (68 miles) of the proposed transmitter in directions in which the distance to the interfering contour is 76.5 kilometers (47.5 miles) or less, and within 178 kilometers (111 miles) of the proposed transmitter in directions in which the distance to the interfering contour exceeds 76.5 kilometers (47.5 miles).
- (2) For each protected transmitter identified, show the results of distance calculations indicating that there would be no overlap of service and interfering contours, or alternatively, indicate that the licensee of or applicant for the protected transmitter and/or the applicant, as required, have agreed in writing to accept any interference resulting from operation of the proposed transmitter.
- (b) Encompassment exhibit. An exhibit showing that the area within the interfering contour of the proposed transmitter would be totally encompassed by interfering contours of operating co-channel base transmitters controlled by the applicant is required for applications to operate a transmitter with ERP exceeding the basic power and height-power limits of § 22.535. For VHF transmitters, this encompassment exhibit may substitute for the interference exhibit required in paragraph (a) of this section.

## § 22.561 Channels for one-way or two-way mobile operation.

The following channels are allocated for paired assignment to transmitters that provide (or support other transmitters that provide) one-way or two-way public land mobile service, either individually or collectively under a paging geographic area authorization. The paging geographic areas used for these channels are the EAs (see § 22.503(b)(3)). These channels may be assigned for use by mobile or base transmitters as indicated, and or by fixed transmitters (including control, repeater or other fixed transmitters). The mobile channels may also be assigned for use by base or fixed transmitters under certain circumstances (see § 22.567(h)). Unless otherwise indicated, all channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz.

Base	Mobile	Base	Mobile
	VHF Ch		
	158.49		157.83
52.06	158.52	152.60	157.86
52.09	158.55	152.63	157.89
52.12	158.58	152.66	157.92
52.15	158.61	152.69	157.95
52.18	158.64	152.72	157.98
52.21	158.67	152.75	158.01
52.51	157.77	152.78	158.04
52.54	157.80	152.81	158.07
	UHF Ch		
54.025	459.025	454.350	459.350
54.050	459.050	454.375	459.375
54.075	459.075	454.400	459.400
54.100	459.100	454.425	459.425
54.125	459.125	454.450	459.450
54.150	459.150	454.475	459.475
54.175	459.175	454.500	459.500
54.200	459.200	454.525	459.525
54.225	459.225	454.550	459.550
54.250	459.250	454.575	459.575
54.275	459.275	454.600	459.600
54.300	459.300	454.625	459.625
	459.325	454 650	459.650

# § 22.563 Provision of rural radiotelephone service upon request.

Channels in the frequency ranges 152.03-152.81, 157.77-158.67, 454.025-454.650 and 459.025-459.650 MHz, inclusive, are also allocated for assignment in the Rural Radiotelephone Service. Stations in the Paging and Radiotelephone Service that provide two-way public mobile service on these channels must also provide rural radiotelephone service upon request from a subscriber.

# § 22.565 Transmitting power limits.

The transmitting power of base, mobile and fixed transmitters operating on the channels listed in § 22.561 must not exceed the limits in this section.

(a) Maximum ERP. The effective radiated power (ERP) of base and fixed transmitters must not exceed the applicable limits in this paragraph under any circumstances.

Frequency range (MHz)	Maximum ERP (watts)
152-153	1400

157-159	150
454-455	3500
459-460	150

- (b) Basic power limit. Except as provided in paragraph (d) of this section, the ERP of base transmitters must not exceed 500 Watts.
- (c) Height-power limits. Except as provided in paragraph (d) of this section, the ERP of base transmitters must not exceed the amount that would result in an average distance to the service contour of 41.6 kilometers (26 miles) for VHF channels or 30.7 kilometers (19 miles) for UHF channels. The average distance to the service contour is calculated by taking the arithmetic mean of the distances determined using the procedures specified in § 22.567 for the eight cardinal radial directions, excluding cardinal radial directions for which 90% or more of the distance so calculated is over water.
- (d) Encompassed interfering contour areas. Base transmitters are exempt from the basic power and height-power limits of this section if the area within their interfering contours is totally encompassed by the interfering contours of operating co-channel based transmitters controlled by the same licensee. For the purpose of this paragraph, operating transmitters are authorized transmitters that are providing service to subscribers.
- (e) Adjacent channel protection. The ERP of base and fixed transmitters must not exceed 500 Watts if they transmit on channel 454.025 MHz and are located less than 7 kilometers (4.3 miles) from any Private Radio Services station receiving on adjacent channel 454.0000 MHz.
- (f) Mobile transmitters. The transmitter output power of mobile transmitters must not exceed 60 watts.
- (g) Other transmitters. The ERP of dispatch and auxiliary test transmitters must not exceed 100 watts.

## § 22.567 Technical channel assignment criteria.

The rules in this section establish technical assignment criteria for the channels listed in § 22.561. The criteria in paragraphs (a) through (f) of this section permit channel assignments to be made in a manner such that reception by public mobile receivers of signals from base transmitters, within the service area of such base transmitters, is protected from interference caused by the operation of independent co-channel base and fixed transmitters in the Paging and Radiotelephone Service and central office stations, including Basic Exchange Telephone Radio Systems (BETRS), in the Rural Radiotelephone Service. Additional criteria in paragraph (g) of this section permit channel assignments to be made in a manner such that BETRS communications are protected from interference caused by the operation of independent co-channel base and fixed transmitters in the Paging and Radiotelephone Service and other central office stations in the Rural Radiotelephone Service. Separate criteria in paragraph (h) of this section apply only to assignment of the channels designated in § 22.561 as mobile channels to base and fixed transmitters, and permit these channel assignments to be made in a manner such that reception by public base and fixed receivers of signals from associated mobile and fixed transmitters is protected from interference caused by the operation of independent co-channel base and fixed transmitters.

- (a) Contour overlap. The FCC may grant an application requesting assignment of a channel to a proposed base, fixed or central office station transmitter only if:
- (1) The interfering contour of the proposed transmitter does not overlap the service contour of any protected co-channel transmitter controlled by a carrier other than the applicant, unless that carrier has agreed in writing to accept any interference that may result from operation of the proposed transmitter; and
- (2) The service contour of the proposed transmitter does not overlap the interfering contour of any protected co-channel transmitter controlled by a carrier other than the applicant, unless the application contains a statement that the applicant agrees to accept any interference that may result from operation of the protected co-channel

transmitter; and

- (3) The area and/or population to which service would be provided by the proposed transmitter is substantial, and service gained would exceed that lost as a result of agreements to accept interference.
- (b) Protected transmitter. For the purposes of this section, protected transmitters are authorized transmitters for which there is a current FCC public record and transmitters proposed in prior-filed pending applications, in the Paging and Radiotelephone Service and the Rural Radiotelephone Service.
- (c) VHF service contour. For base stations transmitting on the VHF channels, the radial distance from the transmitting antenna to the service contour along each cardinal radial is calculated as follows:

$$d=1.609xh^{0.40} xp^{0.20}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (1) Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.
- (2) The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.
- (3) The distance from the transmitting antenna to the service contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. However, in resolving petitions to deny, the FCC may calculate the distance to the service contour using the formula in paragraph (c) of this section with actual HAAT and ERP data for the inter-station radial and additional radials above and below the inter-station radial at 2.5° intervals.
- (d) VHF interfering contour. For base and fixed stations transmitting on the VHF channels, the radial distance from the transmitting antenna to the interfering contour along each cardinal radial is calculated as follows:
- (1) If the radial antenna HAAT is less than 150 meters:

$$d=8.577xh^{0.24}xp^{0.19}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.

(2) If the radial antenna HAAT is 150 meters or more:

 $d=12.306xh^{0.23} xp^{0.14}$ 

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (3) The value used for p in the above formulas must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.
- (4) The distance from the transmitting antenna to the interfering contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. However, in resolving petitions to deny, the FCC may calculate the distance to the interfering contour using the appropriate formula in paragraph (d) of this section with actual HAAT and ERP data for the inter-station radial and additional radials above and below the inter-station radial at 2.5° intervals.
- (e) UHF service contour. For base stations transmitting on the UHF channels, the radial distance from the transmitting antenna to the service contour along each cardinal radial is calculated as follows:

$$d=1.726xh^{0.35}xp^{0.18}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (1) Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.
- (2) The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.
- (3) The distance from the transmitting antenna to the service contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. However, in resolving petitions to deny, the FCC may calculate the distance to the service contour using the formula in paragraph (e) of this section with actual HAAT and ERP data for the inter-station radial and addition radials above and below the below the inter-station radial at 2.5° intervals.
- (f) UHF interfering contour. For base and fixed stations transmitting on the UHF channels, the radial distance from the transmitting antenna to the interfering contour along each cardinal radial is calculated as follows:
- (1) If the radial antenna HAAT is less than 150 meters:

$$d=9.471xh^{0.23}xp^{0.15}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula.

(2) If the radial antenna HAAT is 150 meters or more:

$$d=6.336xh^{0.31} \times p^{0.15}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

- (3) The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.
- (4) The distance from the transmitting antenna to the interfering contour along any radial other than the eight cardinal radials is routinely calculated by linear interpolation of distance as a function of angle. However, in resolving petitions to deny, the FCC may calculate the distance to the interfering contour using the appropriate formula in paragraph (f) of this section with actual HAAT and ERP data for the inter-station radial and additional radials above and below the inter-station radial at 2.5° intervals.
- (g) Protection for BETRS. In applying the provisions of paragraph (a) of this section, if either or both of the transmitters involved is a BETRS central office station, the following contour substitutions must be used:
- (1) The service contour of the BETRS central office station(s) is a circle, centered on the central office station antenna, with a radius of 40 kilometers (25 miles).
- (2) The interfering contour of any station of any type, when determining whether it would overlap the service contour of a BETRS central office station, is calculated as follows:

$$d=36.364xh^{0.2} \times p^{0.1}$$

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula. The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.

(h) Assignment of mobile channels to base or fixed transmitters. Mobile channels may be assigned to base or fixed transmitters if the following criteria are met:

- (1) The paired base channel, as designated in § 22.561, is assigned to base transmitters in the same geographical area operated by the same licensee.
- (2) The authorization is granted subject to the condition that no interference be caused to fixed receivers in use on or prior to the date of the grant.

#### § 22.569 Additional channel policies.

The rules in this section govern the processing of applications for a mobile channel when the applicant has applied or been granted an authorization for other mobile channels in the same geographic area. This section applies to applications proposing to use the channels listed in § 22.561, except applications that propose to use these channels to provide paging service only, which are subject to § 22.539, instead of this section. The general policy of the FCC is to assign no more than two channels in an area to a carrier per application cycle. That is, a carrier must apply for no more than two channels, receive the authorization, construct the station, provide service to subscribers, and notify the FCC of commencement of service to subscribers (FCC Form 489) before applying for additional mobile channels in that area.

- (a) Transmitters in same area. Any transmitter on any channel listed in § 22.561 is considered to be in the same geographic area as another transmitter or any other channel listed in § 22.561 if:
- (1) One transmitter location is within the service area of the other transmitter; or,
- (2) The area within the overlap of the service contours of the two transmitters constitutes 50 percent or more of the service area of either of the transmitters.
- (b) Initial channel. The FCC will not assign more than two channels for new stations. Stations are considered to be new if there are no authorized transmitters on any channel listed in § 22.561 controlled by the applicant in the same geographic area.
- (c) Additional channel. Applications for transmitters to be located in the same geographic area as an authorized station controlled by the applicant, but to operate on a different channel, are considered as requests for an additional channel for the authorized station, unless paragraph (d) of this section applies.
- (d) Additional transmitters on same channel. Notwithstanding other provisions of this section, the following applications are not considered to be requests for an additional channel:
- (1) Applications for transmitters to be located in the same geographic area as an authorized station controlled by the applicant, and to operate on the same paging channel;
- (2) Applications for transmitters to be located within a paging geographic area for which the applicant holds the paging geographic area authorization for the requested channel; and,
- (3) Applications for paging geographic area authorizations.
- (e) [Reserved]
- (f) Dismissal of application constituting cumulative request for more than two channels. If the FCC receives an application for a transmitter to be located in the same geographic area as a transmitter proposed in a pending application previously filed by the applicant, but on different channels such that, considered together, the applications would constitute a request for more than two channels, the FCC may dismiss the subsequent application without prejudice.

(g) Dismissal of premature applications for additional channel. If the FCC receives an application requesting two additional channels (or one additional channel) for an authorized station prior to receiving notification that the station is providing service to subscribers on all (or all except one) of the authorized channels, the FCC may dismiss that application without prejudice.

# § 22.571 Responsibility for mobile stations.

Mobile stations that are subscribers in good standing to a two-way service in the Paging and Radiotelephone Service, when receiving service from that station, are considered to be operating under the authorization of that station. Licensees are responsible for exercising effective operational control over mobile stations receiving service through their stations. Mobile stations that are subscribers in good standing to a two-way service in the Paging and Radiotelephone Service, while receiving service from a different station, are considered to be operating under the authorization of such different station. The licensee of such different station is responsible, during such temporary period, for exercising effective operational control over such mobile stations as if they were subscribers to it.

