General Certification Statements
By signing this form, the applicant certifies that the statements listed in this section are true, complete, correct, and made in good faith.

ɲnature
ms 51-53 These items must be completed. To be acceptable for filing, applications and amendments must be signed in accordance with Part 1 of the FCC rules. The signor must be a person authorized to sign the application. Paper originals of applications must bear an original signature. On paper originals, neither rubber-stamped nor photocopied signatures are acceptable. For filers filing electronically via ULS, the electronic signature shall consist of the name of the applicant typed on the application as a signature.

Appendix I

General Guidelines on Coordination and Use of Radio Frequencies Above 30 MHz Between the United States and Canada

Note: The following table specifies general coordination criteria only for those frequency bands for which sole coordination authority resides with the FCC. Frequency bands that are shared with the Federal Government may have different coordination criteria than that listed herein and are coordinated by the Interdepartment Radio Advisory Committee (IRAC). Frequency bands not listed in the table are not coordinated by the FCC. See 47 C.F.R. § 2.106 for a table of frequency allocations.

Note: This information is based on treaties between the U.S. and Canada in effect July 1999 and is presented as general guidance only. Treaties are subject to change at any time. If you are unsure of the coordination criteria for a particular frequency band, contact the Commission for guidance.

Frequency (MHz)	Coordination Criteria
30.56 - 32.0	See Note 1.
33.0 - 34.0	See Note 1.
35.0 - 36.0	See Note 1.
37.0 - 38.0	See Note 1.
39.0 - 40.0	See Note 1.
42.0 - 46.6	See Note 1.
47.0 - 49.6	See Note 1.
72.0 - 73.0	See Note 1.
75.4 - 76.0	See Note 1.
121.975 - 123.075	Coordination not required.
123.075 - 123.575	Coordination not required.
128.825 - 132.025	See Note 12.
136.5 - 137.0	See Note 12.
150.8 - 156.2875	See Note 1.
156.2875-157.1625	Coordination not required.
157.1625-157.1875	See Note 1.
157.1875-157.4375	See Note 13.
157.4375-161.7875	See Note 1.
161.7875-162.0375	See Note 13.
162.0375 - 174.0	See Note 1.
450.0 - 454.665	See Note 1.
454.665 – 454.985	See Note 10.
454.985 - 459.665	See Note 1.
459.665 - 459.985	See Note 10.
459.985 - 470.0	See Note 1.
806.0 - 824.0	See Note 9.
824.0 - 849.0	See Note 8.
849.0 - 851.0	See Note 11.
851.0 - 869.0	See Note 9.
869.0 - 894.0	See Note 8.
894.0 - 896.0	See Note 11.
896.0 - 901.0	See Note 9.
901.0 - 901.350	Coordination not required. See Note 3.
901.350 - 901.750	Not licensed within 120 km of border. See Note 3.
901.750 - 901.850	Coordination not required. See Note 3.
901.850 - 901.900	Not licensed within 120 km of border. See Note 3.
901.900 - 901.950	Coordination not required. See Note 3.
901.950 - 902.0	Not licensed within 120 km of border. See Note 3.
928.0 - 928.25	See Note 1.
928.25 - 928.5	Coordination not required.
928.5 - 928.75	See Note 4.

Frequency (MHz)	Coordination Criteria
928.75 - 929.0	See Note 1.
929.0 - 930.0	Coordination not required. See Note 15.
930.0 - 930.4	Not licensed within 120 km of border. See Note 3.
930.4 - 930.8	Coordination not required. See Note 3.
930.8 - 931.0	Not licensed within 120 km of border. See Note 3.
931.0 - 932.0	See Note 5.
932.0 - 932.25	See Note 4.
932.25 - 932.5	Coordination not required.
932.5 - 935.0	See Note 6.
935.0 - 940.0	See Note 9.
940.0 - 940.350	Coordination not required. See Note 3.
940.350 - 940.750	Not licensed within 120 km of border. See Note 3.
940.750 - 941.0	Coordination not required. See Note 3.
941.0 - 941.25	See Note 4.
941.25 - 941.5	Coordination not required.
941.5 - 944.0	See Note 6.
944.0 - 952.0	See Note 2.
952.0 - 952.25	See Note 1.
952.25 - 952.5	Coordination not required.
952.5 - 952.75	See Note 4.
952.75 - 952.85	See Note 1.
952.85 - 960.0	See Note 2.
1535.0 - 1540.0	Coordination not required.
1850.0 - 1990.0	PCS - Coordination not required. See Note 7. Fixed systems - See Note 2.
1990.0 - 2200.0	See Note 2.
2450.0 - 2500.0	See Note 2.
2686.0 - 2690.0	See Note 2.
3700.0 - 4200.0	See Note 2.
5925.0 - 7125.0	See Note 2.
8400.0 - 8500.0	Coordination not required.
10550 - 10680	See Note 2.
10700 - 13250	See Note 2.
13250 - 13400	Coordination not required.
14000 - 15400	Coordination not required.
17700 - 23600	See Note 14.
24250 - 33400	Coordination not required.
36000 and above	Coordination not required.

tes:

1. Coordination is required for stations North of Line A or East of Line C.
   Coordination is not required for stations operating with less than 5 watts effective radiated power (ERP), except for stations associated with Multiple Address Systems.
   Coordination is not required for 161.6 MHz.
   Coordination is required for all stations located within 8 km (5 mi) of the Canadian border.
   Coordination in required for stations located within 56.3 km (35 mi) of the Canadian border when the antenna looks within a 200° sector towards the border. Although not required, the Commission will routinely coordinate stations operating with less than 5 watts effective radiated power (ERP).
   Coordination is not required for stations operating on a secondary basis with less than 5 watts Effective Radiated Power (ERP).
3. Separate channel sharing arrangements exist for the Toronto/Buffalo Region and the Detroit/Windsor Region. See "Canadian Interim Sharing Arrangement For Narrowband PCS", DA 94-1183, *Public Notice*, Oct. 21, 1994.
4. This band is not licensed on a primary basis North of Line A or East of Line C.
5. Coordination is required for stations within 120 km (75 mi) of the border when operating outside the geographical zones defined in 47 C.F.R. § 22.531.
6. Coordination is required for all stations located within 60 km (37.3 mi) of the Canadian border.
   Coordination is required for stations located within 120 km (75 mi) of the Canadian border when the antenna looks within a 200° sector towards the border.
7. See "US/Canada Interim Sharing Arrangement For 2 GHz Broadband PCS", DA 94-1289, *Public Notice*, Nov. 21, 1984.
8. Cellular Radio - Coordination not required. Expansion of systems near Canadian border is subject to mutual agreement by the Canadian service provider.
9. The U.S./Canada border area for these frequency bands is divided into eight geographical regions. See 47 C.F.R. § 90.619 for a definition of the eight regions and a list of which channels are allocated to the U.S. for each region.
10. Air-ground radiotelephone service stations must provide 1000 km (621 mi) distance separation to the nearest co-channel Canadian ground station. See 47 C.F.R. § 22.813.
11. Air-ground radiotelephone service stations located within 885 km (550 mi) of the border but beyond 8 km (5 mi) of any location listed in 47 C.F.R. § 22.859 must be coordinated.
12. Coordination criteria are based on frequency, location, and altitude.
13. VHF Maritime Public Correspondence - See 47 C.F.R. § 80.57 for the Canada/U.S.A. channeling arrangement.
14. Coordinate all stations operating within 56 km (35 mi) of the border.
15. Interim coordination agreement with Canada prohibits U.S. assignment of frequencies 929-929.5 MHz within 75 miles of border.

