Approved by OMB
3060–0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu:
60–day STA extension to support Kuspuk School District.

1. Applicant

Name:	Alaska Communications Internet, LLC	**Phone Number:**	907–297–3000
DBA Name:		**Fax Number:**	907–297–3153
Street:	600 Telephone Avenue MS #60	**E–Mail:**	Lisa.Phillips@acsalaska.com
City:	Anchorage	**State:**	AK
Country:	USA	**Zipcode:**	90503 –
Attention:	Ms Lisa Phillips		

FEDERAL COMMUNICATIONS COMMISSION
GRANTED
International Bureau

File # SES-STA-20190130-00038
Call Sign E170205 Grant Date 2/8/2019
(or other identifier)
Term Dates
From 2/8/2019 To: 4/9/2019
Approved: Paul E Blair

2. Contact

Name:	Richard Cameron	**Phone Number:**	2022304962
Company:	LMI Advisors	**Fax Number:**	
Street:	2550 M Street. MW	E–Mail:	rcameron@lmiadvisors.com
	Suite 319		
City:	Washington	**State:**	DC
Country:	USA	**Zipcode:**	20037 –
Attention:		**Relationship:**	Other

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)
3. Reference File Number SESMOD2018062601472 or Submission ID

4a. 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):

4b. Fee Classification CGV – Fixed Satellite VSAT System

5. Type Request

◉ Use Prior to Grant ○ Change Station Location ○ Other

6. Requested Use Prior Date 11/10/2018	
7. CityVarious	8. Latitude (dd mm ss.s h) 0 0 0.0

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0

11. Please supply any need attachments.

Attachment 1: Narrative Attachment 2: Technical Appendix Attachment 3: Form 312 Schedule B

12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

60-day STA extension to support Kuspuk School District.

13. 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. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

(●) Yes ( ) No

14. Name of Person Signing	15. Title of Person Signing
Rick Benken	VP

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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

In the Matter of		E170205 SES-STA-20190130-00038 IB2019000153 Alaska Communications Internet, LLC
Application of Alaska Communications Internet LLC for 60-Day Special Temporary Authorization ("STA")	)	

APPLICATION FOR SPECIAL TEMPORARY AUTHORIZATION

Pursuant to Section 25.120 of the rules of the Federal Communications Commission (the "FCC" or "Commission"), 47 C.F.R. § 25.120, Alaska Communications Internet LLC ("Alaska Communications Internet") seeks this 60-day special temporary authorization ("STA"), commencing on Wednesday, January 30, 2019,[1] to continue to operate ten (10) remote earth station sites as part of its existing C-band very small aperture terminal ("VSAT") network[2] during the pendency of its underlying modification application for long-term operating authority.[3] Consistent with its existing STA for the identical operations proposed herein,[4] Alaska Communications Internet also seeks to operate the previously licensed Dimond D hub site and five remote sites pursuant to updated operating parameters. Alaska Communications Internet will continue to operate these sites in portions of the C-band at fixed locations in Alaska while communicating with the EUTELSAT 115WB satellite located at the 114.9° W.L. orbital position.

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1 Alaska Communications Internet requests this commencement date as specified in the Public Notice *Impact of Potential Lapse in Funding on Commission Operations* (DA 19-10, released January 2, 2019, *"Lapse in Funding Public Notice"*).

2 *See* Alaska Communications Internet LLC, File No. SES-LIC-20171116-01257, Call Sign E170205, and subsequent modification and amendment applications (*"ACI Network License"*).

3 *See* Alaska Communications Internet LLC, File No. SES-MOD-20180626-01472 (*"ACI Modification Application"*).

4 *See* Alaska Communications Internet LLC, File No. SES-STA-20181109-03201 (*"Kuspuk STA"*).

Grant of this STA will enable Alaska Communications Internet to continue delivering critically needed broadband services supported by the Commission's Schools and Libraries Universal Service Support Mechanism, commonly known as "E-rate," to students, teachers, and staff of the Kuspuk School District, Alaska, ensuring continuity of service to the school district during the academic year. Moreover, grant of this STA will strongly serve the public interest by allowing Alaska Communications Internet to continue providing enhanced broadband connectivity to schools and facilities in the Kuspuk School District, thus delivering improved educational opportunities and resources, enabling distance learning, and supporting staff, students, and teachers in these remote Alaska bush communities.[5]

Although the *ACI Modification Application* for regular authority to serve the Kuspuk School District sites came off of Public Notice on August 17, 2018, the application continues to be coordinated internally between the Commission's International Bureau ("IB") and the Wireless Telecommunications Bureau ("WTB"). Thus, pursuant to consultation with Commission staff, Alaska Communications Internet files this STA to extend its existing authority in the *Kuspuk STA* and allow these schools and their students, teachers, and staff to continue to realize the benefits of improved broadband services, while also affording the Commission sufficient time to review and process the *ACI Modification Application*.

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[5] Unlike Alaska's three largest population centers, and the surrounding rural communities, Alaska bush communities are isolated geographically from infrastructure resources commonly available elsewhere in the state, and the nation as a whole. Most bush communities cannot be accessed by road and are not connected to the state's power grid. To reach these communities, people, as well as goods and services, must arrive by plane, barge, snow machine, all-terrain vehicle, or other off-road transportation means. Communications services in these communities generally must rely on satellite or terrestrial point-to-point microwave transport links to Anchorage, Fairbanks, or Juneau.