## § 22.573 Use of base transmitters as repeaters.

As an additional function, base transmitters may be used as repeaters. Licensees must be able to turn the base transmitter on or off from the control point regardless of whether a subscriber-operated transmitter is transmitting.

## § 22.575 Use of mobile channel for remote control of station functions.

Carriers may remotely control station functions (e.g. shut down or reactivate base transmitters, turn aviation obstruction warning lights on or off, etc.) using a control transmitter operating on a mobile channel, subject to the conditions in this section and in § 22.567(h).

- (a) The control transmitter must be capable of overriding transmissions from subscriber-operated transmitters if necessary. Subscriber-operated transmitters must not be capable of being used to deliberately or accidentally prevent the licensee from controlling the station.
- (b) The licensee must implement measures designed to prevent station functions from being controlled by persons not authorized by the licensee to control the station.
- (c) The control transmitter location must be within the composite service contour of the licensee's authorized station on the paired base channel.

## § 22.577 Dispatch service.

Carriers licensed under this subpart may provide dispatch service in accordance with the rules in this section.

- (a) Installation without prior FCC approval. A station licensee may install or remove dispatch points for subscribers without obtaining prior FCC approval. A station licensee may install or remove dispatch transmitters for subscribers without applying for specific authorization, provided that the following conditions are met.
- (1) Each dispatch transmitter must be able to transmit only on the mobile channel that is paired with the channel used by the base station.
- (2) The antenna of the dispatch transmitter must not exceed the criteria in § 17.7 of this chapter that determine whether the FAA must be notified of the proposed construction.

- (3) The output power of the dispatch transmitter must not exceed 10 Watts.
- (4) The dispatch transmitter must be incapable of overriding the functioning of any control transmitter that may be using the same channel.
- (5) The dispatch transmitter must be under the continuous supervision of the licensee.
- (b) Notification. Licensees must notify the Commission by filing FCC Form 601 whenever a dispatch transmitter is installed pursuant to paragraph (a) of this section. The notification must include the name and address of the subscriber(s) for which the dispatch transmitter was installed, the location of the dispatch transmitter, the height of antenna structure above ground and above mean sea level, the channel(s) used, and the call sign and location of the base station.
- (c) Termination without hearing. Operation of a dispatch transmitter pursuant to paragraphs (a) and (b) of this section may be terminated by the FCC without a hearing upon notice to the licensee.
- (d) Dispatch transmitters requiring authorization. A dispatch transmitter that does not meet all of the requirements of paragraph (a) of this section may be installed only upon the grant of an application for authorization by electronically filing FCC Form 601.
- (e) Permissible communications. A dispatch transmitter operated by a subscriber may communicate only with mobile transmitters operated by that subscriber through the associated base transmitter.
- § 22.579 Operation of mobile transmitters across U.S.-Canada border.

Mobile stations licensed by Canada may receive two-way service while in the United States from stations licensed under this part, after authorization has been granted by the FCC. Mobile stations that normally operate under the authority of base stations licensed under this part may receive two-way service while in Canada from stations licensed under this part or by Canada, upon authorization by Canada.

# § 22.589 One-way or two-way application requirements.

In addition to information required by subparts B and D and § 22.529, applications for authorization to operate a paging transmitter on the channels listed in § 22.531, other than applications for a paging geographic area authorization, must contain the applicable supplementary information described in this section.

- (a) Interference exhibit. Except as provided in paragraph (b) of this section, an exhibit demonstrating compliance with § 22.567 with regard to protected transmitters is required. This exhibit must:
- (1) For UHF channels, identify each protected transmitter located within 108 kilometers (67 miles) of the proposed transmitter in directions in which the distance to the interfering contour is 76.4 kilometers (47.5 miles) or less, and within 178 kilometers (111 miles) of the proposed transmitter in directions in which the distance to the interfering contour exceeds 76.4 kilometers (47.5 miles); and identify each protected Basic Exchange Telephone Radio System central office transmitter in the Rural Radiotelephone Service within 231 kilometers (144 miles),
- (2) For VHF channels, identify each protected transmitter located within 135 kilometers (84 miles) of the proposed transmitter in directions in which the distance to the interfering contour is 93.3 kilometers (58 miles) or less, and within 178 kilometers (111 miles) of the proposed transmitter in directions in which the distance to the interfering contour exceeds 93.3 kilometers (58 miles).
- (3) For each protected transmitter identified, show the results of distance calculations indicating that there would be no overlap of service and interfering contours, or alternatively, indicate that the licensee of or applicant for the

protected transmitter and/or the applicant, as required, have agreed in writing to accept any interference resulting from operation of the proposed transmitter.

(b) Encompassment exhibit. An exhibit showing that the area within the interfering contour of the proposed transmitter would be totally encompassed by interfering contours of operating co-channel base transmitters controlled by the applicant is required for applications to operate a transmitter with ERP exceeding the basic power and height-power limits of § 22.565. This encompassment exhibit may substitute for the interference exhibit required in paragraph (a) of this section.

### § 22.591 Channels for point-to-point operation.

The following channels are allocated for assignment to fixed transmitters that support other transmitters that provide public mobile service. Unless otherwise indicated, all channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz.

VHF Channels
72.02 72.36 72.80 75.66
72.04 72.38 72.82 75.68
72.06 72.40 72.84 75.70
72.08 72.42 72.86 75.72
72.10 72.46 72.88 75.74
72.12 72.50 72.90 75.76
72.14 72.54 72.92 75.78
72.16 72.58 72.94 75.80
72.18 72.62 72.96 75.82
72.20 72.64 72.98 75.84
72.22 72.66 75.42 75.86
72.24 72.68 75.46 75.88
72.26 72.70 75.50 75.90
72.28 72.72 75.54 75.92
72.30 72.74 75.58 75.94
72.32 72.76 75.62 75.96
72.34 72.78 75.64 75.98
72.10 72.46 72.88 75.74
72.12 72.50 72.90 75.76
72.14 72.54 72.92 75.78
72.16 72.58 72.94 75.80
72.18 72.62 72.96 75.82
72.20 72.64 72.98 75.84
72.22 72.66 75.42 75.86
72.24 72.68 75.46 75.88
72.26 72.70 75.50 75.90
72.28 72.72 75.54 75.92
72.30 72.74 75.58 75.94
72.32 72.76 75.62 75.96
72.34 72.78 75.64 75.98
UHF ChannelsState of Hawaii
488.250 491.250 489.750 492.750
488.750 491.750 490.250 493.250
489.250 492.250 490.750 493.750

### [Bandwidth individually assigned]

2110.1	2160.1
2110.2	2160.2
2110.3	2160.3
2129.9	2179.9

- (a) The 72-76 MHz channels may be assigned under developmental authority pursuant to the requirements of § 22.413. The 72-76 MHz channels may also be used in point-to-multipoint configurations. The 72-76 MHz channels are also allocated for assignment in the Private Radio Services (see Part 90 of this chapter).
- (b) Channels in the frequency ranges 2110-2130 and 2160-2180 MHz are also allocated for assignment in the broadband Personal Communications Service (see part 24 of this chapter), the Multipoint Distribution Service and the Point-to- Point Microwave Radio Service (see part 21 of this chapter). Assignment of channels in these ranges is subject to the transition rules in § 22.602.
- (c) Channels in the frequency ranges 488.250-490.750 and 491.250-493.750 MHz may be assigned only to inter-island fixed stations located in the State of Hawaii.

### § 22.593 Effective radiated power limits.

The effective radiated power of fixed stations operating on the channels listed in § 22.591 must not exceed 150 Watts. The equivalent isotropic radiated power of fixed stations operating in the frequency ranges 2110-2130 and 2160-2180 MHz must not exceed the limits set forth in Part 21 of this chapter for stations operating in these frequency ranges.

#### § 22.599 Assignment of 72-76 MHz channels.

Because of the potential for interference to the reception of TV Channels 4 and 5 by broadcast television sets and video recorders, assignments of the 72- 76 MHz channels are subject to the following conditions:

- (a) Assignments of 72-76 MHz channels for use within 129 kilometers (80 miles) of a full service TV station transmitting on TV Channel 4 or 5 are subject to the condition that the licensee must eliminate any interference caused to television reception on TV Channels 4 and 5. If the FCC notifies the licensee of an interference problem and the licensee does not resolve the problem within 90 days of such notification, operation of the interfering 72-76 MHz fixed station must be immediately discontinued.
- (b) 72-76 MHz channels may be assigned for use within 16 kilometers (10 miles) of a full service TV station transmitting on TV Channel 4 or 5 under a developmental authorization, pursuant to § 22.413. However, for use within 50 meters (164 feet) of a TV station transmitting on TV Channel 4 or 5, 72-76 MHZ channels may be assigned under a regular authorization, rather than a developmental authorization.

### § 22.601 Assignment of microwave channels.

Assignment of the microwave channels listed in § 22.591 is subject to the transition rules in § 22.602. No new systems will be authorized under this part.

(a) Coordination required. Before filing applications for authority to modify existing stations on these channels or major amendments to such applications, carriers must coordinate the planned channel usage, using the procedure outlined in § 22.150, with affected parties in this radio service and the Point-to-Point Microwave Service and the Multipoint Distribution Service. Affected parties are licensees and other applicants with previously filed pending

applications whose stations could affect or be affected by the proposed modification of the existing station in terms of interference.

- (b) System parameters. In designing a system modification, the applicant must select sites, equipment and channels that will avoid harmful interference to other users. All parties must cooperate fully and make reasonable efforts to resolve technical problems and conflicts that may inhibit the most effective and efficient use of the radio spectrum; however, a party receiving notification is not obligated to suggest changes or re-design a proposal in cases involving conflicts. The applicant must identify in the application all parties with which the technical proposal was coordinated. In the event that technical problems are not resolved or if an affected party does not respond to coordination efforts within 30 days after notification, an explanation must be contained in the application. Where technical conflicts are resolved by an agreement between the parties that requires special procedures to reduce the likelihood of harmful interference (such as the use of artificial site shielding), or would result in a reduction of quality or capacity of either system, the details thereof must be contained in the application.
- (c) Bandwidth. Applicants must request the minimum emission bandwidth necessary. The FCC does not authorize bandwidths larger than 800 kHz under this part.
- § 22.602 Transition of the 2110-2130 and 2160-2180 MHz channels to emerging technologies.

The microwave channels listed in § 22.591 have been allocated for use by emerging technologies (ET) services. No new systems will be authorized under this part. The rules in this section provide for a transition period during which existing Paging and Radiotelephone Service (PARS) licensees using these channels may relocate operations to other media or to other fixed channels, including those in other microwave bands. For PARS licensees relocating operations to other microwave bands, authorization must be obtained under Part 101 of this chapter.

- (a) Licensees proposing to implement ET services may negotiate with PARS licensees authorized to use these channels, for the purpose of agreeing to terms under which the PARS licensees would--
- (1) Relocate their operations to other fixed microwave bands or other media, or alternatively,
- (2) Accept a sharing arrangement with the ET licensee that may result in an otherwise impermissible level of interference to the PARS operations.
- (b) PARS operations on these channels will continue to be co-primary with other users of this spectrum until two years after the FCC commences acceptance of applications for ET services, and until one year after an ET licensee initiates negotiations for relocation of the fixed microwave licensee's operations.
- (c) Voluntary Negotiations. During the two year voluntary negotiation period, negotiations are strictly voluntary and are not defined by any parameters. However, if the parties have not reached an agreement within one year after the commencement of the voluntary period, the PARS licensee must allow the ET licensee (if it so chooses) to gain access to the existing facilities to be relocated so that an independent third party can examine the PARS licensee's 2 GHz system and prepare an estimate of the cost and the time needed to relocate the PARS licensee to comparable facilities. The ET licensee must pay for any such estimate.
- (d) Mandatory Negotiations. If a relocation agreement is not reached during the two year voluntary period, the ET licensee may initiate a mandatory negotiation period. This mandatory period is triggered at the option of the ET licensee, but ET licensees may not invoke their right to mandatory negotiation until the voluntary negotiation period has expired. Once mandatory negotiations have begun, a PARS 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. In evaluating claims that a party has not negotiated in good faith, the FCC will consider, inter alia, the following factors:
- (1) Whether the ET licensee has made a bona fide offer to relocate the PARS licensee to comparable facilities in

accordance with Section 101.75(b) of this chapter;

