

Approved by OMB
3060-0678

Date & Time Filed:

File Number: ---

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Alaska Comms Mod - Seven Earth Stations

1-8. Legal Name of Applicant

Name: Alaska Communications Internet, LLC

Phone Number: 907-297-3130

DBA

Name:

Fax Number:

Street: 600 Telephone Avenue

E-Mail: regaffair@acsalaska.com

MS #60

City: Anchorage

State: AK

Country: USA

Zipcode: 99515 -

Attention: Lisa Phillips

9-16. Name of Contact Representative

Name: Richard Cameron

Phone Number: 202-230-4962

Company: LMI Advisors LLC

Fax Number:

Street: 2550 M Street NW

E-Mail: rcameron@lmiadvisors.com

City: Washington DC

State: DC

Country: USA

Zipcode: 20037-

Attention:

Relationship: Other

CLASSIFICATION OF FILING

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.

☒ a1. Earth Station

☐ a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

☒ b3. Amendment to a Pending Application

☐ b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

☐ b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(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.

17c. Is a fee submitted with this application?

☒ If Yes, complete and attach FCC Form 159.

If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).

☐ Governmental Entity ☐ Noncommercial educational licensee

☐ Other(please explain): Recipient of Emergency Connectivity Funding

17d.

Fee Classification

18. If this filing is in reference to an existing

19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please

station, enter:

(a) Call sign of station:
E170205

enter only the file number:

(a) Date pending application was filed:

(b) File number:

SESMFS2022080400834

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?	☐ Yes ☒ No
30. Is the applicant an alien or the representative of an alien?	☐ Yes ☐ No ☒ N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	☐ Yes ☐ No ☒ 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?	☐ Yes ☐ No ☒ 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?	☐ Yes ☐ No ☒ 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.	☐ Yes ☒ 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.	☐ Yes ☒ 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.	☐ Yes ☒ 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	☐ Yes ☒ 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.	☐ Yes ☒ 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> ☒ Yes ☐ 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. ☒ Yes ☐ 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? Mexico	
43. Description. (Summarize the nature of the application and the services to be provided). Alaska Communications Internet seeks to add seven earth stations to its C-band network license to serve the Lower Yukon School District.	
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. ☒ 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. ☐ 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.

☐ 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
Mark Ayers

46. Title of Person Signing
Vice President, Engineering, Planning & Constr.

**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: Hooper Bay School

E5. Call Sign: E170205

E2: Contact Name: Greg Tooke

E6. Phone Number: 907-550-8364

E3. Street: General Delivery

E7. City: Hooper Bay

E8. County: Kusilvak Census Area

E4. State: AK

E9. Zip Code: 99604

E10. Area of Operation:

Lower Yukon School District

E11. Latitude: 61 ° 31 ' 19.2 " N

E12. Longitude: 166 ° 5 ' 47.5 " W

E13. Lat/Lon Coordinates are:

☐ NAD-27

☒ NAD-83

☐ N/A

E14. Site Elevation (AMSL):

1.83 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:AMC-6 (S2347) AMC-6 139.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:GALAXY 30 (S3016) 125 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. 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: Hooper Bay School	
E26. Common Name:	E27. Country: USA

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)		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Hooper Bay School	HooperBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
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)
HooperBay	0.0/0.0		2.0	3.83	0.0	60.0	0.0	59.482

FREQUENCY

E28. Antenna	E43/44. Frequency	E45. T/R	E46. Antenna Polarization(H,V,L,R)	E47. Emission	E48. Maximum EIRP per	E49. Maximum ERIP Density per
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Id	Bands(MHz)	Mode		Designator	Carrier(dBW)	Carrier(dBW/4kHz)
HooperBay	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0
E50. Modulation and Services Digital						
HooperBay	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
HooperBay	5925 6020.9	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	5925 6020.9	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6419.79 6425	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6419.79 6425	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6047.40 6050.55	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6047.40 6050.55	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6077.05 6137.75	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6077.05 6137.75	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6167.75 6272.94	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6167.75 6272.94	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6299.44 6302.59	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6299.44 6302.59	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6329.09 6389.79	T	Horizontal and Vertical	13M0G7W	59.482	28.1
E50. Modulation and Services Digital						
HooperBay	6329.09 6389.79	T	Horizontal and Vertical	5M50G7W	59.482	28.1
E50. Modulation and Services Digital						

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)
HooperBay	Geostationary	3700 4200	95.0/191.0	106.75	0.2	207.84	17.34	0.0
	Geostationary	5925 6020.90	95.0/191.0	106.75	0.2	207.84	17.34	-12.823
	Geostationary	6419.79 6425	95.0/191.0	106.75	0.2	207.84	17.34	-12.823
	Geostationary	6047.40 6050.55	95.0/191.0	106.75	0.2	207.84	17.34	-12.823
	Geostationary	6077.05 6137.75	95.0/191.0	106.75	0.2	207.84	17.34	-12.823