I. Background

Alaska Communications Internet is an affiliate of Alaska Communications Systems Group, Inc. ("Alaska Communications"), a publicly-traded company that, through its subsidiaries, provides terrestrial wireline telecommunications and broadband-enabled services throughout Alaska as the largest incumbent local exchange carrier in the state.[6] Alaska Communications Internet provides essential broadband and voice-over-Internet Protocol ("VoIP") services to enterprise, business, educational, health care, and residential customers throughout the state.

The *ACI Network License* authorizes Alaska Communications Internet to operate a network of C-band satellite earth stations in order to provide satellite services to diverse users in remote locations in Alaska. Specifically, from the gateway hub in Anchorage, Alaska, the network currently serves the Alaska Native population of St. Paul Island and the Tanadgusix Corporation ("TDX"), an Alaska Native corporation created pursuant to the Alaska Native Claims Settlement Act ("ANCSA"). In addition, the C-band VSAT network serves local businesses co-owned by the Bristol Bay Economic Development Corporation ("BBEDC"),[7] providing broadband connectivity that supports the local fishing and seafood industries, as well as a test site located in Anchorage, Alaska. This *Kuspuk STA* extension request, and underlying *ACI Modification Application,* enable Alaska Communications Internet to deliver the well-recognized benefits of broadband telecommunications and Internet services to ten primary and secondary school locations supported by the Commission's E-rate support mechanism in additional Alaska bush communities. This

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6 The incumbent local exchange carrier ("ILEC") subsidiaries of Alaska Communications are: ACS of Anchorage, LLC; ACS of Fairbanks, LLC; ACS of Alaska, LLC; and ACS of the Northland, LLC; *see also* ACS Long Distance, Inc., File Nos. ITC-214-19960612-00248, ITC-T/C-20050822-00382, ITC-T/C-20040414-00190 (International Section 214 authorization).

7 The BBEDC is a not-for-profit company whose mission is to promote economic growth and opportunities for residents of BBEDC's member communities through sustainable use of the Bering Sea resources. *See* http://www.bbedc.com.

extension is particularly important now that the 2018-2019 school year is underway and students have returned to classes.

Alaska Communications Internet incorporates by reference (and attaches as an Exhibit to this STA) the FCC Form 312 Schedule B and Technical Appendix provided with the *ACI Modification Application*. Those documents provide relevant information relating to the earth station operating parameters, performance information and radiation hazard analyses. At all ten remote sites, Alaska Communications Internet operates an identical 2.4m Prodelin Model 1244 (the "2.4m") earth station, which is the same model that is currently licensed in the *ACI Network License* and on the Commission's Approved Non-Routine Earth Station Antennas List ("Non-Routine Antenna List").[8] Moreover, Alaska Communications Internet will continue to operate the earth stations below the maximum EIRP spectral density ("ESD") levels authorized in the *ACI Network License* and consistent within levels previously approved by the Commission.[9]

II. Discussion

With this STA request, Alaska Communications Internet seeks authority to continue to operate ten (10) remote earth station sites as part of the *ACI Network License*, each of which completed coordination on June 22, 2018, to communicate with the EUTELSAT 115WB satellite in portions of the C-band. Consistent with the *Kuspuk STA* and *ACI Modification Application,* in

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[8] *See* Approved Non-Routine Earth Station Antennas, https://www.fcc.gov/approved-non-routine-earth-station-antennas; Letter to Marlene H. Dortch, "Alaska Communications Internet LLC – Section 1.65 Letter Regarding Application for C-Band Very Small Aperture Terminal ("VSAT") Blanket License, File No. SES-LIC-20171116-01257, Call Sign 170205" (filed on Dec. 22, 2017) (*citing* Harris Corporation, File No. SES-LIC-20060302-00342, Call Sign E060075; Intelsat LLC, File No. SES-LIC-20091027-01364, Call Sign E090186; Globe Wireless LLC, File No. SES-LIC-20120116-00058, Call Sign E120017).

[9] Each site will utilize an iDirect modem, which assigns individual time slots for each earth station's transmissions, and thus there is no potential for aggregation of transmissions resulting in an exceedance of the off-axis ESD levels provided in this application.

order to accommodate larger bandwidth carriers for the increased traffic to the new Kuspuk sites and add corresponding receive frequencies to the currently licensed remote sites, this STA also seeks to continue operation in additional C-band transmit frequencies and with increased antenna input power for the previously licensed Dimond D hub.

Alaska Communications Internet acknowledges the Commission's Public Notice placing a temporary freeze on the filing of all new or modification applications for earth stations in the 3.7-4.2 GHz band, effective as of April 19, 2018.[10] The *Temporary Freeze Public Notice* does not include a freeze on requests for special temporary authority for short-term operations, and thus the instant request is outside the scope of the freeze. In the *ACI Modification Application*, Alaska Communications Internet more thoroughly discusses the reasons why a waiver of the *Temporary Freeze Public Notice* is justified in connection therewith.

In addition, Alaska Communications Internet incorporates by reference the waiver request made in the *ACI Modification Application*[11] to permit Alaska Communications Internet to use up to 144 megahertz of bandwidth on EUTELSAT 115WB.[12] Although the Commission previously waived Section 25.115(c)(2)(i)(B) in the *ACI Network License* to permit Alaska Communications Internet to use 72 megahertz of spectrum in each direction on Transponder 01C

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[10] *See* Public Notice, *Temporary Freeze on Applications for New or Modified Fixed Satellite Service Earth Stations and Fixed Microwave Stations in the 3.7-4.2 GHz Band, 90-Day Window to File Applications for Earth Stations Currently Operating in the 3.7-4.2 GHz Band*, DA 18-398 (rel. on April 19, 2018) (*"Temporary Freeze Public Notice"*). *See also,* Public Notice, GN Docket Nos. 17-183, 18-122, "International Bureau Announces 90-Day Extension of Filing Window, to October 17, 2018, to File Applications for Earth Stations Currently Operating in 3.7-4.2 GHz Band; Filing Options for Operators with Multiple Earth Station Antennas," DA 18-639 (rel. Jun. 21, 2018).

