

Item 18 Applicants for stations located in one of the quiet zones listed below, must must notify the proper authority.

1. National Radio Astronomy Observatory, Green Bank, Pocahontas County, West Virginia. The quiet zone is located within Virginia, West Virginia, and Garrett County, Maryland and bounded by 39 degrees 15' N on the north, 78 degrees 30' W on the east, 37 degrees 30' N on the south, and 80 degrees 30' W on the west. Contact the National Radio Astronomy Observatory, P.O. Box 2, Green Bank, West Virginia 24944.

2. Arecibo Observatory, Puerto Rico. The quiet zone consists of the islands of Puerto Rico, Desecheo, Mona, Vieques, and Culebra. Contact the Interference Office, Arecibo Observatory, Post Office Box 995, Arecibo, Puerto Rico 00613. Applicants for stations located in this quiet zone must indicate, in its application, the date such notification was sent.

**FCC 601  
Schedule E**

**Wireless Telecommunications Services Schedule for  
Mobile, Temporary Fixed, and 6.1 Meter Control Station Locations**  
For Public Mobile Services, Personal Communications Services, General Wireless Communications Services,  
Private Land Mobile Radio Services, Broadcast Auxiliary Land Mobile Radio Services,  
Maritime Services (excluding ships) and Aviation Services (excluding aircraft)

Approved by OMB  
3060 - xxxx  
See Main Form instructions  
for public burden estimate

|  |  |   |  |                           |  |
|--|--|---|--|---------------------------|--|
| 1) Action Requested: ( ) <u>A</u> dd <u>M</u> od <u>D</u> el   |  | 2) Mobile Location Number:  |  | 3) Fixed Location Number: |  |
| 4) Area of Operation Code:   |  | 5) Temporary Fixed or Mobile Radius (km):   |  | 6) Airport Identifier:    |  |
| 7) Latitude (DD-MM-SS.S):<br>NAD 83<br>( ) <u>N</u> or <u>S</u>  |  | 8) Longitude (DDD-MM-SS.S):<br>NAD 83<br>( ) <u>E</u> or <u>W</u>                                 |  |                           |  |
| 9) Maximum Latitude (DD-MM-SS.S): Use for rectangle only<br>NAD 83<br>( ) <u>N</u> or <u>S</u>   |  | 10) Maximum Longitude (DDD-MM-SS.S): Use for rectangle only<br>NAD 83<br>( ) <u>E</u> or <u>W</u> |  |                           |  |
| 11) City:  |  | 12) County:   |  | 13) State:                |  |
| 14) Is any part of your operation North of Line A? ( ) <u>Y</u> es <u>N</u> o    Is any part of your operation East of Line C? ( ) <u>Y</u> es <u>N</u> o  |  |   |  |                           |  |
| 15) Description: (only for Area of Operation Code 'O')   |  |   |  |                           |  |
| 16) Number of units:    ___ Hand held    ___ Mobile    ___ Temporary Fixed    ___ Aircraft    ___ Itinerant  |  |   |  |                           |  |
| 17) Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect as defined by Section 1.1307 of 47 CFR? ( ) <u>Y</u> es <u>N</u> o<br>If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. |  |   |  |                           |  |
| 18) If the proposed site is located in one of the quiet zones listed in Item 18 of the Instructions, provide the date the proper authority was notified:   |  |   |  |                           |  |

|  |  |   |  |                           |  |
|--|--|---|--|---------------------------|--|
| 1) Action Requested: ( ) <u>A</u> dd <u>M</u> od <u>D</u> el   |  | 2) Mobile Location Number:  |  | 3) Fixed Location Number: |  |
| 4) Area of Operation Code:   |  | 5) Temporary Fixed or Mobile Radius (km):   |  | 6) Airport Identifier:    |  |
| 7) Latitude (DD-MM-SS.S):<br>NAD 83<br>( ) <u>N</u> or <u>S</u>  |  | 8) Longitude (DDD-MM-SS.S):<br>NAD 83<br>( ) <u>E</u> or <u>W</u>                                 |  |                           |  |
| 9) Maximum Latitude (DD-MM-SS.S): Use for rectangle only<br>NAD 83<br>( ) <u>N</u> or <u>S</u>   |  | 10) Maximum Longitude (DDD-MM-SS.S): Use for rectangle only<br>NAD 83<br>( ) <u>E</u> or <u>W</u> |  |                           |  |
| 11) City:  |  | 12) County:   |  | 13) State:                |  |
| 14) Is any part of your operation North of Line A? ( ) <u>Y</u> es <u>N</u> o    Is any part of your operation East of Line C? ( ) <u>Y</u> es <u>N</u> o  |  |   |  |                           |  |
| 15) Description: (only for Area of Operation Code 'O')   |  |   |  |                           |  |
| 16) Number of units:    ___ Hand held    ___ Mobile    ___ Temporary Fixed    ___ Aircraft    ___ Itinerant  |  |   |  |                           |  |
| 17) Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect as defined by Section 1.1307 of 47 CFR? ( ) <u>Y</u> es <u>N</u> o<br>If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. |  |   |  |                           |  |
| 18) If the proposed site is located in one of the quiet zones listed in Item 18 of the Instructions, provide the date the proper authority was notified:   |  |   |  |                           |  |

Information and Instructions

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

FCC Form 601, Schedule F, is a supplementary schedule for use with the FCC Application for Wireless Telecommunications Bureau Radio Service Authorization, FCC Form 601. FCC Form 601, Schedule F, is used to apply, or to amend a pending application, for an authorization to operate a radio station in the Cellular Radiotelephone Service. The 601 Main Form must be filed in conjunction with this schedule.

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

**Schedule F  
Instructions**

**•Market/Channel Block**

Item 1 To add a new license, or to modify an existing license, enter the market to which the filing pertains. Market designators are listed in the FCC Public Notices.

Item 2 Enter the market name of the specified market designator.

Item 3 Enter the sub-market designator only if the market has been subdivided. Sub-market designators are listed in the FCC Public Notices.

Item 4 Enter the channel block of the market, either 'A' or 'B'. For filings in the Air-ground Radiotelephone Service (commercial aviation), the answer to this item is 'C-' followed by a number between 1 and 29 (e.g., C-17).

**•Unserved Area Information**

Item 5 If this application is for a Phase I unserved area, as defined by 47 CFR Section 22.949(a), enter 'Y' for Yes. Otherwise, enter 'N' for No. If Yes, also complete Items 7 through 12, as applicable.

Item 6 If this application is for Phase II unserved areas, as defined by 47 CFR Section 22.949(b), enter 'Y' for Yes. If Yes, also complete Items 7 through 12, as applicable. Otherwise, enter 'N' for No.