- (2) If the PARS licensee has demanded a premium, the type of premium requested (e.g., whether the premium is directly related to relocation, such as system-wide relocations and 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;
- (4) Whether either party has withheld information requested by the other party that is necessary to estimate relocation costs or to facilitate the relocation process. 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.
- (e) Involuntary period. After the periods specified in paragraph (b) of this section have expired, ET licensees may initiate involuntary relocation procedures under the Commission's rules. ET licensees are obligated to pay to relocate only the specific microwave links to which their systems pose an interference problem. Under involuntary relocation, a PARS licensee is required to relocate, provided that:
- (1) The ET applicant, provider, licensee or representative 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 PARS 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. ET licensees are not required to pay PARS licensees for internal resources devoted to the relocation process. ET licensees are not required to pay for transaction costs incurred by PARS licensees during the voluntary or mandatory periods once the involuntary period is initiated or for fees that cannot be legitimately tied to the provision of comparable facilities;
- (2) The ET applicant, provider, licensee or representative completes all activities necessary for implementing the replacement facilities, including engineering and cost analysis of the relocation procedure and, if radio facilities are involved, identifying and obtaining, on the incumbents behalf, new channels and frequency coordination; and,
- (3) The ET applicant, provider, licensee or representative builds the replacement system and tests it for comparability with the existing 2 GHz system.
- (f) Comparable Facilities. The replacement system provided to an incumbent during an involuntary relocation must be at least equivalent to the existing PARS 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. If analog facilities are being replaced with analog, the ET licensee is required to provide the PARS licensee with an equivalent number of 4 kHz voice channels. If digital facilities are being replaced with digital, the ET licensee must provide the PARS licensee with equivalent data loading bits per second (bps). ET licensees must provide PARS licensees with enough throughput to satisfy the PARS licensee's system use at the time of relocation, not match the total capacity of the PARS system.
- (2) Reliability. System reliability is the degree to which information is transferred accurately within a system. ET licensees must provide PARS 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 voice transmissions, it is measured by the percent of time that audio signal quality meets an established threshold. If an analog voice system is replaced with a digital voice 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 PARS system. ET licensees must compensate PARS licensees for any increased recurring costs associated with the replacement facilities (e.g. additional rental payments, increased utility fees) for five years after relocation. ET 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 PARS licensee must be equivalent to the 2 GHz system in order for the replacement system to be considered comparable.
- (g) The PARS licensee is not required to relocate until the alternative facilities are available to it for a reasonable time to make adjustments, determine comparability, and ensure a seamless handoff.
- (h) The Commission's Twelve-Month Trial Period. If, within one year after the relocation to new facilities, the PARS licensee demonstrates that the new facilities are not comparable to the former facilities, the ET applicant, provider, licensee or representative must remedy the defects or pay to relocate the PARS 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 (f) of this section. This trial period commences on the date that the PARS licensee begins full operation of the replacement link. If the PARS 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.
- (i) After April 25, 1996, all major modifications and extensions to existing PARS systems operating on channels in the 2110-2130 and 2160-2180 MHz bands will be authorized on a secondary basis to future ET operations. All other modifications will render the modified PARS license secondary to future ET operations unless the incumbent affirmatively justifies primary status and the incumbent PARS licensee establishes that the modification would not add to the relocation costs of ET licensees. Incumbent PARS licensees will maintain primary status for the following technical changes:
- (1) Decreases in power;
- (2) Minor changes (increases or decreases) in antenna height;
- (3) Minor location changes (up to two seconds);
- (4) Any data correction which does not involve a change in the location of an existing facility;
- (5) Reductions in authorized bandwidth;
- (6) Minor changes (increases or decreases) in structure height;
- (7) Changes (increases or decreases) in ground elevation that do not affect centerline height;
- (8) Minor equipment changes.
- (j) Sunset. PARS licensees will maintain primary status in the 2110-2130 and 2160-2180 MHz bands unless and until an ET licensee requires use of the spectrum. ET licensees are not required to pay relocation costs after the relocation rules sunset (i.e. ten years after the voluntary period begins for the first ET licensees in the service). Once the relocation rules sunset, an ET licensee may require the incumbent to cease operations, provided that the ET licensee intends to turn on a system within interference range of the incumbent, as determined by TIA Bulletin 10-F or any standard successor. ET licensee notification to the affected PARS 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 PARS licensee must turn its licensee back into the Commission, unless the parties have entered into an agreement which allows the PARS licensee to continue to operate on a mutually agreed upon basis. 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 (e.g., if public safety communications services would be disrupted).

#### § 22.603 488-494 MHz fixed service in Hawaii.

Before filing applications for authorization of inter-island control and/or repeater stations, applicants must coordinate the planned channel usage with existing licensees and other applicants with previously filed applications, using the procedure outlined in § 22.150. Applicants and licensees shall cooperate fully and make reasonable efforts to resolve any channel usage conflicts. In situations where technical solutions to such conflicts cannot be devised, the FCC may select a channel or channels to assign or may designate the application(s) for hearing. To be acceptable for filing, applications and major technical amendments must contain a certification that coordination has been completed and an exhibit listing the name(s) of the licensees and applicants with which the planned channel usage has been coordinated.

#### § 22.623 System configuration.

This section requires a minimum configuration for point-to-multipoint systems using the channels listed in § 22.621.

- (a) 928-960 MHz. The channels may be assigned, individually or paired, only to fixed transmitters in a system that controls at least four public mobile base transmitters that transmit on the same channel. If a 932-933 MHz channel and a 941-942 MHz channel are assigned as a pair, the 941-942 MHz channel must be assigned only to control transmitters; the 932-933 MHz channel may be assigned to control or fixed relay transmitters.
- (b) 470-512 MHz. These channels may be assigned only individually (unpaired), to control transmitters that directly control at least four public mobile base transmitters that transmit on the same channel. Fixed relay transmitters are not authorized.
- (c) Selection and assignment. The FCC selects and assigns a channel when granting applications for authorization to operate a new station to transmit in the 470-512, 932-933 and 941-942 MHz frequency ranges. Applicants having a preference may request the assignment of a specific channel or channel pair, but the FCC may in some cases be unable to satisfy such requests.

### § 22.625 Transmitter locations.

This section governs where point-to-multipoint transmitters on the channels listed in § 22.621 may be located.

- (a) 928-960 MHz. In this frequency range, the required minimum distance separation between co-channel fixed transmitters is 113 kilometers (70 miles). However, this requirement may be waived if the applicant submits an engineering analysis that shows that no interference would be caused to either system. In such a case, a developmental authorization may be issued (see § 22.415). If no interference is experienced during the term of the developmental authorization, the licensee may apply for a regular authorization.
- (b) 470-512 MHz. The purpose of the rule in paragraph (b)(1) of this section is to define the areas in which the 470-512 MHz channels are allocated for public mobile use. The purpose of the rules in paragraphs (b)(2) and (b)(3) of this section is to reduce the likelihood that interference to television reception from public mobile operations on these channels will occur.
- (1) Control transmitter locations. Control transmitter locations must be within 80 kilometers (50 miles) of the

Urban area	N. latitude	W. longitude
Boston, MA	42°21'24.4"	71°03'22.2"
Chicago, IL	41°52'28.1"	87°38'22.2"
Cleveland, OH	41°29'51.2"	81°41'49.5"
Dallas, TX	32°47'09.5"	96°47'38.0"
Detroit, MI	42°19'48.1"	83°02'56.7"
Houston, TX	29°45'26.8"	95°21'37.8"
	34°03'15.0"	
•	25°46'38.6"	
New York, NY	40°45'6.4"	73°59'37.5"
	39°56'58.4"	
-	40°26'19.2"	
•		" 122°24'43.9'
	38°53'51.4"	

Note: Coordinates are referenced to North American Datum 1983 (NAD 83).

- (2) Protection from intermodulation interference. Control transmitter locations must be at least 1.6 kilometers (1 mile) from the main transmitter locations of all TV stations transmitting on TV channels separated by 2, 3, 4, 5, 7, or 8 TV channels from the TV channel containing the frequencies on which the control station will transmit. This requirement is intended to reduce the likelihood of intermodulation interference.
- (3) Co-channel protection from control transmitters with high antennas. This paragraph applies only to control transmitters that utilize an antenna height of more than 152 meters (500 feet) above average terrain. The distance between the location of such a control transmitter and the applicable protected TV station location specified in this paragraph must equal or exceed the sum of the distance from the control transmitter location to the radio horizon in the direction of the specified location and 89 kilometers (55 miles--representing the distance from the main transmitter location of the TV station to its Grade B contour in the direction of the control transmitter). The protected TV station locations in this paragraph are the locations of record as of September 1974, and these do not change even though the TV stations may have been subsequently relocated.
- (i) The protected TV station locations are as follows:

Control transmitter frequence range	cy Protected TV station location
	Washington, DC 38°57'17" 77°00'17" Lancaster, PA 40°15'45" 76°27'49"

(ii) The distance to the radio horizon is calculated using the following formula:

$$d = \sqrt{17xh}$$

where

d is the distance to the radio horizon in kilometers

h is the height of the antenna center of radiation above ground level in meters

### PART 1--PRACTICE AND PROCEDURE SUBPART Q--COMPETITIVE BIDDING PROCEEDINGS

### § 1.2101 Purpose.

The provisions of this subpart implement Section 309(j) of the Communications Act of 1934, as added by the Omnibus Budget Reconciliation Act of 1993 (Pub.L. 103-66) and the Balanced Budget Act of 1997 (Pub.L. 105-33), authorizing the Commission to employ competitive bidding procedures to choose from among two or more mutually exclusive applications for certain initial licenses.

- § 1.2102 Eligibility of applications for competitive bidding.
- (a) Mutually exclusive initial applications are subject to competitive bidding.
- (b) The following types of license applications are not subject to competitive bidding procedures:
- (1) Public safety radio services, including private internal radio services used by state and local governments and non-government entities and including emergency road services provided by not-for-profit organizations, that
- (i) Are used to protect the safety of life, health, or property; and
- (ii) Are not commercially available to the public;
- (2) Initial licenses or construction permits for digital television service given to existing terrestrial broadcast licensees to replace their analog television service licenses; or
- (3) Noncommercial educational and public broadcast stations described under 47 U.S.C. 397(6).

Note to § 1.2102: To determine the rules that apply to competitive bidding, specific service rules should also be consulted.

- § 1.2103 Competitive bidding design options.
- (a) The Commission will choose from one or more of the following types of auction designs for services or classes of services subject to competitive bidding:
- (1) Simultaneous multiple-round auctions (using remote or on-site electronic bidding);
- (2) Sequential multiple round auctions (using either oral ascending or remote and/or on-site electronic bidding);
- (3) Sequential or simultaneous single-round auctions (using either sealed paper or remote and/or on-site electronic bidding); and
- (4) Combinatorial (package/contingent) bidding auctions.
- (b) The Commission may use combinatorial bidding, which would allow bidders to submit all or nothing bids on combinations of licenses or authorizations, in addition to bids on individual licenses or authorizations. The Commission may require that to be declared the high bid, a combinatorial bid must exceed the sum of the individual bids by a specified amount. Combinatorial bidding may be used with any type of auction. The Commission may also allow bidders to submit contingent bids on individual and/or combinations of licenses.
- (c) The Commission may use single combined auctions, which combine bidding for two or more substitutable

licenses and award licenses to the highest bidders until the available licenses are exhausted. This technique may be used in conjunction with any type of auction.

- (d) The Commission may use real time bidding in all electronic auction designs.
- § 1.2104 Competitive bidding mechanisms.
- (a) Sequencing. The Commission will establish the sequence in which multiple licenses will be auctioned.
- (b) Grouping. In the event the Commission uses either a simultaneous multiple round competitive bidding design or combinatorial bidding, the Commission will determine which licenses will be auctioned simultaneously or in combination.
- (c) Reservation Price. The Commission may establish a reservation price, either disclosed or undisclosed, below which a license subject to auction will not be awarded.
- (d) Minimum Bid Increments, Minimum Opening Bids and Maximum Bid Increments. The Commission may, by announcement before or during an auction, require minimum bid increments in dollar or percentage terms. The Commission also may establish minimum opening bids and maximum bid increments on a service-specific basis.
- (e) Stopping Rules. The Commission may establish stopping rules before or during multiple round auctions in order to terminate the auctions within a reasonable time.
- (f) Activity Rules. The Commission may establish activity rules which require a minimum amount of bidding activity.
- (g) Withdrawal, Default and Disqualification Payment. As specified below, when the Commission conducts an auction pursuant to § 1.2103, the Commission will impose payments on bidders who withdraw high bids during the course of an auction, or who default on payments due after an auction closes or who are disqualified.
- (1) Bid withdrawal prior to close of auction. A bidder who withdraws a high bid during the course of an auction is subject to a payment equal to the difference between the amount bid and the amount of the winning bid the next time the license is offered by the Commission. The bid withdrawal payment is either the difference between the net withdrawn bid and the subsequent net winning bid, or the difference between the gross withdrawn bid and the subsequent gross winning bid, whichever is less. No withdrawal payment is assessed if the subsequent winning bid exceeds the withdrawn bid. This payment amount is deducted from any upfront payments or down payments that the withdrawing bidder has deposited with the Commission.
- (2) Default or disqualification after close of auction. If a high bidder defaults or is disqualified after the close of such an auction, the defaulting bidder will be subject to the payment in paragraph (g)(1) of this section plus an additional payment equal to 3 percent of the subsequent winning bid. If the subsequent winning bid exceeds the defaulting bidder's bid amount, the 3 percent payment will be calculated based on the defaulting bidder's bid amount. If either bid amount is subject to a bidding credit, the 3 percent credit will be calculated using the same bid amounts and basis (net or gross bids) as in the calculation of the payment in paragraph (g)(1) of this section. Thus, for example, if gross bids are used to calculate the payment in paragraph (g)(1) of this section, the 3 percent will be applied to the gross amount of the subsequent winning bid, or the gross amount of the defaulting bid, whichever is less.
- (h) The Commission will generally release information concerning the identities of bidders before each auction but may choose, on an auction-by- auction basis, to withhold the identity of the bidders associated with bidder identification numbers.
- (i) The Commission may delay, suspend, or cancel an auction in the event of a natural disaster, technical obstacle,

evidence of security breach, unlawful bidding activity, administrative necessity, or for any other reason that affects the fair and efficient conduct of the competitive bidding. The Commission also has the authority, at its sole discretion, to resume the competitive bidding starting from the beginning of the current or some previous round or cancel the competitive bidding in its entirety.