List of Counties/Boroughs, by State, Having Areas Within Various Canadian Coordination Zones

For use with Schedules D and I

X- County/Borough is completely within specified zone.

X P – County/Borough is partially within specified zone.

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
Alaska			
Haines Borough	X	X	X
Juneau Borough	X	X	X
Ketchikan Gateway	X	X	X P
North Slope	X P	X P	X P
Prince Of Wales outer Ketchikan	X	X P	X P
Sitka	X	X P	
Skagway-Hoonah-Angoon	X	X P	X P
Southeast Fairbanks	X P	X P	X P
Valdez-cordova	X P	X P	X P
Wrangell-petersburg	X	X P	X P
Yakutat	X	X P	X P
Yukon-koyukuk	X P	X P	X P
Idaho			
Bonner	X P	X P	X P
Boundary	X	X	X
Kootenai		X P	
Shoshone	X P	X P	
Indiana			
Allen	X P		
De Kalb	X P		
Steuben	X P		
Maine			
Androscoggin	X P	X P	
Aroostook	X	X	X
Cumberland		X P	
Franklin	X	X	X P
Hancock	X	X P	X P
Kennebec	X P	X P	
Oxford	X P	X P	X P
Penobscot	X P	X P	X P
Piscataquis	X	X	X P
Somerset	X	X P	X P
Waldo	X P	X P	
Washington	X	X	X P
Michigan			
Alcona	X	X	
Alger	X	X P	
Alpena	X	X	X P
Antrim	X P		
Arenac	X	X P	
Baraga	X		
Bay	X	X P	
Branch	X P		
Calhoun	X P		
Charlevoix	X	X P	
Cheboygan	X	X	X P
Chippewa	X	X	X
Clare	X P		
Clinton	X		

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
Michigan (cont'd)			
Crawford	X		
Delta	X		
Dickinson	X		
Eaton	X P		
Emmet	X	X	
Genesee	X	X	
Gladwin	X		
Gogebic	X		
Gratiot	X		
Hillsdale	X	X P	
Houghton	X	X P	
Huron	X	X	X P
Ingham	X	X P	
Ionia	X P		
Iosco	X	X P	
Iron	X		
Isabella	X P		
Jackson	X	X P	
Kalkaska	X P		
Keweenaw	X	X	X
Lapeer	X	X	X P
Leelanau	X P		
Lenawee	X	X	X P
Livingston	X	X	X P
Luce	X	X	X P
Mackinac	X	X	X P
Macomb	X	X	X
Marquette	X	X P	
Menominee	X P		
Midland	X		
Missaukee	X P		
Monroe	X	X	X P
Montcalm	X P		
Montmorency	X	X	
Oakland	X	X	X P
Ogemaw	X		
Ontonagon	X	X P	
Oscoda	X	X P	
Otsego	X	X P	
Presque Isle	X	X	X P
Roscommon	X		
Saginaw	X	X P	
Sanilac	X	X	X P
Schoolcraft	X	X P	
Shiawassee	X	X P	
St. Clair	X	X	X
Tuscola	X	X	
Washtenaw	X	X	X P
Wayne	X	X	X
Minnesota			
Beltrami	X P	X P	X P
Carlton	X P		

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
Minnesota (Cont'd)			
Cass		X P	
Clearwater	X P	X P	
Cook	X	X	X P
Itasca	X P	X P	
Kittson	X	X	X
Koochiching	X	X	X P
Lake	X	X P	X P
Lake Of The Woods	X	X	X P
Marshall	X	X	X P
Pennington	X P	X	
Polk	X P	X P	
Red Lake		X P	
Roseau	X	X	X
St. Louis	X P	X P	X P
Montana			
Blaine	X P	X P	X P
Chouteau	X P	X P	
Daniels	X	X	X
Flathead	X P	X P	X P
Glacier	X	X	X P
Hill	X	X	X P
Lake		X P	
Lewis And Clark		X P	
Liberty	X	X	X P
Lincoln	X	X P	X P
Mccone	X P	X P	
Phillips	X P	X P	X P
Pondera	X P	X	
Richland	X P	X P	
Roosevelt	X	X	X P
Sanders	X P	X P	
Sheridan	X	X	X P
Teton	X P	X P	
Toole	X	X	X P
Valley	X P	X P	X P
New Hampshire			
Carroll	X P	X P	
Coos	X P	X	X P
Grafton	X P	X P	
New York			
Allegany	X P	X P	
Cattaraugus	X P	X	X P
Cayuga	X P	X	X P
Chautauqua	X	X	X P
Clinton	X	X	X P
Cortland		X P	
Erie	X	X	X
Essex	X	X P	X P
Franklin	X	X	X P
Genesee	X	X	X P

X – County is completely within specified zone.

X P - County is partially within specified zone.

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
New York (Cont'd)			
Hamilton	X P	X P	
Herkimer	X P	X P	
Jefferson	X	X	X P
Lewis	X	X	X P
Livingston	X	X	
Madison	X P	X P	
Monroe	X	X	X P
Niagara	X	X	X
Oneida	X P	X P	
Onondaga	X P	X	X P
Ontario	X	X	
Orleans	X	X	X
Oswego	X	X	X P
Schuyler		X	
Seneca	X P	X P	
St. Lawrence	X	X	X P
Steuben	X P	X P	
Tompkins		X P	
Warren	X P		
Washington	X P		
Wayne	X	X	X P
Wyoming	X	X	X P
Yates	X P	X P	
North Dakota			
Benson	X P	X P	
Bottineau	X	X	X
Burke	X	X	X
Cavalier	X	X	X
Divide	X	X	X
Grand Forks	X P	X P	
Mchenry	X P	X P	X P
Mckenzie	X P	X P	
Mountrail	X P	X P	X P
Nelson	X P	X P	
Pembina	X	X	X
Pierce	X P	X P	X P
Ramsey	X P	X P	X P
Renville	X	X	X P
Rolette	X	X	X
Towner	X	X	X P
Walsh	X	X	X P
Ward	X P	X P	X P
Williams	X P	X	X P
Ohio			
Ashland	X P	X P	
Ashtabula	X	X	X P
Crawford		X	
Cuyahoga	X	X	X P
Defiance	X	X P	
Erie	X	X	X
Fulton	X	X	
Geauga	X	X	X P
Hancock	X P	X P	
Hardin		X P	
Henry	X	X	
Holmes		X P	
Huron	X	X	X P
Lake	X	X	X P