[11] *See ACI Modification Application*, Legal Narrative, Section III.

[12] *See* 47 C.F.R. § 25.115(c)(2)(i)(B) (permitting a C-band VSAT network to utilize up to 20 megahertz of spectrum in each direction of transmission on up to three satellites, *i.e.*, up to 60 megahertz total).

of EUTELSAT 115WB, growing demand for Alaska Communications Internet's C-band satellite services in Alaska now necessitates use of an *additional* 72 megahertz of spectrum (*i.e.*, 144 megahertz total, across Transponders 01C, 07C, and 08C) on EUTELSATSAT 115WB in its network.

As demonstrated in the *ACI Modification Application,* the additional transponder capacity is imperative to be able to properly scale and offer the most reliable connectivity solutions to the remote communities of Alaska. The additional spectrum is necessary to deliver the required services to the ten Kuspuk School District locations, which cannot be added to the current network within the currently licensed 72 megahertz range. The additional spectrum thus enables the delivery of critically needed broadband telecommunications and Internet access services in the Alaska bush, where terrestrial connectivity is simply unavailable.

A. Dimond D Hub Frequencies

Previously, the Commission granted Alaska Communications Internet a license to communicate with Transponder 01C on EUTELSAT 115WB, operating at 3704-3776 MHz (space-to-Earth) and 5929-6001 MHz (Earth-to-space). In order to effectively serve the ten new Kuspuk School District sites using the Dimond D hub, Alaska Communications Internet requires additional capacity on EUTELSAT 115WB. Alaska Communications Internet, therefore, has leased Transponder 07C, operating in the 3944-4016 MHz (space-to-Earth) and 6169-6241 MHz (Earth-to-space) bands. Utilizing the previously licensed 3.8m hub, Alaska Communications Internet uses the new EUTELSAT 115WB Transponder 07C uplink and downlink (*i.e.*, 72 megahertz in each direction in a single polarization) as the forward link (from the hub to each Kuspuk School District remote site). Virtually all of that bandwidth is required to deliver the broadband service speeds to all ten locations required under the Kuspuk School District's contract. Any remaining bandwidth on Transponder 07C, in addition to the currently licensed

bandwidth on Transponder 01C, is used to continue to serve Alaska Communications Internet's existing customers and preserve operational flexibility and capacity to provide reliable connectivity to all customer locations.

Full use of Transponder 07C in this way allows Alaska Communications Internet to utilize wider carriers with greater bandwidth capacity at the Dimond D hub, maximizing its ability to deliver high-speed connectivity to the Kuspuk School District. As demonstrated in the *ACI Modification Application* Schedule B, while the utilization of a 72 megahertz carrier bandwidth results in a lower EIRP density – thus reducing the potential for interference with other operations in the band – it also requires that Alaska Communications Internet slightly increase the input power into the antenna. In the *ACI Modification Application,* Alaska Communications Internet provides an updated radiation hazard study for the Dimond D hub reflecting the increased input power.

B. Site Locations

Alaska Communications Internet seeks to continue to operate the following ten sites as part of its C-band VSAT network in Alaska (together, the "Kuspuk School District sites"):

- Aniak School District Office ("*Aniak DO*")
  (geographic coordinates: 61° 34' 55.6" N, 159° 32' 18.3" W)
- Junior Senior High School ("*JSHS*") - Aniak, AK
  (geographic coordinates: 61° 34' 48.8" N, 159° 33' 06.7" W)
- Auntie Mary Nicoli Elementary School ("*AMNES*") - Aniak, AK
  (geographic coordinates: 61° 34' 49.0" N, 159° 31' 51.7" W)
- Crow Village Sam School ("*CVSS*") - Chuathbaluk, AK
  (geographic coordinates: 61° 34' 23.7" N, 159° 14' 57.8" W)
- Jack Egnaty Senior School ("*JESS*") - Sleetmute, AK
  (geographic coordinates: 61° 42' 9.7" N, 157° 10' 14.9" W)
- Johnnie John Sr School ("*JJSS*") - Crooked Creek, AK

(geographic coordinates: 61° 51' 48.6" N, 158° 08' 18.2" W)

- Gusty Michael School ("*GMSHS*") - Stoney River, AK
  (geographic coordinates: 61° 47' 13.6" N, 156° 35' 17.7" W)

- George Morgan Senior High School ("*GMHS*") - Kalskag, AK
  (geographic coordinates: 61° 31' 57.9" N, 160° 20' 50.0" W)

- Joseph & Olinga Gregory Elementary School ("*JOGES*") - Kalskag, AK
  (geographic coordinates: 61° 32' 41.9" N, 160° 19' 3.7" W)

- Zackar Levi Elementary School ("*ZLES*") - Kalskag, AK
  (geographic coordinates: 61° 30' 43.6" N, 160° 21' 41.5" W)

Each site uses an identical 2.4m VSAT earth station of the same model that is authorized in the *ACI Network License* for similar fixed C-band operations and is on the Commission's Non-Routine Antenna List.[13] Although the 2.4m earth station does not comply with the gain mask in Section 25.209 of the Commission's rules, Alaska Communications Internet demonstrates in the incorporated Schedule B that it will operate the terminals at maximum ESD levels below those currently authorized in the *ACI Network License* and in compliance with the ESD mask set forth in Section 25.218(d) of the Commission's rules.[14]

At each site, the earth station is mounted on an existing rooftop in an area inaccessible to the general public. Their locations are not among any "districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places,"[15] and thus they fall within the exemptions of Section 1.1306(a)-(b) and Note 1 to that rule.[16] Accordingly, no

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[13] *Supra* n. 6; *see, e.g.,* Harris Corporation, File No. SES-LIC-20060302-00342, Call Sign E060075.