Item 7 Enter the market(s) to which the filing pertains. If this application is for a Phase I unserved area, list the market in which the cells for the proposed unserved area is located. If this application is for Phase II unserved areas, list the markets contained within the proposed Service Area Boundaries. Market designators are listed in the FCC Public Notices. Only one CGSA may be listed on an application.

Item 8 Enter the market name of the specified market designator.

Item 9 Enter the sub-market designator only if the market has been subdivided. Sub-market designators are listed in the FCC Public Notices.

Item 10 Enter the channel block of the market, either 'A' or 'B'. For filings in the Air-ground Radiotelephone Service (commercial aviation), the answer to this item is 'C-' followed by a number between 1 and 29 (e.g., C-17).

**Item 11** Enter the location number of the fixed station, as entered on Schedule D Item 2.. Refer to the instructions for Schedule D for more information on assigning location numbers.

**Item 12** Enter 'Y' if the unserved area applied for in each market (or sub-market) entered in Item 7 (or 9) is in Phase II at the time of this filing. Enter 'N' if the market is not in Phase II.

#### ►System Identification Numbers

This section must be completed only when a system identification number is to be added or deleted. If you are adding a new system identification number, complete all items in this section for each system identification number to be added. If you are deleting a system identification number, only Items 13, 14, and 15 or 17 are required. System Identification Numbers 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 13** This item indicates what action the filer wants the FCC to take in the database for the specified system identification number. Enter 'A' for Add, or 'D' for Delete.

**Item 14** Enter the System Identification (SID) number for the specified market.

**Item 15** This item specifies the market pertaining to the requested action. The market designators are listed in the FCC Public Notices.

**Item 16** Enter the channel block of the specified market, either 'A' or 'B'. For filings in the Air-ground Radiotelephone Service (commercial aviation), the answer to this item is 'C-' followed by a number between 1 and 29 (e.g., C-17).

**Item 17** Enter the sub-market designator only if the market has been subdivided. The sub-market designators are listed in the FCC Public Notices.

**Item 18** In addition to Item 15, this item identifies the markets to which the action pertains. The market names are listed in the FCC Public Notices.

#### ►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 19 and 20, complete only the items that have changed for each control point. If you are deleting a control point, only Items 19 and 20 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 19** This item indicates what action the filer wants the FCC to take in the database for the specified control point. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 20** If the control point has been previously licensed under this call sign by the FCC, enter its FCC-assigned control point number (located on the Authorization). For a new control point, assign a code to represent the control point. The assigned control point number should begin with C to identify it as a control point (e.g., C1, C2, C3, etc.). The FCC will assign a number to the new control point, which will appear on the Authorization.

**Item 21** Enter the street address, city or town, county, 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 22** Enter the telephone number where a person responsible for operation of the station or systems could be reached.

#### ►Cellular Geographic Service Area

**Item 23** If this filing requests a Cellular Geographic Service Area (CGSA) boundary to be determined using an alternative method, enter 'Y' for Yes. If you respond Yes to this item, you must attach an exhibit explaining the circumstances. Otherwise, enter 'N' for No.

#### ►Technical Parameters (Antenna Data)

This section must be completed only 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 24, 25, and 26, complete only the items that have changed for each antenna. If you are deleting antennas, only Items 24, 25, and 26 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 24** This item indicates what action the filer wants the FCC to take in the database for the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 25** 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 (located on the Authorization). Otherwise, enter the location code assigned on Schedule D to represent the location. Refer to the instructions for Schedule D for more information on assigning location numbers.

**Item 26** If the antenna has been previously registered with the Commission, enter the antenna's FCC-assigned number (located on the Authorization). Otherwise, enter a code to represent each antenna. The antenna number assigned should begin with A to identify it as an antenna. For example, enter A1 for the first antenna, A2 for the next antenna, and so on. A single location can have multiple antennas. Antenna numbers need only be unique within each location. The FCC will assign a number to the new antenna, which will appear on the Authorization.

**Note:** Location number (Item 25) and antenna number (Item 26) are used to associate information in the Technical Parameters (Antenna Data) Section with information in the Radial Data Section. To do this, enter the necessary information into the Antenna Information Section using the appropriate location number and antenna number. Then, enter the necessary information in the Radial Data Section for that antenna, using the same location number/antenna number pair. Each antenna specified must have corresponding radial data.

**Items 27 and 28** These items report the actual and effective height at which the antenna is mounted. Enter both the actual and effective heights in meters, rounded to the nearest tenth. Item 27 is not required for filings in the Air-ground Radiotelephone Service.

**Item 29** 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.

#### •Radial Data

This section must be completed only when radial data is to be added, modified, or deleted. If you are adding new radial data, complete all items in this section for each set of radial data added. If you are modifying existing radial data, in addition to Items 30, 31, and 32, complete only the items that have changed for each set of radial data. If you are deleting radial data, only Items 30, 31, and 32 are required. 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.

**Item 30** This item indicates what action the filer wants the FCC to take in the database for the radial data of the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 31** For each antenna structure, enter its corresponding location number, as entered in Item 25 of the Technical Parameters (Antenna Data) Section of this schedule.

**Item 32** For each antenna, enter its corresponding antenna number, as entered in Item 26 of the Technical Parameters (Antenna Data) Section of this schedule.

**Item 33** 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. This item is not required for filings in the Air-ground Radiotelephone Service.

**Item 34** This item reports, in watts, the effective radiated power (ERP) in each of the eight cardinal radial directions. This item is not required for filings in the Air-ground Radiotelephone Service.

**Item 35** This item reports the calculated radial distance to the service area boundary (SAB) from the specified location. Enter this item in kilometers, rounded to the nearest tenth. This item is only required for filings in the Cellular Radiotelephone Service.

**Item 36** This item reports the determined radial distance to the Cellular Geographic Service Area (CGSA) from the specified location. Enter this item in kilometers, rounded to the nearest tenth. This item is only required for filings in the Cellular Radiotelephone Service.