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
Ohio (Cont'd)			
Lorain	X	X	X P
Lucas	X	X	X P
Mahoning		X P	
Marion		X P	
Medina	X P	X	
Morrow		X P	
Ottawa	X	X	X
Paulding	X P		
Portage	X P	X P	
Putnam	X P	X P	
Richland		X P	
Sandusky	X	X	X P
Seneca	X	X	X P
Stark		X P	
Summit	X P	X	
Trumbull	X P	X P	
Wayne		X P	
Williams	X	X P	
Wood	X	X	X P
Wyandot		X P	
Pennsylvania			
Crawford	X P	X	X P
Elk		X P	
Erie	X	X	X P
Forest		X P	
Mckean		X P	
Mercer		X P	
Potter		X P	
Venango		X P	
Warren	X P	X	
Vermont			
Addison	X	X P	
Caledonia	X	X	X P
Chittenden	X	X	X P
Essex	X	X	X P
Franklin	X	X	X
Grand Isle	X	X	X
Lamoille	X	X	X P
Orange	X P	X P	
Orleans	X	X	X
Rutland	X P		
Washington	X	X	X P
Windsor	X P	X P	
Washington			
Chelan	X P	X P	X P
Clallam	X	X	X P
Douglas	X P	X P	
Ferry	X P	X P	X P
Grant		X P	
Grays Harbor	X P	X P	
Island	X	X	X P
Jefferson	X	X	X P
King	X P	X P	
Kitsap	X P	X	
Lincoln		X P	
Mason	X P	X P	
Okanogan	X P	X	X P

	North of Line A East of Line C	Within 120 km (75 mi) of Canadian Border	Within 56.3 km (35 mi) of Canadian Border
Washington (Cont'd)			
Pend Oreille	X	X	X P
Pierce		X P	
San Juan	X	X	X
Skagit	X	X	X P
Snohomish	X	X P	X
Spokane	X P	X P	
Stevens	X P	X P	X P
Whatcom	X	X	X
Wisconsin			
Ashland	X P		
Bayfield	X P		
Douglas	X P		
Florence	X P		
Forest	X P		
Iron	X P		
Marinette	X P		
Vilas	X P		

Appendix II

STATE TABLE

Abbreviations for States, Jurisdictions, and Areas

AL	Alabama
AK	Alaska
AZ	Arizona
AR	Arkansas
CA	California
CO	Colorado
CT	Connecticut
DE	Delaware
DC	District of Columbia
FL	Florida
GA	Georgia
GM	Gulf of Mexico
HI	Hawaii
ID	Idaho
IL	Illinois
IN	Indiana
IA	Iowa
KS	Kansas
KY	Kentucky
LA	Louisiana
ME	Maine
MD	Maryland
MA	Massachusetts
MI	Michigan
MN	Minnesota
MS	Mississippi
MO	Missouri
MT	Montana
NE	Nebraska
NV	Nevada
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NY	New York
NC	North Carolina
ND	North Dakota
OH	Ohio
OK	Oklahoma
OR	Oregon
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VT	Vermont
VA	Virginia
WA	Washington
WV	West Virginia
WI	Wisconsin
WY	Wyoming
AS	American Samoa
FM	Federated States of Micronesia
GU	Guam
MH	Marshall Islands
MP	Northern Mariana Islands
PW	Palau
PR	Puerto Rico
UM	U.S. Territories: (Baker Island, Howland Island, Jarvis Island, Johston Atoll, Kingman Reef, Midway Island, Navassa Island, Palmyra Atoll and Wake Island)
VI	Virgin Islands
AA	Armed Forces-Americas (excluding Canada)
AE	Armed Forces-(Europe, Middle East, Africa, Canada)
AP	Armed Forces-Pacific

EXHIBIT 5B

EXHIBIT FIVE

Part B

FCC Form 601 Schedule D Instruction Sheet set which has been revised to include the Homeland Public Press and Information Widecast Service. The revisions/additions are outlined with a black outline, and a marker indicating the revision/addition.

FEDERAL COMMUNICATIONS COMMISSION

Approved by OMB
3060 - 0798
See 601 Main Form Instructions
for public burden estimate

Information and Instructions

Wireless Telecommunications Bureau Schedule for Station Locations and Antenna Structures

Form FCC 601, Schedule D, is a supplementary schedule for use with the FCC Application for Wireless Telecommunications Bureau Radio Service Authorization, FCC 601 Main Form. This schedule is used to supply technical information for fixed transmit station locations, including antenna structures and Mobile, Temporary Fixed, Itinerant, and 6.1 Meter Control Station Locations. It is also used by geographic licensees (all radio services, except microwave) to apply for a site-specific authorization to fulfill international coordination requirements, environmental assessment requirements or for reporting of cell transmitter stations (CTS) in the 218-219 MHz Service (when required by Part 95) or for reporting of base or fixed stations operating in excess of 1 kW ERP in the Lower 700 MHz WCS channels (when required by Part 27). File as many schedules as necessary to describe all station locations, including antenna structures, in your application. The FCC 601 Main Form must be filed in conjunction with this schedule. This schedule is used in conjunction with the following technical data schedules:

Note: When required, antenna structures must be registered using FCC Form 854. The use of this form to supply antenna structure information does not replace the requirement to register antenna structures on the FCC Form 854. For more information, see our web site at http://wireless.fcc.gov/antenna, call the Consumer & Governmental Affairs Bureau at 888-CALLFCC (888-225-5322) and select option #2, or e-mail questions to FCCDMD@fcc.gov.

FCC 601, Schedule F - Technical Data Schedule for the Cellular and Air-ground (Commercial Aviation) Radiotelephone Services (Part 22)

Note: Services that use Schedule F may only apply for fixed station locations.

FCC 601, Schedule G - Technical Data Schedule for the Maritime and Aviation Services (Parts 80 and 87)

FCC 601, Schedule H - Technical Data Schedule for the Private Land Mobile and Broadcast Auxiliary Land Mobile Radio Services (Parts 90 and 74)

Note: Part 90 Services that use Schedule H may only have a maximum of six fixed sites per call sign.

FCC 601, Schedule J - Technical Data Schedule for the Paging, Rural, Air-ground (General Aviation), and Offshore Radiotelephone Services (Part 22)

FCC 601, Schedule W - Technical Data Schedule for the Homeland Public Press and Information Widecast Service

It is recommended that Schedule D be completed prior to completing any required technical data schedules.

Note: Some services have specific requirements and/or restrictions for some of the items on this sch[illegible]e refer to the instructions of the appropriate technical data schedule for service specific response requirements a[illegible]ons.

Schedule D Instructions

This schedule must be completed when any station location is to be added, modified, or deleted. Use as many copies of Sc[illegible]dule D as necessary to provide information for all stations.

Adding a Fixed Station Location
If you are adding a new fixed station location, complete all required items for each fixed station location being added.

Note: If you are adding a 6.1 Meter (20 foot) Control Station in the 470-512 MHz band, 72-76 MHz band or adding a 6.1 Meter (20 foot) Control Station that requires greater than 5 watts output power/ERP for operations in regions North of Line 'A' or in Alaska East of Line 'C', complete all required items for the control station as if adding a fixed station location. Enter location description code as "FX" in Item 3.

Modifying a Fixed Station Location
If you are modifying a fixed station location, in addition to Items 1, 2, and 6 (provide the seven digit antenna structure registration number), complete only the items that have changed for each fixed station location. If the modification is to delete existing data, enter CLR (clear) in the appropriate field (manual filed forms only). If the modification involves technical data filed on one of accompanying FCC Technical Data Service Schedules F, G, H, or J, or involves the relocation of a fixed station, then Items 26 and 27 (if applicable) must also be completed.

