IB2019000303		
SES-STA-20190211-00110	munications Internet, LLC	
E170205	Alaska Com	

Approved by OMB 3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

AFFLICANT INFO 60-day STA (Silver 1. Applicant				
Name:	Alaska Communications Internet, LLC	Phone Number:	907-297-3000	
DBA Nan	ne:	Fax Number:	907-297-3153	
Street:	600 Telephone Avenue	E-Mail:	Lisa.Phillips@acsalaska.com	
	09# SW			
City:	Anchorage	State:	AK	
Country:	USA	Zipcode:	90503 -	
Attention	: Ms. Lisa Phillips			



Applicant: Alaska Communications Internet LLC Call Sign: E170205 File No.: SES-STA-20190211-00110 Special Temporary Authority (STA)

Alaska Communications Internet, LLC is granted special temporary authority, for 60-days beginning February 22, 2019 to operate a 3.8 meter earth station located at Silver Bay False Pass, AK (54°51'54.00"N 163°24'42.20"W) with the EUTELSAT115WB(S2938) at 114.9° W.L. in the 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands under the following conditions:

- 1. All operations shall be on an unprotected and non-harmful interference basis, Alaska Communications Internet LLC, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and must inform the Commission, in writing, immediately of such an event.
- 2. The licensee shall, always, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 3. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending FCC IBFS File No.: SES-MOD-20180626-01472 or future Alaska Communications Internet LLC 's applications.
- 4. Any action taken, or expense incurred as a result of operations pursuant to this STA is solely at Alaska Communications Internet LLC 's risk.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.

COMMUN	File # SES-57A - 20190211-00110
	Call Sign <u>E170205</u> Grant Date <u>2/21/2019</u>
COMMISSON	(or other identifier) Term Dates
GRANTED	From: 2/20/9 To: 4/23 /2019
International Bureau	Approved: Mult Make

Name:	Richard Cameron	Phone Number:	2022304962
Company:	LMI Advisors	Fax Number:	
Street:	2550 M Street. MW	g-Mail:	rcameron@Imiadvisors.com
	Suite 319		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20037 -
Attention:	I	Relationship:	Other
(If your application is r application. Please ente 3. Reference File Num	elated to an application filed with the Correct only one.)	ommission, enter either the fil ssion ID	le number or the IB Submission ID of the related
4a. Is a fee submitte If Yes, complete an	ed with this application? Id attach FCC Form 159. If No, indical	te reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).
O Governmental Enti O Other(please expla	ity <b>O</b> Noncommercial educational lic in):	censee	
4b. Fee Classification	CGX - Fixed Satellite Transmit/Receiv	ve Earth Station	
5. Type Request			
Use Prior to Grant	O Change Si	tation Location	O Other
6. Requested Use Prior 02/14/2019	Date		
7. CitySilver Bay False	e Pass	8. Latitude (dd mm ss.s h) 54	F 51 54.0 N

9. State AK	10. Longitude (dd mm ss.s h) 163 24 42.2 W
<ol> <li>Please supply any need attachments.</li> <li>Attachment 1: Narrative</li> <li>Attachment 2: Technic</li> </ol>	cal Appendix Attachment 3:
12. Description. (If the complete description does not appear in this b 60-day STA for operations at Silver Bay False	ox, please go to the end of the form to view it in its entirety.) e Pass.
13. By checking Yes, the undersigned certifies that neither applicant no subject to a denial of Federal benefits that includes FCC benefits pursu of 1988, 21 U.S.C. Section 862, because of a conviction for possession See 47 CFR 1.2002(b) for the meaning of "party to the applicatic	or any other party to the application is Area Yes Notant to Section 5301 of the Anti–Drug Act or distribution of a controlled substance.
14. Name of Person Signing Rick Benken	15. Title of Person Signing VP
WILLFUL FALSE STATEMENTS MADE ON THIS FORM (U.S. Code, Title 18, Section 1001), AND/OR REV (U.S. Code, Title 47, Section 312(a)(1)), AND/OF	I ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT VOCATION OF ANY STATION AUTHORIZATION R FORFEITURE (U.S. Code, Title 47, Section 503).

ξ

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### Before the FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

In the Matter of

Application of Alaska Communications Internet LLC for 60-Day Special Temporary Authorization ("STA")

) Call Sign: E170205 File No. SES-STA-

### **APPLICATION FOR SPECIAL TEMPORARY AUTHORIZATION**

Pursuant to Section 25.120 of the rules of the Federal Communications Commission (the "FCC" or "Commission"),<sup>1</sup> Alaska Communications Internet LLC ("Alaska Communications" Internet") respectfully seeks a 60-day special temporary authorization ("STA"), commencing on Thursday, February 14, 2019, to operate one remote earth station site, to be located at False Pass, Alaska, on Unimak Island in the Aleutian chain. The new site will communicate with the C-band network hub operated by Alaska Communications Internet as part of its existing C-band very small aperture terminal ("VSAT") network, Call Sign E170205.<sup>2</sup>

Alaska Communications Internet anticipates filing an application for regular authority to operate this site as part of the network licensed under its existing ACI Network License in the very near term. Alaska Communications Internet seeks this STA to permit immediate provisioning of critical broadband satellite communications services to this location, while that application is under the Commission's consideration. Consistent with the ACI Network License, Alaska Communications Internet seeks to operate this new site in portions on the C-band at fixed locations in Alaska while communicating with the EUTELSAT 115WB satellite located at the 114.9° W.L. orbital position.