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

Market / Channel Block

| 1)<br>Market Designator | 2)<br>Market Name | 3)<br>Sub-Market Designator | 4)<br>Channel Block |
|-------------------------|-------------------|-----------------------------|---------------------|
|                         |                   |                             |                     |

Unserviced Area Information

|  |                          |
|--|--------------------------|
| 5) Is this application for a Phase I unserved area as defined by 47 CFR Section 22.949(a)?<br>Complete Items 7 through 12, as applicable.  | ( ) <u>Yes</u> <u>No</u> |
| 6) Is this application for a Phase II unserved area as defined by 47 CFR Section 22.949(b)?<br>Complete Items 7 through 12, as applicable. | ( ) <u>Yes</u> <u>No</u> |

| 7)<br>Market Designator | 8)<br>Market Name | 9)<br>Sub-Market Designator | 10)<br>Channel Block | 11)<br>Location | 12)<br>Phase II?         |
|-------------------------|-------------------|-----------------------------|----------------------|-----------------|--------------------------|
|                         |                   |                             |                      |                 | ( ) <u>Yes</u> <u>No</u> |
|                         |                   |                             |                      |                 | ( ) <u>Yes</u> <u>No</u> |
|                         |                   |                             |                      |                 | ( ) <u>Yes</u> <u>No</u> |
|                         |                   |                             |                      |                 | ( ) <u>Yes</u> <u>No</u> |

System Identification Numbers

| 13)<br>Action<br>A/D | 14)<br>SIDS | 15)<br>Market Designator | 16)<br>Channel Block | 17)<br>Sub-Market Designator | 18)<br>Market Name |
|----------------------|-------------|--------------------------|----------------------|------------------------------|--------------------|
|                      |             |                          |                      |                              |                    |
|                      |             |                          |                      |                              |                    |
|                      |             |                          |                      |                              |                    |

Control Points

| 19)<br>Action<br>A/M/D | 20)<br>Control Point<br>Number | 21)<br>Location<br>Street Address, City or Town, County, State | 22)<br>Telephone<br>Number |
|------------------------|--------------------------------|--|----------------------------|
|                        |                                |  |                            |
|                        |                                |  |                            |
|                        |                                |  |                            |

|  |                          |
|--|--------------------------|
| 23) Is this a request for a CGSA boundary to be determined using an alternative method?<br>If 'Yes', attach an exhibit explaining circumstances. | ( ) <u>Yes</u> <u>No</u> |
|--|--------------------------|



**Radial Data**

| 30) Action: ( ) <u>A</u> dd <u>D</u> elete <u>M</u> odify |                                       | 31) Location Number:               | 32) Antenna Number:                    |   |
|---|---------------------------------------|------------------------------------|--|---|
| Azimuth<br>(degrees from true<br>north)                   | 33)<br>Antenna Height AAT<br>(meters) | 34)<br>Transmitting ERP<br>(watts) | 35)<br>Distance to SAB<br>(kilometers) | 36)<br>Distance to CGSA<br>(kilometers) |
| 0°  |                                       |                                    |  |   |
| 45°   |                                       |                                    |  |   |
| 90°   |                                       |                                    |  |   |
| 135°  |                                       |                                    |  |   |
| 180°  |                                       |                                    |  |   |
| 225°  |                                       |                                    |  |   |
| 270°  |                                       |                                    |  |   |
| 315°  |                                       |                                    |  |   |

| 30) Action: ( ) <u>A</u> dd <u>D</u> elete <u>M</u> odify |                                       | 31) Location Number:               | 32) Antenna Number:                    |   |
|---|---------------------------------------|------------------------------------|--|---|
| Azimuth<br>(degrees from true<br>north)                   | 33)<br>Antenna Height AAT<br>(meters) | 34)<br>Transmitting ERP<br>(watts) | 35)<br>Distance to SAB<br>(kilometers) | 36)<br>Distance to CGSA<br>(kilometers) |
| 0°  |                                       |                                    |  |   |
| 45°   |                                       |                                    |  |   |
| 90°   |                                       |                                    |  |   |
| 135°  |                                       |                                    |  |   |
| 180°  |                                       |                                    |  |   |
| 225°  |                                       |                                    |  |   |
| 270°  |                                       |                                    |  |   |
| 315°  |                                       |                                    |  |   |

Information and Instructions

Technical Data Schedule for the  
Maritime and Aviation Services (Parts 80 and 87)

FCC Form 601, Schedule G, is a supplementary schedule for use with the FCC Application for Wireless Telecommunications Bureau Radio Service Authorization, FCC Form 601. FCC Form 601, Schedule G, is used to apply, or to amend a pending application, for an authorization to operate a station on land in the Maritime Service or a ground radio station in the Aviation Service, as defined in 47 CFR, Part 80 or Part 87, respectively. The 601 Main Form must be filed in conjunction with this schedule.

If you are applying for authorization of fixed transmit station locations, you must file technical information for each location, including the antenna structures, using Schedule D, Schedule for Fixed Station Locations and Antenna Structures. It is recommended that you complete Schedule D (if required) prior to completing Schedule G.

If you are applying for authorization of mobile transmit locations, temporary fixed station locations, itinerant stations, or 6.1 meter control stations, you must file technical information for each location or station using Schedule E, Schedule for Mobile, Temporary Fixed, and 6.1 Meter Control Stations. It is recommended that you complete Schedule E (if required) prior to completing Schedule G.

The following instructions apply when filing Schedules D or E in tandem with this schedule:

Maritime coast and aviation ground stations may not submit both schedules D and E in the same application package (one application package being an FCC Form 601 Main Form and any associated schedules). Separate application packages must be submitted for fixed and mobile operations.

Schedule E Item 3 This item does not apply to Maritime Coast and Aviation Ground stations.

Schedule E Item 16 Each mobile location can contain only one occurrence of a unit type. For example, if a number of units is entered for 'Hand held', then all other unit types should be blank. 'Hand held', 'Mobile', and 'Temporary Fixed' unit types are applicable to any Maritime and Aviation service. 'Aircraft' and 'Itinerant' choices are only applicable to flight test stations.

Schedule G  
Instructions

•Class of Station

Item 1 Enter the appropriate class of station code from one of the following tables. There are separate tables for Maritime Service and Aviation Service.

For Maritime Service, select the class of station code from the following table:

|   |     |
|---|-----|
| Alaska Private .....                        | APX |
| Alaska Public .....                         | APC |
| Marine OPS Fixed .....                      | MFX |
| Marine Utility .....                        | FCU |
| Maritime Receiver Test .....                | MRT |
| Maritime Support-Testing and Training ..... | FCA |
| Private Coast .....                         | FCL |
| Public Coast .....                          | FC  |
| Shore Radionavigation .....                 | MSR |
| Shore Radionavigation/RACON .....           | RLR |
| Shore Radar Test .....                      | MSC |
| Shore Radiolocation Test .....              | RLC |

Note: Where appropriate, follow each code with 1 for Hand held/Mobile operations or 2 for Temporary operations.