	Geostationary	6167.75 6272.94	95.0/191.0	106.75	0.2	207.84	17.34	-12.823
	Geostationary	6299.44 6302.59	95.0/191.0	106.75	0.2	207.84	17.34	-12.823
	Geostationary	6329.09 6389.79	95.0/191.0	106.75	0.2	207.84	17.34	-12.823

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:	RussianMissionSchool	E5. Call Sign:	E170205
E2: Contact Name	Greg Tookey	E6. Phone Number:	907-550-8364
E3. Street:		E7. City:	Russian Mission
		E8. County:	Kusilvak Census Area
E4. State	AK	E9. Zip Code	99657
E10. Area of Operation:		Lower Yukon School District	
E11. Latitude:	61 ° 47 ' 10.0 " N		
E12. Longitude:	161 ° 19 ' 33.8 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27	☒ NAD-83	☐ N/A
E14. Site Elevation (AMSL):	48.16 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: GALAXY 30 (S3016) 125 W.L. If you selected OTHER, please enter the following:
--

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:AMC-6 (S2347) AMC-6 139.0 W.L. 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)	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
RussianMissionSchool	RussianMis	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
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)
RussianMis	0.0/0.0	2.0	50.16	0.0	40.0	0.0	57.721

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)
RussianMis	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0

E50. Modulation and Services Digital						
RussianMis	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
RussianMis	5925 5932.2	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5925 5932.2	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6417.79 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6417.79 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5958.2 5961.85	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5958.2 5961.85	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5958.2 5961.85	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6136.1 6139.75	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6136.1 6139.75	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5987.85 6052.15	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	5987.85 6052.15	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6075.45 6080.45	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6075.45 6080.45	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6165.75 6184.24	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6165.75 6184.24	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6239.89 6304.19	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6239.89 6304.19	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6327.49 6332.49	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6327.49 6332.49	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6358.49 6362.14	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6358.49 6362.14	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						

RussianMis	6358.49 6362.14	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6358.49 6362.14	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6388.14 6391.79	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
RussianMis	6388.14 6391.79	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

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)
RussianMis	Geostationary	3700 4200	95.0/191.0	111.12	2.27	212.89	15.91	0.0
	Geostationary	5925 5932.2	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6417.79 6425	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	5958.2 5961.85	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6136.1 6139.75	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	5987.85 6052.15	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6075.45 6080.45	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6165.75 6184.24	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6239.89 6304.19	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6327.49 6332.49	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6358.49 6362.14	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813
	Geostationary	6388.14 6391.79	95.0/191.0	111.12	2.27	212.89	15.91	-14.6813

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:	Pilot Station School	E5. Call Sign:	E170205
E2. Contact Name	Greg Tooke	E6. Phone Number:	907-550-8364
E3. Street:		E7. City:	Pilot Station
E4. State	AK	E8. County:	Kusilvak Census Area
E10. Area of Operation:		E9. Zip Code	99650
E11. Latitude:	61 ° 56 ' 10.7 " N		
E12. Longitude:	162 ° 53 ' 31.2 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27	☒ NAD-83	☐ N/A
E14. Site Elevation (AMSL):	67.97 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
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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	☐ Yes ☒ No
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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
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POINTS OF COMMUNICATION

Satellite Name:AMC-6 (S2347) | AMC-6 | 139.0 W.L. If you selected OTHER, please enter the following:

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

Satellite Name:EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. If you selected OTHER, please enter the following:

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

Satellite Name:GALAXY 30 (S3016) | 125 W.L. 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)
Pilot Station School	PilotStati	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950
Pilot Station School	PilotStati	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175

Pilot Station School	PilotStati	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Pilot Station School	PilotStati	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
Pilot Station School	PilotStati	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175		
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)
PilotStati	0.0/0.0		2.0	69.97	0.0	40.0	0.0	57.721

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)
PilotStati	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0
E50. Modulation and Services Digital						
PilotStati	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
PilotStati	5925 6048.8	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	5925 6048.8	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6416.44 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6416.44 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6078.8 6182.24	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6078.8 6182.24	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6360.49 6389.79	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
PilotStati	6360.49 6389.79	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

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)
PilotStati	Geostationary	3700 4200	95.0/191.0	109.72	1.52	211.19	16.18	0.0
	Geostationary	5925 6048.8	95.0/191.0	109.72	1.52	211.19	16.18	-13.9579
	Geostationary	6416.44 6425	95.0/191.0	109.72	1.52	211.19	16.18	-13.9579
	Geostationary	6078.8 6182.24	95.0/191.0	109.72	1.52	211.19	16.18	-13.9579
	Geostationary	6360.49 6389.79	95.0/191.0	109.72	1.52	211.19	16.18	-13.9579

