Approved by OMB 3060-0678

Date & Time Filed: File Number: ---

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

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

#### **APPLICANT INFORMATION**

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

DRAFT FORM to Support 8Mile/Yukatat/KANA/Kobuk STA

| 1-8. Legal   | Name of Applicant                   |               |                             |
|--------------|-------------------------------------|---------------|-----------------------------|
| Name:        | Alaska Communications Internet, LLC | Phone Number: | 907-297-3000                |
| DBA<br>Name: |                                     | Fax Number:   | 907-297-3153                |
| Street:      | 600 Telephone Avenue                | E-Mail:       | Lisa.Phillips@acsalaska.com |
|              | MC #60                              |               |                             |

MS #60

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 E-Mail: rcameron@lmiadvisors.com

Suite 343

City: Washington State: DC

Country: USA Zipcode: 20037Attention: 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. | (N/A) b1. Application for License of New Station  |
| and b. Choose only one for 17a and only one       | (N/A) b2. Application for Registration of New Domestic Receive-Only Station                                     |
| for 17b.  | b3. Amendment to a Pending Application  |
| 0.47.40.  | b4. Modification of License or Registration   |
| a1. Earth Station                                 | b5. Assignment of License or Registration   |
| a2. Space Station                                 | 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 e               | ducational licensee   |
| Other(please explain): DRAFT FORM                 |   |
|   |   |
| 17d.  |   |
| Fee Classification                                |   |
| 18. If this filing is in reference to an existing | 19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification |
| station, enter:                                   | please enter only the file number:  |
| (a) Call sign of station:                         | (a) Date pending application was filed: (b) File number:  |
| E170205   | (a) Date pending approach was incu.   |
| 1110203   |   |

| 20. NATURE OF SERVICE: This filing is for an authorization to provide or u   | se 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   | 22. If earth station applicant, check all that apply.   |
| one.   | Using U.S. licensed satellites  |
| Common Carrier Non-Common Carrier  | ✓ Using Non-U.S. licensed satellites  |
| 23. If applicant is providing INTERNATIONAL COMMON CARRIER servic  Connected to a Public Switched Network  Not connected to a Public S   | te, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: witched Network   N/A  |
| 24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable   ✓ a. C-Band (4/6 GHz)   b. Ku-Band (12/14 GHz)   | e frequency band(s).  |
| c.Other (Please specify upper and lower frequencies in MHz.)   |   |
| Frequency Lower: Frequency Upper: (Please specify additional frequency Lower)  |   |
| TYPE OI  | FSTATION  |
| 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  | J/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(e  | 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 e authorization to add antenna   |   |
| f authorization to add antenna   |   |
| 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 & countr   | ies)  |
| k authorization for facilities for which environmental assessment and  |   |
| radiation hazard reporting is required   |   |
| 1 authorization to change orbit location m authorization to perform fleet management   |   |
| n authorization to extend milestones   |   |
| ✓ o Other (Please specify)   |   |
| 1 -7/  |   |
| EXITIDOXIVI  | ENITAL DOLLOV   |
|  | ENTAL POLICY  |
| ENVIRONME  28. Would a Commission grant of any proposal in this application or amendated defined by 47 CFR 1.1307? If YES, submit the statement as required by Sectures, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiatapplications for new transmitting facilities, major modifications, or major am  | nent have a significant environmental impact as ions 1.1308 and 1.1311 of the Commission's ion Hazard Study must accompany all  |
| 28. Would a Commission grant of any proposal in this application or amendate defined by 47 CFR 1.1307? If YES, submit the statement as required by Secturels, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiat applications for new transmitting facilities, major modifications, or major amendated the statement of the statement of the statement as required by Secture 1.311. | nent have a significant environmental impact as ions 1.1308 and 1.1311 of the Commission's ion Hazard Study must accompany all  |
| 28. Would a Commission grant of any proposal in this application or amendate defined by 47 CFR 1.1307? If YES, submit the statement as required by Secturels, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiat applications for new transmitting facilities, major modifications, or major amendated the statement of the statement of the statement as required by Secture 1.311. | nent have a significant environmental impact as ions 1.1308 and 1.1311 of the Commission's  Yes No ion Hazard Study must accompany all endments.  It to provide broadcast, common carrier, aeronautical en route or are not required to respond to Items 30-34. |

| 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?  | 0     | Yes    | 0    | No   | • N   | / <b>A</b> |   |
| 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    | 0    | No   | • N   | / <b>A</b> |   |
| 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.   | 0     | 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.   | 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 attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances  | 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.   |       | 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    | 0    | No   |       |            |   |
| 42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.  | •     | Yes    |      | No   |       |            |   |
| 42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what adi is in the process of coordinating the space station? Mexico  | ninis | strati | on h | as c | oordi | nated or   |   |
| 43. Description. (Summarize the nature of the application and the services to be provided). STA for New C-band VSAT  | `Sit  | es i   | n A  | lasl | ca.N  | arrativ    | = |
| 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.   |       | В      |      |      |       |            |   |
| 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      |      |      |       |            |   |
|  | Тес   | chni   | cal  | Ap   | pend  | lix        |   |

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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.

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:

E26. Common Name:

| Site ID | E28.<br>Antenna Id | E29.<br>Quantity | E30.<br>Manufacturer | E31.<br>Model | E32.<br>Antenna<br>Size | E41/42. Antenna Gain Transmint and/or<br>Recieve(dBi atGHz) |
|---------|--------------------|------------------|----------------------|---------------|-------------------------|---|
| Yakutat | VSAT               | 1                | Prodelin             | 1385          | 3.8                     | 42.0 dBi at 3.950   |
| Yakutat | VSAT               | 1                | Prodelin             | 1385          | 3.8                     | 46.5 dBi at 5.965   |

| E28.<br>Antenna<br>Id | E33/34. Diameter<br>Minor/Major(meters) | E35. Above<br>Ground<br>Level(meters) | E36. Above | Haight Abaya | Innut Dawen | E39. Maximum<br>Antenna Height<br>Above<br>Rooftop(meters) | E40. lotal |
|-----------------------|---|---------------------------------------|------------|--------------|-------------|--|------------|
| VSAT                  | 0.0/0.0                                 | 1.8                                   | 22.0       | 0.0          | 80.0        | 0.0  | 65.53      |

FREQUENCY

| E28.<br>Antenna<br>Id | E43/44.<br>Frequency<br>Bands(MHz)                       | Frequency T/R E46. A |                          | E47.<br>Emission<br>Designator | E48. Maximum<br>EIRP per<br>Carrier(dBW) | E49. Maximum ERIP<br>Density per<br>Carrier(dBW/4kHz) |  |  |  |
|-----------------------|--|----------------------|--------------------------|--------------------------------|--|---|--|--|--|
| VSAT                  | 5925 6425  | Т                    | Horizontal and Vertical  | 5M60G7W                        | 65.53                                    | 34.1  |  |  |  |
| E50. Mod              | ulation and Service                                      | s Digit              | al                       |                                |  |   |  |  |  |
| VSAT                  | 5925 6425  | Т                    | Horizontal and Vertical  | 5M60G7W                        | 65.53                                    | 34.1  |  |  |  |
| E50. Mod              | ulation and Service                                      | es Digit             | al                       |                                |  |   |  |  |  |
| VSAT                  | VSAT 3700 4200 R Horizontal and Vertical 72M0G7W 0.0 0.0 |                      |                          |                                |  |   |  |  |  |
| E50. Mod              | ulation and Service                                      | es Modi              | ulation and Services Dig | ital                           |  |   |  |  |  |
| ED E O LIER I         | TV COODDINIATION   |                      |                          | -                              |  |   |  |  |  |

FREQUENCY COORDINATION

| E28.<br>Antenna<br>Id |               | Hreamency | E54/55. Range<br>of Satellite Arc<br>Eastern/Western<br>Limit | E56. Earth Station Azimuth Angle Eastern Limit | E57. Antenna Elevation Angle Eastern Limit | E58. Earth Station Azimuth Angle Western Limit | E59.<br>Antenna<br>Elevation<br>Angle<br>Western<br>Limit | E60. Maximum<br>EIRP Density<br>toward the<br>Horizon(dBW/4kHz) |
|-----------------------|---------------|-----------|---|--|--|--|---|---|
| VSAT                  | Geostationary | 3700 4200 | 114.0/116.0   | 93.22  | 10.43                                      | 151.88   | 19.22   | 0.0   |
|                       | Geostationary | 5925 6425 | 114.0/116.0   | 93.22  | 10.43                                      | 151.88   | 19.22   | -19.91  |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign   |   | E66. I | Phone Number             |               |
|--|---|--------|--------------------------|---------------|
| NOTE: Please enter the callsign of the controlling station, not the cal filed. | lsign for which this application is being |        |                          |               |
| E62. Street Address  |   |        |                          |               |
| E63. City  | E68. County                               |        | E67/68.<br>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: KANA Old Harbor E5. Call Sign:

E2: Contact Name Greg Tooke E6. Phone Number: (907) 550-8364
E3. Street: E1derberry Street E7. City: Old Harbor

E8. County:

E4. State AK E9. Zip Code 99643

| 2/12/2017  |  |                                   | пирз./                      | meensing.ree.gov/101s   | web/10.page.1                  | ctem omina_app  |              | 0)21&101III=1 013         | _101.htmcmode                                   | -display                               |                               |
|--|--|-----------------------------------|-----------------------------|---|--------------------------------|---|--------------|---------------------------|---|--|-------------------------------|
| E10. Area  | of Ope   | eration:                          |                             |   | (                              | Old Harbor, A   | K            |                           |   |  |                               |
| E11. Latitu  | ıde:   |                                   | 57 ° 12                     | 2 ' 48.71 " N   |                                |   |              |                           |   |  |                               |
| E12. Longi   | itude:   |                                   | 153 ° 1                     | 17 ' 0.68 " W   |                                |   |              |                           |   |  |                               |
| E13. Lat/L   | on Co  | ordinates are:                    |                             |   | (                              | NAD-27  |              | <ul><li>NAD</li></ul>     | -83   | $\bigcirc$ N/                          | Α                             |
| E14. Site E  | Elevati  | on (AMSL):                        |                             |   | 1                              | 0.0 meters  |              |                           |   |  |                               |
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy. |  |                                   |                             |   |                                |   |              |                           |   | es • No                                | ○N/A                          |
| Service (FS  | 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? |                                   |                             |   |                                |   |              |                           |   |  |                               |
| E17. Is the  | facility   | operated by r                     | emote co                    | ontrol? If YES, provid  | le the location                | and telephone   | number of    | f the control point       | . O Y   | es • N                                 | No                            |
| E18. Is fr   | eque   | ncy coordina                      | ation re                    | equired? If YES, a  | attach a free                  | quency coord  | ination      | report as                 | ⊙ Y   | es N                                   | No                            |
|  |  | nation with a                     |                             | country required  | l? If YES, a                   | attach the nan  | ne of the    | e country(ies)            | and Y   | res • N                                | No                            |
| E20. FAA<br>notificati<br>FAA's str<br>FAILUR  | A Notion is udy 1  | tification - (<br>required, h     | See 47 have yo he pote WITH | CFR Part 17 an<br>ou attached a cop<br>ntial hazard of t<br>H 47 CFR PART | oy of a com<br>he structu      | ipleted FCC re to aviation                                  | Form 8<br>n? | 354 and/or the            | $\bigcirc$ Y                                    | es • N                                 | No                            |
| POINTS O   | F CO   | MMUNICATI                         | ON                          |   |                                |   |              |                           | '   |  |                               |
| Satellite I following  |  | :EUTELSA                          | T115W                       | /B(S2938)   EUT   | ELSAT 11:                      | 5 WB   114.9  | W.L. If      | you selected (            | OTHER, plea                                     | se enter the                           |                               |
| E21. Con   |  | Name:                             |                             |   |                                | E   | 22. ITU      | Name:                     |   |  |                               |
| E23. Orb   | it Lo  | cation:                           |                             |   |                                | E   | 24. Cou      | ntry:                     |   |  |                               |
| POINTS O   | F CO   | MMUNICATI                         | ON (Des                     | stination Points)   |                                |   |              |                           |   |  |                               |
| E25. Site  | Iden   | tifier:                           |                             |   |                                |   |              |                           |   |  |                               |
| E26. Con   | nmon   | Name:                             |                             |   |                                |   | E27          | . Country:                |   |  |                               |
| ANTENNA  |  |                                   |                             |   |                                |   | - 1          | <del>-</del>              |   |  |                               |
| Site II  | D  | E28.<br>Antenna<br>Id             | E29<br>Quant                | E30.  E30.  Manufactur  | E31.<br>Model                  | E32.<br>Antenna<br>Size                                     | E            | A1/42. Anten<br>Recieve(_ |   |  | /or                           |
| KANA O<br>Harbor   | Old ,  | VSAT                              | 1                           | General<br>Dynamics   | 1241                           | 2.4   | 37.6 d       | lBi at 3.740              |   |  |                               |
| KANA O<br>Harbor   | Old ,  | VSAT                              | 1                           | General<br>Dynamics   | 1241                           | 2.4   | 41.6 d       | lBi at 5.9650             |   |  |                               |
| E28.<br>Antenna<br>Id  | Min  | 33/34. Diam<br>or/Major(n         |                             | E35. Above  | E36. Abov<br>Sea<br>Level(mete | Height A<br>Grou  | Above I      |                           | E39. Maxin<br>Antenna He<br>Above<br>Rooftop(me | eight EIRI                             | . Total<br>P for al<br>rs(dBW |
| VSAT   | 0.0/0  | 0.0                               |                             | 8.0   | 0.0                            | 0.0   | 1            | 0.0                       | 0.0   | 51.7                                   |                               |
| FREQUEN  | CY   |                                   |                             |   | 11                             |   |              |                           |   |  |                               |
| E28.<br>Antenna<br>Id  | B  | E43/44.<br>Frequency<br>ands(MHz) |                             | R Polarization  | H,V,L,R)                       | E47. E48. Maximum Emission EIRP per Designator Carrier(dBW) |              |                           | D<br>Carri                                      | Aaximum E<br>Density per<br>er(dBW/4k) |                               |
| VSAT   |  | ) 4200                            | R                           | Horizontal and  | d Vertical                     | 72M0G7W   | 0.0          |                           | 0.0   |  |                               |
|  |  | on and Serv                       | ices Di                     | <u> </u>  |                                |   | 1            |                           | 7   |  |                               |
| VSAT   | VSAT   5925 6019.15   T     Horizontal and Vertical   2M60G7W   51.7   23.87   |                                   |                             |   |                                |   |              |                           |   |  |                               |
| E50. Modulation and Services Digital   |  |                                   |                             |   |                                |   |              |                           |   |  |                               |
| E50. Mod   | dulatı   |                                   | ices Di                     | 51141   |                                |   |              |                           |   |  |                               |
| VSAT   |  | 5 6019.15                         | T                           | Horizontal and  | d Vertical                     | 5M60G7W   | 51.7         |                           | 20.74   |  |                               |
| VSAT   | 5925   |                                   | Т                           | Horizontal and  | d Vertical 5                   | 5M60G7W   | 51.7         |                           | 20.74   |  |                               |
| VSAT   | 5925<br>dulati   | 5 6019.15                         | Т                           | Horizontal and  |                                |   | 51.7         |                           | 23.87   |  |                               |
| VSAT<br>E50. Mod<br>VSAT   | 5925<br>dulati<br>6108   | 5 6019.15<br>on and Serv          | Trices Di                   | Horizontal and gital Horizontal and                                       |                                |   |              |                           |   |  |                               |

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.