- § 1.2105 Bidding application and certification procedures; prohibition of collusion.
- (a) Submission of Short-Form Application (FCC Form 175). In order to be eligible to bid, an applicant must timely submit a short-form application (FCC Form 175), together with any appropriate upfront payment set forth by Public Notice. Beginning January 1, 1999, all short-form applications must be filed electronically.
- (1) All short-form applications will be due:
- (i) On the date(s) specified by public notice; or
- (ii) In the case of application filing dates which occur automatically by operation of law (see, e.g., 47 CFR 22.902), on a date specified by public notice after the Commission has reviewed the applications that have been filed on those dates and determined that mutual exclusivity exists.
- (2) The short-form application must contain the following information:
- (i) Identification of each license on which the applicant wishes to bid;
- (ii)(A) The applicant's name, if the applicant is an individual. If the applicant is a corporation, then the short-form application will require the name and address of the corporate office and the name and title of an officer or director. If the applicant is a partnership, then the application will require the name, citizenship and address of all general partners, and, if a partner is not a natural person, then the name and title of a responsible person should be included as well. If the applicant is a trust, then the name and address of the trustee will be required. If the applicant is none of the above, then it must identify and describe itself and its principals or other responsible persons; and
- (B) Applicant ownership information, as set forth in § 1.2112.
- (iii) The identity of the person(s) authorized to make or withdraw a bid;
- (iv) If the applicant applies as a designated entity pursuant to § 1.2110, a statement to that effect and a declaration, under penalty of perjury, that the applicant is qualified as a designated entity under § 1.2110.
- (v) Certification that the applicant is legally, technically, financially and otherwise qualified pursuant to section 308(b) of the Communications Act of 1934, as amended. The Commission will accept applications certifying that a request for waiver or other relief from the requirements of section 310 is pending;
- (vi) Certification that the applicant is in compliance with the foreign ownership provisions of section 310 of the Communications Act of 1934, as amended;
- (vii) Certification that the applicant is and will, during the pendency of its application(s), remain in compliance with any service-specific qualifications applicable to the licenses on which the applicant intends to bid including, but not limited to, financial qualifications. The Commission may require certification in certain services that the applicant will, following grant of a license, come into compliance with certain service-specific rules, including, but not limited to, ownership eligibility limitations;
- (viii) An exhibit, certified as truthful under penalty of perjury, identifying all parties with whom the applicant has entered into partnerships, joint ventures, consortia or other agreements, arrangements or understandings of any

kind relating to the licenses being auctioned, including any such agreements relating to the post-auction market structure.

- (ix) Certification under penalty of perjury that it has not entered and will not enter into any explicit or implicit agreements, arrangements or understandings of any kind with any parties other than those identified pursuant to paragraph (a)(2)(viii) regarding the amount of their bids, bidding strategies or the particular licenses on which they will or will not bid.
- (x) Certification that the applicant is not in default on any Commission licenses and that it is not delinquent on any non-tax debt owed to any Federal agency.
- (xi) For C block applicants, an attached statement made under penalty of perjury indicating whether or not the applicant has ever been in default on any Commission licenses or has ever been delinquent on any non-tax debt owed to any Federal agency.

Note to paragraph (a): The Commission may also request applicants to submit additional information for informational purposes to aid in its preparation of required reports to Congress.

- (b) Modification and Dismissal of Short-Form Application (FCC Form 175).
- (1) Any short-form application (FCC Form 175) that does not contain all of the certifications required pursuant to this section is unacceptable for filing and cannot be corrected subsequent to the applicable filing deadline. The application will be dismissed with prejudice and the upfront payment, if paid, will be returned.
- (2) The Commission will provide bidders a limited opportunity to cure defects specified herein (except for failure to sign the application and to make certifications) and to resubmit a corrected application. During the resubmission period for curing defects, a short-form application may be amended or modified to cure defects identified by the Commission or to make minor amendments or modifications. After the resubmission period has ended, a short- form application may be amended or modified to make minor changes or correct minor errors in the application. Major amendments cannot be made to a short- form application after the initial filing deadline. Major amendments include changes in ownership of the applicant that would constitute an assignment or transfer of control, changes in an applicant's size which would affect eligibility for designated entity provisions, and changes in the license service areas identified on the short-form application on which the applicant intends to bid. Minor amendments include, but are not limited to, the correction of typographical errors and other minor defects not identified as major. An application will be considered to be newly filed if it is amended by a major amendment and may not be resubmitted after applicable filing deadlines.
- (3) Applicants who fail to correct defects in their applications in a timely manner as specified by public notice will have their applications dismissed with no opportunity for resubmission.
- (c) Prohibition of collusion.
- (1) Except as provided in paragraphs (c)(2), (c)(3) and (c)(4) of this section, after the filing of short-form applications, all applicants are prohibited from cooperating, collaborating, discussing or disclosing in any manner the substance of their bids or bidding strategies, or discussing or negotiating settlement agreements, with other applicants until after the high bidder makes the required down payment, unless such applicants are members of a bidding consortium or other joint bidding arrangement identified on the bidder's short-form application pursuant to § 1.2105(a)(2)(viii).
- (2) Applicants may modify their short-form applications to reflect formation of consortia or changes in ownership at any time before or during an auction, provided such changes do not result in a change in control of the applicant, and provided that the parties forming consortia or entering into ownership agreements have not applied for licenses in any of the same geographic license areas. Such changes will not be considered major modifications of the application.

- (3) After the filing of short-form applications, applicants may make agreements to bid jointly for licenses, provided the parties to the agreement have not applied for licenses in any of the same geographic license areas.
- (4) After the filing of short-form applications, a holder of a non-controlling attributable interest in an entity submitting a short-form application may acquire an ownership interest in, form a consortium with, or enter into a joint bidding arrangement with, other applicants for licenses in the same geographic license area, provided that:
- (i) The attributable interest holder certifies to the Commission that it has not communicated and will not communicate with any party concerning the bids or bidding strategies of more than one of the applicants in which it holds an attributable interest, or with which it has a consortium or joint bidding arrangement, and which have applied for licenses in the same geographic license area(s); and
- (ii) The arrangements do not result in any change in control of an applicant; or
- (iii) When an applicant has withdrawn from the auction, is no longer placing bids and has no further eligibility, a holder of a non-controlling, attributable interest in such an applicant may obtain an ownership interest in or enter into a consortium with another applicant for a license in the same geographic service area, provided that the attributable interest holder certifies to the Commission that it did not communicate with the new applicant prior to the date that the original applicant withdrew from the auction.
- (5) Applicants must modify their short-form applications to reflect any changes in ownership or in membership of consortia or joint bidding arrangements.
- (6) For purposes of this paragraph:
- (i) The term applicant shall include all controlling interests in the entity submitting a short-form application to participate in an auction (FCC Form 175), as well as all holders of partnership and other ownership interests and any stock interest amounting to 10 percent or more of the entity, or outstanding stock, or outstanding voting stock of the entity submitting a short-form application, and all officers and directors of that entity; and
- (ii) The term bids or bidding strategies shall include capital calls or requests for additional funds in support of bids or bidding strategies.

Example: Company A is an applicant in area 1. Company B and Company C each own 10 percent of Company A. Company D is an applicant in area 1, area 2, and area 3. Company C is an applicant in area 3. Without violating the Commission's Rules, Company B can enter into a consortium arrangement with Company D or acquire an ownership interest in Company D if Company B certifies either (1) that it has communicated with and will communicate neither with Company A or anyone else concerning Company A's bids or bidding strategy, nor with Company C or anyone else concerning Company C's bids or bidding strategy, or (2) that it has not communicated with and will not communicate with Company D or anyone else concerning Company D's bids or bidding strategy.

#### § 1.2106 Submission of upfront payments.

- (a) The Commission may require applicants for licenses subject to competitive bidding to submit an upfront payment. In that event, the amount of the upfront payment and the procedures for submitting it will be set forth in a Public Notice. No interest will be paid on upfront payments.
- (b) Upfront payments must be made by wire transfer in U.S. dollars from a financial institution whose deposits are insured by the Federal Deposit Insurance Corporation and must be made payable to the Federal Communications Commission.

- (c) If an upfront payment is not in compliance with the Commission's Rules, or if insufficient funds are tendered to constitute a valid upfront payment, the applicant shall have a limited opportunity to correct its submission to bring it up to the minimum valid upfront payment prior to the auction. If the applicant does not submit at least the minimum upfront payment, it will be ineligible to bid, its application will be dismissed and any upfront payment it has made will be returned.
- (d) The upfront payment(s) of a bidder will be credited toward any down payment required for licenses on which the bidder is the high bidder. Where the upfront payment amount exceeds the required deposit of a winning bidder, the Commission may refund the excess amount after determining that no bid withdrawal penalties are owed by that bidder.
- (e) In accordance with the provisions of paragraph (d), in the event a penalty is assessed pursuant to § 1.2104 for bid withdrawal or default, upfront payments or down payments on deposit with the Commission will be used to satisfy the bid withdrawal or default penalty before being applied toward any additional payment obligations that the high bidder may have.
- § 1.2107 Submission of down payment and filing of long-form applications.
- (a) After bidding has ended, the Commission will identify and notify the high bidder and declare the bidding closed.
- (b) Unless otherwise specified by public notice, within ten (10) business days after being notified that it is a high bidder on a particular license(s), a high bidder must submit to the Commission's lockbox bank such additional funds (the "down payment") as are necessary to bring its total deposits (not including upfront payments applied to satisfy bid withdrawal or default payments) up to twenty (20) percent of its high bid(s). (In single round sealed bid auctions conducted under § 1.2103, however, bidders may be required to submit their down payments with their bids.) Unless otherwise specified by public notice, this down payment must be made by wire transfer in U.S. dollars from a financial institution whose deposits are insured by the Federal Deposit Insurance Corporation and must be made payable to the Federal Communications Commission. Down payments will be held by the Commission until the high bidder has been awarded the license and has paid the remaining balance due on the license or authorization, in which case it will not be returned, or until the winning bidder is found unqualified to be a licensee or has defaulted, in which case it will be returned, less applicable payments. No interest on any down payment will be paid to the bidders.
- (c) A high bidder that meets its down payment obligations in a timely manner must, within ten (10) business days after being notified that it is a high bidder, submit an additional application (the "long-form application") pursuant to the rules governing the service in which the applicant is the high bidder. Notwithstanding any other provision in title 47 of the Code of Federal Regulations to the contrary, high bidders need not submit an additional application filing fee with their long-form applications. Specific procedures for filing applications will be set out by Public Notice. Ownership disclosure requirements are set forth in § 1.2112. Beginning January 1, 1999, all long-form applications must be filed electronically. An applicant that fails to submit the required long-form application under this paragraph and fails to establish good cause for any late-filed submission, shall be deemed to have defaulted and will be subject to the payments set forth in § 1.2104.
- (d) As an exhibit to its long-form application, the applicant must provide a detailed explanation of the terms and conditions and parties involved in any bidding consortia, joint venture, partnership or other agreement or arrangement it had entered into relating to the competitive bidding process prior to the time bidding was completed. Such agreements must have been entered into prior to the filing of short-form applications pursuant to § 1.2105.
- (e) An applicant must also submit FCC Form 602 (see § 1.919 of this chapter) with its long form application (FCC Form 601).