For Aviation Service, select the class of station code from the following tables:

**AF Service**

|  |     |
|--|-----|
| Aeronautical Advisory (Unicom) .....       | FAA |
| Aeronautical Enroute .....                 | FA  |
| Aeronautical Fixed .....                   | AX  |
| Aeronautical Multicom .....                | MFL |
| Aircraft (Flight Test Stations only) ..... | FMA |
| Airport Control Tower or RCO .....         | FAC |
| Automatic Weather Observation .....        | FAB |
| Aviation Support Instructional .....       | FAS |
| Aviation Support Service .....             | FLU |
| Flight Test .....                          | FAT |

**AA Service**

|                                      |     |
|--------------------------------------|-----|
| Aeronautical Search and Rescue ..... | SAR |
| Aeronautical Utility Mobile .....    | MOU |
| Operational Fixed .....              | AOX |

**AR Service**

|                                   |     |
|-----------------------------------|-----|
| Aeronautical Marker Beacon .....  | RLA |
| Aeronautical Radio Beacon .....   | RLB |
| ELT Test .....                    | ELT |
| Glide Path (Slope) .....          | RLG |
| Localizer .....                   | RLL |
| Omnidirectional Radio Range ..... | RLO |
| Radar/Radar Test .....            | RLD |
| Radionavigation Land .....        | RNV |
| Radionavigation Land Test .....   | RLT |

**Note:** Where appropriate, follow each code with 1 for Mobile operations, 2 for Temporary operations, or (for flight test stations only) 3 for Itinerant operations.

**Item 2** This item must be answered 'Yes' for the following classes of station:

Aeronautical Advisory  
Aeronautical Enroute/Fixed  
Airport Control Tower Stations

For all other classes of station, answer this item 'No.'

**Item 3** This item must be answered by all applicants for public coast and Alaska public fixed stations. Otherwise, leave this item blank.

**•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 4 and 5, complete only the items that have changed for each control point. If you are deleting a control point, only Items 4 and 5 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 4** This item indicates what action the filer wants the FCC to take in the database for the specified control point. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 5** Enter the FCC-assigned control point number (located on the Authorization). For a new control point, assign a code to represent the control point. The assigned control point number should begin with C to identify it as a control point (e.g., C1, C2, C3, etc.). The FCC will assign a new number to the control point, which will appear on the Authorization.

**Item 6** Enter the street address, city or town, county, 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 7** Enter the telephone number (including area code) where a person responsible for operation of the station or systems could be reached.

#### •Antenna Information

This section must be completed only when antennas are to be added, modified, or deleted. If you are adding a new antenna, complete all items for each antenna to be added. If you are modifying an existing antenna, in addition to Items 8, 9, and 10, complete only the items for the antenna that have changed. If you are deleting an antenna, only Items 8, 9, and 10 are required. Antennas 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 8** This item indicates what action the filer wants the FCC to take in the database for the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 9** For each antenna structure, enter its corresponding location number, as entered on Schedule D Item 2 or Schedule E Item 2. If the location has been previously licensed under this call sign by the FCC, enter the FCC-assigned location number (located on the Authorization). Otherwise, enter the location code assigned on Schedule D or Schedule E to represent the location. Refer to the instructions for Schedules D and E for more information on assigning location numbers.

**Item 10** If the antenna has been previously licensed under this call sign by the FCC, enter the antenna's FCC-assigned number (located on the Authorization). Otherwise, enter a code to represent each antenna. The antenna number assigned should begin with A to identify it as an antenna. For example, enter A1 for the first antenna, A2 for the next antenna, and so on. A single location can have multiple antennas. Antenna numbers need only be unique within each location. The FCC will assign the new antenna a number, which will appear on the Authorization.

**Note:** Location number (Item 9) and antenna number (Item 10) are used in to associate information in the Antenna Information Section with information in the Frequency Information Section. To do this, enter the necessary information into the Antenna Information Section using the appropriate location number and antenna number. Then, enter the necessary information in the Frequency Section for that antenna, using the same location number/antenna number pair. Each antenna specified must have corresponding frequency information.

**Item 11** Enter the ratio (decibels) of the power required at the input of loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power-flux density at the same distance. This information should be available from the specification sheet included with the antenna at the time of purchase.

**Item 12** Enter the angle in the horizontal plane of the transmitting antenna main lobe measured clockwise with respect to True North in degrees, or enter '360' to indicate that the transmitting antenna is non-directional.

**Item 13** Enter the actual height from the ground to the tip of the antenna. Enter this item in meters, rounded to the nearest tenth.

**Item 14** Enter the approximate attenuation, including any padding, to the nearest tenth of a dB, between the point at which the power output of the transmitter is measured for type-acceptance/notification approval and the input to the antenna. If this value is less than 1 dB, leave this item blank. For power splits, the power reduction for a particular path will be considered the loss.

**Item 15** Enter the Half Power Beamwidth (Aeronautical enroute HF and Public Coast HF stations only).

**Item 16** Enter the Receive Zone (Aeronautical enroute HF and Public Coast HF stations only).

#### •Frequency Information

This section must be completed only when frequencies are to be added, modified, or deleted. If you are adding new frequencies, complete all items for each frequency to be added. If you are modifying existing frequencies, complete all items for each frequency to be modified. The new frequency information will overlay the existing frequency information in the FCC's database. If you are deleting frequencies, only Items 17 through 21 are required. Frequencies 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.

**Note:** If FAC (for Airport Control Tower/RCO station) was entered as the station class in Item 1, complete Items 17, 18, 19, 20b, 20c, 21, 22, and 23 of this section; all station classes except FAC complete Items 17, 18, 19, 20a, 21, 22, 23, and 24. For multiple frequency lines, repeat the location number/antenna number combination for each frequency.

For example:

| <u>Location</u> | <u>Antenna</u> | <u>Frequency (MHz)</u> |
|-----------------|----------------|------------------------|
| F1              | A1             | XXXXXXXX.XXXXXXXX      |
| F1              | A1             | YYYYYYYY.YYYYYYYY      |
| F1              | A1             | <u>ZZZZZZZ.ZZZZZZZ</u> |
| F1              | A2             | AAAAAAAA.AAAAAAAAA     |
| F1              | A2             | BBBBBBBB.BBBBBBBB      |
| F2              | A1             | CCCCCCCC.CCCCCCCC      |
| F2              | A1             | DDDDDDDD.DDDDDDDD      |

**Item 17** This item indicates what action the filer wants the FCC to take in the database for the specified antenna. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 18** For each antenna structure, enter its corresponding location number, as entered in Item 9 of the Antenna Information Section of this schedule.

**Item 19** For each antenna, enter its corresponding antenna number, as entered in Item 10 of the Antenna Information Section of this schedule.