See 47 C.F.R. § 25.120.

See 47 C.F.R. § 25.115(c)(2); Alaska Communications Internet LLC, File No. SES-LIC-20171116-01257, Call Sign E170205, and subsequent modification and amendment applications ("ACI Network License").

Grant of this STA request will serve the public interest because it will enable Alaska Communications Internet to deliver critically needed broadband services to support Silver Bay Seafood, LLC ("Silver Bay Seafood"), an integrated processor of frozen salmon, herring and squid products for U.S. domestic and export markets, and the Alaska bush community surrounding its False Pass processing plant.<sup>3</sup> As one of the largest seafood companies in Alaska, Silver Bay Seafood needs reliable broadband services to support its operations, management and personnel, manage logistics, coordinate shipments, establish a solid fish buying system, and keep its employees on Unimak Island connected to their families and the larger world.

### 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.<sup>4</sup> 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

<sup>&</sup>lt;sup>3</sup> 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, nor are they 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.

<sup>&</sup>lt;sup>4</sup> 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).

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"),<sup>5</sup> providing broadband connectivity that supports the local fishing and seafood industries, as well as a test site located in Anchorage, Alaska. Alaska Communications Internet has also sought authorization to extend its network to deliver broadband telecommunications and Internet services to ten primary and secondary school locations in additional Alaska bush communities.<sup>6</sup> This STA will enable Alaska Communications Internet to extend this network to provide broadband and internet connectivity on the Aleutian Island chain.

Alaska Communications Internet incorporates by reference (and attaches as an Exhibit to this STA) a *pro forma* FCC Form 312 Schedule B and Technical Appendix showing the details of its proposed earth station operations at the False Pass site. Those documents provide relevant information relating to the earth station operating parameters, performance information and radiation hazard analyses.

### II. Discussion

This STA requests seeks authority to operate one remote earth station site at False Pass, Alaska, which will communicate with the C-band network hub operated by Alaska Communications Internet under the *ACI Network License* via the EUTELSAT 115WB satellite in portions of the C-band.

<sup>&</sup>lt;sup>5</sup> 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 <u>http://www.bbedc.com</u>.* 

<sup>&</sup>lt;sup>6</sup> See Alaska Communications Internet, LLC, File No. SES-MOD-20180626-01472, Call Sign E170205 ("ACI Kuspuk Modification Application").

### A. New Site Location

The False Pass site is located the Aleutians East Borough on Unimak Island (geographic coordinates: 54°51'54.00"N 163°24'42.20"W). There, Alaska Communications Internet proposes to operate a 3.8m Prodelin Model 2385 (the "3.8m") earth station. The Prodelin 2385 is, in all material respects, electrically identical to the Prodelin 1383, a model that the Commission has licensed for two other sites in the ACI Network License, and which appears on the Commission's Approved Non-Routine Earth Station Antennas List ("Non-Routine Antenna List").<sup>7</sup> The Prodelin 2385 includes a stronger, reinforced support structure than that supplied with the Prodelin 1383, which is necessary to withstand the high winds and inclement weather that Unimak Island frequently experiences. Although the Prodelin 2385 earth station (like the Prodelin 1383) does not comply with the gain mask in Section 25.209 of the Commission's rules, Alaska Communications Internet demonstrates in the attached 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.8 Alaska Communications Internet will 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.<sup>9</sup>

The earth station will be mounted on a pole in an area inaccessible to the general public. Its planned location is not among any "districts, sites, buildings, structures or objects, significant

<sup>&</sup>lt;sup>7</sup> See Approved Non-Routine Earth Station Antennas, <u>https://www.fcc.gov/approved-non-routine-earth-station-antennas</u>.

<sup>&</sup>lt;sup>8</sup> See 47 C.F.R. § 25.218(d).

<sup>&</sup>lt;sup>9</sup> See ACI Network License (Dimond D and St. Paul Island sites); RCN License Subsidiary, Inc., SES-LIC-20050114-00077, Call Sign E050016 (Max EIRP density 45.4 dBW/4kHz); Intelsat LLC, File No. SES-LIC-20110627-00745, Call Sign E110100 (Max EIRP density 31.9 dBW/4kHz); Public Broadcasting of Colorado, Inc., SES-MOD-20060608-00951, Call Sign E030163 (Max EIRP density 43.2 dBW/4kHz); Harris Corporation, File No. SES-LIC-20060302-00342, Call Sign E060075.

in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places,"<sup>10</sup> and thus falls within the exemptions of Section 1.1306(a)-(b) and Note 1 to that rule.<sup>11</sup> Accordingly, no 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.<sup>12</sup>

### **B.** 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 January 5, 2019. Pursuant to Sections 25.115(c)(2)(ii) and 25.203 of the Commission's rules,<sup>13</sup> 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 Silver Bay False Pass site.