Adding a Mobile, Temporary Fixed, Itinerant, or 6.1 Meter Control Station Location
If you are adding a new mobile station, temporary fixed station, itinerant station, or 6.1 meter control station, complete all required items for each station to be added.

> **Note:** If you are adding a 6.1 Meter (20 foot) Control Station in the 470-512 MHz band, 72-76 MHz band or adding a 6.1 Meter (20 foot) Control station that requires greater than 5 watts output power/ERP for operations in regions North of Line 'A' or in Alaska East of Line 'C', complete all required items for the control station as if adding a fixed station location. Enter location description code as "FX" in Item 3.

Modifying a Mobile, Temporary Fixed, Itinerant, or 6.1 Meter Control Station Location
If you are modifying a station, in addition to Items 1, and 2, complete only the items that have changed for each station. If the modification is to delete existing data, enter CLR (clear) in the appropriate field (manual filed forms only). If the modification involves technical data filed on one of accompanying FCC Technical Data Service Schedules G, H, or J, or involves the relocation of a control station, then Items 26 and 27 (if applicable) must also be completed.

Deleting a Station Location
If you are deleting a station location, only Items 1, 2, 7 and 8 are required, if applicable. If a station location is deleted, the frequency, emission, and all related technical data that is linked to that station location will automatically be deleted and will no longer be part of your authorization. Therefore, it is not necessary to complete the complementary technical data service schedule to delete frequency and emissions when a station location is deleted using this schedule. Station locations that are currently licensed under the call sign by the FCC will continue to be shown on the Authorization as is, unless a specific action is requested.

IMPORTANT ANTENNA STRUCTURE REGISTRATION INFORMATION: The Commission will evaluate your application for a fixed location based on the Antenna Structure Registration number you provide (if required). If you mistype your Antenna Structure Registration Number, or provide location data (latitude, longitude, elevation, and structure heights) that is inconsistent with the data found in the Commission's Antenna Structure Registration database, your application will be dismissed.

Inconsistent data is defined as follows:

1. Latitude and Longitude data provided on Schedule D differs from the data in the Antenna Structure Registration database by more than 1 second; or
2. The height or elevation reported on Schedule D is more than 0.5 meters (1.5. feet) greater than the data in the Antenna Structure Registration Database; or elevation is more than 3 meters (9.8 feet) less than the elevation listed in the Antenna Structure Registration Database.

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 the Search - Licenses. Alternatively, you may call 1-888-CALLFCC (888-225-5322) for assistance.

Item 1 This item must be completed. It indicates the action the applicant wants the FCC to take on the specified location. Enter 'A' for Add, 'M' for Modify, or 'D' for Delete.

Item 2 This item must be completed. If the station location has been previously licensed under this call sign by the FCC, enter its FCC-assigned location number (see Important Information Regarding Location, Antenna, and Control Point Numbers. For a new station location, assign a temporary code to represent the station location. The assigned code should begin with 'L' to indicate it is a location and end with a number to uniquely identify it (*e.g.*, L1, L2, L3, etc.). The FCC will assign an official number to the new station, which will appear on the Authorization.

Item 3 Enter the appropriate location description for the specified location. Valid location description codes are listed below:

FX - Fixed
MO - Mobile
IT - Itinerant
TF - Temporary Fixed
6.1 - 6.1 Meter Control Station

Item 4 Does not apply if Item 3 equals FX. For Mobile, Temporary Fixed, Itinerant, and 6.1 Meter Control Stations, enter the appropriate area of operation code using the table that follows. Additional Schedule D fields must be completed according to the area of operation code chosen. Refer to the table to determine which additional fields are required on Schedule D for the chosen area of operation code. Only one area of operation code may be selected for each location.

Note: If area of operation will cover multiple counties/boroughs/parishes, use area of operation code 'O' and in Item 24, specify all applicable counties/boroughs/parishes in and the state(s) the counties/boroughs/parishes are located in.

Area of Operation Codes and Required Data Values

Code Description	Additional Schedule D Data Elements Required for each Area of Operation Code	Item Numbers
A KMRA* around a Fixed location (option not available to Maritime or Aviation Services)	Fixed Location Number, Temporary Fixed or Mobile Radius	17, 18
P KMRA* around a Center point	Latitude, Longitude, City**, State, County/Borough/Parish**, Temporary Fixed or Mobile Radius	7, 8, 10, 11, 12, 18
R Rectangular Area of Operation	Latitude, Longitude, Maximum Latitude, Maximum Longitude	7, 8, 21, 22
N Nationwide including Hawaii Alaska & US Territories		
U Continental US		
C County/Borough/Parish Wide Area of Operation	State, County/Borough/Parish	11, 12
S Statewide Area of Operation	State	11
O Other	Description (should include State)	24
X Land Mobile Control Station Meeting the 6.1 Meter Rule	State, County/Borough/Parish	11, 12

*Kilometers Radius
** Complete as applicable - refer to instructions for applicability.

Item 5 This item is optional. Enter a location name that describes the location (up to 20 characters maximum).

Item 6 This item is required for fixed locations if the action requested in Item 1 is 'A' or 'M'. If antenna structure registration is required, enter the seven digit FCC Antenna Structure Registration Number (shown on the structure's registration, FCC Form 854R). Otherwise, enter N/A to indicate that FAA notification is not required.

Note: Effective 7/1/96 the Commission requires owners to register certain structures. When required, antenna structures must be registered using FCC Form 854. The use of this FCC Form 601 to supply antenna structure information does not replace the requirement to register antenna structures on the FCC Form 854. For more information, see our web site at http://wireless.fcc.gov/antenna/, call the Consumer and Governmental Affairs Bureau at 888-CALLFCC (888-225-5322) and select option #2, or e-mail questions to FCCDMD@fcc.gov.

Note: If, in accordance with 47 CFR § 17.14, Antenna Structure Registration is not required because the structure is shielded by existing structures or because it is fixed by its functional purpose, submit supporting documentation as an attachment to your application.

Items 7 and 8 For fixed locations, if you entered 'N/A'; in Item 6, you must enter the geographic coordinates (latitude and longitude) of the location. If you provided an Antenna Structure Registration Number in Item 6, then these items are optional (see Important Antenna Structure Registration Information on page 2 of these instructions). For all other locations enter the geographic coordinates as specified in the table in the instructions for Item 4:

If 'P' was entered in Item 4, enter the geographic coordinates of the center point;
If 'R' was entered in Item 4, enter the geographic coordinates of the southeast corner of the rectangular area or box. (See also Items 21 and 22 for the Northwest corner)

Enter the latitude using the format *DD-MM-SS*, where the degrees (*DD*) term can have a value in the range of 0 to 71, minutes (*MM*) can range from 0 to 59, and seconds (*SS*) can range from 0 to 59.9. If desired, seconds may be rounded to the nearest tenth of a second (in which case, use the format DD-MM-SS.S). In the right corner, specify the direction as either N for North or S for South.