- § 1.2108 Procedures for filing petitions to deny against long-form applications.
- (a) Where petitions to deny are otherwise provided for under the Act or the commission's Rules, and unless other service-specific procedures for the filing of such petitions are provided for elsewhere in the Commission's Rules, the procedures in this section shall apply to the filing of petitions to deny the long-form applications of winning bidders.
- (b) Within a period specified by Public Notice, and after the Commission by public notice announces that long-form applications have been accepted for filing, petitions to deny such applications may be filed. In all cases, the period for filing petitions to deny shall be no shorter than five (5) days. Any such petitions must contain allegations of fact supported by affidavit of a person or persons with personal knowledge thereof.
- (c) An applicant may file an opposition to any petition to deny, and the petitioner a reply to such opposition. Allegations of fact or denials thereof must be supported by affidavit of a person or persons with personal knowledge thereof. The time for filing such oppositions shall be at least five (5) days from the filing date for petitions to deny, and the time for filing replies shall be at least five (5) days from the filing date for oppositions. The Commission may grant a license based on any long-form application that has been accepted for filing. The Commission shall in no case grant licenses earlier than seven (7) days following issuance of a public notice announcing long-form applications have been accepted for filing.
- (d) If the Commission determines that:
- (1) an applicant is qualified and there is no substantial and material issue of fact concerning that determination, it will grant the application.
- (2) an applicant is not qualified and that there is no substantial issue of fact concerning that determination, the Commission need not hold a evidentiary hearing and will deny the application.
- (3) substantial and material issues of fact require a hearing, it will conduct a hearing. The Commission may permit all or part of the evidence to be submitted in written form and may permit employees other than administrative law judges to preside at the taking of written evidence. Such hearing will be conducted on an expedited basis.
- § 1.2109 License grant, denial, default, and disqualification.
- (a) Unless otherwise specified by public notice, auction winners are required to pay the balance of their winning bids in a lump sum within ten (10) business days following the release of a public notice establishing the payment deadline. If a winning bidder fails to pay the balance of its winning bids in a lump sum by the applicable deadline as specified by the Commission, it will be allowed to make payment within ten (10) business days after the payment deadline, provided that it also pays a late fee equal to five percent of the amount due. When a winning bidder fails to pay the balance of its winning bid by the late payment deadline, it is considered to be in default on its license(s) and subject to the applicable default payments. Licenses will be awarded upon the full and timely payment of winning bids and any applicable late fees.
- (b) If a winning bidder withdraws its bid after the Commission has declared competitive bidding closed or fails to remit the required down payment within ten (10) business days after the Commission has declared competitive bidding closed, the bidder will be deemed to have defaulted, its application will be dismissed, and it will be liable for the default payment specified in § 1.2104(g)(2). In such event, the Commission, at its discretion, may either reauction the license to existing or new applicants or offer it to the other highest bidders (in descending order) at their final bids. The down payment obligations set forth in § 1.2107(b) will apply.
- (c) A winning bidder who is found unqualified to be a licensee, fails to remit the balance of its winning bid in a

timely manner, or defaults or is disqualified for any reason after having made the required down payment, will be deemed to have defaulted and will be liable for the payment set forth in § 1.2104(g)(2). In such event, the Commission may either re-auction the license to existing or new applicants or offer it to the other highest bidders (in descending order) at their final bids.

(d) Bidders who are found to have violated the antitrust laws or the Commission's rules in connection with their participation in the competitive bidding process may be subject, in addition to any other applicable sanctions, to forfeiture of their upfront payment, down payment or full bid amount, and may be prohibited from participating in future auctions.

#### § 1.2110 Designated entities.

- (a) Designated entities are small businesses, businesses owned by members of minority groups and/or women, and rural telephone companies.
- (b) Definitions.
- (1) Small businesses. The Commission will establish the definition of a small business on a service-specific basis, taking into consideration the characteristics and capital requirements of the particular service.
- (2) Businesses owned by members of minority groups and/or women. Unless otherwise provided in rules governing specific services, a business owned by members of minority groups and/or women is one in which minorities and/or women who are U.S. citizens control the applicant, have at least 50.1 percent equity ownership and, in the case of a corporate applicant, a 50.1 percent voting interest. For applicants that are partnerships, every general partner either must be a minority and/or woman (or minorities and/or women) who are U.S. citizens and who individually or together own at least 50.1 percent of the partnership equity, or an entity that is 100 percent owned and controlled by minorities and/or women who are U.S. citizens. The interests of minorities and women are to be calculated on a fully-diluted basis; agreements such as stock options and convertible debentures shall be considered to have a present effect on the power to control an entity and shall be treated as if the rights thereunder already have been fully exercised. However, upon a demonstration that options or conversion rights held by non-controlling principals will not deprive the minority and female principals of a substantial financial stake in the venture or impair their rights to control the designated entity, a designated entity may seek a waiver of the requirement that the equity of the minority and female principals must be calculated on a fully-diluted basis. The term minority includes individuals of African American, Hispanic-surnamed, American Eskimo, Aleut, American Indian and Asian American extraction.
- (3) Rural telephone companies. A rural telephone company is any local exchange carrier operating entity to the extent that such entity--
- (i) provides common carrier service to any local exchange carrier study area that does not include either
- (A) any incorporated place of 10,000 inhabitants or more, or any part thereof, based on the most recently available population statistics of the Bureau of the Census, or
- (B) any territory, incorporated or unincorporated, included in an urbanized area, as defined by the Bureau of the Census as of August 10, 1993;
- (ii) provides telephone exchange service, including exchange access, to fewer than 50,000 access lines;
- (iii) provides telephone exchange service to any local exchange carrier study area with fewer than 100,000 access lines; or
- (iv) has less than 15 percent of its access lines in communities of more than 50,000 on the date of enactment of the

Telecommunications Act of 1996.

- (4) Affiliate.
- (i) An individual or entity is an affiliate of an applicant or of a person holding an attributable interest in an applicant if such individual or entity--
- (A) Directly or indirectly controls or has the power to control the applicant, or
- (B) Is directly or indirectly controlled by the applicant, or
- (C) Is directly or indirectly controlled by a third party or parties that also controls or has the power to control the applicant, or
- (D) Has an "identity of interest" with the applicant.
- (ii) Nature of control in determining affiliation.
- (A) Every business concern is considered to have one or more parties who directly or indirectly control or have the power to control it. Control may be affirmative or negative and it is immaterial whether it is exercised so long as the power to control exists.

Example. An applicant owning 50 percent of the voting stock of another concern would have negative power to control such concern since such party can block any action of the other stockholders. Also, the bylaws of a corporation may permit a stockholder with less than 50 percent of the voting stock to block any actions taken by the other stockholders in the other entity. Affiliation exists when the applicant has the power to control a concern while at the same time another person, or persons, are in control of the concern at the will of the party or parties with the power to control.

- (B) Control can arise through stock ownership; occupancy of director, officer or key employee positions; contractual or other business relations; or combinations of these and other factors. A key employee is an employee who, because of his/her position in the concern, has a critical influence in or substantive control over the operations or management of the concern.
- (C) Control can arise through management positions where a concern's voting stock is so widely distributed that no effective control can be established.

Example. In a corporation where the officers and directors own various size blocks of stock totaling 40 percent of the corporation's voting stock, but no officer or director has a block sufficient to give him or her control or the power to control and the remaining 60 percent is widely distributed with no individual stockholder having a stock interest greater than 10 percent, management has the power to control. If persons with such management control of the other entity are persons with attributable interests in the applicant, the other entity will be deemed an affiliate of the applicant.

(iii) Identity of interest between and among persons. Affiliation can arise between or among two or more persons with an identity of interest, such as members of the same family or persons with common investments. In determining if the applicant controls or has the power to control a concern, persons with an identity of interest will be treated as though they were one person.

Example. Two shareholders in Corporation Y each have attributable interests in the same PCS application. While neither shareholder has enough shares to individually control Corporation Y, together they have the power to control Corporation Y. The two shareholders with these common investments (or identity in interest) are treated as though they are one person and Corporation Y would be deemed an affiliate of the applicant.

- (A) Spousal affiliation. Both spouses are deemed to own or control or have the power to control interests owned or controlled by either of them, unless they are subject to a legal separation recognized by a court of competent jurisdiction in the United States. In calculating their net worth, investors who are legally separated must include their share of interests in property held jointly with a spouse.
- (B) Kinship affiliation. Immediate family members will be presumed to own or control or have the power to control interests owned or controlled by other immediate family members. In this context "immediate family member" means father, mother, husband, wife, son, daughter, brother, sister, father- or mother-in-law, son- or daughter-in-law, brother- or sister-in-law, step-father or -mother, step-brother or -sister, step-son or -daughter, half brother or sister. This presumption may be rebutted by showing that the family members are estranged, the family ties are remote, or the family members are not closely involved with each other in business matters.

Example. A owns a controlling interest in Corporation X. A's sister-in-law, B, has an attributable interest in a PCS application. Because A and B have a presumptive kinship affiliation, A's interest in Corporation Y is attributable to B, and thus to the applicant, unless B rebuts the presumption with the necessary showing.

- (iv) Affiliation through stock ownership.
- (A) An applicant is presumed to control or have the power to control a concern if he or she owns or controls or has the power to control 50 percent or more of its voting stock.
- (B) An applicant is presumed to control or have the power to control a concern even though he or she owns, controls or has the power to control less than 50 percent of the concern's voting stock, if the block of stock he or she owns, controls or has the power to control is large as compared with any other outstanding block of stock.
- (C) If two or more persons each owns, controls or has the power to control less than 50 percent of the voting stock of a concern, such minority holdings are equal or approximately equal in size, and the aggregate of these minority holdings is large as compared with any other stock holding, the presumption arises that each one of these persons individually controls or has the power to control the concern; however, such presumption may be rebutted by a showing that such control or power to control, in fact, does not exist.
- (v) Affiliation arising under stock options, convertible debentures, and agreements to merge. Stock options, convertible debentures, and agreements to merge (including agreements in principle) are generally considered to have a present effect on the power to control the concern. Therefore, in making a size determination, such options, debentures, and agreements are generally treated as though the rights held thereunder had been exercised. However, an affiliate cannot use such options and debentures to appear to terminate its control over another concern before it actually does so.
- Example 1. If company B holds an option to purchase a controlling interest in company A, who holds an attributable interest in a PCS application, the situation is treated as though company B had exercised its rights and had come owner of a controlling interest in company A. The gross revenues of company B must be taken into account in determining the size of the applicant.
- Example 2. If a large company, BigCo, holds 70% (70 of 100 outstanding shares) of the voting stock of company A, who holds an attributable interest in a PCS application, and gives a third party, SmallCo, an option to purchase 50 of the 70 shares owned by BigCo, BigCo will be deemed to be an affiliate of company A, and thus the applicant, until SmallCo actually exercises its option to purchase such shares. In order to prevent BigCo from circumventing the intent of the rule which requires such options to be considered on a fully diluted basis, the option is not considered to have present effect in this case.
- Example 3. If company A has entered into an agreement to merge with company B in the future, the situation is treated as though the merger has taken place.
- (vi) Affiliation under voting trusts.

- (A) Stock interests held in trust shall be deemed controlled by 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.
- (B) If a trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the stock interests held in trust will be deemed controlled by the grantor or beneficiary, as appropriate.
- (C) If the primary purpose of a voting trust, or similar agreement, is to separate voting power from beneficial ownership of voting stock for the purpose of shifting control of or the power to control a concern in order that such concern or another concern may meet the Commission's size standards, such voting trust shall not be considered valid for this purpose regardless of whether it is or is not recognized within the appropriate jurisdiction.
- (vii) Affiliation through common management. Affiliation generally arises where officers, directors, or key employees serve as the majority or otherwise as the controlling element of the board of directors and/or the management of another entity.
- (viii) Affiliation through common facilities. Affiliation generally arises where one concern shares office space and/or employees and/or other facilities with another concern, particularly where such concerns are in the same or related industry or field of operations, or where such concerns were formerly affiliated, and through these sharing arrangements one concern has control, or potential control, of the other concern.
- (ix) Affiliation through contractual relationships. Affiliation generally arises where one concern is dependent upon another concern for contracts and business to such a degree that one concern has control, or potential control, of the other concern.
- (x) Affiliation under joint venture arrangements.
- (A) A joint venture for size determination purposes is an association of concerns and/or individuals, with interests in any degree or proportion, formed by contract, express or implied, to engage in and carry out a single, specific business venture for joint profit for which purpose they combine their efforts, property, money, skill and knowledge, but not on a continuing or permanent basis for conducting business generally. The determination whether an entity is a joint venture is based upon the facts of the business operation, regardless of how the business operation may be designated by the parties involved. An agreement to share profits/losses proportionate to each party's contribution to the business operation is a significant factor in determining whether the business operation is a joint venture.
- (B) The parties to a joint venture are considered to be affiliated with each other. Nothing in this subsection shall be construed to define a small business consortium, for purposes of determining status as a designated entity, as a joint venture under attribution standards provided in this section.
- (xi) Exclusion from affiliation coverage. For purposes of this section, Indian tribes or Alaska Regional or Village Corporations organized pursuant to the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.), or entities owned and controlled by such tribes or corporations, are not considered affiliates of an applicant (or licensee) that is owned and controlled by such tribes, corporations or entities, and that otherwise complies with the requirements of this section, except that gross revenues derived from gaming activities conducted by affiliate entities pursuant to the Indian Gaming Regulatory Act (25 U.S.C. 2701 et seq.) will be counted in determining such applicant's (or licensee's) compliance with the financial requirements of this section, unless such applicant establishes that it will not receive a substantial unfair competitive advantage because significant legal constraints restrict the applicant's ability to access such gross revenues.
- (c) The Commission may set aside specific licenses for which only eligible designated entities, as specified by the Commission, may bid.