No

Yes

| Antenna<br>Id                                  | Orbit Type  | Frequei<br>Limits(M                          | ncy of Satell<br>IHz) Eastern/<br>Lin                                 | Western                     | Earth<br>Station<br>Azimuth<br>Angle | Ele <sup>o</sup><br>A<br>Ea | tenna<br>vation<br>ngle<br>stern<br>imit | Earth<br>Station<br>Azimuth<br>Angle                    | Antenna<br>Elevation<br>Angle<br>Western<br>Limit | ı to<br>Horizo                        | RP Density<br>oward the<br>on(dBW/4kHz)   |
|--|---|--|---|-----------------------------|--------------------------------------|-----------------------------|--|---|---|---------------------------------------|---|
|  | CY COORDINA E51. Satellite  | 1  | 3. E54/55.  | Range                       | E56.                                 | F                           | 257.                                     | E58.  | E59.  | E60                                   | . Maximum                                 |
|  | lulation and Se   |  | gital   |                             |                                      |                             |  |   |   |                                       |   |
|  | 6301.19 6330  |  | Horizontal a  | nd Vertical                 | 5M60G                                | 7W                          | 51.7                                     |   | 20.74   |                                       |   |
| E50. Mod                                       | ulation and Se  | rvices Dig                                   |   |                             |                                      |                             | 7  |   |   |                                       |   |
| VSAT   | 6301.19 6330  | .49 T  | Horizontal a  | nd Vertical                 | 2M60G                                | 7W                          | 51.7                                     |   | 24.07   |                                       |   |
|  | lulation and Se   |  |   |                             | 1                                    |                             | 11                                       |   |   |                                       |   |
|  | 6360.49 6425  |  | Horizontal a  | nd Vertical                 | 5M60G                                | 7W                          | 51.7                                     |   | 20.74   |                                       |   |
|  | lulation and Se   |  |   | , OI HOUI                   |                                      | . , ,,                      |  |   | 12 1.07   |                                       |   |
|  | 6360.49 6425  |  | Horizontal a  | nd Vertical                 | 2M60G                                | 7W                          | 51.7                                     |   | 24.07   |                                       |   |
|  |   |  |   | na vertical                 | DOOLAGE                              | 1 / <b>VV</b>               | J1./                                     |   | <sub>  </sub> 20.74                               |                                       |   |
| L  | Sulation and Selection 5925 6271.19   |  | Horizontal a  | nd Vartical                 | 5M60C                                | .7\X/                       | 51.7                                     |   | 20.74   |                                       |   |
|  | 5925 6271.19  |  | Horizontal a  | na vertical                 | <sub> </sub>  ZIVI6UG                | r / W                       | 51.7                                     |   | 24.07   |                                       |   |
|  | lulation and Se   |  |   | 1 17 / 1                    | 214606                               | 7337                        | E1 7                                     |   | 24.07   |                                       |   |
|  | 3700 4200   | T T  | Horizontal a  | nd Vertical                 | [/2M0G                               | i/W                         | 0.0                                      |   | 0.0   |                                       |   |
| Id   | Bands(MH  |  | e   |                             | Desigi                               |                             | -  | arrier(dBW)   |   | arrier(d                              | BW/4kHz)                                  |
| E28.<br>Antenna                                | E43/44.<br>Frequency  |  | E46. An   |                             | E4<br>Emis                           | sion                        |  | 8. Maximum<br>EIRP per                                  |   | Densi                                 |   |
| FREQUEN  |   | 11   | 1   | _                           | 1                                    |                             | 1  |   | 71  |                                       |   |
| VSAT   | 0.0/0.0   |  | 9.0   | 11.0                        | 0.0                                  |                             |  | 10.0  | 0.0   |                                       | 51.7                                      |
| E28.<br>Antenna<br>Id                          | E33/34. Dia<br>Minor/Major  | ·(motoma)                                    | E35. Above<br>Ground<br>Level(meters)                                 | E36. Abo<br>Sea<br>Level(me | ove<br>He                            | Grou                        | bove<br>nd                               | E38. Total<br>Input Power<br>at antenna<br>flange(Watts | Antenn<br>Al                                      | aximum<br>a Height<br>ove<br>(meters) | E40. Total<br>EIRP for al<br>carriers(dBW |
| KANA<br>Akhiok                                 | VSAT  | 1  | General<br>Dynamics   | 1241                        | 2.4                                  |                             | 41.6 d                                   | lBi at 5.9650   |   |                                       |   |
| KANA<br>Akhiok                                 | VSAT  | 1  | General<br>Dynamics   | 1241                        | 2.4                                  |                             | 37.6 d                                   | lBi at 3.740  |   |                                       |   |
| Site ID  | E28.<br>Antenna Id  | E29.<br>Quantity                             | E30.<br>Manufacture   | E31.<br>Model               | E32<br>Anter<br>Siz                  | nna                         | I  | E41/42. Anter<br>Recieve(                               |   |                                       | nt and/or<br>GHz)                         |
| ANTENNA  |   |  | 7.  |                             |                                      |                             |  |   |   |                                       |   |
|  | mon Name:   |  |   |                             |                                      |                             | E2                                       | 7. Country:   |   |                                       |   |
| E25. Site                                      |   | LION (Dest                                   | mation I offics)  |                             |                                      |                             |  |   |   |                                       |   |
| <u> </u>                                       | t Location: FCOMMUNICA  | TION (Doct                                   | ination Points)   |                             |                                      |                             | 24. Co                                   | untry:  |   |                                       |   |
| <u> </u>                                       | mmon Name:  |  |   |                             |                                      |                             |  | U Name:   |   |                                       |   |
| following                                      | :   | <u></u>                                      | D(32₹30) I EU   | TELOAI I                    | 19 WDI                               |                             |  |   | OTHER   | , picase ei                           | nici uic                                  |
|  | COMMUNICA   |  | B(S2938)   EU'  | TELSAT 1                    | 15 WR                                | 11/10                       | W/ I I                                   | f vou selected  | OTHED   | nlanca ai                             | ntar tha                                  |
| notification<br>FAA's stu<br>FAILUR<br>OF THIS | on is required<br>idy regarding<br>E TO COMPI<br>S APPLICATI  | , have you<br>g the poten<br>LY WITH<br>ION. | CFR Part 17 a<br>1 attached a co<br>1 attal hazard of<br>1 47 CFR PAR | opy of a co<br>the struct   | mpleted<br>ure to a                  | FCC viation                 | Form<br>1?                               | 854 and/or t  |   | ○ Yes                                 | No  |
| plot of co                                     | lot of coordination contours as<br>220. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA |  |   |                             |                                      |                             |  |   |   |                                       | No  |
|  |   |  | country require   |                             | 1 ,                                  |                             |  |   | ) and   | O Yes                                 |   |
| E18 Is fre                                     | equency coord   | ination rec                                  | quired? If YES,   | 1 0                         |                                      | - 11                        | _  |   | 13_101.ntme<br>                                   | • Yes                                 | ∩ No                                      |

|                              |  |  |                                    | Eastern<br>Limit                     |            | Western<br>Limit     |                   |               |              |             |
|------------------------------|--|--|------------------------------------|--------------------------------------|------------|----------------------|-------------------|---------------|--------------|-------------|
| VSAT                         | Geostationary  | 3700 4200  | 114.0/116.0                        |                                      | 16.3       | 135.81               | 16.7              | 0.0           |              |             |
| , 5111                       |  | 5925 6271.19                                       |                                    |                                      | 16.3       | 135.81               | 16.7              | -60.2         | 1            |             |
|                              |  | 6360.49 6425                                       |                                    |                                      | 16.3       | 135.81               | 16.7              | -60.2         |              |             |
|                              |  | 6301.19  |                                    |                                      |            |                      |                   |               |              |             |
|                              | Geostationary  | 6330.49  | 114.0/116.0                        | 134.79                               | 16.3       | 135.81               | 16.7              | -60.2         | l            |             |
| -                            | E CONTROL POIN   | T LOCATION   |                                    |                                      |            | II-                  | 766 791           |               |              |             |
| E61. Call                    | Sign   |  |                                    |                                      |            | 1                    | E66. Phone N      | lumber        |              |             |
| NOTE: Pl<br>filed.           | lease enter the callsig  | gn of the controlling                              | ng station, not the c              | callsign for which th                | is applica | tion is being        |                   |               |              |             |
| E62. Stree                   | et Address   |  |                                    |                                      |            |                      |                   |               |              |             |
| E63. City                    | ,  |  |                                    | E68. County                          |            |                      | E67/68<br>State/0 | 3.<br>Country | E6           | 4. Zip Code |
|                              |  |  | FOR                                | OFFICIAL US                          | E ONL      | Y                    |                   |               |              |             |
| Location                     | of Earth Station Site  | ;  |                                    |                                      |            |                      |                   |               |              |             |
| E1: Site I                   | Identifier:  | KANA Lars  | en Bay                             | E5. Call Sig                         | n:         |                      |                   |               |              |             |
| E2: Conta                    | tact Name  | Greg Tooke   |                                    | E6. Phone N                          | umber:     | (907)                | ) 550-8364        | 1             |              |             |
| E3. Stree                    | et:  | 3rd Street   |                                    | E7. City:                            |            | Larse                | en Bay            |               |              |             |
|                              |  |  |                                    | E8. County:                          |            | 00.6                 |                   |               |              |             |
| E4. State                    |  | AK   |                                    | E9. Zip Cod                          |            | 9962                 | 24                |               |              |             |
|                              | ea of Operation:   | 57 9 22 1 11                                       | 24 !! NT                           | Larsen Ba                            | y, AK      |                      |                   |               |              |             |
| E11. Lati                    |  | 57 ° 32 ' 11.                                      |                                    |                                      |            |                      |                   |               |              |             |
| E12. Lon                     |  | 153 ° 58 ' 44                                      | 81 " W                             | ONAD 2                               | 7          | ON.                  | AD 92             |               |              | AT / A      |
|                              | /Lon Coordinates are<br>e Elevation (AMSL):  |  |                                    | NAD-2                                |            | <b>©IN</b> .         | AD-83             |               | $\bigcirc$ 1 | N/A         |
|                              |  |  |                                    |                                      |            |                      | . 1               |               |              |             |
| antenna(s                    | te proposed antenna(s) comply with the an ion measurement? If  | itenna gain pattern                                | s specified in Secti               | on 25.209(a) and (b                  | ) as demo  | nstrated by the ma   | nufacturer's      | Yes           | • No         | ○N/A        |
| Service (F                   | re proposed antenna(s<br>FSS) with non-geosta<br>in Section 25.209(a2  | ationary satellites,                               | do(es) the propose                 | d antenna(s) comply                  | with the   | antenna gain patte   |                   | Yes           | ○No          | ⊙N/A        |
| E17. Is the                  | ne facility operated by  | y remote control?                                  | If YES, provide the                | e location and teleph                | one numb   | ber of the control p | oint.             | O Yes         | •            | No          |
|                              | frequency coordi   |  |                                    |                                      |            |                      |                   | • Yes         | 0            | No          |
|                              | coordination with  |  | try required? If                   | YES, attach the                      | name o     | of the country(is    | es) and           | O Yes         | •            | No          |
| notifica<br>FAA's s<br>FAILU | AA Notification of the control of th | , have you atta<br>the potential l<br>LY WITH 47 ( | iched a copy of<br>hazard of the s | f a completed F<br>structure to avia | CC For     | rm 854 and/or        |                   | ○ Yes         | •            | No          |
| Satellite                    | OF COMMUNICATE  e Name:EUTELS  |  | 938)   EUTELS                      | SAT 115 WB   11                      | 4.9 W.I    | L. If you selecte    | ed OTHER          | R, please     | enter th     | ie          |
| followin                     | ng:<br>ommon Name:   |  |                                    |                                      | F22        | ITU Name:            |                   |               |              |             |
| 1121. CC                     | ommon ralle.   |  |                                    |                                      | 1222.      | 110 Maille.          |                   |               |              |             |