As demonstrated in the attached frequency coordination report, as coordinated and limited, there is no potential for interference into other users of the C-band spectrum sought herein by Alaska Communications Internet. Moreover, 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.

<sup>&</sup>lt;sup>10</sup> 47 C.F.R. § 1.1307(a)(4).

<sup>&</sup>lt;sup>11</sup> 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, 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.").

<sup>&</sup>lt;sup>12</sup> See 47 C.F.R. § 1.1306.

<sup>&</sup>lt;sup>13</sup> See 47 C.F.R. §§ 25.115(c)(2)(ii) and 25.203.

### C. The C-Band Temporary Freeze Public Notice

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.<sup>14</sup> 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. Furthermore, grant of this STA Application will strongly serve the public interest by enabling the delivery of critically needed broadband telecommunications and Internet access services in the Alaska bush, where terrestrial connectivity is mostly unavailable.

In conjunction with its forthcoming request for regular authority to operate the False Pass site as part of the network licensed under its existing *ACI Network License*, Alaska Communications Internet intends to seek a waiver, to the extent required, of the *Temporary Freeze Public Notice*. As discussed below, grant of that waiver request, when filed, would enable Alaska Communications Internet to expand its delivery of reliable and effective broadband services to an additional remote location, namely the Silver Bay Seafood processing plant and nearby residents of False Pass.

The Commission may waive its rules for "good cause shown."<sup>15</sup> Specifically, the Commission may waive its rules where the particular facts make strict compliance inconsistent

<sup>&</sup>lt;sup>14</sup> 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).

<sup>&</sup>lt;sup>15</sup> See 47 C.F.R. § 1.3. WAIT Radio v. FCC, 418 F.2d 1153, 1157 (D.C. Cir. 1969).

with the public interest.<sup>16</sup> In addition, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.<sup>17</sup> Waiver is appropriate if special circumstances warrant a deviation from the general rule, and such deviation would better serve the public interest than strict adherence to the general rule.<sup>18</sup> The request below amply meets that standard.

The Commission has released a 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.<sup>19</sup> The Temporary Freeze Public Notice contains an exception stating that "entities that own or operate existing FSS earth stations in the 3.7-4.2 GHz band [...] may file an application to modify a current registration or license" during the freeze period.<sup>20</sup>

Although Alaska Communications Internet operates existing FSS earth stations in the Cband under the *ACI Network License*, because the earth station proposed proposed for the False Pass site is not currently "constructed and operational"<sup>21</sup> and because the forthcoming application for regular authority to operate it as part of its existing C-band network is being filed after the release of the Temporary Freeze Public Notice, Alaska Communications Internet

<sup>16</sup> Northeast Cellular Telephone Co. v. FCC, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("Northeast Cellular").
 <sup>17</sup> WAIT Radio v. FCC, 418 F.2d 1153, 1157, (D.C. Cir. 1969), affirmed by WAIT Radio v. FCC, 459

<sup>20</sup> Temporary Freeze Public Notice, at 1.

F.2d 1203 (D.C. Cir. 1972), cert. denied, 409 U.S. 1027 (1972).

<sup>&</sup>lt;sup>18</sup> Northeast Cellular, 897 F.2d at 1166.

<sup>&</sup>lt;sup>19</sup> 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).

<sup>&</sup>lt;sup>21</sup> Id.

intends to request a waiver of the *Temporary Freeze Public Notice*, to the extent required, consistent with precedent, to permit licensing of the operations to be proposed therein.

*First*, Alaska Communications Internet proposes to add a site for service to an Alaska bush seafood business and its employees, who collectively make up a large portion of the residents of False Pass. Grant of this STA and the forthcoming associated application would thus greatly advance the public interest goals of Commission to expand the availability of affordable broadband services and thereby provide enhanced economic growth and development opportunities for residents of the area.<sup>22</sup> Many remote bush villages in Alaska lack terrestrial communications infrastructure, making the opportunities offered by satellite broadband services particularly critical. Without a waiver, Alaska Communications Internet would be unable to serve this additional site and the economic benefits for the local business and residents would be lost to this community.

Second, applying the Temporary Freeze Public Notice to the Silver Bay site in False Pass would not serve the purpose of the freeze. The Commission imposed the freeze "to preserve the current landscape of authorized operations in the 3.7-4.2 GHz band pending Commission action as part of its ongoing inquiry into the possibility of permitting mobile broadband use and more intensive fixed use of the band,"<sup>23</sup> with particular focus on terrestrial "5G" mobile broadband service. The Silver Bay False Pass site is located in a remote area of the Alaska bush, and is not candidate for 5G deployment anytime in the foreseeable future. Today, mobile wireless service at this site is limited and the prohibitive cost of backhaul, coupled with the small size of the potential market in the area, makes additional terrestrial broadband deployment challenging. While terrestrial wireless use of this band and initial 5G deployments may occur in densely

<sup>&</sup>lt;sup>22</sup> See generally Connect America Fund, WC Docket No. 10-90, Report and Order and Further Notice of Proposed Rulemaking, FCC 11-161, 26 FCC Rcd 17663 (2011) ("Transformation Order").