- (d) The Commission may permit partitioning of service areas in particular services for eligible designated entities.
- (e) Bidding credits.
- (1) The Commission may award bidding credits (i.e., payment discounts) to eligible designated entities. Competitive bidding rules applicable to individual services will specify the designated entities eligible for bidding credits, the licenses for which bidding credits are available, the amounts of bidding credits and other procedures.
- (2) Size of bidding credits. A winning bidder that qualifies as a small business or a consortium of small businesses may use the following bidding credits corresponding to their respective average gross revenues for the preceding 3 years:
- (i) Businesses with average gross revenues for the preceding years, 3 years not exceeding \$3 million are eligible for bidding credits of 35 percent;
- (ii) Businesses with average gross revenues for the preceding years, 3 years not exceeding \$15 million are eligible for bidding credits of 25 percent; and
- (iii) Businesses with average gross revenues for the preceding years, 3 years not exceeding \$40 million are eligible for bidding credits of 15 percent.
- (f) Installment payments. The Commission may permit small businesses (including small businesses owned by women, minorities, or rural telephone companies that qualify as small businesses) and other entities determined to be eligible on a service-specific basis, which are high bidders for licenses specified by the Commission, to pay the full amount of their high bids in installments over the term of their licenses pursuant to the following:
- (1) Unless otherwise specified by public notice, each eligible applicant paying for its license(s) on an installment basis must deposit by wire transfer in the manner specified in § 1.2107(b) sufficient additional funds as are necessary to bring its total deposits to ten (10) percent of its winning bid(s) within ten (10) days after the Commission has declared it the winning bidder and closed the bidding. Failure to remit the required payment will make the bidder liable to pay a default payment pursuant to § 1.2104(g)(2).
- (2) Within ten (10) days of the conditional grant of the license application of a winning bidder eligible for installment payments, the licensee shall pay another ten (10) percent of the high bid, thereby commencing the eligible licensee's installment payment plan. If a winning bidder eligible for installment payments fails to submit this additional ten (10) percent of its high bid by the applicable deadline as specified by the Commission, it will be allowed to make payment within ten (10) business days after the payment deadline, provided that it also pays a late fee equal to five percent of the amount due. When a winning bidder eligible for installment payments fails to submit this additional ten (10) percent of its winning bid, plus the late fee, by the late payment deadline, it is considered to be in default on its license(s) and subject to the applicable default payments. Licenses will be awarded upon the full and timely payment of second down payments and any applicable late fees.
- (3) Upon grant of the license, the Commission will notify each eligible licensee of the terms of its installment payment plan and that it must execute a promissory note and security agreement as a condition of the installment payment plan. Unless other terms are specified in the rules of particular services, such plans will:
- (i) Impose interest based on the rate of U.S. Treasury obligations (with maturities closest to the duration of the license term) at the time of licensing;
- (ii) Allow installment payments for the full license term;
- (iii) Begin with interest-only payments for the first two years; and
- (iv) Amortize principal and interest over the remaining term of the license.

- (4) A license granted to an eligible entity that elects installment payments shall be conditioned upon the full and timely performance of the licensee's payment obligations under the installment plan.
- (i) Any licensee that fails to submit payment on an installment obligation will automatically have an additional ninety (90) days in which to submit its required payment without being considered delinquent. Any licensee making its required payment during this period will be assessed a late payment fee equal to five percent (5%) of the amount of the past due payment. Late fees assessed under this paragraph will accrue on the next business day following the payment due date. Payments made at the close of any grace period will first be applied to satisfy any lender advances as required under each licensee's "Note and Security Agreement." Afterwards, payments will be applied in the following order: late charges, interest charges, principal payments.
- (ii) If any licensee fails to make the required payment at the close of the 90-day period set forth in paragraph (i) of this section, the licensee will automatically be provided with a subsequent 90-day grace period, except that no subsequent automatic grace period will be provided for payments from C or F block licensees that are not made within 90 days of the payment resumption date for those licensees, as explained in Amendment of the Commission's Rules Regarding Installment Payment Financing for Personal Communications Services (PCS) Licensees, Order on Reconsideration of the Second Report and Order, WT Docket No. 97-82, FCC 98-46 (rel. Mar. 24, 1998). Any licensee making a required payment during this subsequent period will be assessed a late payment fee equal to ten percent (10%) of the amount of the past due payment. Licensees shall not be required to submit any form of request in order to take advantage of the initial 90-day non-delinquency period and subsequent automatic 90-day grace period. All licensees that avail themselves of the automatic grace period must pay the required late fee(s), all interest accrued during the non-delinquency and grace periods, and the appropriate scheduled payment with the first payment made following the conclusion of the grace period.
- (iii) If an eligible entity making installment payments is more than one hundred and eighty (180) days delinquent in any payment, it shall be in default, except that C and F block licensees shall be in default if their payment due on the payment resumption date, referenced in paragraph (f)(4)(ii) of this section, is more than ninety (90) days delinquent.
- (iv) Any eligible entity that submits an installment payment after the due date but fails to pay any late fee, interest or principal at the close of the 90-day non-delinquency period and subsequent automatic grace period, if such a grace period is available, will be declared in default, its license will automatically cancel, and will be subject to debt collection procedures.
- (g) The Commission may establish different upfront payment requirements for categories of designated entities in competitive bidding rules of particular auctionable services.
- (h) The Commission may offer designated entities a combination of the available preferences or additional preferences.
- (i) Designated entities must describe on their long-form applications how they satisfy the requirements for eligibility for designated entity status, and must list and summarize on their long-form applications all agreements that effect 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. Such information must be maintained at the licensees' facilities or by their designated agents for the term of the license in order to enable the Commission to audit designated entity eligibility on an ongoing basis.
- (j) The Commission may, on a service-specific basis, permit consortia, each member of which individually meets the eligibility requirements, to qualify for any designated entity provisions.
- (k) The Commission may, on a service-specific basis, permit publicly-traded companies that are owned by members of minority groups or women to qualify for any designated entity provisions.

- (l) Audits.
- (1) Applicants and licensees claiming eligibility under this section shall be subject to audits by the Commission, using in-house and contract resources. Selection for audit may be random, on information, or on the basis of other factors.
- (2) Consent to such audits is part of the certification included in the short- form application (FCC Form 175). Such consent shall include consent to the audit of the applicant's or licensee's books, documents and other material (including accounting procedures and practices) regardless of form or type, sufficient to confirm that such applicant's or licensee's representations are, and remain, accurate. Such consent shall include inspection at all reasonable times of the facilities, or parts thereof, engaged in providing and transacting business, or keeping records regarding FCC-licensed service and shall also include consent to the interview of principals, employees, customers and suppliers of the applicant or licensee.
- (m) Gross revenues. Gross revenues shall mean all income received by an entity, whether earned or passive, before any deductions are made for costs of doing business (e.g., cost of goods sold), as evidenced by audited financial statements for the relevant number of most recently completed calendar years or, if audited financial statements were not prepared on a calendar-year basis, for the most recently completed fiscal years preceding the filing of the applicant's short-form (FCC Form 175). If an entity was not in existence for all or part of the relevant period, gross revenues shall be evidenced by the audited financial statements of the entity's predecessor-in-interest or, if there is no identifiable predecessor-in-interest, unaudited financial statements certified by the applicant as accurate. When an applicant does not otherwise use audited financial statements, its gross revenues may be certified by its chief financial officer or its equivalent and must be prepared in accordance with Generally Accepted Accounting Principles.

### § 1.2111 Assignment or transfer of control: unjust enrichment.

- (a) Reporting requirement. An applicant seeking approval for a transfer of control or assignment (otherwise permitted under the Commission's Rules) of a license within three years of receiving a new license through a competitive bidding procedure must, together with its application for transfer of control or assignment, file with the Commission's statement indicating that its license was obtained through competitive bidding. Such applicant must also file with the Commission the associated contracts for sale, option agreements, management agreements, or other documents disclosing the local consideration that the applicant would receive in return for the transfer or assignment of its license (see § 1.948 of this chapter). This information should include not only a monetary purchase price, but also any future, contingent, in-kind, or other consideration (e.g., management or consulting contracts either with or without an option to purchase; below market financing).
- (b) Unjust enrichment payment: set-aside. As specified in this paragraph an applicant seeking approval for a transfer of control or assignment (otherwise permitted under the Commission's Rules) of a license acquired by the transferor or assignor pursuant to a set-aside for eligible designated entities under § 1.2110(c), or who proposes to take any other action relating to ownership or control that will result in loss of status as an eligible designated entity, must seek Commission approval and may be required to make an unjust enrichment payment (Payment) to the Commission by cashier's check or wire transfer before consent will be granted. The Payment will be based upon a schedule that will take account of the term of the license, any applicable construction benchmarks, and the estimated value of the set-aside benefit, which will be calculated as the difference between the amount paid by the designated entity for the license and the value of comparable non-set-aside license in the free market at the time of the auction. The Commission will establish the amount of the Payment and the burden will be on the applicants to disprove this amount. No payment will be required if:
- (1) The license is transferred or assigned more than five years after its initial issuance, unless otherwise specified; or

- (2) The proposed transferee or assignee is an eligible designated entity under § 1.2110(c) or the service-specific competitive bidding rules of the particular service, and so certifies.
- (c) Unjust enrichment payment: installment financing.
- (1) If a licensee that utilizes installment financing under this section seeks to assign or transfer control of its license to an entity not meeting the eligibility standards for installment payments, the licensee must make full payment of the remaining unpaid principal and any unpaid interest accrued through the date of assignment or transfer as a condition of approval.
- (2) If a licensee that utilizes installment financing under this section seeks to make any change in ownership structure that would result in the licensee losing eligibility for installment payments, the licensee shall first seek Commission approval and must make full payment of the remaining unpaid principal and any unpaid interest accrued through the date of such change as a condition of approval. A licensee's (or other attributable entity's) increased gross revenues or increased total assets due to nonattributable equity investments, debt financing, revenue from operations or other investments, business development or expanded service shall not be considered to result in the licensee losing eligibility for installment payments.
- (3) If a licensee seeks to make any change in ownership that would result in the licensee qualifying for a less favorable installment plan under this section, the licensee shall seek Commission approval and must adjust its payment plan to reflect its new eligibility status. A licensee may not switch its payment plan to a more favorable plan.
- (d) Unjust enrichment payment: bidding credits.
- (1) A licensee that utilizes a bidding credit, and that during the initial term seeks to assign or transfer control of a license to an entity that does not meet the eligibility criteria for a bidding credit, will be required to reimburse the U.S. Government for the amount of the bidding credit, plus interest based on the rate for ten year U.S. Treasury obligations applicable on the date the license was granted, as a condition of Commission approval of the assignment or transfer. If, within the initial term of the license, a licensee that utilizes a bidding credit seeks to assign or transfer control of a license to an entity that is eligible for a lower bidding credit, the difference between the bidding credit obtained by the assigning party and the bidding credit for which the acquiring party would qualify, plus interest based on the rate for ten year U.S. treasury obligations applicable on the date the license is granted, must be paid to the U.S. Government as a condition of Commission approval of the assignment or transfer. If, within the initial term of the licensee losing eligibility for a bidding credit (or qualifying for a lower bidding credit), the amount of the bidding credit (or the difference between the bidding credit originally obtained and the bidding credit for which the restructured licensee would qualify), plus interest based on the rate for ten year U.S. treasury obligations applicable on the date the license is granted, must be paid to the U.S. Government as a condition of Commission approval of the assignment or transfer.
- (2) Payment schedule.
- (i) The amount of payments made pursuant to paragraph (d)(1) of this section will be reduced over time as follows:
- (A) A transfer in the first two years of the license term will result in a forfeiture of 100 percent of the value of the bidding credit (or in the case of very small businesses transferring to small businesses, 100 percent of the difference between the bidding credit received by the former and the bidding credit for which the latter is eligible);
- (B) A transfer in year 3 of the license term will result in a forfeiture of 75 percent of the value of the bidding credit;
- (C) A transfer in year 4 of the license term will result in a forfeiture of 50 percent of the value of the bidding

credit;

