

**Information and Instructions**

**Technical Data Schedule for the Cellular and  
Air-ground (Commercial Aviation)  
Radiotelephone Services (Part 22)**

Form FCC 601, Schedule F, is a supplementary schedule for use with the FCC Application for Radio Service Authorization: Wireless Telecommunications Bureau and/or Public Safety and Homeland Security Bureau, FCC 601 Main Form. This schedule is used to apply for an authorization to operate a radio station, amend a pending application, or modify an existing license in the Cellular Radiotelephone and Commercial Air-ground Radiotelephone Services. Additionally, this schedule is used by auction winners that must file site-specific technical data for international coordination or for an environmental assessment of a particular site. The FCC 601 Main Form must be filed in conjunction with this schedule.

You must file technical information for each location and antenna structure using FCC 601, Schedule D, Schedule for Station Locations and Antenna Structures. It is recommended that you complete Schedule D prior to completing Schedule F.

**IMPORTANT INFORMATION REGARDING LOCATION, ANTENNA, AND CONTROL POINT NUMBERS:** To identify existing locations, antennas, or control points, you must use the location, antenna, and control point numbers assigned by the Universal Licensing System (ULS). These numbers may not be identical to the location, antenna, and control point numbers on your current authorization if that authorization was not issued by the Universal Licensing System. If you are unsure of the location, antenna, or control point number that corresponds to a particular location, antenna, or control point, you can query the ULS for the most up-to-date information regarding your authorization. To query the ULS license database for your call sign, point your web browser to <http://wireless.fcc.gov/uls> and click on Search - Licenses. Alternatively, you may call (877) 480-3201 (TTY 717-338-2824) for assistance.

**Schedule F  
Instructions**

**Cellular Unserved Area Information**

**Item 1** If this is a New or Modification application for Cellular Radiotelephone Services, indicate whether the application is for a Phase I Cellular unserved area or a Phase II Cellular unserved area, as defined by 47 CFR Section 22.949. If the application is for a Phase I Cellular unserved area, complete Items 2 through 5 as applicable (one row only). If the application is for a Phase II Cellular unserved area, complete Items 2 through 5, as many rows as applicable. If this application is for a new license won in an FCC auction, do not file FCC 601 Schedule F. Instead, file Form FCC 601 Schedule B along with the FCC 601 Main Form.

**Item 2** Enter the market(s) of the unserved area. If this application is for a Phase I cellular unserved area, list the market in which the unserved area is located. If this application is for Phase II Cellular unserved areas, list the markets contained within the proposed Service Area Boundaries. Market designators are listed in the FCC Public Notices. Only one Cellular Geographic Service Area (CGSA) may be listed on an application.

**Item 3** Enter the market name of the market designator listed in Item 2.

**Item 4** Enter the sub-market designator only if the market has been subdivided. Sub-market designators are listed in the FCC Public Notices.

**Item 5** Enter the applicable channel block, either 'A' or 'B'.

## **Control Points**

This section must be completed only when a control point is to be added, modified, or deleted. If you are adding a new control point, complete all items in this section for each control point to be added. If you are modifying an existing control point, in addition to Items 6 and 7, complete only the items that have changed for each control point. If you are deleting a control point, only Items 9 and 10 are required. Control Points that are currently licensed under this call sign by the FCC will continue to be shown on the Authorization as is, unless a specific action is requested in this section.

**Item 6** This item indicates the action the filer wants the FCC to take on the specified control point. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 7** If the control point has been previously licensed under this call sign by the FCC, enter its FCC-assigned control point number (see Important Information Regarding Location, Antenna, and Control Point Numbers on page 1 of these instructions). For a new control point, assign a temporary code to represent the control point. The assigned code should begin with C to indicate it is a control point and end with a number to uniquely identify it (e.g., C1, C2, C3, etc.). The FCC will assign an official number to the new control point, which will appear on the Authorization.

**Item 8** Enter the street address, city or town, county/borough/parish or equivalent entity, and state of the control point. Refer to FCC 601 Main Form Instructions, Appendix II, for a list of valid state, jurisdiction, and area abbreviations.

**Item 9** Enter the telephone number, including area code, where a person responsible for operation of the station or system could be reached.

## **Commercial Aviation Air-ground Technical Parameters (Antenna Data)**

This section must be completed by Commercial Air-ground Applicants when antennas are to be added, modified, or deleted. If you are adding new antennas, complete all items in this section for each antenna to be added. If you are modifying an existing antenna, in addition to Items 10, 12, and 13, complete only the items that have changed for each antenna. If you are deleting antennas, only Items 10, 12, and 13 are required. Technical parameters currently licensed under this call sign by the FCC will continue to be shown on the Authorization as is, unless a specific action is requested in this section.

**Item 10** This item indicates the action the filer wants the FCC to take on the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 11** Enter the channel block of the requested ground station (1-10). Refer to the Commission's rules for Commercial Aviation Air-ground Radiotelephone Services for more information on channel blocks and their assigned frequencies.

**Item 12** For each antenna structure, enter its corresponding location number, as entered on Schedule D Item 2. If the location has been previously licensed under this call sign by the FCC, enter the FCC-assigned location number (see Important Information Regarding Location, Antenna, and Control Point Numbers on page 1 of these instructions). Otherwise, enter the code assigned on Schedule D to represent the location. Refer to the instructions for Schedule D for more information on assigning location numbers.