[14] *See* 47 C.F.R. § 25.218(d).

[15] 47 C.F.R. § 1.1307(a)(4).

[16] *See* 47 C.F.R. § 1.1306, Note 1 ("The provisions of §1.1307(a) requiring the preparation of EAs do not encompass the mounting of antenna(s) and associated equipment (such as wiring,

environmental assessment is required as part of this application because each proposed site is categorically exempt under Section 1.1306 of the Commission's rules, 47 C.F.R. § 1.1306.

The flexibility to use additional transponder capacity is essential to enable Alaska Communications Internet to offer reliable connectivity to the Kuspuk School District sites. Not only is 72 megahertz of spectrum insufficient to enable service to all current customers of Alaska Communications Internet, but the entire Transponder 01C frequency range is unavailable at three of the new remote sites, necessitating an alternative solution. In all cases, Alaska Communication Internet seeks to receive hub transmission of the forward link in Transponder 07C frequencies from 3944-4016 MHz (space-to-Earth). With respect to the return links from each remote site back to the hub, the individual carriers will be narrower in bandwidth and Alaska Communications Internet needs flexibility to position those return link carriers within up to 72 MHz of bandwidth on EUTELSAT 115WB, depending on certain site-specific limitations.

Specifically, for seven of the Kuspuk School District sites, the return link (from the remote site back to the hub) will utilize Transponder 01C frequencies already included in the *ACI Network License*. As discussed below, however, Alaska Communications Internet has encountered co-frequency terrestrial operations in the entire range covered by the Transponder 01C uplink band at three Kuspuk School District sites in the area of Kalskag, Alaska, and thus needs to utilize alternative frequencies for the uplink to EUTELSAT 115WB at those locations to avoid interference.[17] Without this flexibility, Alaska Communications Internet will be unable to serve

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cabling, cabinets, or backup-power), on or in an existing building, or on an antenna tower or other man-made structure, unless §1.1307(a)(4) is applicable.").

[17] Those three sites will utilize a portion of the Transponder 07C frequency range previously discussed, but on the opposite polarity, in order to avoid interference with the forward link from the hub.

these rural Kuspuk School District sites, inhibiting "the delivery of earth station services, including broadband access, to rural Americans."[18]

C. Operating in Transponder 07C Downlink Frequencies at Existing Licensed Remote Sites

Alaska Communications Internet also seeks to continue to operate in additional downlink frequencies at its five currently licensed remote earth station sites so each site can receive downlink (space-to-Earth) transmissions from the Dimond D hub on Transponder 07C (*i.e.*, 3944-4016 MHz).[19] Currently, the *ACI Network License* includes five remote sites, each of which is authorized to receive the downlink frequencies in the range of 3704-3776 MHz, used by EUTELSAT E115WB Transponder 01C, as follows:

- Site 1: 100 Harbor View Drive, St. Paul, AK
  Geographic Coordinates: 57° 7' 23.0" N, 170° 16' 45.0" W
- Site 2: 600 Telephone Ave., Anchorage, AK
  Geographic Coordinates: 61° 11' 10.5" N, 149° 52' 15.57" W
- Site 3: Excursion Inlet, Alaska
  Geographic coordinates: 58° 24' 55.3" N, 135° 26' 36.4" W
- Site 4: Kodiak Island, Alitak, AK
  Geographic Coordinates: 56° 53' 52.2" N, 154° 14' 43.0" W
- Site 5: Naknek, AK
  Geographic Coordinates: 58° 43' 43.7" N, 157° 00' 0.90"

Alaska Communications Internet plans, to the extent possible, to consolidate its transmit and receive operations over time so that the forward link from the Dimond D hub to *all* remote sites, including the previously licensed sites identified above, takes place using a single 72

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[18] *See FWCC Request for Declaratory Ruling on Partial-Band Licensing of Earth Stations in the Fixed-Satellite Service That Share Terrestrial Spectrum*, Report and Order, FCC 01-177, RM-9649 (2001), ¶ 25 ("*CSAT Report & Order*").

[19] In addition, in the FCC Form 312 Schedule B, Alaska Communications Internet updates the Site ID (Schedule B, E1) for the previously licensed remote sites.

megahertz wide carrier that saturates Transponder 07C. In order to put this plan into effect, all remote sites must be authorized to receive the Transponder 07C downlink frequencies in the range of 3944-4016 MHz.

D. Frequency Coordination

Alaska Communications Internet engaged Micronet Communications, Inc. ("Micronet") to perform frequency coordination in support of the *ACI Modification Application*, which was completed on June 22, 2018. Pursuant to Sections 25.115(c)(2)(ii) and 25.203 of the Commission's rules, 47 C.F.R. §§ 25.115(c)(2)(ii) and 25.203, Micronet has conducted a coordination analysis on behalf of Alaska Communications Internet that considers all existing, proposed, and prior coordinated microwave facilities within the contours of the proposed earth stations at the Kuspuk School District sites. Moreover, Micronet has fully coordinated the Transponder 07C frequencies at the Dimond D hub, as well as the new Transponder 07C receive frequencies at the five existing remote sites.