**Item 20a (All station classes except FAC)** Enter the specific frequencies in Megahertz (MHz) in the 'Lower' column. The requested frequencies must be available in the Commission's rules governing the radio service in which you are seeking eligibility. If applying for a single-sideband frequency, show carrier frequency only. If applying for a frequency band, show lower and upper in appropriate columns. Use a separate line for each frequency. For Aviation Ground Radionavigation (Nav aids) or Automatic Weather Observation/Automatic Surface Observation stations: if frequency is not known, you may leave Item 20a blank. Items 21 and 22 must be completed.

If multiple frequencies are being added to one location, complete as many lines as necessary, repeating the location number in Item 18 and the antenna number in Item 19 for each frequency added. A separate line needs to be completed for each frequency if there are multiple emissions, multiple antenna tips, multiple station classes, etc. To do this, complete as many lines as for each frequency as necessary, repeating the location number in Item 18, the antenna number in Item 19, the frequency in Item 20a, and the remaining technical information for each frequency line, as appropriate.

**Item 20b (Station Class FAC only)** Enter the specific frequencies in Megahertz (MHz), if known. The requested frequencies must be available in the Commission's rules governing the radio service in which you are seeking eligibility. Use a separate line for each frequency.

If multiple frequencies are being added to one location, complete as many lines as necessary, repeating the location number in Item 18 and the antenna number in Item 19 for each frequency added. A separate line needs to be completed for each frequency if there are multiple emissions, multiple antenna tips, multiple station classes, etc. To do this, complete as many lines as for each frequency as necessary, repeating the location number in Item 18, the antenna number in Item 19, the frequency in Item 20a, and the remaining technical information for each frequency line, as appropriate.

**Item 20c (Station Class FAC only)** Enter one of the following frequency type codes for each requested frequency:

- L Local Control
- G Ground Control
- E Emergency (121.5 MHz) - List this frequency **Only** if you wish to transmit on the frequency 121.5 MHz. Do not list the frequency if you intend to **Monitor only**. If you wish to be exempt from the monitoring requirement, you must submit your exemption request as an attachment to this form.
- O Other - Use this code for ATIS (Automatic Terminal Information Service) and any other frequency not defined above.

If a Local Control, Ground Control, or Other frequency has not yet been reserved by FAA, you may leave Item 20a blank. However, you must complete a line for each requested frequency (Items 17, 18, 19, 20c, 21, 22, 23).

**Item 21** Enter the maximum transmitter output power in watts.

**Item 22** Enter the Proposed Hours of Operation (Public Coast, Public Fixed, and Airport Control Tower stations only).

**Item 23** Enter the Operational Altitude (Aeronautical Enroute VHF stations only).

**Item 24** Enter the emission designator for each station. The new ITU (International Telecommunications Union) emission designators may be used in place of the old designators. The following are samples of the corresponding new ITU designators for the most commonly used emission designators.

**Note:** These are samples only and do not necessarily represent an emission for which you should apply.

|   | Old    | New     |
|---|--------|---------|
| Frequency modulated (FM) voice            | 16F3   | 16K0F3E |
| Frequency modulated (FM) voice            | 13.6F3 | 13K6F3E |
| Frequency modulated digitized voice       | 20F3Y  | 20K0F1E |
| Frequency modulated digitized non-voice   | 20F9Y  | 20K0F1D |
| Amplitude modulated single sideband voice | 2.8A3J | 2K80J3E |
| Amplitude modulated (AM) voice            | 6A3    | 6K00A3E |

#### •FAA Coordination Information

**Item 25** This item must be completed if the filer has specified any of the following station classes in Item 1:

Aviation Support (121.950 MHz only)  
Airport Control Tower, including RCO  
Radionavigation Land (all Navigational Aids)  
Radionavigation Land Test (RLT)  
AWOS/ASOS (Automatic Weather Observation/Automatic Surface Observation)

Enter the FAA regional office to where the notification was sent and the date that the FAA was notified. The Federal Aviation Administration (FAA) must be notified that this application is being submitted. Notification to the FAA must be made concurrently with the filing of this application. Applications submitted without the required FAA notification will be returned to the applicant without action.

#### •Certifications

Indicate the certifications that pertain to the type of station for which this application is being filed. By signing the Main Form filed in conjunction with this schedule, the applicant certifies that the statements listed in this section are true, complete, correct, and made in good faith.

#### International Registration Information

As a signatory party to international treaty agreements, the FCC performs certain actions regarding the use of radio. The technical details of your station parameters may be reported to the International Telecommunications Union, Geneva, Switzerland, and to countries which border on or in close proximity to the United States. This information along with data reported by other nations will be used to protect reported stations and aid in resolution of interference disputes between licensees in different countries.

Certain marine coast stations, because of their geographic location, would be best protected by provision of additional information. Specifically, this includes any proposed station which is located in the region north of Line 'A', or in the State of Alaska east of Line 'C'. Refer to Section 1.955 of the Commission's Rules for a detailed explanation of Lines A and C. Appendix I in FCC Form 601 Main Form Instructions contains a list of counties, by state, having areas North of Line A.

Unless advised to the contrary, the FCC will make certain assumptions which reflect the typical fixed or temporary fixed VHF marine coast station. Carefully review the list below with respect to your particular situation. If you believe that these assumptions would leave your station insufficiently protected, provide the correct data in Schedule G. If you do not provide the actual data and an interference problem arises involving another country's station, your station will be protected only to the limit of the FCC's assumptions.

The following station parameters will be assumed unless otherwise stated:

- 1) **Antenna Polarization.** All stations will be reported as having antennas with vertical polarization.
- 2) **Antenna Gain.** The antenna gain for all fixed and temporary fixed VHF marine coast stations will be assumed to be 6 dB.

3) **Antenna Azimuth of Main Lobe.** The FCC will report each fixed or temporary fixed VHF marine coast station as having an omnidirectional (360) azimuth.

4) **Beamwidth.** Where an omnidirectional antenna is assumed, beamwidth has no relevance, and therefore, no assumed value will be used.