Enter the longitude using the format *DDD-MM-SS*, where the degrees (*DDD*) term can have a value in the range of 64 to 180, minutes (*MM*) can range from 0 to 59, and seconds (*SS*) can range from 0 to 59.9. If desired, seconds may be rounded to the nearest tenth of a second (in which case, use the format DDD-MM-SS.S). In the right corner, specify the direction as either E for East or W for West.

All coordinates must be referenced to the North American Datum of 1983 (NAD83). This information can be determined in many ways, including a GPS receiver, a 7.5-minute topographical quadrangle map of the area, or you may consult the city or county/borough/parish surveyor in your area. Topographical maps may be purchased from the U.S. Geological Survey, Washington, DC 20242 or from its office in Denver, Colorado 80225.

Note: Location coordinates (latitude and longitude) for sites in the Continental United States, Puerto Rico, the U.S. Virgin Islands, Alaska, Hawaii, American Samoa, and Guam must be referenced to the North American Datum of 1983 (NAD83). Coordinates for sites in the Northern Mariana Islands, Wake Island, and Midway Island should be referenced to the applicable local datums. If the source from which you obtain the coordinates still utilizes an older datum (*i.e.*, NAD27, PRD40) you must convert to NAD83. Conversion routines are available through the internet at http://wireless.fcc.gov/uls/utilities/nadcon.html.

Items 9-12

Fixed Locations

If you answered 'N/A' in Item 6 for a Fixed Location, you must complete Items 9 through 12. If you provided an Antenna Registration Number in Item 6 for a Fixed Location, you must complete Item 12, County/Borough/Parish name.

Item 9 This item must be completed for the Fixed Location. Enter a complete description of the location such as street number and address or other geographic description such as direction and distance from a town or known landmark (i.e., RT 81, 5 km South of Fairview). P. O. Box numbers or geographical coordinates are not acceptable for this item.

Item 10 This item must be completed with the City in which the station is located.

Item 11 This item must be completed with the State code in which the station is located. Refer to FCC Form 601 Main Form Instructions, Appendix II, for a list of valid state, jurisdiction and area codes.

Item 12 This item must be completed with the County/Borough/Parish in which the station is located unless any of the following pertain to the Fixed Location:

a) The City entered in Item 10 is an Independent City that is not affiliated with a County/Borough/Parish (i.e., Baltimore, MD)
b) The State code entered in Item 11 does not have Counties/Boroughs/Parishes (i.e., Puerto Rico, Virgin Islands)
c) The State code entered in Item 11 is GM, Gulf of Mexico

NOTE: If the nearest City, County/Borough/Parish and State are located in a bordering County/Borough/Parish and/or State, enter a complete description of the location in Item 9 as shown in the example. Complete Item 10 if a City, Town or Village within the station's County/Borough/Parish is nearby, and complete Items 11 and 12 with the County/Borough/Parish and State in which the coordinates are actually located.

Example:
9) (Street) Summit Mtn near Palo Verde, Imperial County, CA
10) (City) Palo Verde
11) (State) AZ
12) (County/Borough/Parish) La Paz

Area Locations

For area locations, respond to items 9-12 as specified in the table in the instructions for Item 4:

Item 9 This item is not applicable for area locations and should be left blank.

Item 10 If 'P' was entered in Item 4, enter the city or town name of the location in this item. This item is required only if Item 12 is blank.

Item 11 If 'P', 'C', 'S', or 'X' was entered in Item 4, enter the State of the location in this item (if 'X' was entered in Item 4, enter the State of the primary control station). Refer to FCC 601 Main Form Instructions, Appendix II, for a list of valid state, jurisdiction, and area codes.

Item 12 If 'C', 'P' or 'X' was entered in Item 4, enter the County/Borough/Parish of the location in this item.

This item is always required for area of operation code 'C'.

This item is required for area of operation code 'P' except when: (a) the City entered in Item 10 is an Independent City that is not affiliated with a County/Borough/Parish (*i.e.*, Baltimore, MD), (b) the State entered in Item 11 does not have counties/boroughs/parishes (*i.e.*, Puerto Rico, Virgin Islands), or (c) the State entered in Item 11 is 'GM' (Gulf of Mexico).

This item is required for area of operation code 'X' for Radio Service Codes IK or YK utilizing frequencies below 470 MHz except when: (a) the City entered in Item 10 is an Independent City that is not affiliated with a County/Borough/Parish (i.e., Baltimore, MD), (b) the State entered in Item 11 does not have counties/boroughs/parishes (i.e., Puerto Rico, Virgin Islands), or (c) the State entered in Item 11 is 'GM' (Gulf of Mexico).

Note: Items 13-16 only apply to Fixed Locations. If you answered 'N/A' in Item 6 for a Fixed Location, you must complete Items 13-16. If

you provided an Antenna Registration Number in Item 6 for a Fixed Location, Items 13-16 are optional. (See Important Antenna Structure Registration Information on Page 2 of Schedule D Instructions.)

Item 13 Enter the elevation above mean sea level (AMSL) of the ground at the antenna location. Enter this item in meters, rounded to the nearest tenth. Refer to letter 'a' in the antenna structure figure examples on page 6 of these instructions. This information can be determined in many ways, including a GPS receiver, 7.5 minute topographical quadrangle map of the area, or you may consult the city or county/borough/parish surveyor in your area. Topographical maps may be purchased from the U.S. Geological Survey, Washington, DC 20242 or from its office in Denver, Colorado 80225.

Item 14 Enter the height above ground level to the highest point of the **supporting structure only**. Enter this item in meters, rounded to the nearest tenth. For example, if the antenna structure consists of a building/tower combination, include any elevator shaft, flag pole, or penthouse in the **overall** support structure height, but not the antenna, tower, pole, or mast. If the antenna structure is a tower only, include the height of the tower but not the antenna. Refer to letter 'b' in the antenna structure figure examples on page 6 of these Instructions.

Item 15 Enter the overall height above ground level of the entire antenna structure to the highest point, including any appurtenances. Enter this item in meters, rounded to the nearest tenth. You must include antennas, dishes, obstruction lighting, etc. Refer to letter 'c' in the antenna structure figure examples on page 6 of these instructions.

Item 16 Enter the code for the type of structure on which the antenna is or will be mounted from the following valid structure types:

Code	Definition
B	Building with a side mounted antenna
BANT	Building with Antenna on Top
BMAST	Building with Mast/Antenna on Top
BPIPE	Building with Pipe/Antenna on Top
BPOLE	Building with Pole/Antenna on Top
BRIDG	Bridge
BTWR	Building with Tower/Antenna on Top
MAST	Self-Support Structure
NNTANN*	Antenna Tower Array
NTOWER**	Multiple Structures
PIPE	Any Type of Pipe
POLE	Any Type of Pole, used only to mount an antenna
RIG	Oil or Other Type of Rig
SIGN	Any Type of Sign or Billboard
SILO	Any Type of Silo
STACK	Smoke Stack
TANK	Any Type of Tank (Water, Gas, etc.)
TOWER	A Free Standing **or** Guyed Structure Used for Communications Purposes
TREE	When Used as a Support for an Antenna
UPOLE	Utility Pole/Tower Used to Provide Service (Electric, Telephone, etc.)