As demonstrated in the *ACI Modification Application* frequency coordination reports, there is no potential for interference into other users of the C-band spectrum sought herein by Alaska Communications Internet. First, Alaska Communications Internet's proposed operations at the Dimond D hub in Transponder 07C frequencies in the 3944-4016 MHz (space-to-Earth) and 6169-6241 MHz (Earth-to-space) bands are fully compatible with other FCC-licensed operations in the band.

Second, as noted, at each Kuspuk School District site, Alaska Communication Internet plans to receive in Transponder 07C frequencies from the 3944-4016 MHz (space-to-Earth). Depending on certain site-specific frequency limitations, Alaska Communications Internet will

either transmit in the 5929-6001 MHz band (Transponder 01C)[20] or the 6189.565-6237.565 MHz band (Transponder 08C).[21] Transponder 08C was selected specifically to support three Kuspuk School District sites – *GMHS, JOGES* and *ZLES* (the "Kalskag Sites") – because Micronet was unable to clear any available spectrum on Transponder 01C. Such site-specific spectrum limitations illustrate the need for operational flexibility to permit use of the additional 72 megahertz frequency range from 6169-6241 MHz (Earth-to-space, across two transponders), as well as the corresponding downlink frequencies, on EUTELSAT 115WB.

Micronet received no objections in response to its Prior Coordination Notices, and Alaska Communications Internet currently operates its network with no reported cases of interference. Alaska Communications Internet will coordinate any additional hub or remote operations prior to bringing them into use as part of the C-band VSAT network.

III. STA Request & Public Interest Considerations

Alaska Communications Internet respectfully requests this 60-day STA pursuant to Section 25.120 of the Commission's rules, 47 C.F.R. § 25.120. Section 25.120(b)(3) states that the Commission may grant a temporary authorization for up to 60 days if the STA request has not been placed on Public Notice and the applicant plans to file a request for regular authority for the service. As noted, the *ACI Modification Application* has already been filed with the Commission and the Public Notice period for the application ended on August 17, 2018. Based

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[20] To prevent interference to nearby terrestrial microwave operations, Alaska Communications Internet will limit its transmit operations to the 5960.2-6001 MHz band at the *Aniak DO*, *JSHS*, *CVSS* and *AMNES* sites.

[21] The Transponder 08C frequencies are within the Transponder 07C transmit frequency range, such that the use of Transponder 08C does not result in any additional frequency bandwidth being used by the network, and enabling Alaska Communications Internet to limit its Section 25.116(c)(2)(i)(B) waiver request to the 144 megahertz total. Transponder 08C operates on the opposite polarity to Transponder 07C, enabling re-use of those frequencies for the return link at the Kalskag Sites.

on consultation with Commission staff, ongoing coordination between the IB and the WTB has necessitated this STA extension request to ensure Alaska Communications Internet has appropriate authority during the Commission's ongoing review of the *ACI Modification Application*. Pursuant to Commission rules and precedent, Alaska Communications Internet understands that this timely filed request will effectively extend its current temporary authority until the Commission acts on the instant application, affording sufficient time for coordination between the IB and the WTB.[22]

Grant of this 60-day STA will strongly serve the public interest by allowing Alaska Communications Internet to continue providing broadband services to multiple Kuspuk School District elementary and secondary schools, as well as the district office, in remote Alaskan bush communities, helping to improve educational opportunities by providing advanced satellite connectivity that will support access to educational resources, research materials, distance learning, and cloud-based record storage and other services. The proposed operations will also greatly advance the public interest goals of E-rate, as mandated by Sections 254(h)(1)(B) and 254(h)(2)(A) of the Communications Act, 47 U.S.C. §§ 254(h)(1)(B), (h)(2)(A) and numerous Commission orders.[23] The educational resource and distance learning opportunities supported by

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[22] *See* 47 C.F.R. §§ 25.120 & 25.163(b); Administrative Procedure Act § 9(b). *See also* 47 C.F.R. §1.955(b); *In the Matter of Marc D. Sobel Application for Consent to Assign the License for Conventional 800 MHz SMR Station KKT934, Montrose, California*, Memorandum Opinion & Order, FCC 05-90, ¶¶ 2 & 6. Please note that although in the ordinary course a request for extension of temporary authority must be received by the Commission at least 3 working days prior to the expiration date of the existing temporary authorization (*see* 47 C.F.R. 25.120(a)), the Commission's *Lapse in Funding Public Notice* (DA 19-10) has granted an automatic extension of the filing deadline to the day after the resumption of normal FCC operations.

[23] *E.g., E-rate Modernization Order*, at ¶ 2 ("High-speed broadband, to and within schools, connects students to cutting-edge learning tools in the areas of science, technology, engineering and math (STEM) education, necessary for preparing them to compete in the

E-rate are particularly important in the Alaska bush, where schools in small communities have limited resources and may struggle to reach the 10-student enrollment minimum to qualify for state education funding.[24] (Indeed, the Kuspuk School District schools covered by this STA request and the *ACI Modification Application* serve between 15 and 94 students each.[25])

Disproportionately, bush villages in Alaska are home to vulnerable communities of Alaska Natives, for whom the enhanced educational opportunities offered by broadband are particularly critical. By directly supporting the Kuspuk School District, Alaska Communications Internet is helping to enhance regional well-being and promote educational programs for students and teachers. Moreover, permitting additional transponder capacity on EUTELSAT 115WB (144 megahertz total for uplink and downlink) will allow Alaska Communications Internet to be

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global economy. High-speed broadband also creates opportunities for customized learning, by giving our students and their teachers access to interactive content, and to assessments and analytics that provide students, their teachers, and their parents real-time information about student performance while allowing for seamless engagement between home and school. Finally, high-speed broadband expands the reach of our schools and creates opportunities for collaborative distance learning, providing all students access to expert instruction, no matter how small the school they attend or how far they live from experts in their field of study."), ¶ 4 ("[W]e recognize the critical role the E-rate program plays in the lives of our students and communities and the importance of ensuring that the program supports sufficient, equitable, and predictable support for high-speed connectivity to and within schools and libraries. It is a crucial part of the Commission's broader mandate to further broadband deployment and adoption across our nation.").