E23. Orbit Location: E24. Country:

# POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:

E26. Common Name: E27. Country:

#### ANTENNA

| Site ID            | E28.<br>Antenna<br>Id | E29.<br>Quantity | E30.<br>Manufacturer | E31.<br>Model | E32.<br>Antenna<br>Size | E41/42. Antenna Gain Transmint and/or<br>Recieve(dBi atGHz) |
|--------------------|-----------------------|------------------|----------------------|---------------|-------------------------|---|
| KANA<br>Larsen Bay | VSAT                  | 1                | General<br>Dynamics  | 1241          | 2.4                     | 37.6 dBi at 3.740   |
| KANA<br>Larsen Bay | VSAT                  | 1                | General<br>Dynamics  | 1241          | 2.4                     | 41.6 dBi at 5.9650  |

| E28.<br>Antenna<br>Id | E33/34. Diameter<br>Minor/Major(meters) | E35. Above<br>Ground<br>Level(meters) | Sea  | Height Above<br>Ground | Input Power at antenna | E39. Maximum<br>Antenna Height<br>Above<br>Rooftop(meters) | E40. 10tal EIRP for al |  |
|-----------------------|---|---------------------------------------|------|------------------------|------------------------|--|------------------------|--|
| VSAT                  | 0.0/0.0                                 | 16.0                                  | 18.0 | 0.0                    | 10.0                   | 0.0  | 51.7                   |  |

FREQUENCY

| VSAT         3700 4200         R         Horizontal and Vertical         72M0G7W         0.0         0.0           E50. Modulation and Services Digital         VSAT         5925 6050.625         T         Horizontal and Vertical         2M60G7W         51.7         23.87           E50. Modulation and Services Digital         VSAT         5925 6050.625         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital         VSAT         6417.965 6425         T         Horizontal and Vertical         2M60G7W         51.7         23.87           E50. Modulation and Services Digital         VSAT         6417.965 6425         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital         VSAT         6106.625<br>6109.925         T         Horizontal and Vertical         2M60G7W         51.7         23.87           E50. Modulation and Services Digital         Services Digital         Services Digital         Services Digital         Services Digital   | ERIP<br>·<br>kHz)                    |  |  |  |  |  |  |  |  |  |  |
|---|--------------------------------------|--|--|--|--|--|--|--|--|--|--|
| VSAT  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital   VSAT   5925 6050.625   T   Horizontal and Vertical   5M60G7W   51.7   20.74   E50. Modulation and Services Digital   VSAT   6417.965 6425   T   Horizontal and Vertical   2M60G7W   51.7   23.87   E50. Modulation and Services Digital   VSAT   6417.965 6425   T   Horizontal and Vertical   5M60G7W   51.7   20.74   E50. Modulation and Services Digital   VSAT   6106.625   T   Horizontal and Vertical   2M60G7W   51.7   23.87   VSAT   6109.925   T   Horizontal and Vertical   2M60G7W   51.7   23.87   23.87   Constant of the property of |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT         5925 6050.625         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital         VSAT         6417.965 6425         T         Horizontal and Vertical         2M60G7W         51.7         23.87           E50. Modulation and Services Digital         VSAT         6417.965 6425         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital         VSAT         6106.625         T         Horizontal and Vertical         2M60G7W         51.7         23.87   |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  VSAT   6417.965 6425   T   Horizontal and Vertical   2M60G7W   51.7   23.87  E50. Modulation and Services Digital  VSAT   6417.965 6425   T   Horizontal and Vertical   5M60G7W   51.7   20.74  E50. Modulation and Services Digital  VSAT   6106.625   T   Horizontal and Vertical   2M60G7W   51.7   23.87  | E50. Modulation and Services Digital |  |  |  |  |  |  |  |  |  |  |
| VSAT         6417.965 6425         T         Horizontal and Vertical         2M60G7W         51.7         23.87           E50. Modulation and Services Digital         VSAT         6417.965 6425         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital         VSAT         6106.625         T         Horizontal and Vertical         2M60G7W         51.7         23.87  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital         VSAT       6417.965 6425       T       Horizontal and Vertical 5M60G7W       51.7       20.74         E50. Modulation and Services Digital         VSAT       6106.625 6109.925       T       Horizontal and Vertical 2M60G7W       51.7       23.87   |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT         6417.965 6425         T         Horizontal and Vertical         5M60G7W         51.7         20.74           E50. Modulation and Services Digital           VSAT         6106.625<br>6109.925         T         Horizontal and Vertical         2M60G7W         51.7         23.87   |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  VSAT  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT         6106.625<br>6109.925         T         Horizontal and Vertical         2M60G7W         51.7         23.87  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAI 6109.925 II Horizontal and Vertical 2M60G/W 51.7   |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |
|   |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT 6106.625<br>6109.925 T Horizontal and Vertical 5M60G7W 51.7 20.74  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT 6165.925<br>6302.665 T Horizontal and Vertical 2M60G7W 51.7 23.87  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT 6165.925<br>6302.665 T Horizontal and Vertical 5M60G7W 51.7 20.74  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT   6358.665   T   Horizontal and Vertical   2M60G7W   51.7   23.87  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |
| VSAT   6358.665   T   Horizontal and Vertical   5M60G7W   51.7   20.74  |                                      |  |  |  |  |  |  |  |  |  |  |
| E50. Modulation and Services Digital  |                                      |  |  |  |  |  |  |  |  |  |  |

### FREQUENCY COORDINATION

|   | E28.    | E51. Satellite | E52/53.     | E54/55. Range    | E56.    | E57.      | E58.    | E59.      | E60. Maximum |
|---|---------|----------------|-------------|------------------|---------|-----------|---------|-----------|--------------|
|   | Antenna | Orbit Type     | Frequency   | of Satellite Arc | Earth   | Antenna   | Earth   | Antenna   | EIRP Density |
|   | Id      |                | Limits(MHz) |                  | Station | Elevation | Station | Elevation |              |
| Ш |         |                |             |                  |         |           |         |           |              |