* Valid Tower Arrays. Code definition: The first NN indicates the number of towers in an array. The second NN is optional and indicates the position of that tower in the array (*e.g.*, 3TA2 would identify the second tower in a three-tower array).

** Valid Multiple Structures. Code Definition: The N indicates the number of structures where multiple antenna structures are present in a multiple structure (Ex.: 2TOWER, 3TANK, 6BANT, 7BMAST).

Item 17 If you entered Area of Operation code 'A' in Item 4, enter the location number of the corresponding fixed location.

Item 18 For Area of Operation codes 'A' or 'P', enter the radius of the area of operation. Enter in kilometers, rounded to the nearest tenth. *Refer to CFR 47 for limitations.*

Item 19 Applicable to Aviation Services (Part 87) only. Enter the three or four character code assigned to the airport (if applicable).

Item 20 This item only applies when Item 3 equals FX and Item 1 is 'A' or 'M'. If Commission's rules recognize Primary and Secondary protection in conjunction with other fixed site facilities in the service, enter 'P' if you wish primary protection for the site or 'S' if you wish no protection for the site. If Commission's rules do not recognize Primary and Secondary protection in conjunction with other fixed site facilities in the service, Item 20 can be left blank. Refer to the applicable Commission's rules for your service for more information on Primary and Secondary protection.

Items 21 and 22 These items must be completed for operations that are defined by a rectangular area or box coordinates (Area of Operation code in Item 4 = 'R'). *Enter geographic coordinates (latitude and longitude) of the northwest corner of the rectangular area of* ox in Items 21 and 22. See Notes in Items 7 and 8 of these instructions for important information regarding coordinates.

Item 23 Respond to this Item only if Item 3 is MO, TF, IT or 6.1. Does not apply when Item 3 equals FX. This item helps the FCC to determine if it will initiate coordination procedures with the Government of Canada. If any part of the mobile location is in an area that requires frequency coordination with Canada and you intend to operate in this area, enter 'Y'. In the event the applicant needs to submit additional information regarding coordination of a channel assignment with the Government of Canada, this should be attached as an Exhibit, which references Schedule D Item 23. If 'N' is entered, the FCC will not initiate coordination procedures with the Government of Canada and your area of operation will be excluded from these border areas. Appendix I in FCC Form 601 Main Form Instructions contains a list of counties/boroughs, by state, having areas within the various coordination zones and a list of which coordination zones apply for various frequency bands. (If the county/borough has an 'X' in the block then enter 'Y'. If the county/borough doesn't have an 'X' then enter 'N'. If the county/borough has an 'X' and a 'P', this indicates part of the county/borough requires frequency coordination with Canada, then enter 'Y' or 'N' depending on whether or not you intend on operating in the border area.)

Item 24 If the response to Item 4 was 'O', enter a description of the area of operation. P.O. Box numbers or geographic coordinates are not acceptable for Item 24. The use of 'Other' should only be used if the area of operation cannot be described by using codes A, P, R, C, S, N, or U. Area of operation provided as 'Other' may delay processing of the application.

Item 25 This item is applicable only if you are applying for an area of operation in services other than Land Mobile (public or private) or Broadcast Auxiliary Land Mobile Radio. Enter the number of units for each type listed: Hand Held, Mobile, Temporary Fixed, Aircraft, and Itinerant. For paging systems (Part 22), provide the number of subscribers (in mobiles) along with the number of temporary fixed transmitters.

Item 26 This item is required for compliance with the National Environmental Policy Act of 1969 (NEPA), as amended, 42 U.S.C. 4321-4335. See also Part 1, Subpart I of the FCC rules (47 CFR 1.1301 - 1.1319). This item must be answered, either 'Y' or 'N'.

Enter 'Y' if an FCC grant of this application will have a significant environmental effect. Section 1.1307 of the FCC rules lists categories of environmental effects for which applicants must file an environment assessment. Other wise enter 'N'. Examples of facilities that may have a significant effect on the environment include:

An antenna structure located in a residential area (as defined by applicable zoning laws) that will utilize high intensity aviation obstruction lighting

A facility located in an officially designated wilderness area, wildlife preserve, or floodplain

A facility that affects a site significant in American history

A facility whose construction involves extensive changes in surface features

Facilities, operations, or transmitters that would cause human exposure to levels of radio frequency radiation in excess of the limits as detailed in § 1.1310 and 2.109 of the Commission's rules

Item 27 Applicants for stations located in one of the Quiet Zones listed below must notify the proper authority and indicate the date (mm/dd/yy) such notification was sent in Item 27.

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 N 39 degrees 15' 0.4" on the north, W 78 degrees 29' 59.0" on the east, N 37 degrees 30' 0.4" on the south, and W 80 degrees 29' 59.2" 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, HC 3 Box 53995, Arecibo, Puerto Rico 00612.

Antenna Structure Figure Examples:

EXHIBIT 5C

EXHIBIT FIVE

Part C

A Prototype Instruction Sheet for the Prototype FCC form 601 Schedule W (Technical Data Schedule for the Homeland Public Press and Information Widecast Service)

FEDERAL COMMUNICATIONS COMMISSION

Information and Instructions

Approved by OMB
3060 - 0798
See 601 Main Form Instructions
for public burden estimate

Technical Data Schedule for the Homeland Public Press and Information Widecast Service (Part 96)

FCC Form 601, Schedule W, is a supplementary schedule for use with the FCC Application for Wireless Telecommunications Bureau Radio Service Authorization, FCC 601 Main Form. This schedule is used to apply for an authorization to operate a radio station in the Homeland Public Press and Information Widecast Service, as defined in 47 CFR, Part 96. It is also used to amend a pending application or modify an existing license in these services. The FCC 601 Main Form must be filed in conjunction with this schedule.

You must file technical information for each fixed location, including the antenna structures, temporary fixed station location, or itinerant station location using FCC 601, Schedule D, Schedule for Station Locations and Antenna Structures. It is recommended that you complete Schedule D prior to completing Schedule W.

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 888-CALLFCC (888-225-5322) and select option #2 for assistance.

Schedule W Instructions

This schedule must be completed in order to apply for a new, renewal, modification, or deletion of an existing station in the Homeland Public Press and Information Widecast Service. All numbered items will be explained where necessary.

Applicant Information

Item 1 Enter Applicant's CORES/FRN Registration Number. The FRN is a unique entity identifier for everyone doing business with the Commission. The FRN can be obtained electronically through the FCC webpage at http://wireless.fcc.gov/uls/ (click on CORES/CALL SIGN REGISTRATION) or by manually submitting FCC Form 160. FCC Form 160 is available for downloading from http://www.fcc.gov/formpage.html, by calling the FCC's Forms Distribution Center at (800) 418-3676, or from Right Fax by dialing (202) 418-0177. **Note:** Licensees should then associate their WTB call sign(s) electronically at http://wireless.fcc.gov/uls/ (click on CORES/CALL SIGN REGISTRATION) or by manually submitting FCC Form 606. FCC Form 606 can also be obtained from any of the aforementioned locales as FCC Form 160.

Item 2 If currently licensed, enter Station's Callsign. Enter "New" for a new application.

