

Approved by OMB  
3060-0678

Date & Time Filed: May 18 2010 3:00:57:140PM  
File Number: SES-MOD-INTR2010-01580

<b>FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM</b>	<b>FCC Use Only</b>
<b>FCC 312 MAIN FORM FOR OFFICIAL USE ONLY</b>	

**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:  
Modification--T-11N

1-8. Legal Name of Applicant	
Name: VSAT Systems, LLC	Phone Number: 330-785-2100 x104
DBA Name:	Fax Number: 419-818-1978
Street: 1520 South Arlington Street	E-Mail: Mike.Kister@satventuresmanagement.com
City: Akron	State: OH
Country: USA	Zipcode: 44306 -
Attention: Michael Kister	

9-16. Name of Contact Representative	
Name: Donna Balaguer	Phone Number: 202-626-7719
Company: Fish & Richardson, PC	Fax Number: 202-783-2331
Street: 1425 K Street NW	E-Mail: balaguer@fr.com
11th Floor	
City: Washington	State: DC
Country: USA	Zipcode: 20005-
Attention:	Relationship: Legal Counsel

**CLASSIFICATION OF FILING**

<p>17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.</p> <p><input checked="" type="radio"/> a1. Earth Station</p> <p><input type="radio"/> a2. Space Station</p>	<p>(N/A) b1. Application for License of New Station</p> <p>(N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p><input type="radio"/> b3. Amendment to a Pending Application</p> <p><input checked="" type="radio"/> b4. Modification of License or Registration</p> <p>b5. Assignment of License or Registration</p> <p>b6. Transfer of Control of License or Registration</p> <p><input type="radio"/> b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p>(N/A) b10. Other (Please specify)</p> <p>(N/A) b11. Application for Earth Station to Access a Non-U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.</p>
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<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159.</p> <p>If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other(please explain):</p>
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<p>17d.</p> <p>Fee Classification CGV - Fixed Satellite VSAT System</p>
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<p>18. If this filing is in reference to an existing station, enter:</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p>
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(a) Call sign of station:  
E090086

(a) Date pending application was filed:

(b) File number:

SESLIC2009051100584

#### TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:

- a. Fixed Satellite  
 b. Mobile Satellite  
 c. Radiodetermination Satellite  
 d. Earth Exploration Satellite  
 e. Direct to Home Fixed Satellite  
 f. Digital Audio Radio Service  
 g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier  Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites  
 Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- Connected to a Public Switched Network  Not connected to a Public Switched Network  N/A

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz)  b. Ku-Band (12/14 GHz)  
 c. Other (Please specify upper and lower frequencies in MHz.)

Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)

#### TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station  
 b. Temporary-Fixed Earth Station  
 c. 12/14 GHz VSAT Network  
 d. Mobile Earth Station  
 e. Geostationary Space Station  
 f. Non-Geostationary Space Station  
 g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive  Transmit-Only  Receive-Only  N/A

"For Space Station applications, select N/A."

#### PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

- a -- authorization to add new emission designator and related service  
 b -- authorization to change emission designator and related service  
 c -- authorization to increase EIRP and EIRP density  
 d -- authorization to replace antenna  
 e -- authorization to add antenna  
 f -- authorization to relocate fixed station  
 g -- authorization to change frequency(ies)  
 h -- authorization to add frequency  
 i -- authorization to add Points of Communication (satellites & countries)  
 j -- authorization to change Points of Communication (satellites & countries)  
 k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required  
 l -- authorization to change orbit location  
 m -- authorization to perform fleet management  
 n -- authorization to extend milestones  
 o -- Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

Yes  No

**ALIEN OWNERSHIP** Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	

### BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	<input type="radio"/> Yes <input checked="" type="radio"/> No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> No
37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	<input type="radio"/> Yes <input checked="" type="radio"/> No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.	
41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. <i>See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</i>	<input checked="" type="radio"/> Yes <input type="radio"/> No
42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	<input type="radio"/> Yes <input checked="" type="radio"/> No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?	
43. Description. (Summarize the nature of the application and the services to be provided). This modification application is to add operations on Telstar 11N, add modulations, and correct an error in the elevation of one of the hub locations. VSAT Systems LLC seeks to continue providing business and single user internet services to their clients.	
43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25. <input checked="" type="radio"/> A	
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements. <input type="radio"/> B	
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached. <input type="radio"/> C	

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**CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing  
Mike Kister

46. Title of Person Signing  
President

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT  
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION  
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).**

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Akron	E5. Call Sign:	
E2: Contact Name	Mario Tomaselli	E6. Phone Number:	330-785-2100
E3. Street:	1520 S. Arlington	E7. City:	Akron
E4. State	OH	E8. County:	Summit
E10. Area of Operation:		E9. Zip Code	44306
E11. Latitude:	41 ° 1 ' 51.5 " N	CONUS, Alaska, and Hawaii	
E12. Longitude:	81 ° 29 ' 33.7 " W		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
E14. Site Elevation (AMSL):	348.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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**OF THIS APPLICATION.**