[24] *See, e.g.,* Tegan Hanlon, "Two Small Schools in Southeast Alaska Shut Their Doors," Anchorage Daily News (Sept. 15, 2016) (reporting that public schools in Port Protection and Tenakee Springs, Alaska had failed to reach the 10-student minimum and would close, having exhausted savings that kept the schools open after enrollment declined, and observing that, "[e]ach year, two to three schools typically close in Alaska"), *available at:* https://www.adn.com/alaska-news/education/2016/09/14/two-small-alaska-schools-shut-their-doors/; Michelle Theriault Boots, "The Last Kid in Cold Bay," Anchorage Daily News (Aug. 8, 2015) (reporting school closure), *available at:* https://www.adn.com/features/alaska-news/rural-alaska/2016/12/22/the-last-kid-in-cold-bay/.

[25] Alaska Department of Education and Early Development, Public Schools Database, *available at:* https://education.alaska.gov/DOE_Rolodex/SchoolCalendar/Home/SchoolsList?districtId=29

able to properly scale and offer the most reliable connectivity solutions to the Kuspuk School District facilities.

IV. Conclusion

Based on the foregoing, the public interest would be served by a grant of Commission authority to Alaska Communications Internet to continue to operate ten (10) additional remote sites as part of its C-band VSAT network in Alaska, and operate the previously licensed hub and remote sites with updated operating parameters, for a period of 60 days commencing on January 30, 2019.

Approved by OMB
3060-0678

Date & Time Filed: Jun 26 2018 7:27:38:936PM
File Number: SES-MOD-INTR2018-03253

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

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Modification to Add Additional VSAT Network Sites

1-8. Legal Name of Applicant

Name:	Alaska Communications Internet, LLC	Phone Number:	907-297-3000
DBA Name:		Fax Number:	907-297-3153
Street:	600 Telephone Avenue MS #60	E-Mail:	Lisa.Phillips@acsalaska.com
City:	Anchorage	State:	AK
Country:	USA	Zipcode:	90503 -
Attention:	Ms. Lisa Phillips		

9-16. Name of Contact Representative

Name:	Richard Cameron	Phone Number:	2022304962
Company:	LMI Advisors	Fax Number:	
Street:	2550 M Street NW Suite 343	E-Mail:	rcameron@lmiadvisors.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20037-
Attention:	Mr. Richard Cameron	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):

17d.
Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station

18. If this filing is in reference to an existing station, enter:
(a) Call sign of station:
E170205

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:
(a) Date pending application was filed:
(b) File number:
SESMOD2018041300352

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 providng 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 explination 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 explination 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 attemptiing 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 exhinit, 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. *See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.*	◉ 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 **Technical Appendix**
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). Modification to add 10 new sites to the C-band VSAT Network and update other operating parameters.Legal Narrative	
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	46. Title of Person Signing
Rick Benken	VP

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:	ANIAK DO	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Aniak District Office	E7. City:	Aniak
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99557
E10. Area of Operation:		Aniak, AK	
E11. Latitude:	61 ° 34 ' 55.6 " N		
E12. Longitude:	159 ° 32 ' 18.3 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		11.34 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: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: ANIAK DO	
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)
ANIAK DO	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
ANIAK DO	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.34	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0

E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	130.8	10.95	132.79	11.68	0.0
	Geostationary	5960.2 6001	114.0/116.0	130.8	10.95	132.79	11.68	-23.23

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		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:	JSHS	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Junior Senior High School	E7. City:	Aniak
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99557
E10. Area of Operation:		Aniak, AK	
E11. Latitude:	61 ° 34 ' 48.3 " N		
E12. Longitude:	159 ° 33 ' 6.7 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		11.34 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: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: JSHS	
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)
JSHS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
JSHS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.34	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3044 4016	114.0/116.0	130.78	10.95	132.77	11.68	0.0
	Geostationary	5960.2 6001	114.0/116.0	130.78	10.95	132.77	11.68	-17.96

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:	AMNES	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Auntie Mary Nicoli Elementary School	E7. City:	Aniak
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99557
E10. Area of Operation:		Aniak, AK	
E11. Latitude:	61 ° 34 ' 49.0 " N		
E12. Longitude:	159 ° 31 ' 51.7 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		11.34 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: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: AMNES	
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)
AMNES	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
AMNES	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.34	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	130.8	10.95	132.79	11.68	0.0
	Geostationary	5960.2 6001	114.0/116.0	130.8	10.95	132.79	11.68	-17.97

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	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:	CVSS	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	Crown Village Sam School	E7. City:	Chuathbaluk
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99607
E10. Area of Operation:		Chuathbaluk, AK	
E11. Latitude:	61 ° 34 ' 23.7 " N		
E12. Longitude:	159 ° 14 ' 57.8 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		11.45 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: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: CVSS	
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)
CVSS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
CVSS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.45	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5960.2 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	131.08	11.06	133.07	11.79	0.0