|   |   |   | Eastern/Western<br>Limit   | Angle<br>Eastern<br>Limit  | Angle<br>Eastern<br>Limit   | Azimuth Angle Western Limit  | Angle<br>Western<br>Limit                                      | II .        | toward<br>zon(dB                | W/4kHz)      |
|---|---|---|--|--|---|--|--|-------------|---------------------------------|--------------|
| VSAT  | Geostationary   | 3700 4200   | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | 0.0         |                                 |              |
|   | Geostationary   | 5925<br>6050.625  | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | -59.98      | 8                               |              |
|   | Geostationary   | 6417.965<br>6425  | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | -59.98      | 8                               |              |
|   | Geostationary   | 6106.625<br>6109.925  | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | -59.98      | 8                               |              |
|   | Geostationary   | 6165.925<br>6302.665  | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | -59.98      | 8                               |              |
|   | Geostationary   | 6358.666<br>6361.965  | 114.0/116.0  | 135.18   | 15.94   | 136.2  | 16.33  | -59.98      | 8                               |              |
| ЕМОТЕ   | E CONTROL POIN  | T LOCATION  |  |  |   |  |  |             |                                 |              |
| îled.   | lease enter the callsig   | gn of the controll  | ling station, not the callsi   | gn for which t   | his application   | is being   |  |             |                                 |              |
| E63. City   |   |   | E  | 68. County   |   |  | E67/68.<br>State/Co  | ountry      | E6                              | 4. Zip Code  |
|   | FC  | SATE<br>CC Form 31  | 12 - Schedule B:(  | Technica   | •   | erational I  | <b>Descripti</b> o   | on)         |                                 |              |
| Location  | F(  | CC Form 31  | 12 - Schedule B:(  | `  | •   | erational E  | <b>Descriptio</b>  | on)         |                                 |              |
|   | of Earth Station Site   | CC Form 31  | 12 - Schedule B:(  | `  | SE ONLY   | erational E  | Descriptio   | on)         |                                 |              |
| E1: Site I  | of Earth Station Site   | CC Form 31  | 12 - Schedule B:( FOR OF   | FICIAL U   | SE ONLY   |  | <b>Descriptio</b>  | on)         |                                 |              |
| E1: Site I<br>E2: Conta   | of Earth Station Site<br>Identifier:<br>act Name  | KANA O  | FOR OF   | E5. Call Sign:   | SE ONLY   |  | 550-8364   | on)         |                                 |              |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State   | of Earth Station Site<br>Identifier:<br>act Name<br>t:  | KANA Ou   | FOR OF   | E5. Call Sign:<br>E6. Phone Nu<br>E7. City:<br>E8. County:<br>E9. Zip Code   | SE ONLY   | (907):   | 550-8364<br>kie  | on)         |                                 |              |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State<br>E10. Area  | of Earth Station Site Identifier: act Name t: a of Operation:   | KANA Or<br>Greg Took<br>F Street  | FOR OF   | E5. Call Sign: E6. Phone Nu E7. City: E8. County:  | SE ONLY   | (907) :<br>Ouzinl  | 550-8364<br>kie  | on)         |                                 |              |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State<br>E10. Area<br>E11. Lati   | of Earth Station Site Identifier: act Name t: a of Operation: tude:   | KANA Or<br>Greg Took<br>F Street<br>AK<br>57 ° 55 ' 2   | FOR OF uzinkie se  8.3 " N   | E5. Call Sign:<br>E6. Phone Nu<br>E7. City:<br>E8. County:<br>E9. Zip Code   | SE ONLY   | (907) :<br>Ouzinl  | 550-8364<br>kie  | on)         |                                 |              |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State<br>E10. Area<br>E11. Lati<br>E12. Lon   | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude:   | KANA Or<br>Greg Took<br>F Street<br>AK<br>57 ° 55 ' 2<br>152 ° 29 '   | FOR OF   | E5. Call Sign:<br>E6. Phone Nu<br>E7. City:<br>E8. County:<br>E9. Zip Code<br>Ouzinkie, A  | SE ONLY  mber:  | (907) :<br>Ouzinl<br>99644   | 550-8364<br>kie  | on)         |                                 | I/A          |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State<br>E10. Are:<br>E11. Lati<br>E12. Lon<br>E13. Lat/  | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: 'Lon Coordinates are  | KANA Or Greg Took F Street  AK  57 ° 55 ' 2 152 ° 29 '  | FOR OF uzinkie se  8.3 " N   | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A   | SE ONLY  mber:  | (907) :<br>Ouzinl  | 550-8364<br>kie  | on)         | $\bigcirc 1$                    | N/A          |
| E1: Site I<br>E2: Conta<br>E3. Stree<br>E4. State<br>E10. Area<br>E11. Lati<br>E12. Lon<br>E13. Lat/<br>E14. Site   | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: 'Lon Coordinates are Elevation (AMSL):  | KANA Or<br>Greg Took<br>F Street<br>AK<br>57 ° 55 ' 2<br>152 ° 29 '   | FOR OF  azinkie  se  8.3 " N  58.29 " W  | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A   | SE ONLY  imber:   | (907) :<br>Ouzinl<br>99644<br>••NA   | 550-8364<br>kie<br>D-83  | on)         |                                 | J/A          |
| E1: Site I E2: Conta E3. Stree E4. State E10. Area E11. Lati E12. Lon E13. Lat/ E14. Site E15. If the antenna(s) qualificati  | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: 'Lon Coordinates are Elevation (AMSL): e proposed antenna(s) ) comply with the are ion measurement? If  | KANA Or Greg Took F Street  AK  57 ° 55 ' 2  152 ° 29 '   | Fixed Satellite Service (Frns specified in Section 2 a technical analysis show   | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A  NAD-27 17.0 meters  SS) with geos 5.209(a) and (fring compliance)  | SE ONLY  mber:  tationary satel b) as demonstre with two-deg  | (907): Ouzinl 99644  • NA  lites, do(es) the ated by the margree spacing po  | D-83  proposed nufacturer's licy.                              |             | ○No                             | J/A<br>○N/A  |
| E1: Site I E2: Conta E3. Stree E4. State E10. Area E11. Lati E12. Lon E13. Lat/ E14. Site E15. If the antenna(s) qualificati E16. If the Service (F                                     | of Earth Station Site (Identifier: act Name t: a of Operation: tude: gitude: [Lon Coordinates are Elevation (AMSL): e proposed antenna(s) comply with the arion measurement? If e proposed antenna(s; SS) with non-geosts   | KANA Or Greg Took F Street  AK  57 ° 55 ' 2 152 ° 29 ' ::  s) operate in the intenna gain patter NO, provide as: s) do not operate ationary satellites  | FOR OF  azinkie  se  8.3 " N  58.29 " W  Fixed Satellite Service (Frans specified in Section 2   | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A  NAD-27 17.0 meters  SS) with geos 5.209(a) and (ing compliance (FSS), or tenna(s) compliance.  | SE ONLY  tationary satel b) as demonstre with two-degrif they operately with the antology with the antology with the antology.    | (907): Ouzinl 99644  NA lites, do(es) the ated by the margree spacing poer in the Fixed Senna gain patter  | D-83  proposed nufacturer's licy. atellite                     |             |                                 |              |
| E1: Site I E2: Conta E3. Stree E4. State E10. Area E11. Lati E12. Lon E13. Lat/ E14. Site E15. If the antenna(s) qualificati E16. If the Service (F specified i                         | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: [Lon Coordinates are Elevation (AMSL): e proposed antenna(: ) comply with the arion measurement? If e proposed antenna(: FSS) with non-geostatin Section 25.209(a2)                         | KANA Or Greg Took F Street  AK  57 ° 55 ' 2 152 ° 29 ' ::  s) operate in the latenna gain patter NO, provide as: s) do not operate ationary satellites to and (b) as dem  | FOR OF  UZINKIE  RE  8.3 " N  58.29 " W  Fixed Satellite Service (Fras specified in Section 2 a technical analysis show in the Fixed Satellite Sers, do(es) the proposed and   | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A  NAD-27 17.0 meters ESS) with geos 5.209(a) and (ing compliance comp | SE ONLY  tationary satel b) as demonstre with two-degree if they operate ly with the antegration measure                          | (907): Ouzinl 99644  • NA  lites, do(es) the margree spacing por e in the Fixed Senna gain patter ments?   | D-83  proposed nufacturer's licy. atellite ms                  | Yes         | <ul><li>No</li><li>No</li></ul> | ○N/A         |
| E1: Site I E2: Conta E3. Stree E4. State E10. Area E11. Lati E12. Lon E13. Lat/ E14. Site E15. If the antenna(s) qualificati E16. If the Service (F specified i                         | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: [Lon Coordinates are Elevation (AMSL): e proposed antenna(ion measurement? If e proposed antenna(ion section 25.209(a2)) e facility operated by   | KANA Or Greg Took F Street  AK  57 ° 55 ' 2 152 ° 29 ' 2:  s) operate in the attenna gain patter NO, provide as a sis of the order of the street of the stre      | FOR OF  azinkie  Re  8.3 " N  58.29 " W  Fixed Satellite Service (Fras specified in Section 2 a technical analysis show in the Fixed Satellite Service, do(es) the proposed and onstrated by the manufactory.                      | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A  NAD-27 17.0 meters ESS) with geos 5.209(a) and (ing compliance comp | stationary sately by as demonstrate with two-degration measure whone number of  | (907) : Ouzinl 99644  • NA  lites, do(es) the ated by the margree spacing por e in the Fixed Senna gain patterments?  of the control profits of the control profits of the space of the control profits of the | D-83  proposed nufacturer's licy. atellite ms                  | Yes Yes     | No    No                        | ○N/A<br>●N/A |
| E1: Site I E2: Conta E3. Stree E4. State E10. Area E11. Lati E12. Lon E13. Lat/ E14. Site E15. If the antenna(s) qualificati E16. If the Service (F specified i E17. Is the E18. Is the | of Earth Station Site Identifier: act Name t: a of Operation: tude: gitude: (Lon Coordinates are Elevation (AMSL): e proposed antenna(: ) comply with the ari on measurement? If e proposed antenna(: 7SS) with non-geosta in Section 25.209(a2) e facility operated by | KANA Ou<br>Greg Took<br>F Street  AK  57 ° 55 ' 2 152 ° 29 '  Existence in the latenna gain patter NO, provide as a street on the latenna gain patter NO, provide as | FOR OF  Uzinkie  Re  8.3 " N  58.29 " W  Fixed Satellite Service (Frans specified in Section 2 a technical analysis show in the Fixed Satellite Sers, do(es) the proposed and onstrated by the manufact? If YES, provide the local | E5. Call Sign: E6. Phone Nu E7. City: E8. County: E9. Zip Code Ouzinkie, A  NAD-27 17.0 meters ESS) with geos 5.209(a) and (ing compliance (FSS), or tenna(s) completurer's qualification and telep  | SE ONLY  tationary satel b) as demonstre with two-degrif they operate by with the antication measure whone number of coordination | (907): Ouzinl 99644  NA  NA  lites, do(es) the ated by the man gree spacing poe in the Fixed Senna gain patterments? of the control pone in report as  | D-83  proposed nufacturer's licy. atellite rns  pint. (as) and | Yes Yes Yes | No     No                       | N/A No       |