**POINTS OF COMMUNICATION**

Satellite Name:ALSAT   ALL AUTHORIZED U.S.   ALSAT If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)		
Akron	Hub 1	1	Vertex/RSI	6.3M	0.0	0.0 dBi at		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
Hub 1	0.0/0.0		7.0	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
Hub 1	11700.0 12200.0	R	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 1	11700.0 12200.0	R	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 1	14000.0 14500.0	T	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
Hub 1	14000.0 14500.0	T	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
Hub 1	Geostationary	11700.0 12200.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1. Site Identifier:	Akron	E5. Call Sign:	
E2. Contact Name	Mario Tomaselli	E6. Phone Number:	330-785-2100
E3. Street:	1520 S. Arlington	E7. City:	Akron
E4. State	OH	E8. County:	Summit
E10. Area of Operation:		E9. Zip Code	44306
E11. Latitude:	41 ° 1 ' 51.5 " N	CONUS, Alaska, and Hawaii	
E12. Longitude:	81 ° 29 ' 33.2 " W		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	348.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Akron	Hub 2	1	Vertex/RSI	6.3M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
Hub 2	0.0/0.0	7.0	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28.	E43/44.	E45.	E46. Antenna	E47.	E48. Maximum	E49. Maximum ERIP
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Antenna Id	Frequency Bands(MHz)	T/R Mode	Polarization(H,V,L,R)	Emission Designator	EIRP per Carrier(dBW)	Density per Carrier(dBW/4kHz)
Hub 2	11700.0 12200.0	R	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 2	11700.0 12200.0	R	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 2	14000.0 14500.0	T	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
Hub 2	14000.0 14500.0	T	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
Hub 2	Geostationary	11700.0 12200.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
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E1: Site Identifier:	Akron	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	1520 S. Arlington	E7: City:	Akron
E4: State	OH	E8: County:	Summit
E10: Area of Operation:		E9: Zip Code	44306
E11: Latitude:	41 ° 1 ' 51.1 " N	CONUS, Alaska, and Hawaii	
E12: Longitude:	81 ° 29 ' 34.1 " W		
E13: Lat/Lon Coordinates are:	<input checked="" type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14: Site Elevation (AMSL):	348.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)		
Akron	Hub 3	1	Vertex/RSI	6.3M	0.0	0.0 dBi at		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
Hub 3	0.0/0.0		7.0	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
Hub 3	11700.0 12200.0	R	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 3	11700.0 12200.0	R	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
Hub 3	14000.0 14500.0	T	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
Hub 3	14000.0 14500.0	T	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
Hub 3	Geostationary	11700.0 12200.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	124.0	24.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign	E66. Phone Number
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**NOTE: Please enter the call sign of the controlling station, not the call sign for which this application is being filed.**

E62. Street Address

E63. City

E68. County

E67/68. State/Country /

E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

**Location of Earth Station Site**

E1. Site Identifier:	Remote 1	E5. Call Sign:	
E2. Contact Name	Mario Tomaselli	E6. Phone Number:	330-785-2100
E3. Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, Alaska, and Hawaii
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
--	---

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
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Remote 1	R-1	220	Channel Master	0.75M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for all carriers(dBW)
R-1	0.0/0.0	1.8	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4kHz)
R-1	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-1	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-1	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-1	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-1	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code
				/	

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site			
E1: Site Identifier:	Remote 2	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
		E9: Zip Code	

E10. Area of Operation: CONUS, Alaska, and Hawaii  
 E11. Latitude: 0 ° 0 ' 0.0 "  
 E12. Longitude: 0 ° 0 ' 0.0 "  
 E13. Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A  
 E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.  Yes  No  N/A  
 E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?  Yes  No  N/A  
 E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.  Yes  No  
 E18. Is frequency coordination required? If YES, attach a frequency coordination report as  Yes  No  
 E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as  Yes  No  
**E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**  Yes  No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:  
 E21. Common Name: E22. ITU Name:  
 E23. Orbit Location: E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:  
 E26. Common Name: E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 2	R-2	40	Prodelin Corporation	0.95M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-2	0.0/0.0	1.8	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-2	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-2	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-2	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-2	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna	E51. Satellite Orbit Type	E52/53. Frequency	E54/55. Range of Satellite Arc	E56. Earth	E57. Antenna	E58. Earth	E59. Antenna	E60. Maximum EIRP Density toward the
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Id		Limits(MHz)	Eastern/Western Limit	Station Azimuth Angle Eastern Limit	Elevation Angle Eastern Limit	Station Azimuth Angle Western Limit	Elevation Angle Western Limit	Horizon(dBW/4kHz)
R-2	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>		E66. Phone Number	
E62. Street Address			
E63. City	E68. County	E67/68. State/Country /	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Remote 3	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)	
Remote 3	R-3	99	Prodelin Corporation	0.98M	0.0	0.0 dBi at	