<sup>&</sup>lt;sup>23</sup> Temporary Freeze Public Notice at 1.

populated urban areas far removed from the remote Alaskan bush communities served by Alaska Communications Internet, it is highly unlikely that grant of this application will hinder the Commission's analysis of additional mobile and fixed use of this band.<sup>24</sup>

*Third*, Alaska Communications Internet currently operates satellite earth stations at multiple locations in the Alaska bush with no reported cases of implementation constraints. There is no reason to expect a different result here. Alaska Communications Internet is also limiting its usage in the C-band as necessary to avoid any potential interference with other authorized spectrum users in the band, although these constraints have primarily arisen, if at all, in the 5.925-6.425 GHz uplink portion of the band. These operations were deemed compatible with terrestrial operations and entered into frequency coordination databases as of the date of the filing of this application. Thus, there is no potential for any adverse impact or other prejudice to terrestrial systems or services from grant of the requested waiver.

### III. Request for Special Temporary Authority and Public Interest Considerations

Section 25.120(a) provides that an STA request should be filed at least three business days prior to commence of proposed operations. Here, Alaska Communications Internet has timely filed this 60-day STA request so that the Commission may permit operations by February 14, 2019. Further, Alaska Communications Internet believes this application involves "extraordinary circumstances" (*i.e.*, the delivery of critical broadband services to the seafood industry to improve connectivity and efficiency of local businesses), and requests that the Commission authorize operations under this STA by that date.

Moreover, Section 25.120(b)(2) 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, Alaska

<sup>24</sup> Id.

Communications Internet anticipates filing its application to add the False Pass site to its C-band network license for the operations proposed herein. This interim authority during the pendency of Alaska Communications Internet's commercial license application is critical to ensure delivery of satellite services to the population of St. Paul, Alaska, which is unable to rely on other forms of communication for basic connectivity needs.

Grant of the requested 60-day STA will strongly serve the public interest by allowing Alaska Communications Internet to provide broadband services to an additional remote Alaskan community that must rely on this service for basic connectivity needs. Grant of the STA will allow Alaska Communications Internet to serve underserved communities in False Pass, and help improve the local economy, enhance economic opportunity and well-being of its residents, and bridge the digital divide. Users will have broadband Internet access, e-mail, voice and data services, greatly enhancing economic opportunities in these remote locations. Finally, grant of this application will also create an additional competitive alternative for customers in the Alaska Bush, an undeserved area with little competition to existing terrestrial microwave and satellite providers.

### IV. Conclusion

Based on the foregoing, the public interest would be served by a grant of this STA application authority to Alaska Communications Internet to operate one additional site as part of its C-band VSAT network in Alaska for a period of 60 days commencing on February 14, 2019.

# 60-Day Special Temporary Authorization Application Alaska Communications Internet LLC

## **Technical Appendix**

I. Frequency Coordination Report

II. Radiation Hazard Analysis

III. Draft FCC Form 312 Schedule B

### I. Frequency Coordination Report

### Micronet Communications, Inc.

720 F Avenue, Suite 100 Plano, Texas 75074 972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1833223 5.93 GHz Licensee: Alaska Communications Internet, LLC

Page 1

Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Silver Bay False Pas, AK

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

12/06/2018 Original PCN There were no unresolved interference objections.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

Respectfully Submitted,

Jeremy B. Lewis

Jeremy Lewis Systems Engineer

Attached: 1 data sheet

Micronet Communications, Inc. 720 F Avenue, Suite 100 Plano, Texas 75074 972-422-7200

File: M1833223

TECHNICAL CHARACTERISTIC	CS OF TRANS	MIT RECEIVE E	ARTH STATION
Company: Al Site Name, State: Si	laska Commun ilver Bay Fa	nications Int alse Pas, AK	ernet, LLC
Latitude Longitude Elevation AMSL Receive Frequency Range Transmit Frequency Range Range of Satellite Orbital Long.	(NAD83) (NAD83) (ft/m) (MHz) (MHz) (deg W)	54 51 163 24 11.00 3700-4200 5925-6425 114.00	54.0 N 42.2 W 3.35 116.00
Range of Azimuths from North Antenna Centerline Antenna Elevation Angles	(deg) (ft/m) (deg)	125.02 9.84 13.55	126.93 3.00 14.52
Equipment Parameters		Receive	Transmit
Antenna Gain, Main Beam 15 DB Half Beamwidth	(dbI) (deg)	42.00 1.40	46.20 1.30
Antennas Receive: PRODELIN Transmit: PRODELIN	3.8 METER 3.8M		
Max Transmitter Power Max EIRP Main Beam Modulation / Emission Designator	(dbW/4KHz) (dbW/4KHz) DIGITAL	2M80G7W 72M0	-17.08 29.12 DG7W
Coordination Parameters		Receive	Transmit
Max Greater Circle Distances Max Rain Scatter Distances Max Interference Power Long Term Max Interference Power Short Term Rain Zone / Radio Zone	( km) ( km) ( dbW) ( dbW)	448.34 374.45 -158.60 -149.90 3	158.44 100.00 -154.80 -130.80 A