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:	Mountain Village	E5. Call Sign:	E170205
E2. Contact Name	Greg Tooke	E6. Phone Number:	907-550-8364
E3. Street:	100 School Road	E7. City:	Mountain Village
E4. State	AK	E8. County:	Kusilvak Census Area
E10. Area of Operation:		E9. Zip Code	99632
E11. Latitude:	62 ° 5 ' 20.6 " N	Lower Yukon School District	
E12. Longitude:	163 ° 43 ' 41.3 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27	☒ NAD-83	☐ N/A
E14. Site Elevation (AMSL):	36.58 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:AMC-6 (S2347) AMC-6 139.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: GALAXY 30 (S3016) || 125 W.L. 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)
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Mountain Village	MountainVi	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175

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)
MountainVi	0.0/0.0	2.0	38.58	0.0	40.0	0.0	57.721

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)
MountainVi	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0
E50. Modulation and Services Digital						
MountainVi	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
MountainVi	5925 6048.8	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	5925 6048.8	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6417.49 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6417.49 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

MountainVi	6078.8 6184.24	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6078.8 6184.24	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6210.24 6213.89	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6210.24 6213.89	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6239.89 6244.89	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6239.89 6244.89	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6268.19 6273.19	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6268.19 6273.19	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6299.19 6332.49	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6299.19 6332.49	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6358.49 6391.79	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
MountainVi	6358.49 6391.79	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

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)
MountainVi	Geostationary	3700 4200	95.0/191.0	108.99	1.1	210.26	16.25	0.0
	Geostationary	5925 6048.8	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6417.79 6425	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6078.8 6184.24	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6210.24 6213.89	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6239.89 6244.89	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6268.19 6273.19	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6299.19 6332.49	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973
	Geostationary	6358.49 6391.79	95.0/191.0	108.99	1.1	210.26	16.25	-13.4973

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
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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:	Scammon Bay School	E5. Call Sign:	E170205
E2. Contact Name	Greg Tookey	E6. Phone Number:	907-550-8364
E3. Street:		E7. City:	Scammon Bay
		E8. County:	Kusilvak Census Area
E4. State	AK	E9. Zip Code	99662
E10. Area of Operation:			Lower Yukon School District
E11. Latitude:	61 ° 50 ' 20.5 " N		
E12. Longitude:	165 ° 33 ' 59.4 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27	☒ NAD-83	☐ N/A
E14. Site Elevation (AMSL):	39.01 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
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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?	☐ 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
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POINTS OF COMMUNICATION

Satellite Name: GALAXY 30 (S3016) | 125 W.L. If you selected OTHER, please enter the following:

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

Satellite Name: AMC-6 (S2347) | AMC-6 | 139.0 W.L. If you selected OTHER, please enter the following:

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

Satellite Name: EUTELSAT115WB(S2938) | EUTELSAT 115 WB | 114.9 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
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E23. Orbit Location:	E24. Country:
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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)
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.95
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175
Scammon Bay School	ScammonBay	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175

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)
ScammonBay	0.0/0.0	2.0	41.01	0.0	40.0	0.0	57.721

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)
ScammonBay	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0
E50. Modulation and Services Digital						
ScammonBay	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
ScammonBay	5925 5930.2	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	5925 5930.2	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	6390.14 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	6390.14 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	5989.85 6048.8	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	5989.85 6048.8	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	6078.8 6211.89	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
ScammonBay	6078.8 6211.89	T	Horizontal and Vertical	5M50G7W	57.721	26.34

E50. Modulation and Services Digital

ScammonBay	6241.89 6360.14	T	Horizontal and Vertical	13M0G7W	57.721	26.34
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E50. Modulation and Services Digital

ScammonBay	6241.89 6360.14	T	Horizontal and Vertical	5M50G7W	57.721	26.34
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E50. Modulation and Services Digital

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)
ScammonBay	Geostationary	3700 4200	95.0/191.0	107.28	0.35	208.34	16.92	0.0
	Geostationary	5925 5930.2	95.0/191.0	107.28	0.35	208.34	16.92	-12.8469
	Geostationary	6390.14 6425	95.0/191.0	107.28	0.35	208.34	16.92	-12.8469
	Geostationary	5989.85 6048.8	95.0/191.0	107.28	0.35	208.34	16.92	-12.8469
	Geostationary	6078.8 6211.89	95.0/191.0	107.28	0.35	208.34	16.92	-12.8469
	Geostationary	6241.89 6360.14	95.0/191.0	107.28	0.35	208.34	16.92	-12.8469