  

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-3	0.0/0.0	2.0	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-3	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-3	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-3	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-3	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-3	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier: Remote 4  
 E2: Contact Name: Mario Tomaselli  
 E3: Street: Various Locations Throughout  
 CONUS, Alaska, and Hawaii  
 E4: State  
 E10: Area of Operation: CONUS, Alaska, and Hawaii  
 E11: Latitude: 0 ° 0 ' 0.0 "  
 E12: Longitude: 0 ° 0 ' 0.0 "  
 E13: Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A  
 E14: Site Elevation (AMSL): 0.0 meters  
 E5: Call Sign:  
 E6: Phone Number: 330-785-2100  
 E7: City:  
 E8: County:  
 E9: Zip Code

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.  Yes  No  N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?  Yes  No  N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.  Yes  No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as  Yes  No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as  Yes  No

**E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**  Yes  No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name: E22. ITU Name:  
 E23. Orbit Location: E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:  
 E26. Common Name: E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 4	R-4	157	Patriot Ant. Systems	1M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-4	0.0/0.0	2.0	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-4	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0

E50. Modulation and Services Digital Audio and Data, 8PSK						
R-4	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-4	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-4	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK , DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-4	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>			E66. Phone Number	
E62. Street Address				
E63. City		E68. County		E67/68. State/Country /
				E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site			
E1: Site Identifier:	Remote 5	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	
E11: Latitude:	0 ° 0 ' 0.0 "	CONUS, Alaska, and Hawaii	
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83
E14: Site Elevation (AMSL):	0.0 meters	<input checked="" type="radio"/> N/A	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A



E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Remote 5	R-5	384	Prodelin Corporation	1.2M	0.0	0.0 dBi at

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-5	0.0/0.0	2.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-5	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0

E50. Modulation and Services Digital Audio and Data, 8PSK

R-5	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK

R-5	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2

R-5	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-5	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign	E66. Phone Number
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**NOTE: Please enter the call sign of the controlling station, not the call sign for which this application is being filed.**

E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Remote 6	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
Remote 6	R-6	945	Andrew Corporation	ESA1.2	0.0	0.0 dBi at

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for all carriers(dBW)
R-6	0.0/0.0	2.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4kHz)
R-6	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-6	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-6	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-6	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-6	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.						
E62. Street Address						
E63. City		E68. County		E67/68. State/Country	E64. Zip Code	
				/		

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site	
E1: Site Identifier:	Remote 7
E2: Contact Name	Mario Tomaselli
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii
E4: State	
E10: Area of Operation:	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "
E5: Call Sign:	
E6: Phone Number:	330-785-2100
E7: City:	
E8: County:	
E9: Zip Code	

E12. Longitude: 0 ° 0 ' 0.0 "

E13. Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.  Yes  No  N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?  Yes  No  N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.  Yes  No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as  Yes  No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as  Yes  No

**E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**  Yes  No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name: E22. ITU Name:

E23. Orbit Location: E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:

E26. Common Name: E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
Remote 7	R-7	745	C-COM	1.2M	0.0	0.0 dBi at

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-7	0.0/0.0	2.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-7	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0

E50. Modulation and Services Digital Audio and Data, 8PSK

R-7	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK

R-7	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2

R-7	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
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E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth	E57. Antenna Elevation Angle	E58. Earth Station Azimuth	E59. Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
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				Angle Eastern Limit	Eastern Limit	Angle Western Limit	Western Limit	
R-7	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>		E66. Phone Number	
E62. Street Address			
E63. City	E68. County	E67/68. State/Country /	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Remote 8	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:

E23. Orbit Location:	E24. Country:
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**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	E27. Country:
E26. Common Name:	

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)	
Remote 8	R-8	945	Channel Master	120TX	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-8	0.0/0.0	2.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-8	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-8	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-8	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-8	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-8	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.				
E62. Street Address				
E63. City		E68. County		E67/68. State/Country
				E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1. Site Identifier: Remote 9 E5. Call Sign:

E2. Contact Name: Mario Tomaselli E6. Phone Number: 330-785-2100

E3. Street: Various Locations Throughout E7. City:

CONUS, Alaska, and Hawaii E8. County:

E4. State: E9. Zip Code:

E10. Area of Operation: CONUS, Alaska, and Hawaii

E11. Latitude: 0 ° 0 ' 0.0 "

E12. Longitude: 0 ° 0 ' 0.0 "