### II. Radiation Hazard Analysis

ANALYSIS OF NON-IONIZING RADIATION for Alaska Communications Internet LLC Site: Silver Bay False Pas State: AK Latitude: 54 51 54.0 Longitude: 163 24 42.2 (NAD83) 01-25-2019

The Office of Science and Technology Bulletin, No. 65, October 1985 and revised August 1997, specifies that the maximum level of non-ionizing radiation that a person may be exposed to over a six minute period is an average power density equal to 5 mW/cm\*\*2 (five milliwatts per centimeter squared) for a controlled environment. For an uncontrolled environment, the maximum level of non-ionizing radiation that a person may be exposed to over a thirty minute period is an average power density equal to 1 mW/cm\*\*2 (one milliwatt per centimeter squared). It is the purpose of this report to determine the maximum power flux densities of the earth station in the far zone, near zone, transition zone, at the main reflector surface, and between the antenna edge and the ground.

Parameters which were used in the calculations:

Antenna Diameter, (D)	= 3.8000 m
Antenna Surface Area (Sa)	= pi(D**2)/4 = 11.3411 m**2
Wavelength at 6.1750 GHz (lambda)	= 0.0485 m
Transmit Power at Flange (P)	= 10.0000 Watts
Antenna Gain at Earth Site (GES)	= 46.2000 dBi = 41686.9383 Power Ratio: AntiLog(GES/10)
pi	= 3.1415927
Antenna Aperture Efficiency (n)	= 0.6000

1. FAR ZONE CALCULATIONS			
Distance to the Far Zone	(Df) =	(n) (D**2)  lambda	= 178.6392 m
Far Zone Power Density	(Rf) =	(GES)(P)  4*pi*(Df**2)	= 1.0395 W/m**2
			$= 0.1040 \text{ mW/cm}^{*2}$

# 2. NEAR ZONE CALCULATIONS

Power Flux Density is considered to be at a maximum value throughout the entire length of this Zone. The Zone is contained within a cylindrical volume which has the same diameter as the antenna. Beyond the Near Zone, the Power Flux Density will decrease with distance from the Antenna.

Distance to the Near Zone	(Dn) =	D**2 4*lambda	= 74.4330 m
Near Zone Power Density	(Rn) =	16.0(n)P  pi(D**2)	= 2.1162 W/m**2
			= 0.2116 mW/cm**2

### 3. TRANSITION ZONE CALCULATIONS

### \_\_\_\_\_

The Power Density begins to decrease with distance in the Transition Zone. While the Power Density decreases inversely with distance in the Transition Zone, the Power Density decreases inversely with the square of the distance in the Far Zone. Since the maximum Power Density in the Transition Zone will not exceed the Near Zone values, it is not calculated.

# 4. MAIN REFLECTOR ZONE

Main	Reflector	Power	Density	=	2(P)	-	1.7635	W/m**2
					Sa	=	0.1763	mW/cm**2

# 5. ZONE BETWEEN THE MAIN REFLECTOR AND THE GROUND

Applying uniform illumination of the Main Reflector Surface:

Main to Grou	nd Power Density	=	P	= 0.8817 W/m**2
			Sa	
				$= 0.0882 \text{ mW/cm}^{*2}$

### CALCULATED SAFETY MARGINS SUMMARY AND EVALUATION

с	ontrolled Safety Margin =	5.0 - Calculat	ed Zone Value (mW/cm**2)
	Zones	Safety Margins (mW/cm**2)	Conclusions
1.	Far Zone	4.8960	Complies with ANSI
2.	Near Zone	4.7884	Complies with ANSI
3.	Transition Zone	Rf < Rt < Rn	Complies with ANSI
4.	Main Reflector Surface	4.8237	Complies with ANSI
5.	Main Reflector to Ground	4.9118	Complies with ANSI

Uncontrolled Safety Margin = 1.0 - Calculated Zone Value (mW/cm\*\*2)

	Zones	Safety Margins (mW/cm**2)	Conclusions	
1.	Far Zone	0.8960	Complies with AN	ISI
2.	Near Zone	0.7884	Complies with AM	NSI
з.	Transition Zone	Rf < Rt < Rn	Complies with AN	ISI
4.	Main Reflector Surface	0.8237	Complies with AM	NSI
5.	Main Reflector to Ground	0.9118	Complies with AN	NSI

6. EVALUATION

\_\_\_\_\_

A. Controlled Environment

B. Uncontrolled Environment

All Zones comply with ANSI Standards.