- (D) A transfer in year 5 of the license term will result in a forfeiture of 25 percent of the value of the bidding credit; and
- (E) for a transfer in year 6 or thereafter, there will be no payment.
- (ii) These payments will have to be paid to the United States Treasury as a condition of approval of the assignment, transfer, or ownership change.
- (e) Unjust enrichment: partitioning and disaggregation.
- (1) Installment payments. Licensees making installment payments, that partition their licenses or disaggregate their spectrum to entities not meeting the eligibility standards for installment payments, will be subject to the provisions concerning unjust enrichment as set forth in this section.
- (2) Bidding credits. Licensees that received a bidding credit that partition their licenses or disaggregate their spectrum to entities not meeting the eligibility standards for such a bidding credit, will be subject to the provisions concerning unjust enrichment as set forth in this section.
- (3) Apportioning unjust enrichment payments. Unjust enrichment payments for partitioned license areas shall be calculated based upon the ratio of the population of the partitioned license area to the overall population of the license area and by utilizing the most recent census data. Unjust enrichment payments for disaggregated spectrum shall be calculated based upon the ratio of the amount of spectrum disaggregated to the amount of spectrum held by the licensee.
- § 1.2112 Ownership disclosure requirements for short- and long-form applications.
- (a) Each application for a license or authorization or for consent to assign or transfer control of a license or authorization shall disclose fully the real party or parties in interest and must include in an exhibit the following information:
- (1) A list of any FCC-regulated business 10 percent or more of whose stock, warrants, options or debt securities are owned by the applicant or an officer, director, attributable stockholder or key management personnel of the applicant. This list must include a description of each such business's principal business and a description of each such business's relationship to the applicant;
- (2) A list of any party holding a 10 percent or greater interest in the applicant, including the specific amount of the interest:
- (3) A list of any party holding a 10 percent or greater interest in any entity holding or applying for any FCC-regulated business in which a 10 percent or more interest is held by another party which holds a 10 percent or more interest in the applicant (e.g., If company A owns 10 percent of Company B (the applicant) and 10 percent of Company C then Companies A and C must be listed on Company B's application;
- (4) A list of the names, addresses, and citizenship of any party holding 10 percent or more of each class of stock, warrants, options or debt securities together with the amount and percentage held;
- (5) A list of the names, addresses, and citizenship of all controlling interests of the applicants, as set forth in § 1.2110:
- (6) In the case of a general partnerships, the name, address and citizenship of each partner, and the share or interest participation in the partnership;

- (7) In the case of a limited partnerships, the name, address and citizenship of each limited partner whose interest in the applicant is equal to or greater than 10 percent (as calculated according to the percentage of equity paid in and the percentage of distribution of profits and losses);
- (8) In the case of a limited liability corporation, the name, address and citizenship of each of its members; and
- (9) A list of all parties holding indirect ownership interests in the applicant, as determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain, that equals 10 percent or more of the applicant, except that if the ownership percentage for an interest in any link in the chain exceeds 50 percent or represents actual control, it shall be treated and reported as if it were a 100 percent interest.
- (b) In addition to the information required under paragraph (a) of this section, each applicant for a license or authorization claiming status as a small business shall, as an exhibit to its long-form application:
- (1) Disclose separately and in the aggregate the gross revenues, computed in accordance with § 1.2110, for each of the following: the applicant and its affiliates, the applicant's attributable investors, affiliates of its attributable investors, and, if a consortium of small businesses, the members comprising the consortium;
- (2) List and summarize all agreements or instruments (with appropriate references to specific provisions in the text of such agreements and instruments) that support the applicant's eligibility as a small business under the applicable designated entity provisions, including the establishment of de facto and de jure control; such agreements and instruments include articles of incorporation and bylaws, shareholder agreements, voting or other trust agreements, franchise agreements, and any other relevant agreements (including letters of intent), oral or written: and
- (3) List and summarize any investor protection agreements, including rights of first refusal, supermajority clauses, options, veto rights, and rights to hire and fire employees and to appoint members to boards of directors or management committees.

### § 1.2113 Construction prior to grant of application.

Subject to the provisions of this section, applicants for licenses awarded by competitive bidding may construct facilities to provide service prior to grant of their applications, but must not operate such facilities until the FCC grants an authorization. If the conditions stated in this section are not met, applicants must not begin to construct facilities for licenses subject to competitive bidding.

- (a) When applicants may begin construction. An applicant may begin construction of a facility upon release of the Public Notice listing the post- auction long-form application for that facility as acceptable for filing.
- (b) Notification to stop. If the FCC for any reason determines that construction should not be started or should be stopped while an application is pending, and so notifies the applicant, orally (followed by written confirmation) or in writing, the applicant must not begin construction or, if construction has begun, must stop construction immediately.
- (c) Assumption of risk. Applicants that begin construction pursuant to this section before receiving an authorization do so at their own risk and have no recourse against the United States for any losses resulting from:
- (1) Applications that are not granted;
- (2) Errors or delays in issuing public notices;
- (3) Having to alter, relocate or dismantle the facility; or

- (4) Incurring whatever costs may be necessary to bring the facility into compliance with applicable laws, or FCC rules and orders.
- (d) Conditions. Except as indicated, all pre-grant construction is subject to the following conditions:
- (1) The application does not include a request for a waiver of one or more FCC rules;
- (2) For any construction or alteration that would exceed the requirements of § 17.7 of this chapter, the licensee has notified the appropriate Regional Office of the Federal Aviation Administration (FAA Form 7460-1), filed a request for antenna height clearance and obstruction marking and lighting specifications (FCC Form 854) with the FCC, PRB, Support Services Branch, Gettysburg, PA 17325;
- (3) The applicant has indicated in the application that the proposed facility would not have a significant environmental effect, in accordance with §§ 1.1301 through 1.1319;
- (4) Under applicable international agreements and rules in this part, individual coordination of the proposed channel assignment(s) with a foreign administration is not required; and
- (5) Any service-specific restrictions not listed herein.

### PARTIAL BIBLIOGRAPHY

The following documents can be found at the FCC web site: http://www.fcc.gov \*Items with an asterisk are reproduced in this Bidder Information Package.

## A. Rulemaking, Revision of Part 22 and Part 90 of the Commission's Rules to Facilitate Future Development of Paging Systems, WT Docket No. 96-18.

Notice of Proposed Rulemaking, 11 FCC Rcd 3108 (1996), 61 FR 6199 (Feb. 16, 1996) ("Paging Notice");

First Report and Order, 11 FCC Rcd 16570 (1996), 61 FR 21380 (May 10, 1996) ("Paging First Report and Order");

*Order on Reconsideration of First Report and Order*, 11 FCC Rcd 7409 (1996), 61 FR 34375 (July 2, 1996) ("First Paging Reconsideration");

\*Second Report and Order and Further Notice of Proposed Rulemaking, 12 FCC Rcd 2731 (1997), 62 FR 11616 (March 12, 1997) ("Paging Second Report and Order");

\*Memorandum Opinion and Order on Reconsideration and Third Report and Order, FCC 99-98 (rel. May 24, 1999), 64 FR 33762 (June 24, 1999) ("Paging Reconsideration Order" and "Paging Third Report and Order").

### B. Rulemaking, Amendment of Part 1 of the Commission's Rules -- Competitive Bidding Procedures, WT Docket No. 97-82

Order, Memorandum Opinion and Order and Notice of Proposed Rule Making, FCC 97-60, 12 FCC Rcd. 5686 (1997), 62 FR 13540 (March 21, 1997).

Third Report and Order and Second Further Notice of Proposed Rule Making, FCC 97-413, 13 FCC Rcd. 374 (1997), 63 FR 2315 (Jan. 15, 1998). Erratum, 13 FCC Rcd. 4621 (1998).

### C. Spectrum Aggregation Limits for Wireless Telecommunications Carriers, WT Docket No. 98-205

Notice of Proposed Rulemaking, FCC 98-308 (rel. December 10, 1998), 63 FR 70727 (December 22, 1998).

Report and Order, FCC 99-244 (rel. September 22, 1999), 64 FR 54564 (October 7, 1999).

### D. Implementation of Section 309(j) of the Communications Act -- Competitive Bidding. PP Docket No. 93-253

Sixth Report and Order, FCC 95-301, 10 FCC Rcd 136 (1995), 60 FR 37,786 (July 21, 1995).

Second Report and Order, FCC 94-61, 9 FCC Rcd. 2348 (1994), 59 Fed. Reg. 22980 (May 4, 1994); and Erratum (released May 12, 1994).

*Order on Reconsideration*, FCC 94-217, 9 FCC Rcd. 4493 (1994), 59 Fed. Reg. 43062 (Aug. 22, 1994).

*Order on Reconsideration*, FCC 94-240, 9 FCC Rcd. 5306 (1994), 59 Fed. Reg. 50509 (Oct. 4, 1994).

Fifth Report and Order, FCC 94-178, 9 FCC Rcd. 5532 (1994), 59 Fed. Reg. 37566 (July 22, 1994).

Fourth Memorandum Opinion and Order, FCC 94-264, 9 FCC Rcd. 6858 (1994), 59 Fed. Reg. 53364 (Oct. 24, 1994).

Second Memorandum Opinion and Order, FCC 94-215, 9 FCC Rcd. 7245 (1994), 59 Fed. Reg. 44272 (Aug. 26, 1994); and Erratum, Mimeo No. 50278 (Oct. 19, 1994).

Memorandum Opinion and Order, FCC 94-295, 9 FCC Rcd. 7684 (1994), 59 Fed. Reg. 64159 (Dec. 13, 1994).

Fifth Memorandum Opinion and Order, FCC 94-285, 10 FCC Rcd. 403 (1994), 59 Fed. Reg. 63210 (Dec. 7, 1994); and Erratum, DA 95-15 (Jan. 10, 1995), 60 Fed. Reg. 5333 (Jan. 27, 1995).

Further Notice of Proposed Rule Making, FCC 94-198, 9 FCC Rcd. 6775 (1994), 59 Fed. Reg. 41,426 (Aug. 12, 1994); and Erratum, DA 95-15 (Jan. 10, 1995), 60 Fed. Reg. 5333 (Jan. 27, 1995).

### E. Amendment of the Commission's Rules to Permit Flexible Service Offerings in the Commercial Mobile Radio Services. WT Docket No. 96-6

First Report and Order and Further Notice of Proposed Rule Making, FCC 96-283, 11 FCC Rcd. 8965 (1996), 61 FR 45336 (August 29, 1996).

# F. Implementation of Sections 3(n) and 332 of the Communications Act - Regulatory Treatment of Mobile Services. General Docket No. 93-252, PR Docket No. 93-144, PR Docket No. 89-553

Second Report and Order, FCC 94-31, 9 FCC Rcd 1411 (1994), 59 Fed. Reg. 18,493 (April 19, 1994); Erratum, DA 94-286, 9 FCC Rcd 2035 (1994); and Erratum, DA 94-443, 9 FCC Rcd 2156 (1994).

*Third Report and Order*, FCC 94-212, 9 FCC Rcd 7988 (1994), 59 Fed. Reg. 59,945 (Nov. 21, 1994).

Fourth Report and Order, FCC 94-270, 9 FCC Rcd 7123 (1994), 59 Fed. Reg. 61,828 (Dec. 2, 1994).

# G. Redevelopment of Spectrum to Encourage Innovation in the Use of New Telecommunications Technologies, Emerging Technologies. ET Docket No. 92-9 (Microwave Relocation)

First Report and Order and Third Notice of Proposed Rule Making, FCC 92-437, 7 FCC Rcd 6886 (1992), and Erratum (October 29, 1992), 57 Fed. Reg. 49,020 (Oct. 29, 1992).

Second Report and Order, FCC 93-350, 8 FCC Rcd 6495 (1993), 58 Fed. Reg. 49,220 (Sep. 22, 1993).

*Third Report and Order and Memorandum Opinion and Order*, FCC 93-351, 8 FCC Rcd 6589 (1993), 58 Fed. Reg. 46,547 (Sep. 2, 1993).

Second Memorandum Opinion and Order, FCC 94-303, 9 FCC Rcd 7797 (1994), 59 Fed. Reg. 65,501 (Dec. 20, 1994).

First Report and Order and Further Notice of Proposed Rule Making, FCC 96-196, 11 FCC Rcd 8825 (1996), 61 Fed. Reg. 24,470 (May 15, 1996) and 61 Fed. Reg 29,679 (June 12, 1996).

## H. Summary listing of documents from the Commission and the Wireless Telecommunications Bureau addressing application of the anti-collusion rules

Available at:

http://www.fcc.gov/wtb/auctions/collusio/collusio.html

### **Commission Decisions:**

Second Report and Order in PP Docket No. 93-253, FCC 94-61, 9 FCC Rcd. 2348, 2386-2388 (1994), paragraphs 221-226.

Fifth Report and Order in PP Docket No. 93-253, FCC 94-178, 9 FCC Rcd. 5532, 5570-5571 (1994), paragraphs 91-92.