E13. Lat/Lon Coordinates are:  NAD-27  NAD-83  N/A

E14. Site Elevation (AMSL): 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.  Yes  No  N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?  Yes  No  N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.  Yes  No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as  Yes  No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as  Yes  No

**E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.**  Yes  No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name: E22. ITU Name:

E23. Orbit Location: E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:

E26. Common Name: E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 9	R-9	200	Patriot Ant. Systems	1.2M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-9	0.0/0.0	2.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-9	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-9	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						

R-9	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-9	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-9	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site			
E1: Site Identifier:	Remote 10	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	
E3: Street:	Various Locations Throughout	E7: City:	
E4: State	CONUS, Alaska, and Hawaii	E8: County:	
E10: Area of Operation:		E9: Zip Code	
E11: Latitude:	0 ° 0 ' 0.0 "	CONUS, Alaska, and Hawaii	
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input checked="" type="radio"/> NAD-27	<input type="radio"/> NAD-83
E14: Site Elevation (AMSL):	0.0 meters	<input checked="" type="radio"/> N/A	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No



E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 10	R-10	87	Andrew Corporation	ASC1.8	0.0	0.0 dBi at	

  

E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-10	0.0/0.0	2.4	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-10	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-10	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-10	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-10	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-10	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E63. City	E68. County	E67/68. State/Country /	E64. Zip Code
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**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site			
E1. Site Identifier:	Remote 11	E5. Call Sign:	
E2. Contact Name	Mario Tomaselli	E6. Phone Number:	330-785-2100
E3. Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, Alaska, and Hawaii
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 11	R-11	87	Channel Master	1.8M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)

R-11	0.0/0.0	2.5	0.0	0.0	0.0	0.0	0.0
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**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier(dBW/4kHz)
R-11	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-11	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-11	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-11	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-11	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site		
E1: Site Identifier:	Remote 12	E5: Call Sign:
E2: Contact Name	Mario Tomaselli	E6: Phone Number:
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:
E4: State		E8: County:
E10: Area of Operation:		E9: Zip Code
E11: Latitude:	0 ° 0 ' 0.0 "	CONUS, Alaska, and Hawaii
E12: Longitude:	0 ° 0 ' 0.0 "	
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)	
Remote 12	R-12	87	Prodelin Corporation	1.8M	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-12	0.0/0.0	2.5	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-12	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-12	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-12	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-12	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)

R-12	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country /	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Remote 13	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input checked="" type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:
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E26. Common Name:	E27. Country:
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**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
Remote 13	R-13	87	Patriot Ant. Systems	180KU	0.0	0.0 dBi at		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-13	0.0/0.0		2.5	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-13	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-13	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-13	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-13	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-13	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site	
E1: Site Identifier: Remote 14	E5. Call Sign:

E2. Contact Name	Mario Tomaselli	E6. Phone Number:	330-785-2100
E3. Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, Alaska, and Hawaii
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):		0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:	
E26. Common Name:	E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
Remote 14	R-14	5	Patriot Ant. Systems	240KU	0.0	0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-14	0.0/0.0	3.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-14	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-14	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-14	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-14	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0

E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-14	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign  <b>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</b>	E66. Phone Number
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E62. Street Address

E63. City	E68. County	E67/68. State/Country /	E64. Zip Code
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**SATELLITE EARTH STATION AUTHORIZATIONS  
FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

Location of Earth Station Site

E1: Site Identifier:	Remote 15	E5: Call Sign:	
E2: Contact Name	Mario Tomaselli	E6: Phone Number:	330-785-2100
E3: Street:	Various Locations Throughout CONUS, Alaska, and Hawaii	E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, Alaska, and Hawaii
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

<b>E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
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**FAA's study regarding the potential hazard of the structure to aviation?  
FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN  
OF THIS APPLICATION.**

**POINTS OF COMMUNICATION**

Satellite Name: If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:

E26. Common Name:

E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)		
Remote 15	R-15	5	Channel Master	2.4M	0.0	0.0 dBi at		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level(meters)	E38. Total Input Power at antenna flange(Watts)	E39. Maximum Antenna Height Above Rooftop(meters)	E40. Total EIRP for al carriers(dBW)
R-15	0.0/0.0		3.1	0.0	0.0	0.0	0.0	0.0

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
R-15	11700.0 12200.0	R	Horizontal and Vertical	12M0G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-15	11700.0 12200.0	R	Horizontal and Vertical	2M60G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK						
R-15	14000.0 14500.0	T	Horizontal and Vertical	2M00G7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						
R-15	14000.0 14500.0	T	Horizontal and Vertical	300KG7W	0.0	0.0
E50. Modulation and Services Digital Audio and Data, 8PSK, DBS2						

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
R-15	Geostationary	11700.0 12200.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000.0 14500.0	37.0/0.0	0.0	0.0	0.0	0.0	0.0

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code
				/	

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