Approved by OMB 3060-0678

# III. Draft FCC Form 312 Schedule B

Date & Time Filed: File Number: ---

FCC	APPLICATION FOR SPAC	CE AND EARTH STATIO	N:MOD OR A	AMD -
				FCC Use Only
APPLICA	FUE 312 MAIN FU	JRM FOR OFFICIAL USE ON		
Enter a de	scription of this application to	o identify it on the main me	enu:	
Modificati	on to Add a VSAT Network	Site		
1-8. Legal Mame	Name of Applicant	ernet IIC	Phone Number	907-297-3000
DBA		ernet, LLC		007 007 2152
Name:			Fax Number:	907-297-3155
Street:	600 Telephone Avenue		E-Mail:	Lisa.Phillips@acsalaska.com
	MS #60		0. /	A 12
City:	Anchorage		State:	AK
Country:	USA		Zipcode:	90503 -
Attention:	Ms Lisa Phillips			
9-16. Name	e of Contact Representative			
Name:	Richard Cameron	Phone Number:	2022	304962
Company:	LMI Advisors	Fax Number:		
Street:	2550 M Street NW	E-Mail:	rcam	eron@Imiadvisors.com
Citru	Suite 343	State	DC	
City:	wasnington	State.	DC	
Country:	USA	Zipcode:	2003	7-
Attention:	Mr. Richard Cameron	Relationship:	Othe	r
CLASSI	FICATION OF FILING			
17. Choose that applies and b. Choo for 17b. • a1. Ear	the button next to the classification to this filing for both questions a. ose only one for 17a and only one th Station	<ul> <li>(N/A) b1. Application for Licen.</li> <li>(N/A) b2. Application for Regis</li> <li>b3. Amendment to a Pendin</li> <li>b4. Modification of License</li> <li>b5. Assignment of License or Reference of License</li> </ul>	se of New Station tration of New Do g Application or Registration egistration	mestic Receive-Only Station
az. opa		57. Notification of Minor M	odification	
		(N/A) b8. Application for Licen (N/A) b9. Letter of Intent to Use (N/A) b10. Other (Please specif (N/A) b11. Application for Earth the Proposed Service in the Prop	se of New Receive e Non-U.S. License y) h Station to Access posed Frequencies	e-Only Station Using Non-U.S. Licensed Satellite ed Satellite to Provide Service in the United States s a Non-U.S.satellite Not Currently Authorized to Provide in the United States.
17c. Is a fe If Yes,	e submitted with this application? complete and attach FCC Form 159			
If No, indic Govern Other()	cate reason for fee exemption (see 4 nmental Entity	7 C.F.R.Section 1.1114). educational licensee		
17d.				
Fee Clas	sification CGX - Fixed Satel	lite Transmit/Receive Earth	Station	
18. If this station, en	filing is in reference to an existing ter:	19. If this filing is an amendme please enter only the file number	nt to a pending app er:	plication enter both fields, if this filing is a modification
(a) Call sig E170205	gn of station: 5	(a) Date pending application wa	as filed:	(b) File number:
				SESMOD2018062601472

TYPE OF	SERVICE
20. NATURE OF SERVICE: This filing is for an authorization to provide or us	e the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
C. Radiodetermination Satellite	
O. Earth Exploration Satellite	
f. Diritel Audio Padio Satellite	
a Other (please specify)	
g. Other (prease specify)	
21. STATUS: Choose the button next to the applicable status. Choose only	22. If earth station applicant, check all that apply.
One. Common Carrier • Non-Common Carrier	✓ Using Non-U.S. licensed satellites
23 If applicant is provided 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	vitched Network • N/A
24 EDEOUENCY DAND(S) Please (V) is the her (a) sent to all applicable	frequency hand(a)
124. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable $(1/2)$ a C Band ( $1/6$ GHz) $(1/2)$ b Ku-Band ( $1/2)$ GHz)	Irequency band(s).
C Other (Please specify upper and lower frequencies in MHz)	
Erequency Lower: Erequency Upper and lower requercies in write.)	ncies in an attachment)
TVDE OF	STATION
25 CLASS OF STATION: Choose the button next to the class of station that a	nnlies Choose only one
a Fixed Farth Station	prints. Choose only one.
A. Fixed Earth Station	
0. Temporary-Fixed Earth Station	
d Makila Earth Station	
d. Mobile Earth Station	
e. Geostationary Space Station	
1. 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 I	MODIFICATION
27. The purpose of this proposed modification is to: (Place an 'X' in the box(e	s) 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 & countri	es)
k authorization for facilities for which environmental assessment and	
radiation hazard reporting is required	
i autionization to change of on location	
$n \rightarrow authorization to extend milestones$	
o Other (Please specify)	
ENVIKUNME	
28. Would a Commission grant of any proposal in this application or amendm	ent have a significant environmental impact as
rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application A Radiati	on Hazard Study must accompany all
applications for new transmitting facilities, major modifications, or major am	endments.
ALIEN OW/NEDSHIP Forth station applicants not proposing	to provide broadcast common carrier aeronautical en route or

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.	