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.

| 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.<br>Antenna<br>Id | E29.<br>Quantity | E30.<br>Manufacturer | E31.<br>Model | E32.<br>Antenna<br>Size | E41/42. Antenna Gain Transmint and/or<br>Recieve(dBi atGHz) |
|------------------|-----------------------|------------------|----------------------|---------------|-------------------------|---|
| KANA<br>Ouzinkie | VSAT                  | 11               | General<br>Dynamics  | 1241          | 2.4                     | 37.6 dBi at 3.740   |
| KANA<br>Ouzinkie | VSAT                  | 1                | General<br>Dynamics  | 1241          | 2.4                     | 41.6 dBi at 5.9650  |

| E28.<br>Antenna<br>Id | E33/34. Diameter<br>Minor/Major(meters) | E35. Above<br>Ground<br>Level(meters) | Sea | Height Above | Input Power | E39. Maximum<br>Antenna Height<br>Above<br>Rooftop(meters) | E40. Iotal<br>EIRP for al |
|-----------------------|---|---------------------------------------|-----|--------------|-------------|--|---------------------------|
| VSAT                  | 0.0/0.0                                 | 15.0                                  |     | 0.0          | 10.0        | 0.0  | 51.7                      |

FREQUENCY

| E28.<br>Antenna<br>Id | E43/44.<br>Frequency<br>Bands(MHz)   | E45.<br>T/R<br>Mode | E46. Antenna            | E47.<br>Emission<br>Designator | E48. Maximum<br>EIRP per<br>Carrier(dBW) | E49. Maximum ERIP<br>Density per<br>Carrier(dBW/4kHz) |  |  |  |
|-----------------------|--------------------------------------|---------------------|-------------------------|--------------------------------|--|---|--|--|--|
| VSAT                  | 3700 4200                            | R                   | Horizontal and Vertical | 72M0G7W                        | 0.0                                      | 0.0   |  |  |  |
| E50. Mod              | E50. Modulation and Services Digital |                     |                         |                                |  |   |  |  |  |
| VSAT                  | 5925 6425                            | T                   | Horizontal and Vertical | 2M60G7W                        | 51.7                                     | 23.87   |  |  |  |
| E50. Mod              | E50. Modulation and Services Digital |                     |                         |                                |  |   |  |  |  |
| VSAT                  | 5925 6425                            | T                   | Horizontal and Vertical | 5M60G7W                        | 51.7                                     | 20.74   |  |  |  |
| E50. Mod              | E50. Modulation and Services Digital |                     |                         |                                |  |   |  |  |  |

### FREQUENCY COORDINATION

| E28.<br>Antenna<br>Id | ( )rhit 'Ivno | Hraanancy | E54/55. Range<br>of Satellite Arc<br>Eastern/Western<br>Limit | E56. Earth Station Azimuth Angle Eastern Limit | E57.<br>Antenna<br>Elevation<br>Angle<br>Eastern<br>Limit | E58. Earth Station Azimuth Angle Western Limit | E59.<br>Antenna<br>Elevation<br>Angle<br>Western<br>Limit | E60. Maximum<br>EIRP Density<br>toward the<br>Horizon(dBW/4kHz) |
|-----------------------|---------------|-----------|---|--|---|--|---|---|
| VSAT                  | Geostationary | 3700 4200 | 114.0/116.0   | 136.81   | 16.22   | 137.84   | 16.6  | 0.0   |
|                       |               |           |   |  |   |  |   |   |

#### REMOTE CONTROL POINT LOCATION

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

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

# FOR OFFICIAL USE ONLY

|  |  |  |   |                           |                   | revei(II              | neters)   | nange( watts)                           | meters                           | <u>/ </u>  |         |      |  |
|--|--|--|---|---------------------------|-------------------|-----------------------|---|---|----------------------------------|------------|---------|------|--|
| E28.<br>Antenna<br>Id  | III  | 33/34. Diameter Scand Sea Height Above Input Power Anten |   |                           |                   | Antenn<br>Al          | aximum<br>a Height  | t E11                                   | 0. Total<br>RP for al<br>ers(dBW |            |         |      |  |
| OTZ<br>Kobuk   | VSAT   | 1  | General<br>Dynamics   | 1241                      | 2.4               |                       | 41.6 d  | Bi at 5.9650                            |                                  |            |         |      |  |
| OTZ<br>Kobuk   | VSAT   | 1  | General<br>Dynamics   | 1241                      | 2.4               |                       | 37.6 d  | Bi at 3.740                             |                                  |            |         |      |  |
| Site ID  | E28.<br>Antenna Id                                   | Antenn   |   |                           |                   |                       | E41/42. Antenna Gain Transmint and/or<br>Recieve(dBi atGHz) |   |                                  |            |         |      |  |
| ANTENNA  |  |  |   |                           |                   |                       |   | <i>J</i> -                              |                                  |            |         |      |  |
|  | nmon Name:   |  |   |                           |                   |                       | E2  | 27. Country:                            |                                  |            |         |      |  |
|  | Identifier:  | ATION (Des   | unation Points)   |                           |                   |                       |   |   |                                  |            |         |      |  |
|  | oit Location:  | TATION (D  | tination Points)  |                           |                   |                       | E24. Co   | ountry:                                 |                                  |            |         |      |  |
|  | nmon Name:   |  |   |                           |                   |                       |   | U Name:                                 |                                  |            |         |      |  |
| following  | g:   | LSAT115W   | /B(S2938)   EUT   | TELSAT                    | 115 W             |                       |   |   | JTHER                            | , please e | nter th | e    |  |
|  | F COMMUNIC   |  | TD (G2020) 1 777  |                           | 44835             | TO 1 4 4 4 4          | 0.11.7  | T.C                                     |                                  |            |         |      |  |
| plot of coordination contours as  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   |  |
|  |  |  | country require   | d? If YES                 | S, attac          | the na                | me of t   | the country(ies)                        | and                              | O Yes      | •       | No   |  |
|  |  |  | quired? If YES,   |                           |                   |                       |   | *                                       |                                  | • Yes      | 0       | No   |  |
| E17. Is the  | facility operated                                    | by remote co   | ntrol? If YES, provi  | ide the loca              | tion and          | telephone             | e number  | of the control poin                     | t.                               | <u>Yes</u> | •       | No   |  |
| 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?                     |  |  |   |                           |                   |                       |   |   |                                  |            | No      | ⊙N/A |  |
| antenna(s) qualificatio  | comply with the n measurement?                       | antenna gain<br>If NO, provid                            | n the Fixed Satellite<br>patterns specified in<br>de as a technical ana | Section 25<br>lysis showi | .209(a)<br>ng com | and (b) as pliance wi | demonst<br>th two-de  | trated by the manufagree spacing policy | acturer's                        | Yes        | • No    | ○N/A |  |
| E14. Site F  | Elevation (AMSI                                      | L):  |   |                           | 44.2 m            | eters                 |   |   |                                  |            |         |      |  |
| E13. Lat/L   | 3. Lat/Lon Coordinates are: NAD-27 • NAD-83          |  |   |                           |                   |                       |   |   | 83                               | ○N/A       |         |      |  |
| E12. Long  |  |  |   |                           |                   |                       |   |   |                                  |            |         |      |  |
| E11. Latitı  | 1. Latitude: 66 ° 54 ' 27.3 " N                      |  |   |                           |                   |                       |   |   |                                  |            |         |      |  |
|  | a of Operation: Kobuk, AK                            |  |   |                           |                   |                       |   |   |                                  |            |         |      |  |
| E4. State  |  | E8. County: AK E9. Zip Code 99751                        |   |                           |                   |                       |   |   |                                  |            |         |      |  |
| E3. Street:  |  | _  | Creek Road  | ]                         | E7. City          | <i>'</i> :            |   | Kobuk                                   |                                  |            |         |      |  |
| E2: Contac   |  |  | Greg Tooke E6. Phone  |                           |                   |                       | er:   | (907) 550                               | 0-8364                           |            |         |      |  |
|  | Earth Station Site ntifier: OTZ Kobuk E5. Call Sign: |  |   |                           |                   |                       |   |   |                                  |            |         |      |  |