**Item 13** If the antenna has been previously licensed with the Commission, enter the antenna's FCC-assigned number (see Important Information Regarding Location, Antenna, and Control Point Numbers on page 1 of these instructions). Otherwise, enter a temporary code to represent each antenna. The assigned code should begin with an A to indicate it is an antenna and end with a number to uniquely identify it (e.g., A1, A2, A3, etc.). A single location can have multiple antennas. Antenna numbers need only be unique within each location. The FCC will assign an official number to the new antenna, which will appear on the Authorization.

**Item 14** This item reports the actual height at which the antenna is mounted. Enter this item in meters, rounded to the nearest tenth.

**Item 15** This item reports the maximum effective radiated power (ERP) of the facility in any direction on the specified channel. The value must be stated in watts.

## **Cellular Radial Data**

This section must be completed by cellular Applicants when adding a new location, modifying the radial data for an existing location, or amending the radial data proposed in a pending application. If you are adding a new location, complete all items in this section. If you are modifying existing radial data or amending a pending application, complete Items 16, 17, 18, and only those items that you are proposing to change. Radial data currently licensed under this call sign by the FCC will continue to be shown on the Authorization as is, unless a specific action is requested in this section.

Applicants must propose one set of radial data for each antenna used at a location. If a sectorized antenna system (i.e. multiple antennas) is to be used, you may submit separate radial data for each of the antenna sectors, or alternatively submit one set of radial data representing the composite antenna pattern for the sector antennas. If separate antenna systems are used for the control channels and voice channels, submit the radial data for the antenna system that establishes the largest service area boundary (SAB).

Item 16 This item indicates the action the filer wants the FCC to take on the radial data of the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

Item 17 For each antenna structure, enter its corresponding location number, as entered on Schedule D Item 2. If the location has been previously licensed under this call sign by the FCC, enter the FCC-assigned location number (see Important Information Regarding Location, Antenna, and Control Point Numbers on page 1 of these instructions). Otherwise, enter the code assigned on Schedule D to represent the location. Refer to the instructions for Schedule D for more information on assigning location numbers.

Item 18 If the antenna has been previously licensed with the Commission, enter the antenna's FCC-assigned number (see Important Information Regarding Location, Antenna, and Control Point Numbers on page 1 of these instructions). Otherwise, enter a temporary code to represent each antenna. The assigned code should begin with an A to indicate it is an antenna and end with a number to uniquely identify it (e.g., A1, A2, A3, etc.). A single location can have multiple antennas. Antenna numbers need only be unique within each location. The FCC will assign an official number to the new antenna, which will appear on the Authorization. Sectorized antenna systems represented with a composite antenna pattern and single set of radial data should be reported as a single antenna.

Item 19 If this location contributes to the CGSA, and you are requesting that the CGSA boundary be determined using an alternative method, enter 'Y'. Otherwise enter 'N'. If you respond 'Y' to this item, you must attach an exhibit explaining the circumstances

Item 20 This item reports the height of the antenna center of radiation above the average terrain elevation (AAT) along each of the eight cardinal radials. Enter this item in meters, rounded to the nearest tenth.

Item 21 This item reports, in watts, the effective radiated power (ERP) along each of the eight cardinal radial directions.

Item 22 This item reports the distance to the Cellular Geographic Service Area (CGSA) produced from the specified antenna. This item should only be reported for those radials that establish the CGSA boundary. Therefore, some azimuths may not have entries. Enter this item in kilometers rounded to the nearest tenth.

### **Certification**

By signing the FCC 601 Main Form, Cellular Applicants certify compliance with this item and 47 CFR § 22.913.

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**Cellular Unserved Area Information**

1) Identify whether this is a New or Modification application for a Phase I unserved area or a Phase II unserved area as defined by 47 CFR Section 22.949(a). If so, complete Items 2 through 5, as applicable.				( )Phase I
				( )Phase II
2) Market Designator	3) Market Name	4) Sub-Market Designator	5) Channel Block	

**Control Points**

6) Action A/M/D	7) Control Point Number	8) Location Street Address, City or Town, County/Borough/Parish, State	9) Telephone Number



Cellular Radial Data

16) Action: ( <input type="checkbox"/> ) <b>Add</b> <b>Modify</b> <b>Delete</b>		17) Location Number:	18) Antenna Number:
19) If this location contributes to the CGSA, are you requesting that the CGSA boundary be determined using an alternative method? If 'Yes', attach an exhibit explaining circumstances.			( <input type="checkbox"/> ) <b>Yes</b> <b>No</b>
Azimuth (degrees from true north)	20) Antenna Height AAT (meters)	21) Transmitting ERP (watts)	22) Distance to CGSA (kilometers)
0°			
45°			
90°			
135°			
180°			
225°			
270°			
315°			

16) Action: ( <input type="checkbox"/> ) <b>Add</b> <b>Modify</b> <b>Delete</b>		17) Location Number:	18) Antenna Number:
19) If this location contributes to the CGSA, are you requesting that the CGSA boundary be determined using an alternative method? If 'Yes', attach an exhibit explaining circumstances.			( <input type="checkbox"/> ) <b>Yes</b> <b>No</b>
Azimuth (degrees from true north)	20) Antenna Height AAT (meters)	21) Transmitting ERP (watts)	22) Distance to CGSA (kilometers)
0°			
45°			
90°			
135°			
180°			
225°			
270°			
315°			

I certify that (1) the maximum ERP for the proposed cellular base or repeater station will never exceed 500 Watts and (2) if the distance to the SAB as calculated in accordance with 47 CFR § 22.911 exceeds 79.1 km (45 miles) [Gulf of Mexico MSA] or 40.2 km (25 miles) [all other cellular markets], I have coordinated such use with the Licensees of all affected cellular systems on the same channel block within 121 km (75 miles) and concurrence has been obtained from each Licensee.