Fourth Memorandum Opinion and Order in PP Docket No. 93-253, FCC 94-264, 9 FCC Rcd. 6858, 6866-6869 (1994), paragraphs 47-60.

*Second Memorandum Opinion and Order* in PP Docket No. 93-253, FCC 94-215, 9 FCC Rcd. 7245, 7253-7255 (1994), paragraphs 48-55.

*Memorandum Opinion and Order* in PP Docket No. 93-253, FCC 94-295, 9 FCC Rcd. 7684, 7687-7689 (1994), paragraphs 8-12.

In re Commercial Realty St. Pete, *Notice of Apparent Liability for Forfeiture*, 10 FCC Rcd. 4277 (1995).

In re Applications of Mercury PCS II, LLC, *Notice of Apparent Liability for Forfeiture*, 12 FCC Rcd. 17970 (1997).

Amendment of Part 1 of the Commission's Rules -- Competitive Bidding Procedures, Allocation of Spectrum Below 5 GHz Transferred from Federal Government Use, 4660-4685 MHz, WT Docket No. 97-82, ET Docket No. 94-32, FCC 97-413, *Third Report and Order and Second Further Notice of Proposed Rule Making*, 13 FCC Rcd. 374, 463-469 (1997), paragraphs 155-166.

In re Application of US West Communications, Inc., *Notice of Apparent Liability for Forfeiture*, FCC 98-41 (March 16, 1998).

In re Application of Western PCS BTA I Corporation, *Notice of Apparent Liability for Forfeiture*, FCC 98-42 (March 16, 1998).

In re Applications of Mercury PCS II, LLC, *Notice of Apparent Liability for Forfeiture*, FCC 98-203, 13 FCC Rcd. 23755 (rel. August 28, 1998).

### **Wireless Telecommunications Bureau Decisions:**

Amendment of Parts 21 and 74 of the Commission's Rules with Regard to Filing Procedures in the Multipoint Distribution Service and in the Instructional Television Fixed Service, *Order*, 11 FCC Rcd. 9655 (Wireless Tel. Bur. 1995).

In re Applications of GWI PCS, Inc. For Authority to Construct and Operate Broadband PCS Systems Operating on Frequency Block C, *Memorandum Opinion and Order*, 12 FCC Rcd. 6441 (Wireless Tel. Bur. 1997).

In re Applications of Mercury PCS II, LLC, For Facilities in the Broadband Personal Communications Services in the D, E, and F Blocks, *Memorandum Opinion and Order on Reconsideration*, 12 FCC Rcd. 18093 (Wireless Tel. Bur. 1997).

In the Matter of Applications of High Plains Wireless, L.P. for Authority to Construct and Operate Broadband PCS Systems on Frequency Blocks D, E, and F, *Memorandum Opinion and Order*, 12 FCC Rcd. 19627 (Wireless Tel. Bur. 1997).

In the Matter of Applications of Mercury PCS II, LLC, For Authority to Construct and Operate Broadband PCS Systems on Frequency Blocks D, E, and F, *Memorandum Opinion and Order*, 13 FCC Rcd. 5756 (Wireless Tel. Bur. 1997).

### **Public Notices:**

"Wireless Telecommunications Bureau Clarifies Spectrum Auction Anti-Collusion Rules," *Public Notice*, 11 FCC Rcd. 9645 (1995).

"FCC Staff Clarifies Application of Anti-Collusion Rule to Broadband PCS 'C' Block Reauction,"

Public Notice, 11 FCC Rcd. 7031 (1996).

"Wireless Telecommunications Bureau Provides Guidance on the Anti-Collusion Rule for D, E and F Block Bidders," *Public Notice*, 11 FCC Rcd. 10134 (1996).

### Letters from the Office of General Counsel and the Wireless Telecommunications Bureau:

Letter to Gary M. Epstein and James H. Barker from William E. Kennard, General Counsel, Federal Communications Commission (released October 25, 1994).

Letter to Alan F. Ciamporcero from William E. Kennard, General Counsel, Federal Communications Commission (released October 25, 1996).

Letter to R. Michael Senkowski from Rosalind K. Allen, Acting Chief, Commercial Radio Division, Wireless Telecommunications Bureau (released December 1, 1994).

Letter to Leonard J. Kennedy from Rosalind K. Allen, Acting Chief, Commercial Radio Division, Wireless Telecommunications Bureau (released December 14, 1994).

Letter to Jonathan D. Blake and Robert J. Rini from Kathleen O'Brien Ham, Chief, Auctions Division, Wireless Telecommunications Bureau, DA 95-2404 (released November 28, 1995).

Letter to Mark Grady from Kathleen O'Brien Ham, Chief, Auctions Division, Wireless Telecommunications Bureau, 11 FCC Rcd. 10895 (1996).

Letter to David L. Nace from Kathleen O'Brien Ham, Chief, Auctions Division, Wireless Telecommunications Bureau, 11 FCC Rcd. 11363 (1996).

Letter to Elliott J. Greenwald from Christopher J. Wright, General Counsel, Federal Communications Commission (released April 6, 1998).

### **Civil Actions Initiated by U.S. Department of Justice:**

*U.S. v. Omnipoint Corp.*, Proposed Final Judgements and Competitive Impact Statements, Department of Justice, 63 FR 65,228 (November 25, 1998).

"Justice Department Sues Three Firms Over FCC Auction Practices," *Press Release*, U.S. Department of Justice (November 10, 1998).

Complaint, U.S. v. Omnipoint Corp., No. 1:98CV02750 (D.D.C. November 10, 1998).

Complaint, U.S. v. Mercury PCS II, L.L.C., No. 1:98CV02751 (D.D.C. November 10, 1998).

Complaint, U.S. v. 21st Century Bidding Corp., No. 1:98CV02752 (D.D.C. November 10, 1998).

### **Miscellaneous:**

Many of these documents can be retrieved from the FCC web site (http://www.fcc.gov/wtb/auctions/collusio/collusio.html), where documents may be located by using our search engine (select the link "search"). All of these documents can be ordered in hard copy from the Commission's contractor, International Transcription Service, Inc. at (202) 857-3800.

Documents retrieved from the FCC web site are available in more than one format: .pdf, .txt, and .wp. (The key to the extensions is the following: .pdf = Acrobat Reader, .txt = Text, and .wp = Word Perfect.) In order to review a document in its entirety, including footnotes, it is necessary to access the document in Word Perfect or Acrobat Reader.

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### AUCTION # 26 – (929 and 931 MHz Paging) Beginning Thursday, February 24, 2000

### Simultaneous Multiple Round Auction 2,499 LICENSES

<u>Date</u>	Action	Completed
January 5	Deadline to register for Pre-Auction Seminar	
January 7	Attend Pre-Auction Seminar at Federal Communications Commission Meeting Room Registration 8:30 a.m 9:30 a.m., Seminar 9:30 a.m4 p.m.	
January 20	Submit Short Form FCC Form 175 Auction Application by 5:30 p.m. ET	
February 7	Submit upfront payment (wire transfer) to Mellon Bank, Pittsburgh, PA, by 6:00 p.m. ET	
February 8	Deadline to Order Remote Bidding Software (Cost: \$175.00)	
February 22	Mock Auction	
February 24	Auction 26 begins	

Additional Copies of this Bidder Information Package: The Commission will provide one copy to each company free of charge. Additional copies may be ordered at a cost of \$16.00 each, including postage, payable by Visa or Master Card, or by check payable to "Federal Communications Commission" or "FCC." To place an order, contact the FCC National Call Center at (888) CALL-FCC ((888) 225-5322, press option #2 at the prompt) or direct dial (717) 338-2888.

**Participation:** Those wishing to participate in the auction must:

- Submit a short form application (FCC Form 175) by January 20, 2000.
- Submit a sufficient upfront payment and an FCC Remittance Advice Form (FCC Form 159) by February 7, 2000.
- Comply with all provisions outlined in this Bidders Information Package.

### **Contact Numbers**

GENERAL AUCTION INFORMATION	FCC National Call Center
Bidder Information Package	(888) CALL-FCC [(888) 225-5322]
Seminar Registration	Press Option #2 at the prompt.
<ul> <li>General Auction Questions</li> </ul>	Direct Line: (717) 338-2888
<ul> <li>Orders for Remote Bidding Software</li> </ul>	Hours of service: 8 a.m. – 5:30 p.m. ET
LEGAL AUCTION INFORMATION	FCC Auctions Legal Branch
• Rules, Policies, Regulations	(202) 418-0660
LICENSING INFORMATION	FCC Commercial Wireless Division
• Rules, Policies, Regulations	(202) 418-0620
<ul> <li>Licensing Issues</li> </ul>	
• Due Diligence	
• Incumbency Issues	
TECHNICAL SUPPORT	FCC Auctions Technical Support Hotline
• Electronic Filing Assistance	(202) 414-1250 (V), (202) 414-1255 (TTY)
<ul> <li>Software Downloading</li> </ul>	Hours of service: 8 a.m. – 6:00 p.m. ET
PAYMENT INFORMATION	FCC Billings & Collections Branch
• Wire Transfers	(202) 418-1995
• Refunds	Fax Number (202) 418-2843
TELEPHONIC BIDDING	Will be furnished only to qualified bidders
FCC BULLETIN BOARD	(202) 682-5851 (modem settings 8,N,1)
FCC COPY CONTRACTOR	International Transcription Services, Inc.
Additional Copies of	445 12 <sup>th</sup> Street, SW Room CY-B400
<b>Commission Documents</b>	Washington, DC 20554
	(202) 314-3070
PRESS INFORMATION	Meribeth McCarrick (202) 418-0654
FCC FORMS	
	(202) 418-3676 (in the Washington Area)
	http://www.fcc.gov/formpage
FCC INTERNET SITE	http://www.fcc.gov
	ftp://ftp.fcc.gov
	http://www.fcc.gov/wtb/auctions

### **AUCTION FEE SCHEDULE**

The FCC Remote Electronic Access System allows auction applicants the opportunity to participate fully in an FCC auction from their offices. It includes various software, with which applicants can:

- 1. File an FCC Form 175 application
- 2. Review other FCC Form 175 applications filed
- 3. Submit and withdraw bids and submit activity rule waivers
- 4. Receive auction messages/announcements and submit suggestions
- 5. Create and download customized round results files, and
- 6. File an FCC long form application.

	SOFTWARE	ACCESS PER MINUTE
FCC Form 175 Filing	FREE	FREE
FCC Form 601 Filing	FREE	FREE
FCC Form 175 Review	FREE	FREE
FCC Form 601 Review	FREE	FREE
Bid Submission	\$175.00	\$2.30
Messages/Announcements	FREE	\$2.30
Suggestion Box	FREE	\$2.30
Round Results Viewer	FREE	\$2.30
Tracking Tool	FREE	FREE

In 1995, the FCC issued a *Report and Order* in WT Docket No. 95-69 establishing fair and reasonable charges for auction software and on-line access to the FCC's wide area network (WAN) to use the software.<sup>1</sup> In *the Second Report and Order* in this docket, the FCC concluded that parties using the WAN for filing Universal Licensing System (ULS) applications will not be required to pay per-minute access charges.<sup>2</sup> The FCC also concluded

<sup>&</sup>lt;sup>1</sup> Assessment and Collection of Charges for FCC Proprietary Remote Software Packages, On-Line Communications Service Charges, and Bidder Information Packages in Connection with Auctionable Services, *Report and Order*, 10 FCC Rcd 10769 (1995). *See also* 47 C.F.R. § 1.1182.

<sup>&</sup>lt;sup>2</sup> Biennial Regulatory Review – Amendment of Parts 0, 1, 13, 22, 24, 26, 27, 80, 87, 90, 95, 97, and 101 of the Commission's Rules to Facilitate the Development and Use of the Universal Licensing System in the Wireless Telecommunications Services; Assessment and Collection of Charges for FCC Proprietary Remote Software Packages, On-Line Communications Service Charges, and Bidder Information Packages in Connection with Auctionable Services *Second Report and Order*, FCC 99-140 (rel. June 15, 1999) at ¶ 10.

that Form 175 application data should be available on the Internet in read-only form.<sup>3</sup> The schedule of charges listed above now applies to software and on-line access<sup>4</sup>:

An order form for the FCC Remote Bidding Software is included at Tab F of this Bidder Information Package. Orders for software must be received by the FCC no later than **5:30 p.m. ET, on Tuesday February 8, 2000.** Payments may be made by credit card (Visa or Mastercard only) or check made payable to the Federal Communications Commission or "FCC" (see order form).

All downloadable auction software is available on the FCC's Internet site (*http://www.fcc.gov*) and Bulletin Board System (*202-682-5851*, modem settings 8,N,1). Access charges incurred while using auction software will appear on the customer's long distance telephone bill.

3 Id at ¶13

<sup>&</sup>lt;sup>4</sup> Application filing is subject to a separate fee schedule under Section 8 of the Communications Act (*see* 47 U.S.C. § 158).