| E28.<br>Antenna<br>Id   | E43/44. E45. T/R   |  | E46. Antenna<br>olarization(H,V,L,  | E47. E48. Maximu<br>Emission EIRP per<br>Designator Carrier(dBV  |  |  |   | E49. Maximum ERIP<br>Density per<br>Carrier(dBW/4kHz) |                 |           |  |  |
|---|--|--|---|--|--|--|---|---|-----------------|-----------|--|--|
| VSAT  | 3700 4200  | R H  | 8 1   |  |  |  |   |   |                 |           |  |  |
| E50. Mod  | dulation and Se  | rvices Digital   |   |  | "  |  |   |   |                 |           |  |  |
| VSAT  | 5925 6425  | Т  | orizontal and Vertic  | al 5M60G7  | 'W 54.7  |  | 23.24   |   |                 |           |  |  |
| E50. Mod  | dulation and Se  | rvices Digital   |   | "  | "  |  |   |   |                 |           |  |  |
| REQUEN  | CY COORDINA  | TION   |   |  |  |  |   |   |                 |           |  |  |
| E28.<br>Antenna<br>Id   | E51. Satellite<br>Orbit Type   | E52/53.<br>Frequency<br>Limits(MHz)  | E54/55. Range<br>of Satellite Arc<br>Eastern/Western<br>Limit   | E56. Earth Station Azimuth Angle Eastern Limit   | E57.<br>Antenna<br>Elevation<br>Angle<br>Eastern<br>Limit  | E58. Earth Station Azimuth Angle Western Limit | E59.<br>Antenna<br>Elevation<br>Angle<br>Western<br>Limit   | E   | IRP D<br>toward |           |  |  |
| VSAT  | Geostationary  | 3700 4200  | 114.0/116.0   | 134.73   | 8.11   | 135.73   | 8.39  | 0.0   |                 |           |  |  |
|   | Geostationary  | 5925 6425  | 114.0/116.0   | 134.73   | 8.11   | 135.73   | 8.39  | -54.3   | 1               |           |  |  |
| EMOTE (   | CONTROL POIN   |  | 11.   |  |  |  | '   |   |                 |           |  |  |
| NOTE: Plea<br>iled.<br>E62. Street  |  | gn of the controll   | ing station, not the calls  | ign for which t  | his application  | is being                                       |   |   |                 |           |  |  |
| E63. City   |  |  | <br> -  |  |  |  | E67/68.   |   | F6              | 4. Zip Co |  |  |
| ,   | FC   |  | LLITE EARTH 2 - Schedule B:   |  |  |  | State/Co<br>/<br>ONS  |   |                 | H. Zip Co |  |  |
|   | FC   |  | LLITE EARTH 2 - Schedule B:   | STATIO   | l and Ope  |  | State/Co<br>/<br>ONS  |   |                 | T. Zip Co |  |  |
| Location of   | f Earth Station Site   | CC Form 31   | LLITE EARTH 2 - Schedule B:   | STATIOI<br>(Technica<br>FFICIAL U  | l and Ope  |  | State/Co<br>/<br>ONS  |   |                 | T. Zip Co |  |  |
| Location of<br>E1: Site Ide   | f Earth Station Site<br>entifier:  | CC Form 31   | LLITE EARTH 2 - Schedule B:   | STATION<br>(Technical<br>FFICIAL U   | SE ONLY  5. Call Sign:   | rational I                                     | State/Co<br>/<br>ONS<br>Descriptio  | n)  |                 | T. Zip Co |  |  |
| Location of   | f Earth Station Site<br>entifier:<br>ct Name   | CC Form 31  8 Mile Greg Tooke  | LLITE EARTH 2 - Schedule B:   | STATION (Technical Estate of Estate  | l and Ope  | rational I                                     | State/Co<br>/<br>ONS  | n)  |                 | T. Zip Co |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:  | f Earth Station Site<br>entifier:<br>et Name   | CC Form 31  8 Mile Greg Tooke  | LLITE EARTH 2 - Schedule B: FOR OF  | STATION (Technical STATION (Technical STATION )  | SE ONLY  5. Call Sign: 6. Phone Numb 7. City:  | rational I                                     | State/Co<br>/<br>ONS<br>Descriptio  | n)  |                 | T. Zip Co |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:<br>E4. State   | f Earth Station Site<br>entifier:<br>et Name   | Reg Tooke Alaska Pennin  | LLITE EARTH 2 - Schedule B: FOR OF  | STATION (Technical STATION (Tech | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County:   | rational I                                     | State/Co<br>// ONS<br>Descriptio  | n)  |                 | T. Zip Co |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:<br>E4. State<br>E10. Area  | f Earth Station Site entifier: et Name of Operation:   | 8 Mile<br>Greg Tooke<br>Alaska Pennin  | LLITE EARTH 2 - Schedule B:  FOR OI   | STATION (Technical STATION (Tech | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code   | rational I                                     | State/Co<br>// ONS<br>Descriptio  | n)  |                 | T. Zip Co |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:<br>E4. State<br>E10. Area<br>E11. Latitu   | f Earth Station Site entifier: et Name of Operation: ide:  | 8 Mile<br>Greg Tooke<br>Alaska Pennin<br>AK<br>58 ° 43 ' 41.0'<br>156 ° 48 ' 59.2  | LLITE EARTH 2 - Schedule B:  FOR OI   | STATION (Technical   | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  | per:   | State/Co<br> /<br>  ONS<br>  Descriptio<br>  (907) 550-83   | n)  |                 |           |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:<br>E4. State<br>E10. Area<br>E11. Latitu<br>E12. Longi<br>E13. Lat/L   | f Earth Station Site entifier: et Name of Operation: ide: itude:   | Record States of | LLITE EARTH 2 - Schedule B:  FOR OI   | STATION (Technical Experience of the second  | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  | per:   | State/Co<br>// ONS<br>Descriptio  | n)  |                 | N/A       |  |  |
| Location of<br>E1: Site Ide<br>E2: Contac<br>E3. Street:<br>E4. State<br>E10. Area<br>E11. Latitu<br>E12. Longi<br>E13. Lat/L   | f Earth Station Site entifier: et Name of Operation: ide:  | Record States of | LLITE EARTH 2 - Schedule B:  FOR OI   | STATION (Technical Experience of the second  | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  | per:   | State/Co<br> /<br>  ONS<br>  Descriptio<br>  (907) 550-83   | n)  |                 |           |  |  |
| Location of E1: Site Ide E2: Contact E3. Street: E4. State E10. Area E11. Latitut E12. Longi E13. Lat/L E14. Site E15. If the Intenna(s) of E15. If | f Earth Station Site entifier: et Name of Operation: itude: on Coordinates are Elevation (AMSL): proposed antenna(comply with the are comply with the are  | 8 Mile Greg Tooke Alaska Pennin AK 58 ° 43 ' 41.0 ' 156 ° 48 ' 59.2 :: s) operate in the Fatenna gain patter.  | LLITE EARTH 2 - Schedule B:  FOR OI   | STATION (Technical ESTATION (Technical ESTATION  | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  NAD-27  0.0 meters  tationary satell b) as demonstra  | per: (dittes, do(es) the ated by the ma        | State/Co // ONS Descriptio  (907) 550-83  99633  NAD-83  e proposed nufacturer's                      | <b>n)</b>   |                 |           |  |  |
| Location of E1: Site Ide E2: Contact E3. Street: E4. State E10. Area E11. Latitute E12. Longing E13. Lat/L E14. Site E15. If the partenna(s) of qualification E16. If the Service (FS   | f Earth Station Site entifier: et Name of Operation: ide: itude: on Coordinates are Elevation (AMSL): proposed antenna (comply with the arn measurement? If proposed antenna (SS) with non-geosts                    | 8 Mile Greg Tooke Alaska Pennin  AK 58 ° 43 ' 41.0' 156 ° 48 ' 59.2  Example 150 operate in the Fatenna gain patter  NO, provide as a selection of the pattern of the patte | LLITE EARTH 2 - Schedule B:  FOR OI  Sulla Highway  "N 2 " W  | ESTATION (Technical ESTATION (Technical ESTATION ESTATION (Technical ESTATION ESTATI | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  NAD-27  0.0 meters  tationary satell b) as demonstrate with two-deg if they operate by with the ante-                 | erational I                                    | State/Co // ONS Descriptio  (907) 550-8: 99633  NAD-83  e proposed nufacturer's olicy. Satellite      | <b>n)</b>   |                 | )N/A      |  |  |
| Location of E1: Site Ide E2: Contact E3. Street: E4. State E10. Area E11. Latitute E12. Longing E13. Lat/L E14. Site E14. Site E15. If the juntenna(s) of qualification E16. If the Service (FS specified in  | f Earth Station Site entifier: et Name of Operation: itude: itude: encordinates are Elevation (AMSL): proposed antenna (comply with the arn measurement? If proposed antenna (SS) with non-geostar Section 25.209(a) | 8 Mile Greg Tooke Alaska Pennin AK 58 ° 43 ' 41.0 ' 156 ° 48 ' 59.2 :: s) operate in the Fatenna gain patter NO, provide as a s) do not operate ationary satellites 2) and (b) as demo   | FOR OF  Fixed Satellite Service (Ins specified in Section 2 technical analysis show in the Fixed Satellite Se, do(es) the proposed an | ESTATION (Technical FICIAL U. ESTATION (Technical ESTATION (Techni | SE ONLY  5. Call Sign: 6. Phone Numb 7. City: 8. County: 9. Zip Code Mile, AK  NAD-27 0.0 meters  tationary satell b) as demonstrate with two-deg if they operate by with the anterestation measurer | erational I                                    | State/Co// ONS Descriptio  (907) 550-83  99633  NAD-83  e proposed nufacturer's olicy. Satellite orms | m) 364  | ● No  No        | )N/A      |  |  |