Items 3 through 9 are applicant's contact information.

Item 10 Technical Qualifications. All applicants are required to demonstrate the capability to operate and maintain their station. Possession of an FCC Commercial Operators License, or an Advanced or Extra Class Amateur Radio License is considered evidence of this capability.

Items 10A and 10B Enter Applicant's FCC License Information.

Equipment Technical Information

All Homeland Public Press and Information Widecast Service stations are required to comply with FCC technical standards for frequency stability, emission purity, and output reliability. Use of Type-Accepted or FCC Certified equipment in the radio-frequency generation and amplification path assures compliance with FCC technical standards.

Transmitting Equipment Technical Information is routinely reviewed by our engineering staff. Irregularities or questions will result in requests for clarification which will result in impeding a timely decision regarding this application. It may be difficult to obtain information on some legacy equipment. Applicants are permitted to submit exhibits and/or written statements which will aid in determining the suitability of equipment for the specified function.

The Equipment Technical Information table will provide the reviewing engineer a readily discernable blueprint of the proposed station. Should the applicant so desire, space is provided for a system block diagram of the proposed station. Should more space be needed, attach an additional sheet. Label all equipment in the diagram and indicate the signal flow path.

'tem 11 Frequency Generation Mode. Indicate whether the station frequency source is to be a directly shifted master RF Oscillator, or a Frequency-Shifted Audio Oscillator will be fed into a Single-Sideband Generator.

Item 11A Enter the Manufacturer's name and Model Number of the equipment.

Item 11B Enter the Type-Acceptance number of the FSK exciter. Enter N/A if device is an AFSK Oscillator

Item 11C Enter the output power of the FSK Exciter. Enter N/A if the device is an AFSK Oscillator

Item 12 Buffer Amplifier or SSB Exciter.

Item 12A Enter the Manufacturer's name and Model number of the Buffer Amplifier or SSB Exciter.

Item 12B Enter the Type-Acceptance or FCC Certification number of the Buffer Amplifier or SSB Exciter.

Item 12C Enter the Manufacturer's specified Maximum Power Output.

Item 13 External Power Amplifier

Item 13A Enter the Manufacturer's name and Model number of the External Power Amplifier.

Item 13B Enter the Type-Acceptance or FCC Certification number of the External Power Amplifier.

Item 13C Enter the Manufacturers Rated Power Output of the External Power Amplifier

Item 14 Output Power Indicator

Item 14A Enter the Manufacturer's name and Model number of the Output Power Indicator.

Item 14B Enter the maximum full-scale reading of the Output Power Indicator.

.em 15 Frequency Monitor or Counter

Item 15A Enter the Manufacturer's name and Model Number of the Frequency Counter or Monitor.

Item 16 Transmission Monitor Arrangement.

Item 16A Enter the Manufacturer's name and Model number of the Monitor Receiver.

Item 16B Enter the Manufacturer's name and Model number of the Monitoring Demodulator
Note: If monitoring using a personal computer equipped with a soundcard, Enter "P/C Sound".

Item 16C Check the appropriate box to indicate if the monitoring is being done with a video display (P/C, High-end Demodulator) A teleprinter, or both.

Control Points

This section must be completed for a primary control point. 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 17 and 18, complete only the items that have changed for each control point. If you are deleting a control point, only Items 17 and 18 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 17 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 18 Enter the 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 as 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 and in the ULS database.

Item 19 Enter the street address, city or town, county/borough/parish, and state of the control point. Refer to FCC Main Form Instructions, Appendix II, for a list of valid state, jurisdiction, and area codes.

Item 20 Enter the telephone number (including area code) where a person responsible for operation of the control point could be reached.

Antenna Information

This section is for fixed stations (Schedule D Item 3 = FX) and must be completed only when antenna information is to be added, modified, or deleted. If you are adding a new antenna, complete Items 21-28 for each antenna to be added. If you are modifying an existing antenna, in addition to Items 21, 22, and 23, complete only the items that have changed for the antenna. If you are deleting an antenna, only Items 21, 22, and 23 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. All stations proposing to operate on frequencies below 27.5 MHz MUST complete Items 21-28 if the filing is for a new Authorization. Failure to do so will result in the return of your application without further action.

Homeland Public Press and Information Widecast Service antenna systems will often consist of a ground mounted fixed height vertical configuration.

Use of a fixed antenna height while applying a wide range of frequencies results in radiation characteristics which vary widely as the applied frequency changes. Antenna modeling efforts under these conditions are beneficial in areas such as concerns with RF Exposure compliance, and will allow the station operator a better understanding of how his station will perform.

Antenna performance optimization and RF Exposure considerations could conceivably result in requiring the antenna to be mounted on a vertical support mast or on a metal roof. Situations of this nature also will require modeling of the antenna at the operating frequencies to assess performance factors which could result in instances wherein the antenna would be shown to exhibit gain above unity.

Attach appropriate charts and tables for each antenna modeling run as exhibits, with the modeling results tabulated at Widecast Channel Frequencies, for use in the Frequency Information Schedule, item 34. The tables should display each Widecast Channel Frequency and the gain determined at that frequency as a result of the modeling.

Complete the Antenna Information Table as follows:

Item 21 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 22 For each antenna, 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 23 If the antenna has been previously licensed under this call sign by the FCC, 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 and A3). 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 and in the ULS database.

Note: Location number (Item 22) and antenna number (Item 23) are used to associate information in the Antenna Information Section with information in the Frequency Information Section. To do this, enter the necessary technical information into the Antenna Information Section using the appropriate location number and antenna number. Then, enter the necessary technical information in Frequency Information Section for that antenna, using the same location number/antenna number pair. Each antenna specified in the Frequency Information Section must have corresponding data in the Antenna Information Section.

Item 24 Enter the Height Above Mean Sea-Level of the location where the antenna is installed.

Item 25 Enter the overall height above ground of the highest part of the antenna (antenna mounting structure plus the height to the tip of the antenna). Enter this item in meters, rounded to the nearest tenth.

Item 26 Enter the calculated feed-line loss for the type of feed line and the length of the run from the transmitter to the feedpoint into the antenna/antenna coupler arrangement. The losses are usually negligible in most installations, but there may be some situations wherein exceedingly long runs will result in some loss.

Item 27 Homeland Public Press and Information Widecast Service antenna systems are specified to be omni-directional and thus are vertically polarized. Rare instances may result in a waiver of the rules allowing for an antenna arrangement which may not be vertically polarized. Enter "V" for vertically polarized antennas, and enter "Waivered" for antennas which have received a polarization waiver.

Item 28 Enter the gain characteristics for the designated antenna. If the antenna is to be used on a single frequency or narrow range of frequencies, enter the gain in dBd. If the antenna is to be used over a wide range of frequencies, enter the word "Chart" and attach as an exhibit the appropriate modeling chart and calculated gain figures for that antenna. **NOTE: MAXIMUM ALLOWABLE GAIN FOR ANY ANTENNA IS 3 dBd.**

Frequency Information

The Homeland Public Press and Information Widecast Service has been allocated 24 channels in the frequency range from 4.5674 Mhz to 18.6060 MHz. *Depending on a station's transmitting system and antenna arrangements, some channels may not be usable to that station.*

The Frequency Information Schedule allows the station to give a reasonable representation to the Commission as to its operating frequency range, efficiencies, and emission capabilities.