	Geostationary	5960.2 6001	114.0/116.0	131.08	11.06	133.07	11.79	-18.07

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	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:	JESS	E5. Call Sign:		
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364	
E3. Street:	Jack Egnaty Senior School	E7. City:	Sleetmute	
		E8. County:	Bethel Census Area	
E4. State	AK	E9. Zip Code	99668	
E10. Area of Operation:		Sleetmute, AK		
E11. Latitude:	61 ° 42 ' 9.7 " N			
E12. Longitude:	157 ° 10 ' 14.9 " W			
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83	○ N/A
E14. Site Elevation (AMSL):		12.1 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: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: JESS	
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)
JESS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
JESS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

E28. Antenna	E33/34. Diameter Minor/Major(meters)	E35. Above Ground	E36. Above Sea	E37. Building Height Above	E38. Total Input Power	E39. Maximum Antenna Height	E40. Total EIRP for al

Id		Level(meters)	Level(meters)	Ground Level(meters)	at antenna flange(Watts)	Above Rooftop(meters)	carriers(dBW)
VSAT 2	0.0/0.0	3.0	12.1	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	133.19	11.73	135.2	12.43	0.0
	Geostationary	5929 6001	114.0/116.0	133.19	11.73	135.2	12.43	-18.67

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			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:	JJSS	E5. Call Sign:		
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364	
E3. Street:	Johnnie John Sr School	E7. City:	Crooked Creek	
		E8. County:	Bethel Census Area	
E4. State		E9. Zip Code	99575	
E10. Area of Operation:		Crooked Creek, AK		
E11. Latitude:	61 ° 51 ' 48.6 " N			
E12. Longitude:	158 ° 8 ' 18.2 " W			
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83	○ N/A
E14. Site Elevation (AMSL):		11.64 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: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: JJSS	
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)
JJSS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
JJSS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.64	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)

VSAT 2	Geostationary	3944 4016	114.0/116.0	132.26	11.27	134.26	11.98	0.0
	Geostationary	5929 6001	114.0/116.0	132.26	11.27	134.26	11.98	-18.25

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	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:	GMSHS	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Gusty Michael School	E7. City:	Stoney River
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99557
E10. Area of Operation:		Stoney River, AK	
E11. Latitude:	61 ° 47 ' 13.6 " N		
E12. Longitude:	156 ° 35 ' 17.7 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		12.24 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: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: GMSHS	
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)
GMSHS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
GMSHS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	12.24	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	5929 6001	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	133.79	11.87	135.81	12.57	0.0
	Geostationary	5929 6001	114.0/116.0	133.79	11.87	135.81	12.57	-18.79

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			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:	GMHS	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	George Morgan Senior High School	E7. City:	Kalskag
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99607
E10. Area of Operation:		Kalskag, AK	
E11. Latitude:	61 ° 31 ' 57.9 " N		
E12. Longitude:	160 ° 20 ' 50.0 " W		

E13. Lat/Lon Coordinates are:	○ NAD-27	◉ NAD-83	○ N/A
E14. Site Elevation (AMSL):	11.07 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: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: GMHS	
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)
GMHS	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
GMHS	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.07	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
~~VSAT 2~~	~~Geostationary~~	~~3944 4016~~	~~114.0/116.0~~	129.99	10.68	131.97	11.42	~~0.0~~
	Geostationary	6189.565 6237.565	114.0/116.0	129.99	10.68	131.97	11.42	-17.7

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:	JOGES	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Joseph & OlingaGregory Elementary School	E7. City:	Kalskag
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99607
E10. Area of Operation:		Kalskag, AK	
E11. Latitude:	61 ° 32 ' 41.9 " N		
E12. Longitude:	160 ° 19 ' 3.7 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		11.08 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: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: JOGES	

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)
JOGES	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
JOGES	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.08	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	130.02	10.68	132.0	11.42	0.0
	Geostationary	6189.565 6237.565	114.0/116.0	130.02	10.68	132.0	11.42	-17.71

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		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:	ZLES	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550–8364
E3. Street:	Zackar Levi Elementary School	E7. City:	Kalskag
		E8. County:	Bethel Census Area
E4. State	AK	E9. Zip Code	99607
E10. Area of Operation:		Kalskag, AK	
E11. Latitude:	61 ° 30 ' 43.6 " N		
E12. Longitude:	160 ° 21 ' 41.5 " W		
E13. Lat/Lon Coordinates are:		○NAD-27	◉NAD-83 ○N/A
E14. Site Elevation (AMSL):		11.08 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: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: ZLES	
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)
ZLES	VSAT 2	1	Prodelin	1244	2.4	37.6 dBi at 3.7400
ZLES	VSAT 2	1	Prodelin	1244	2.4	41.6 dBi at 5.9650

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)
VSAT 2	0.0/0.0	3.0	11.08	0.0	10.8	0.0	52.5

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
E50. Modulation and Services Digital						

VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	1M20G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	2M80G7W	52.5	21.1
E50. Modulation and Services Digital						
VSAT 2	6189.565 6237.565	T	Horizontal and Vertical	5M60G7W	52.5	21.1
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	129.97	10.69	131.95	11.43	0.0
	Geostationary	6189.565 6237.565	114.0/116.0	129.97	10.69	131.95	11.43	-17.71

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		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:	HUB	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	8500 Dimond D Circle	E7. City:	Anchorage
		E8. County:	Anchorage
E4. State	AK	E9. Zip Code	99515
E10. Area of Operation:		Anchorage, AK	
E11. Latitude:	61 ° 8 ' 28.4 " N		
E12. Longitude:	149 ° 52 ' 30.7 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		41.0 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	○ Yes ◉ No