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|------------------------------------|--|---|---|------------------------|--|-------------------------|--------------------------------------|---|-----------|-----------------------------------|--------------------------------------|--|---------------------------|------------------|-----------------------------|--|
| III.                               | E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as  E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA |   |   |                        |  |                         |                                      |   |           |                                   |                                      |  | nd                        | Yes              | <ul><li>No</li></ul>        |  |
| notifi<br>FAA<br>FAII<br>OF T      | ication<br>'s study<br>LURE T<br>THIS A  | is requi<br>y regard<br>FO COM<br>PPLIC | red, have<br>ling the p<br>MPLY W<br>ATION.   | you atta<br>otential l | iched a<br>hazard o                    | copy of a<br>of the str | compleucture                         | eted F(<br>to avia  | CC For    | rm 8                              | ere FAA<br>854 and/or<br>' IN THE R  |  | URN                       | Yes              | • No                        |  |
| POIN                               | TS OF C  | OMMUN                                   | ICATION                                       |                        |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| 11                                 | lite Nar<br>wing:  | me:EUT                                  | ELSAT11                                       | 5WB(S2                 | 938) I E                               | UTELSA                  | T 115 W                              | /B   11   | 4.9 W.I   | L. If                             | you selecte                          | d O                                    | ΓHER, μ                   | please ent       | er the                      |  |
| -                                  |  | on Name                                 | e:  |                        |  |                         |                                      |   | E22.      | ITU                               | Name:                                |  |                           |                  |                             |  |
| E23. Orbit Location: E24. Country: |  |   |   |                        |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
|                                    |  |   | ICATION                                       | Destinatio             | n Points)                              |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
|                                    | Site Ide   |   |   | `                      |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| E26.                               | Commo  | on Name                                 | e:  |                        |  |                         |                                      |   |           | E27                               | . Country:                           |  |                           |                  |                             |  |
| ANTE                               | NNA  |   |   |                        |  |                         |                                      |   |           |                                   | ,                                    |  |                           |                  |                             |  |
| Site                               | II .   | ll l                                    | E29.  | E3                     | ll ll                                  | E31.                    | E3                                   |   | II .      | <b>E4</b> 2                       |                                      |  |                           | Transmint and/or |                             |  |
| ID                                 | Anten  | na Id                                   | Quantity                                      | -                      |  | Model                   | Anteni                               | ıa Size   |           |                                   | Recieve(_                            |  | dBi at _                  | Bi atGHz)        |                             |  |
| 8<br>Mile                          | VSAT   | 1                                       | 1 General Dynamics 1241 2.4 37.6 dBi at 3.740 |                        |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| 8<br>Mile                          | VSAT 1 General Dynamics 1241 2.4 41.6 dBi at 5.9650  |   |   |                        |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| Ante                               |  |   |   |                        |  |                         |                                      | Above Height Above Input Power Anter  |           |                                   | ntenna<br>Abo                        | Maximum E40. Tota EIRP for carriers(dB |                           |                  |                             |  |
| VSA                                | Γ 0.0  | 0.0                                     |   | 2.0                    |  | 40.0                    |                                      | 0.0   |           | 2                                 | 20.0                                 | 0.                                     | .0                        |                  | 54.7                        |  |
| FREQ                               | UENCY  |   |   | II                     |  | -11                     |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| E2<br>Ante                         | nna  | E43/4<br>Freque<br>Bands(N              | ency  | E45.<br>T/R<br>Mode    |  | antenna<br>on(H,V,L     | 12 N II                              | E47.<br>missio<br>esignat   | n         | ]                                 | 8. Maximui<br>EIRP per<br>irrier(dBW |  |                           | Density          | um ERIP<br>y per<br>W/4kHz) |  |
| VSA                                |  | 00 4200                                 |   |                        | rizontal                               | and Verti               |                                      |   |           |                                   |                                      |  | 0.0                       |                  |                             |  |
|                                    |  |   | l Services                                    |                        |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| VSA                                |  | 25 6425                                 |   |                        | rizontal                               | and Vert                | ical 5M                              | 60G7V   | V 54.     | 7                                 |                                      |  | 23.55                     |                  |                             |  |
| -                                  |  |   | l Services                                    |                        | - Income                               | una vert                | 10a1   51v1                          | 00077   | , 12      |                                   |                                      |  | 20.55                     |                  |                             |  |
|                                    |  |   |   | Digital                |  |                         |                                      |   |           |                                   |                                      |  |                           |                  |                             |  |
| Ante                               | E28. Antenna Id  E51. Satellite Orbit Type    E52/53. Frequency Limits(MHz)   Eastern/Wester Limit   |   |   | ellite Arc<br>1/Wester | Station<br>Azimuth<br>Angle<br>Eastern |                         | Anteni<br>Elevati<br>Angle<br>Easter | E57. Antenna Clevation Angle Eastern Limit E58. Earth Station Azimuth Angle Western Limit |           | h   Elevation<br>Angle<br>Western |                                      | n EIRP Density toward the              |                           |                  |                             |  |
| VSA                                | Γ Ge   | eostation                               | ary 3700                                      | 4200                   | 114.0/116.0                            |                         |                                      |   | 18.84     |                                   | 133.69 14.35                         |  | 35                        | 0.0              |                             |  |
|                                    |  |   | ary 5925                                      |                        |  |                         |                                      | 08.0 18.84 133.69   |           |                                   | 14.                                  |  | -60.04                    |                  |                             |  |
| REMO                               | TE CO  | NTROL P                                 | OINT LO                                       | CATION                 |  |                         |                                      |   |           |                                   |                                      |  |                           | JL               |                             |  |
|                                    | Call Sign  | enter the c                             | allsign of th                                 | e controllir           | ıg station,                            | not the call            | lsign for v                          | hich thi  | s applica | tion i                            |                                      | 66. P                                  | hone Nun                  | nber             |                             |  |
| E62. S                             | Street Add   | dress                                   |   |                        |  |                         |                                      |   |           |                                   | <u> </u>                             |  |                           |                  |                             |  |
| E63. (                             | City   |   |   |                        |  |                         | E68. Cou                             | nty   |           |                                   |                                      |  | E67/68.<br>State/Cou<br>/ | ıntry            | E64. Zip Code               |  |

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