This section must be completed when a station desires to add, modify, or delete one or more frequencies from the station's channel authorizations.

If you are adding a new frequency channel, complete all items for each frequency channel to be added. If you are modifying a frequency channel, (i.e., changing from one operating frequency to a different operating frequency), enter the existing and new frequencies in the appropriate boxes in Item 31. If you are modifying attributes of an existing frequency, in addition to Items 28 through 32, complete only the items that have changed for the frequency. In order to modify an Emission Designator (Item 37), complete Items 28-32, specifying the appropriate location number, antenna number, frequency, and station class code, and list all active emission designators now associated with the specified location, antenna, frequency, and station class (complete as many rows as necessary, listing emission designators in Item 37). If you are deleting a frequency, only Items 29 through 31 are required.

Item 29 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 30 For each antenna, enter its corresponding location number, as entered in Item 20 of the Antenna Information Section of this Schedule.

Item 31 *For each antenna, enter its corresponding antenna number, as entered in Item 21 of the Antenna Information Section of this Schedule.*

Note: Location number (Item 30) and antenna number (Item 31) are used to associate information in the Frequency Information Section with information in the Antenna Information Section. Each antenna specified in the Frequency Information Section must have corresponding data in the Antenna Information Section.

Item 32 Informational - indicates the channel center frequency for each channel assigned to the Homeland Public Press and Information Widecast Service.

Item 33 Output Power - Transmitter Output Power. Some stations may not be capable of transmitting fully authorized effective radiated output power. Enter either the maximum output power your transmitter is capable of producing at the designated frequency, or the transmitter output power calculated to be necessary to produce 4000 watts effective radiated power after calculating in feedline loss and antenna gain (or loss). - **NOTE: TRANSMITTER OUTPUT POWER CANNOT EXCEED 2000 WATTS.**

Item 34 Enter calculated feedline loss for the antenna which will be used for the channel frequency.

Item 35 Enter the antenna gain in dBd from the modeling chart for the antenna for the channel frequency.

Item 36 Enter the Effective Radiated Power (ERP). The ERP is the transmitter output power times the net gain (or loss) of the antenna system. This is the gain of the antenna minus the transmission losses, which include losses attributable to the transmission line and its components. **ERP CANNOT EXCEED 4000 WATTS ON ANY CHANNEL.**

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

Item 37 Emission designator(s). Place an "X" in each emission type the station plans to transmit. 2K8F1B/D and 2K8J2B/D indicate RTTY, and AMTOR/SITOR (FEC). 50H0J2B/50H0J2D indicates PSK-31.

EXHIBIT 5D

EXHIBIT FIVE

Part D

A Prototype for FCC Form 601 Schedule W (Technical Data Schedule for the Homeland Public Press and Information Widecast Service)

FCC 601
Schedule W

Technical Data Schedule for the Homeland Public Press and Information Widecast Radio Service (Part 96)

Approved by OMB
3060 - 0798
See 601 Main Form instructions
for public burden estimate

Applicant Information

1) FCC Registration Number (FRN)		2) Station Callsign:	Station Class Code: **FX**	Radio Service Code: **HW**	
2) First Name:	MI:	Last Name:			Suffix
3) Street Address		4) City		5) State	6) Zip:
7) Telephone Number:	8) Fax Number:		9) E-mail Address:		
10) Technical Eligibility Requirements.					
10A) Commercial License(s):	☐ General Radio Telephone ☐ Second Class Radiotelegraph ☐ First Class Radiotelegraph		Number:		Endorsements:
10B) Amateur Radio:	Class: ☐ Advanced ☐ Extra	Callsign:	Expiration Date:		

Equipment Technical Information

FUNCTION:	EQUIPMENT MANUFACTURER and MODEL:		TYPE ACCEPTANCE or FCC CERTIFICATION NUMBER:	OUTPUT PWR:
11) FREQUENCY GENERATION MODE: ☐ AFSK Tone Generator (J2B, J2D) ☐ FSK Oscillator/Exciter (F1B, F1D)	11A)		11B) (FSK ONLY)	11C) (FSK ONLY)
12) BUFFER AMP OR SSB EXCITER	12A)		12B)	12C)
13) EXTERNAL POWER AMPLIFIER	13A)		13B)	13C)
14) OUTPUT POWER INDICATOR	14A)		14B) (FULL SCALE READING)	
15) FREQUENCY MONITOR / COUNTER	15A)			
16) TRANSMISSION MONITOR ARRANGEMENT	16A) RECEIVER:	16B) DEMODULATOR:	16C) DISPLAY: ☐ VIDEO ☐ PRINTER ☐ BOTH	

SYSTEM BLOCK DIAGRAM

FCC 601
Schedule W

Technical Data Schedule for the Homeland Public Press and Information Widecast Radio Service (Part 96)

Approved by OMB
3060 - 0798
See 601 Main Form instructions
for public burden estimate

Control Point(s) (Other than at the transmitter) (Attach additional sheets if required)

17) Action A/M/D	18) Control Point Number	19) Location Street Address, City or Town, County/Borough/Parish, State	20) Telephone Number

Antenna Information - All Antennas in the Public Press and Information Widecast Service are Omni-Directional

21) Action ( ) A/M/D	22) Location Number (Schd. D Item 2)	23) Antenna Number	24) Elevation AMSL. (meters)	25) Height AGL. (meters)	26) Feedline Loss (db)	27) Polarization	28) GAIN (dBd) (MAX 3 dBd)

FCC 601
Schedule W

Technical Data Schedule for the Homeland Public Press and Information Widecast Radio Service (Part 96)

Approved by OMB
3060 - 0798
See 601 Main Form instructions
for public burden estimate

Frequency Information

Channel #	29) Action A/M/D	30) Location Number	31) Antenna Number	32) Frequency (MHz)	33) XMTR Output (2 kw Max)	34) Feedline Loss (db)	35) Ant. Gain (3dBd Max)	36) ERP (4 kw max)	37) Emission Designators	
									2K8F1B/D 2K8J2B/D	50H0J2B 50H0J2D
Channel 1				4.5674 MHz						
Channel 2				4.5734 MHz						
Channel 3				6.8880 MHz						
Channel 4				6.8940 MHz						
Channel 5				6.9000 MHz						
Channel 6				6.9940 MHz						
Channel 7				7.7770 MHz						
Channel 8				7.7830 MHz						
Channel 9				10.3370 MHz						
Channel 10				10.3724 MHz						
Channel 11				13.1174 MHz						
Channel 12				13.1234 MHz						
Channel 13				13.1294 MHz						
Channel 14				13.8724 MHz						
Channel 15				13.8784 MHz						
Channel 16				13.8884 MHz						
Channel 17				13.9520 MHz						
Channel 18				14.5950 MHz						
Channel 19				14.6010 MHz						
Channel 20				14.6070 MHz						
Channel 21				14.6130 MHz						
Channel 22				18.5940 MHz						
Channel 23				18.6000 MHz						
Channel 24				18.6060 MHz						