## FAA Coordination Information

25) Applicants for a new or modified Aviation Support (121.950 MHz), Control Tower, RCO, Radionavigation Land, Radionavigation Land Test, or AWOS/ASOS must provide the following information:

FAA Regional Office Notified: \_\_\_\_\_

Date Notified: \_\_\_\_\_

## Certifications

### Private coast station and marine utility station certification. Check all that apply.

I certify that I am:

- Seeking authorization in an area having a recognized frequency coordinating committee (Southern California Marine Radio Council, North Pacific Marine Radio Council) and the committee has endorsed the use of the frequency(ies) and location(s) requested.
- Regularly engaged in the operation, docking, direction, construction, repair, servicing or management of one or more commercial transport vessels or U.S., state or local government vessels; or, responsible for the operation, control, maintenance, or development of a harbor, port, or waterway used by commercial transport vessels; or responsible for the operation of bridges, structures, or other installations that are part of, or directly related to, a harbor, port, or waterway when the operation of such facilities requires radio communications with vessels for safety or navigation.
- Engaged in furnishing a ship arrival and departure service; or, a corporation furnishing a nonprofit radio communication service to its parent corporation, a subsidiary of the parent, or its own subsidiary, where the party to be served is eligible for a private coast or marine utility station license; or, a nonprofit corporation or association organized to furnish a maritime mobile service solely to persons who operate one or more commercial transport vessels.
- A person controlling public mooring facilities; or, a yacht club with moorage facilities.
- A person servicing or supplying vessels other than commercial transport vessels; or, a nonprofit organization providing noncommercial communications to vessels other than commercial transport vessels.

### Operational fixed station certification.

- I certify that I am the licensee of a coast station and no other suitable telecommunications facilities are available to satisfy coast station requirements.

### Maritime support station certification.

- I certify that I intend to use this authorization to train personnel associated with the maritime service, or to test, demonstrate, or maintain ship or coast radio equipment.

### Aeronautical fixed station certification.

- I certify that I am the licensee of an associated aeronautical enroute station and that adequate land line facilities are not available to fulfill this communications need.

### Aeronautical advisory station (unicom) certification.

- I certify that the station will be located on the property of the airport to be served and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport at least ten days prior to application.

### Aeronautical search and rescue station certification.

- I certify that I am a governmental entity or private organization chartered to perform aeronautical search and rescue functions.

### Flight test station certification. Check all that apply.

I certify that I am:

- Applying for UHF frequencies and request use of them in support of a contract with the U.S. Government.
- A manufacturer of aircraft or major aircraft components
- A parent corporation or its subsidiary if either corporation is a manufacturer of aircraft or major aircraft components
- An educational institution or person primarily engaged in the design, development, modification, and flight test evaluation of aircraft or major aircraft components

### Aviation support station certification. Check all that apply.

I certify that I am:

- the operator of a flight school
- an operator of lighter than air aircraft
- engaged in soaring or free ballooning
- the operator of an airport or aviation service organization located on an airport

### Radiodetermination station certification. Check all that apply.

- The FAA is not prepared to render the service for which I am applying.
- I am engaged in the development, manufacture, or maintenance of aircraft radionavigation equipment.
- I intend to establish the proposed facility at an airport for the use of the public.
- I am engaged in the testing, manufacture, or design of ELTs or I train personnel in the operation and location of ELTs.

### Civil Air Patrol station certification.

- I certify that I represent Wings or the Headquarters of the Civil Air Patrol.

### Aeronautical Enroute/122.825 or 122.875 MHz Certification

- I certify that this station will provide communications only to aircraft with a maximum capacity of up to 56 passengers or carrying up to 18,000 lbs. of cargo.

Information and Instructions

**Technical Data Schedule for the  
Private Land Mobile and Broadcast Auxiliary Land Mobile Radio Services  
(Parts 90 & 74)**

FCC Form 601, Schedule H, is a supplementary schedule for use with the FCC Application for Wireless Telecommunications Bureau Radio Service Authorization, FCC Form 601. FCC Form 601, Schedule H, is used to apply, or to amend a pending application, for an authorization to operate a radio station in the Private Land Mobile and Broadcast Auxiliary Land Mobile Radio Services, as defined in 47 CFR, Parts 90 and 74. The 601 Main Form must be filed in conjunction with this schedule.

If you are applying for authorization of fixed transmit station locations, you must file technical information for each location, including the antenna structures, using Schedule D, Schedule for Fixed Station Locations and Antenna Structures. It is recommended that you complete Schedule D (if required) prior to completing Schedule H.

If you are applying for authorization of mobile transmit locations, temporary fixed station locations, or 6.1 meter control stations, you must file technical information for each location or station using Schedule E, Schedule for Mobile, Temporary Fixed, and 6.1 Meter Control Stations. It is recommended that you complete Schedule E (if required) prior to completing Schedule H.

If you are applying for authorization of a mobile station operating around a fixed location, you must file both Schedule D and Schedule E. Technical information for each schedule must be collected separately. The fixed location value entered in Item 2 on Schedule D must also be entered in Item 3 on Schedule E. It is recommended that you complete Schedules D and E (if required) prior to completing Schedule H.

**Schedule H  
Instructions**

•Eligibility

Item 1 Enter the number and paragraph of the FCC Rule Section that describes the eligibility for the radio service you specified in Item 1 of the FCC Form 601 Main Form.

•Frequency Coordinator Information

Items 2, 3, 4 These items will be completed by the appropriate certified frequency coordinators for those applicants who are required to comply with the frequency coordination requirements. Broadcast Auxiliary Applicants who have notified their local frequency coordination committee should enter the name of the frequency coordinator and the voice telephone number, including area code, of the person contacted (Item 2 can be left blank).

•Associated Call Signs

Item 5 List any call signs that are part of the system and licensed separately.

•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 a 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 6 and 7 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 what action the filer wants the FCC to take in the database for the specified control point. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 7** Enter the FCC-assigned control point number (located on the Authorization). For a new control point, assign a code to represent the control point. The assigned control point code should begin with C to identify it as a control point (e.g., C1, C2, C3, etc.). The FCC will assign the new control point a number, which will appear on the Authorization.

**Item 8** Enter the street address, city or town, county, and state of the control point. Refer to FCC 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 control point could be reached.

#### •Broadcast Auxiliary

**Item 10** This item applies only to the Broadcast Auxiliary Radio services. If there is an associated parent station, enter the call sign of the parent station, the class of the parent station (i.e., AM, FM, or TV), and the city and state of the parent station principal community. If there is no associated parent station, enter the appropriate code for the applicant and the state of primary operation.

#### •Technical Information

This section must be completed only when technical information is to be added, modified, or deleted. Technical information that is 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.

To add new technical information, complete Items 11 through 13, providing a specific frequency at a specific location. Enter all the technical information associated with that location/frequency combination in each of Items 14 through 21. Items 14 through 21 may require multiple entries to adequately describe the frequency at the location. Repeat for each new location/frequency combination.

To modify existing technical information, complete Items 11 through 13, providing a specific frequency at a specific location. Enter all the technical information associated with that location/frequency combination in each of Items 14 through 21. Enter all the previous technical information that is still applicable along with all new technical information. Items 14 through 21 may require multiple entries to adequately describe the frequency at the location. Repeat for each modified location/frequency combination.