to the applicant, and	I the percentage of	stock they own or vote	3.
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B	A	SI	C	O	U.	A	LI	FI	CA	١	IC	)	٩S
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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 nad 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.	0	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.	0	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	0	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.	0	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 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 No	
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what ad is in the process of coordinating the space station? Mexico	mini	stratio	on has coordi	nated or
13. Description. (Summarize the nature of the application and the services to be provided). Modification to add a new s Network	site t	to th	e C-band V	/SAT
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.	۲	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.	0	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	0	С		

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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

	Choose the button next to applicable r	esponse.)		
Unincornorated As	sociation			
Partnership				
Corporation				
Governmental Enti	ty			
• Other (please speci	fy)			
5. Name of Person Sig	ning	46. Title of Pe	erson Signing	
Rick Benken	-	VP		
WILLFUL (	FALSE STATEMENTS MADE ON U.S. Code, Title 18, Section 1001), 4 (U.S. Code, Title 47, Section 312(a	THIS FORM ARE PUNISH AND/OR REVOCATION OF )(1)), AND/OR FORFEITURI	ABLE BY FINE AND / OR IMD ANY STATION AUTHORIZAT E (U.S. Code, Title 47, Section 50	PRISONMENT ION 33).
	SATELLITE EA	<b>RTH STATION AU</b>	THORIZATIONS	
	FCC Form 312 - Schedu	le B:(Technical and	<b>Operational Descripti</b>	on)
		``		
		OD ODDIGLAL LIGE OD	<b>11 1</b> /	
	F	OR OFFICIAL USE ON	NLY	
	•			
ocation of Earth Statio	n Site	and a second		
E1: Site Identifier:	SilverBay False Pass	E5. Call Sign:		
2: Contact Name	Greg Tooke	E6. Phone Number:	(907) 550-8364	
3. Street:	N/A	E7. City:	False Pass	
		E8. County:	Aleutians East Boroug	h
4. State	АК	E9. Zip Code	99583	
10 Area of Operation		AK		
Ell Latitude	54 ° 51 ' 54 0 " N			
El2 Longitude:	163 ° 24 ' 42 2 " W			
JIZ, LONGIUUC.	103 27 72.2 W	NAD-27	NAD-83	ΩN/Δ
E13 Lat/Lon Coordinat	courc.			
E13. Lat/Lon Coordinat	451.).	3 35 meters		N/A
E13. Lat/Lon Coordinat E14. Site Elevation (AM	ASL):	3.35 meters		MA
E13. Lat/Lon Coordinat E14. Site Elevation (AM E15. If the proposed ant intenna(s) comply with jualification measureme	ASL): enna(s) operate in the Fixed Satellite s the antenna gain patterns specified in ent? If NO, provide as a technical anal	3.35 meters Service (FSS) with geostationar Section 25.209(a) and (b) as der ysis showing compliance with t	y satellites, do(es) the proposed monstrated by the manufacturer's wo-degree spacing policy.	Yes No N/A
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<ul> <li>E13. Lat/Lon Coordinate</li> <li>E14. Site Elevation (AN 15. If the proposed ant intenna(s) comply with ualification measuremee</li> <li>16. If the proposed ant ervice (FSS) with non-ecified in Section 25.2</li> <li>17. Is the facility operative (FSS) with non-ecified in Section 25.2</li> <li>17. Is the facility operative (Coord 19. Is coordination to f coordination to foordination is requered to a study regar (AILURE TO CO)</li> <li>DINTS OF COMMUNCATE (Communication is continue to a study regar)</li> </ul>	ASL): enna(s) operate in the Fixed Satellite S the antenna gain patterns specified in ont? If NO, provide as a technical anal enna(s) do not operate in the Fixed Sa geostationary satellites, do(es) the pro- too(a2) and (b) as demonstrated by the ated by remote control? If YES, provide coordination required? If YES, provide coordination required? If YES, a m with another country required contours as tion - (See 47 CFR Part 17 ar ired, have you attached a coording the potential hazard of the MPLY WITH 47 CFR PART CATION. NICATION TELSAT115WB(S2938)   EUT	3.35 meters Service (FSS) with geostationar Section 25.209(a) and (b) as der ysis showing compliance with t tellite Service (FSS), or if they posed antenna(s) comply with t e manufacturer's qualification m de the location and telephone nu attach a frequency coordin i? If YES, attach the name of 47 CFR part 25.113(c) by of a completed FCC F the structure to aviation is 17 AND 25 WILL RE	y satellites, do(es) the proposed monstrated by the manufacturer's wo-degree spacing policy. operate in the Fixed Satellite the antenna gain patterns neasurements? Imber of the control point. Ination report as FalsePass e of the country(ies) and b) Where FAA Form 854 and/or the SULT IN THE RETURN W.L. If you selected OTHEF	Yes No N/A Yes No N/A Yes No Yes No Yes No Yes No Yes No
E13. Lat/Lon Coordinate E14. Site Elevation (AM 15. If the proposed ant intenna(s) comply with ualification measureme 16. If the proposed ant ervice (FSS) with non- pecified in Section 25.2 17. Is the facility opera 18. Is frequency c Freq Coord E19. Is coordination 10t of coordination 10t of coordination 10t of coordination 10t of coordination 10t of study regar EAA's study regar EALURE TO CO DINTS OF COMMUN Satellite Name: EU ollowing:	ASL): enna(s) operate in the Fixed Satellite S the antenna gain patterns specified in int? If NO, provide as a technical anal enna(s) do not operate in the Fixed Sa geostationary satellites, do(es) the pro- tog(a2) and (b) as demonstrated by the ted by remote control? If YES, provide coordination required? If YES, and n with another country required contours as tion - (See 47 CFR Part 17 and irred, have you attached a cop ding the potential hazard of the MPLY WITH 47 CFR PART CATION. NICATION FELSAT115WB(S2938)   EUT 18'	3.35 meters Service (FSS) with geostationar Section 25.209(a) and (b) as der ysis showing compliance with t tellite Service (FSS), or if they posed antenna(s) comply with t e manufacturer's qualification m de the location and telephone nu attach a frequency coordin 1? If YES, attach the name of 47 CFR part 25.113(c) by of a completed FCC F the structure to aviation S 17 AND 25 WILL RE ELSAT 115 WB   114.9 W	y satellites, do(es) the proposed monstrated by the manufacturer's wo-degree spacing policy. operate in the Fixed Satellite the antenna gain patterns leasurements? Imber of the control point. Ination report as FalsePass e of the country(ies) and )) Where FAA Form 854 and/or the ? SULT IN THE RETURN W.L. If you selected OTHER 2. ITU Name:	Yes No N/A Yes No N/A Yes No Yes No Yes No Yes No Yes No