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: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: HUB	
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)
HUB	HUB	1	General Dynamics	1383	3.8	41.6 dBi at 3.7400
HUB	HUB	1	General Dynamics	1383	3.8	45.6 dBi at 5.9650

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	0.0/0.0	4.0	41.0	0.0	267.0	0.0	58.4

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	3944 4016	R	Horizontal and Vertical	1M20G7W	0.0	0.0
E50. Modulation and Services Digital						
HUB	3944 4016	R	Horizontal and Vertical	2M80G7W	0.0	0.0
E50. Modulation and Services Digital						
HUB	3944 4016	R	Horizontal and Vertical	5M60G7W	0.0	0.0
E50. Modulation and Services Digital						
HUB	6169 6241	T	Horizontal and Vertical	3M00G7W	58.4	30.1
E50. Modulation and Services Digital						
HUB	6169 6241	T	Horizontal and Vertical	72M0G7W	58.4	28.0
E50. Modulation and Services Digital						
HUB	6169 6241	T	Horizontal and Vertical	7M00G7W	58.4	26.4
E50. Modulation and Services Digital						
HUB	6169 6241	T	Horizontal and Vertical	9M50G7W	58.4	24.6
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)
HUB	Geostationary	3944 4016	114.0/116.0	140.45	14.62	142.53	15.25	0.0
	Geostationary	6169 6241	114.0/116.0	140.45	14.62	142.53	15.25	-15.94

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			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:	ST PAUL	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	100 Harbor View Drive	E7. City:	St. Paul
		E8. County:	St. Paul
E4. State	AK	E9. Zip Code	99660
E10. Area of Operation:		St. Paul, AK	
E11. Latitude:	57 ° 7 ' 23.0 " N		
E12. Longitude:	170 ° 16 ' 45.0 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		8.0 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: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)
ST PAUL	VSAT 1	1	General Dynamics	1383	3.8	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)
VSAT 1	0.0/0.0	2.0	8.0	0.0	1.9	0.0	47.9

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)
VSAT 1	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0

E50. Modulation and Services Digital						
VSAT 1	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 1	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 1	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
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)
VSAT 1	Geostationary	3944 4016	114.0/116.0	119.3	9.0	120.2	9.4	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			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:	TEST SITE	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	600 Telephone Ave	E7. City:	Anchorage
		E8. County:	Anchorage
E4. State		E9. Zip Code	99515
E10. Area of Operation:		Anchorage, AK	
E11. Latitude:	61 ° 11 ' 10.5 " N		
E12. Longitude:	149 ° 52 ' 15.6 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		35.0 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: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)
TEST SITE	VSAT 2	1	Prodelin	1244	2.4	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)
VSAT 2	0.0/0.0	9.0	35.0	0.0	9.33	0.0	51.2

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	140.5	14.6	141.5	14.9	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	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:	EX INLET	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	Excursion Inlet	E7. City:	Excursion Inlet

		E8. County:	Haines Borough	
E4. State	AK	E9. Zip Code	99827	
E10. Area of Operation:		Excursion Inlet, Alaska		
E11. Latitude:	58 ° 24 ' 55.3 " N			
E12. Longitude:	135 ° 26 ' 36.4 " W			
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83	○ N/A
E14. Site Elevation (AMSL):		10.36 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: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)
EX INLET	VSAT 2	1	Prodelin	1244	2.4	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)
VSAT 2	0.0/0.0	3.0	10.36	0.0	12.0	0.0	51.3

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
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	E57. Antenna Elevation Angle	E58. Earth Station Azimuth Angle	E59. Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)

				Eastern Limit	Eastern Limit	Western Limit	Western Limit	
VSAT 2	Geostationary	3944 4016	114.0/116.0	155.25	21.08	156.37	21.31	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	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:	ALITAK	E5. Call Sign:		
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364	
E3. Street:	Alitak	E7. City:	Alitak	
	Alitak	E8. County:	Kodiak Island	
E4. State	AK	E9. Zip Code	99615	
E10. Area of Operation:		Cape Alitak, Alaska		
E11. Latitude:	56 ° 53 ' 52.2 " N			
E12. Longitude:	154 ° 14 ' 43.0 " W			
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83	○ N/A
E14. Site Elevation (AMSL):		15.24 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: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)
ALITAK	VSAT 2	1	Prodelin	1244	2.4	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)
VSAT 2	0.0/0.0	3.0	15.24	0.0	12.0	0.0	52.0

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	134.7	16.31	135.72	16.71	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			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:	NAKNEK	E5. Call Sign:	
E2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364
E3. Street:	Naknek	E7. City:	Naknek
		E8. County:	Bristol Bay Borough
E4. State	AK	E9. Zip Code	99633
E10. Area of Operation:		Naknek, AK	
E11. Latitude:	58 ° 43 ' 43.7 " N		
E12. Longitude:	157 ° 0 ' 0.9 " W		
E13. Lat/Lon Coordinates are:		○ NAD-27	◉ NAD-83 ○ N/A
E14. Site Elevation (AMSL):		4.88 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: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)
NAKNEK	VSAT 2	1	Prodelin	1244	2.4	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)
VSAT 2	0.0/0.0	3.0	4.88	0.0	12.0	0.0	52.1

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)
VSAT 2	3944 4016	R	Horizontal and Vertical	3M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	7M00G7W	0.0	0.0
E50. Modulation and Services Digital						
VSAT 2	3944 4016	R	Horizontal and Vertical	9M50G7W	0.0	0.0
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)
VSAT 2	Geostationary	3944 4016	114.0/116.0	132.51	13.88	133.51	14.28	0.0

REMOTE CONTROL POINT LOCATION

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

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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