To delete technical information, complete only Items 11 through 13, providing a specific frequency at a specific location. All technical information for that frequency at that location will be deleted. Repeat for each deleted location/frequency combination.

**Note:** For purposes of using this schedule, technical information will be associated by frequency and location. Thus, each location may have multiple frequencies and any given frequency may be present at multiple locations.

**Item 11** This item indicates what action the filer wants the FCC to take in the database for the specified technical information for the frequency. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 12** For each frequency, enter its corresponding location number, as entered on Schedule D Item 2 or on Schedule E Item 2. If the location has been previously licensed under this call sign by the FCC, enter the FCC-assigned location number (located on the Authorization). Otherwise, enter the location code assigned on Schedule D or Schedule E to represent the location. Refer to the instructions for Schedules D and E for more information on assigning location numbers.

**Item 13** Enter the specific frequencies in Megahertz. The requested frequencies must be available in the Commission's rules governing the radio service in which you are seeking eligibility. Use a separate line for each frequency (the exceptions being that 800 MHz SMRS mobiles and controls are now designated by frequency range 806-821 and 900 MHz SMRS mobiles and controls are now designated by frequency range 896-901). Low Power Broadcast Auxiliary applicants should refer to Rule Section 74.802 for a complete and accurate listing of the acceptable frequency ranges.

**Note:** If you are required to complete the Additional Technical Information Section, location number (Item 12) and frequency (Item 13) are used to associate information in the Technical Information Section with data in the Additional Technical Information Section. To do this, enter information into the Technical Information Section using the appropriate location number and frequency. Then enter information in the Additional Technical Information Section for that frequency, using the same location number and frequency.

**Item 14** Enter the appropriate class of station code from the following table. Definitions for most of these items are listed in the Commission's rules.

|   |      |
|---|------|
| Base .....  | FB   |
| Mobile Relay .....                                  | FB2  |
| Community Repeater .....                            | FB4  |
| Private Carrier (Profit) .....                      | FB6  |
| Private Carrier (Non-profit) .....                  | FB7  |
| Control .....                                       | FX1* |
| Mobile .....  | MO   |
| Mobile/Vehicular Repeater .....                     | MO3  |
| Private Carrier Mobile Operation (Profit) .....     | MO6  |
| Private Carrier Mobile Operation (Non-profit) ..... | MO7  |
| Operational Fixed .....                             | FXO  |
| Fixed Relay .....                                   | FX2  |
| Fixed .....   | FX** |
| Radiolocation Land .....                            | LR   |
| Radiolocation Weather Radar .....                   | WDX  |
| Radiolocation Mobile .....                          | MR   |
| Secondary Fixed Signaling (for 800 MHz only) .....  | FX3  |

\*Station associated with a mobile relay that employs the same frequency as the associated mobile station for control purposes.

\*\*Station operating on frequencies available for fixed use for control purposes in accordance with applicable rules.

**Note:** Where appropriate, follow each code with 'T' for Temporary, 'I' for Itinerant, 'S' for Standby, 'C' for Interconnect, 'J' for Temporary Interconnect, 'K' for Standby Interconnect, or 'L' for Itinerant Interconnect. For example, FBT means Temporary Base.

**Item 15** Enter the number of actual transmitting units at each station. Normally, for a station at a permanent/fixed location (base, mobile relay, and so on) only one transmitter is involved. Therefore, the number 1 should be entered. However, if more than one transmitter is placed at the same location, so indicate.

The total number of mobile units is normally the sum of the units to be placed in operation at the time of grant plus the units for which purchase orders have been signed and will be in use within eight months. Some exceptions are provided for in the rules, which should be noted.

For this item, vehicular, portable, aircraft, and marine units are considered to be mobiles. Paging receivers should not be counted as mobile units, but must be listed separately in Item 16 of this Schedule H.

**Item 16** Enter the number of paging receivers in this system.

**Item 17** Enter the emission designator for each station. Normally, land mobile operations are intended to provide voice communications. The new ITU (International Telecommunications Union) emission designators must be used in place of the old designators. The following provides samples of the corresponding new ITU designators for the most commonly used emission designators. These are samples only and do not necessarily represent an emission for which you should apply.

|   | Old    | New     |
|---|--------|---------|
| Frequency modulated (FM) voice            | 20F3   | 20K0F3E |
| Frequency modulated (FM) voice            | 13.6F3 | 13K6F3E |
| Frequency modulated digitized voice       | 20F3Y  | 20K0F1E |
| Frequency modulated digitized non-voice   | 20F9Y  | 20K0F1D |
| Amplitude modulated single sideband voice | 3A3J   | 3K00J3E |
| Amplitude modulated (AM) voice            | 8A3    | 8K00A3E |

**Item 18** When operating with single sideband (A3J or new designator J3E) emission, enter the peak envelope power (watts), followed by the letter X, which represents peak envelope power in accordance with Appendix 1, ITU Radio Regulations. For operations using the emission designators NON, A1A, A2D, A3E, A9W, F1B, F2D, F3E, and F9W – enter the mean RF output power (watts) normally supplied by the transmitter to the antenna feedline. (See the applicable rules.)

**Note:** The power entered should be the minimum required for satisfactory operations.

**Item 19** This information is required for operations above 10 MHz, from applicants requesting new station authorizations, and for major modifications described in the applicable rules.

Enter the effective radiated power (ERP). The ERP is the transmitted output power times the net gain of the antenna system. This is the gain of the antenna minus the transmission losses, which include losses attributable to the transmission line, duplexers, cavity filters, and isolators. The actual formula is:

ERP (watts) equals Power (watts) times Antilog of (net gain in dB divided by 10)

**Item 20** This is not required for Broadcast Auxiliary Land Mobile Radio Services. For operations in 150-174 MHz, 220-222 MHz, 450-470 MHz, and above 470 MHz, enter the height of the antenna above ground elevation for the average terrain. Enter this item in meters, rounded to the nearest tenth. See the applicable rules for instructions for computing the height above average terrain for the antenna. Applicants applying on frequencies not mentioned in this paragraph may omit this item.

**Item 21** Enter the overall height above ground of the highest part of your antenna (refer to Antenna Figure Sample 'c' on Schedule D). This is the antenna structure plus the height of the antenna (if top-mounted) or the total height from ground to the tip of the antenna (if side-mounted). Enter this item in meters, rounded to the nearest tenth.