POINTS OF COMMUNICATION (Destination Points)

E25. Site	Ident	ifier:															
E26. Com	nmon	Name:									E2	7. Country:					
ANTENNA																	
Site II	D	E28. Antenna Id	a E2 Quar	9. ıtity	E30. Manufact	urer	E31 Mod	el	E3 Ante Siz	2. enna ze		E41/42. Ant Recieve	enna e(	a Gain ' dBi a	Fransm t	int and/or GHz)	
SilverBay False Pas	/ S	VSAT	1		Prodelin		2385	3	.8		46.2	2 dBi at 5965					
E28. Antenna Id	E28. E33/34. Diameter Minor/Major(meters) Le		E3 () Lev	5. Above Ground el(meters)	E3 Lev	36. Above Sea vel(meters)		E37 Heig G Leve	Buil ght A groun el(me	ding bove d ters)	ling E38. Total pove Input Powe at antenna ters) flange(Watt		39. Maz ntenna Abo poftop(1	kimum Height ve meters)	E40. Total EIRP for al carriers(dBW		
VSAT	0.0/0	0.0		3.0		3.35			0.0			10.0	0.0	0		49.42	
FREQUEN	CY																
E28. Antenna Id	E28. E43/44. E45. ntenna Frequency T/R Id Bands(MHz) Mode			5. R de	E46. An olarization	itenna n(H,V,L,R)			E47 Cmissi esigna	on ator	E4 C	48. Maximun EIRP per carrier(dBW)	n E49. M F ) Carri		. Maximum ERIP Density per rrier(dBW/4kHz)		
VSAT	3700	) 4200	R	H	orizontal			721	<b>M0G7</b>	W	0.0			0.0			
E50. Mod	lulati	on and Se	rvices M	odula	tion and Se	ervic	es Dig	ital									
VSAT	5925	6425	Т	V	ertical			2M	80G7	W	49.42	2		29.12			
E50. Moc	Julati	on and Se	rvices M	odula	tion and Se	ervic	es Dig	ital									
FREQUEN	CY C	OORDINAT	TION						_								
E28. Antenna Id	E51. Orl	. Satellite bit Type	E52/: Freque Limits(]	53. ency MHz	E54/55. of Satell Eastern/ Lin	Ran lite A West nit	ige Arc tern	Es Ea Stat Azin An Eas Lit	56. rth tion nuth gle tern mit	E Ant Elev At Eas Li	57. tenna vation ngle stern imit	E58. Earth Station Azimuth Angle Western Limit	l An Ele A W	E59. Itenna evation Angle estern Limit	E60 EII to Horizo	Maximum RP Density ward the n(dBW/4kHz)	
VSAT	Geos	stationary	3700 42	00	114.0/116	5.0	11	125.02		13.5	5	126.93		52	0.0		
	Geos	stationary	5925 64	25	114.0/116	5.0	12	25.0	2	13.5	5	126.93	14.5	52	-62.91	-	
REMOTE (	CONT	ROL POIN	T LOCAT	TION								J					
E61. Call S NOTE: Plea filed.	ign ase ent	er the callsi	gn of the co	ontroll	ing station, no	ot the	callsign	forv	which t	his app	olicatio	n is being	66. P	hone Nun	nber		
E62. Street	Addre	SS															
E63. City		5					E68	. Coi	inty					E67/68. State/Cou /	intry	E64. Zip Code	

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