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:	Emmonak School	E5. Call Sign:	E170205
E2. Contact Name	Greg Tooke	E6. Phone Number:	907-550-8364
E3. Street:	267 School Rd	E7. City:	Emmonak
E4. State	AK	E8. County:	Kusilvak Census Area
E10. Area of Operation:		E9. Zip Code	99581
E11. Latitude:	62 ° 46 ' 43.7 " N	Lower Yukon School District	
E12. Longitude:	164 ° 31 ' 48.1 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27 ☒ NAD-83 ☐ N/A		
E14. Site Elevation (AMSL):	2.13 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

☐ Yes ☒ No ☐ N/A

qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	
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: GALAXY 30 (S3016) 125 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: AMC-6 (S2347) AMC-6 139.0 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. 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)	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Emmonak School	Emmonak	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
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)
Emmonak	0.0/0.0	2.0	4.13	0.0	40.0	0.0	57.721

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)
Emmonak	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0
E50. Modulation and Services Digital						
Emmonak	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
Emmonak	5925 5930.2	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	5925 5930.2	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6360.49 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6360.49 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	5989.85 6048.8	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	5989.85 6048.8	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6108.45 6182.24	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6108.45 6182.24	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6241.89 6271.19	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6241.89 6271.19	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6301.19 6330.49	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Emmonak	6301.19 6330.49	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

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)
Emmonak	Geostationary	3700 4200	95.0/191.0	108.36	0.52	209.25	15.82	0.0
	Geostationary	5925 5930.2	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622
	Geostationary	6360.49 6425	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622
	Geostationary	5989.85 6048.8	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622
	Geostationary	6108.45 6182.24	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622
	Geostationary	6241.89	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622

		6271.19						
	Geostationary	6301.19 6330.49	95.0/191.0	108.36	0.52	209.25	15.82	-23.5622

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:	Alakanuk School	E5. Call Sign:	E170205
E2. Contact Name	Greg Tooke	E6. Phone Number:	907-550-8364
E3. Street:	9 Anderson St	E7. City:	Alakanuk
		E8. County:	Kusilvak Census Area
E4. State	AK	E9. Zip Code	99554
E10. Area of Operation:	Lower Yukon School District		
E11. Latitude:	62 ° 41 ' 5.3 " N		
E12. Longitude:	164 ° 40 ' 9.6 " W		
E13. Lat/Lon Coordinates are:	☐ NAD-27 ☒ NAD-83 ☐ N/A		
E14. Site Elevation (AMSL):	3.05 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: GALAXY 30 (S3016) 125 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: EUTELSAT115WB(S2938) EUTELSAT 115 WB 114.9 W.L. If you selected OTHER, please enter the following:	

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:AMC-6 (S2347) AMC-6 139.0 W.L. 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)	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	34.7 dBi at 3.950	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	
Alakanuk School	Alakanuk	1	General Dynamics	Prodelin 1240	2.4	41.7 dBi at 6.175	

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)
Alakanuk	0.0/0.0	2.0	5.05	0.0	40.0	0.0	57.721

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)
Alakanuk	3700 4200	R	Horizontal and Vertical	5M50G7W	0.0	0.0

E50. Modulation and Services Digital						
Alakanuk	3700 4200	R	Horizontal and Vertical	72M0G7W	0.0	0.0

E50. Modulation and Services Digital						
Alakanuk	5925 5930.2	T	Horizontal and Vertical	13M0G7W	57.721	26.34

E50. Modulation and Services Digital						
Alakanuk	5925 5930.2	T	Horizontal and Vertical	5M50G7W	57.721	26.34

E50. Modulation and Services Digital						
Alakanuk	6360.49 6425	T	Horizontal and Vertical	13M0G7W	57.721	26.34

E50. Modulation and Services Digital						
Alakanuk	6360.49 6425	T	Horizontal and Vertical	5M50G7W	57.721	26.34

E50. Modulation and Services Digital						
Alakanuk	5989.85 6019.15	T	Horizontal and Vertical	13M0G7W	57.721	26.34

E50. Modulation and Services Digital						
Alakanuk	5989.85 6019.15	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6108.45 6182.24	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6108.45 6182.24	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6241.89 6271.19	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6241.89 6271.19	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6301.19 6330.49	T	Horizontal and Vertical	13M0G7W	57.721	26.34
E50. Modulation and Services Digital						
Alakanuk	6301.19 6330.49	T	Horizontal and Vertical	5M50G7W	57.721	26.34
E50. Modulation and Services Digital						

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)
Alakanuk	Geostationary	3700 4200	95.0/191.0	108.22	0.49	209.12	15.94	0.0
	Geostationary	5925 5930.2	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502
	Geostationary	6360.49 6425	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502
	Geostationary	5989.85 6019.15	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502
	Geostationary	6108.45 6182.24	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502
	Geostationary	6241.89 6271.19	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502
	Geostationary	6301.19 6330.49	95.0/191.0	108.22	0.49	209.12	15.94	-12.6502

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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