## •Additional Technical Information

All Remote Pick Up Broadcast Auxiliary Radio Service fixed location stations and all stations proposing to operate on frequencies below 27.5 MHz **Must** complete this section if the filing is for a new Authorization or if a modification or deletion of the existing Additional Antenna Information needs to be reported. Failure to do so will result in the return of your application without further action. Land Mobile stations located near international borders that seek protection from interference should also complete this section. This section may be completed for all other stations if you believe that the assumptions made by the FCC would leave your station insufficiently protected internationally. The assumptions are listed under International Registration Information. If you do not provide the actual data and an interference problem arises involving another country's station, your station will be protected only to the limit of the FCC's assumptions. You may have to adjust. This is especially important for stations proposed to be operated in any of the counties listed in Appendix I of the Main Form instructions.

This section must be completed only when technical information is to be added, modified, or deleted. Technical information that is 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.

To add new technical information, complete Items 22 through 24, providing a specific frequency at a specific location. Enter all the technical information associated with that location/frequency combination in each of Items 25 through 28. Items 25 through 28 may require multiple entries to adequately describe the frequency at the location. Repeat for each new location/frequency combination.

To modify existing technical information, complete Items 22 through 24, providing a specific frequency at a specific location. Enter all the technical information associated with that location/frequency combination in each of Items 25 through 28. Enter all the previous technical information that is still applicable along with all new technical information. Items 25 through 28 may require multiple entries to adequately describe the frequency at the location. Repeat for each modified location/frequency combination.

To delete technical information, complete only Items 22 through 24, providing a specific frequency at a specific location. All technical information for that frequency at that location will be deleted. Repeat for each deleted location/frequency combination.

**Note:** For purposes of using this schedule, technical information will be associated by frequency and location. Thus, each location may have multiple frequencies and any given frequency may be present at multiple locations.

**Item 22** This item indicates what action the filer wants the FCC to take in the database for the specified technical information for the frequency. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

**Item 23** For each frequency, enter its corresponding location number, as entered in Item 12 of this schedule.

**Item 24** Enter the specific frequencies in Megahertz. The requested frequencies must be available in the Commission's rules governing the radio service in which you are seeking eligibility. Use a separate line for each frequency (the exceptions being that 800 MHz SMRS mobiles and controls are now designated by frequency range 806-821 and 900 MHz SMRS mobiles and controls are now designated by frequency range 896-901). Low Power Broadcast Auxiliary applicants should refer to Rule Section 74.802 for a complete and accurate listing of the acceptable frequency ranges.

**Item 25** Enter the angle in the horizontal plane of the transmitting antenna main lobe measured clockwise with respect to true north (degrees) or enter 360 to indicate the transmitting antenna is non-directional.

**Item 26** For directional antennas, enter the total angle (degrees) measured horizontally in a plane containing the direction of maximum radiation within which the power radiated in any direction does not fall more than 3 dB below the power radiated in the direction of maximum radiation. This information should be available from the specification sheet included with the antenna at time of purchase.

**Item 27** Enter one of the following code letters to represent the polarization of the transmitting antenna for those circuits above 27.5 MHz:

- E – Elliptical
- F – 45 degrees
- H – Horizontal
- J – Linear
- L – Left-hand circular
- R – Right-hand circular
- S – Horizontal and Vertical
- T – Right and left-hand circular

V – Vertical

X – Other (provide a description)

**Item 28** Enter the ratio (decibels) of the power required at the input of loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power flux-density at the same distance. This information should be available from the specification sheet included with the antenna at time of purchase.

### International Registration Information

As a signatory party to international treaty agreements, the FCC performs certain actions regarding the use of radio. The technical details of your station parameters may be reported to the International Telecommunications Union, Geneva, Switzerland, and to countries which border on or in close proximity to the United States. This information along with data reported by other nations will be used to protect reported stations and aid in resolution of interference disputes between licensees in different countries.

Certain stations, because of their geographic location, would be best protected by provision of additional information. Specifically, this includes any proposed station which is located in the region north of Line 'A', or in the State of Alaska east of Line 'C'. Refer to Section 1.955 of the Commission's Rules for a detailed explanation of Lines A and C. Appendix I in FCC Form 601 Main Form Instructions contains a list of counties, by state, having areas North of Line A. If the desired station is to operate in the 806-821/851-866, 821-824/866-869, 896-901/935-940 MHz bands, please consult the applicable rules for available frequencies and use near the United states/Canada/Mexico borders.

**Note:** For control stations meeting the 6.1 meter (20 foot) criteria that require greater than 5 watts output power/ERP for operations in regions north of Line 'A' or in Alaska east of Line 'C', complete FCC Form 601 Schedule E, as applicable, Items 11-19 and 21 of this Schedule H.

Unless advised to the contrary, the FCC will make certain assumptions which reflect the typical station in these services. Carefully review the list below with respect to your particular situation. If you believe that these assumptions would leave your station insufficiently protected, provide the correct data in the Additional Technical Data Section of this Schedule H. If you do not provide the actual data and an interference problem arises involving another country's station, your station will be protected only to the limit of the FCC's assumptions.

The following station parameters will be assumed unless otherwise stated:

- 1) **Antenna Polarization.** All stations will be reported as having antennas with vertical polarization.
- 2) **Antenna Gain.** The antenna gain for all stations will be assumed to be 6 dB.
- 3) **Antenna Azimuth of Main Lobe.** The FCC will report each base or mobile relay station as having an omnidirectional (360°) azimuth. It will also be assumed that each control station associated with a mobile relay station has a directional antenna with its azimuth of maximum radiation directed toward the mobile relay station.
- 4) **Beamwidth.** Where an omnidirectional antenna is assumed, beamwidth has no relevance, and therefore, no assumed value will be used. For control stations we will assume 20°
- 5) **Class of Operation for HF Fixed Stations.** All HF Fixed applicants must file using the Additional Technical Data Section of this schedule. Therefore, no assumptions will be made.
- 6) **Receiver Information.** All stations specified on the same application form are assumed to be communicating with each other as a system. Receivers will be assumed to operate at the same location as the transmitter. In other words, it is assumed that the receiver site for a mobile station transmission is the location of the associated base station. The receiver site for a base station transmission is assumed to be the area of operation of the associated mobile stations. For a control station transmission, it is assumed that the location of the associated mobile relay station is the location of the receiver.
- 7) Control stations meeting the 6.1 meter (20 foot) criteria that are operating in the region north of Line 'A' or in Alaska east of Line 'C' will not be coordinated unless FCC Form 601 Schedule E is completed as applicable, along with Items 11-19 and 21 of this Schedule. The ERP will be limited to 5 watts if the fixed location is not provided for controls meeting the 6.1 meter (20 foot) criteria operating in these areas.