Date & Time Filed: Jun 2 2010 6:08:02:703PM File Number: SES-MOD-INTR2010-01730

| 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: E060099 Modification

| gal Name of Ap | plicant | | |
|----------------|----------------------|---------------|-------------------------|
| Name: | The Boeing Company | Phone Number: | 866-248-1493 |
| DBA Name: | | Fax Number: | 206-662-0701 |
| Street: | Attn | E-Mail: | bob.douglass@boeing.com |
| | PO Box 3707 | | |
| City: | Seattle | State: | WA |
| Country: | USA | Zipcode: | 98124 –2207 |
| Attention: | Mr Robert B Douglass | | |

9–16. Name of Contact Representative

Name: Ron Center Phone Number: 206–544–6044

Company: The Boeing Company **Fax Number:** 206–662–0701

Street: P.O. Box 3707 E-Mail: ronald.e.center@boeing.com

City: Seattle State: WA

Country: USA **Zipcode:** 98124–2207

Attention: Freq Mgt Svcs M/C **Relationship:** Same

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

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

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

o b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

b7. Notification of Minor Modification

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

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

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

(N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b 14. Modification of Database Entry

| • | 159. If No, indicate reason for fee exemption (s | ee 47 C.F.R.Section 1.1114). |
|---|---|---|
| Ofther(please explain): | ercial educational licensee | |
| | | |
| 17d. | | |
| Fee Classification CGX – Fixed Satellite Station | Γransmit/Receive Earth | |
| 18. If this filing is in reference to an existing station, enter: | 19. If this filing is an amendment to a pending a modification please enter only the file number: | pplication enter both fields, if this filing is a |
| (a) Call sign of station: E060099 | (a) Date pending application was filed: | (b) File number: |
| E000099 | | SESMOD2007060800776 |
| | | |

TYPE OF SERVICE

| 20. NATURE OF SERVICE: This filing is for an authorization to provide | e or use the following type(s) of service(s): Select all that apply: |
|--|---|
| a. Fixed Satellite | |
| b. Mobile Satellite | |
| c. Radiodetermination Satellite | |
| d. Earth Exploration Satellite | |
| e. Direct to Home Fixed Satellite | |
| f. Digital Audio Radio Service | |
| g. Other (please specify) | |
| _ | |
| 21. STATUS: Choose the button next to the applicable status. Choose | 22. If earth station applicant, check all that apply. |
| only 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 s facilities: | service, see instructions regarding Sec. 214 filings. Choose one. Are these |
| O Connected to a Public Switched Network Not connected to a | Public Switched Network N/A |
| 24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a | pplicable frequency band(s). |
| a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz) | |
| c.Other (Please specify upper and lower frequencies in MHz.) | |
| Frequency Lower: Frequency Upper: (Please specify addition | nal frequencies in an attachment) |

TYPE OF STATION

| 25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one. | |
|---|--|
| a. Fixed Earth Station | |
| b. Temporary–Fixed Earth Station | |
| c. 12/14 GHz VSAT Network | |
| d. Mobile Earth Station | |
| e. Geostationary Space Station | |
| f. Non–Geostationary Space Station | |
| g. Other (please specify) | |
| 26. TYPE OF EARTH STATION FACILITY: | |
| | |
| "For Space Station applications, select N/A." | |

PURPOSE OF MODIFICATION

| 27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.) |
|--|
| a — authorization to add new emission designator and related service |
| b — authorization to change emission designator and related service |
| c — authorization to increase EIRP and EIRP density |
| d — authorization to replace antenna |
| e — authorization to add antenna |
| f — authorization to relocate fixed station |
| g — authorization to change frequency(ies) |
| h — authorization to add frequency |
| i — authorization to add Points of Communication (satellites & Double |
| j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub |
| 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) |
| |

ENVIRONMENTAL POLICY

| the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. | | RAD | HAZ | Z | | |
|---|-------|-------|-----|-------|---|-----|
| ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34. | autic | al en | rou | te or | , | |
| 29. Is the applicant a foreign government or the representative of any foreign government? | 0 | Yes | • | No | | |
| 30. Is the applicant an alien or the representative of an alien? | 0 | Yes | • | No | 0 | N/A |
| 31. Is the applicant a corporation organized under the laws of any foreign government? | 0 | Yes | • | No | 0 | 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 | • | No | 0 | N/A |

Yes O No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of

| | | |
|--|-------------|----------|
| 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? | O Yes • | No O N/A |
| 34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote. | | |
| BASIC QUALIFICATIONS | | |
| 35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents. | • Yes | No |
| 36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances. | O Yes | No |

| 37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances. | Yes | O No |
|--|---------------|-------|
| | Felony Disclo | osure |
| 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 | O 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. | O 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 | O 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. | O Yes | No |
| 42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, w | hat administr | ation has |

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

coordinated or is in the process of coordinating the space station?

The purpose of this application is to replace the Vertex 1188 with a Vertex 1189. This application also increases the Maximum EIRP and adds new emission designators. This application contains a complete list of all required emissions, and all previous emissions are included in the application.

| 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. | O A |
|--|------------|
| By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements. | ● B |
| By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached. | o c |

CERTIFICATION

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

| 44. Applicant is a (an): (Choose the button next to ap | oplicable response.) | |
|--|------------------------------|--|
| o Individual | | |
| O Unincorporated Association | | |
| • Partnership | | |
| Corporation Governmental Entity Other (please specify) | | |
| - ~ 15 ! | | |
| Other (please specify) | | |
| - | | |
| | | |
| | | |
| 45. Name of Person Signing | 46. Title of Person Signing | |
| Robert B Douglass | Manager, Spectrum Management | |
| > | <u> </u> | |
| | | |
| | | |

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

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

| Location of Earth St | ation Site | | | | |
|----------------------|---------------|----------------------|--------------|---------------------------------------|--|
| E1: Site Identifier: | Vertex 1189 | E5. Call Sign: | E060099 | | |
| E2: Contact Name | Ronald Center | E6. Phone Number: | 206-544-6044 | | |
| E3. Street: | P.O. Box 3707 | E7. City: | Seattle | | |
| | | E8. County: | King | | |
| E4. State | WA | E9. Zip Code | 98124 | | |
| E10. Area of Operat | cion: | CONUS, AK, HI | | | |
| E11. Latitude: | 0 °0 '0.0 " | | | | |
| E12. Longitude: | 0 °0 '0.0 " | | | | |
| E13. Lat/Lon Coord | linates are: | NAD-27 | O NAD-83 | N/A N/A N/A N/A N/A N/A N/A N/ | |
| E14. Site Elevation | (AMSL): | 0.0 meters | | | |
| | | | | | |

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

| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements? | O Yes O No | ⊚ N/A | |
|---|---|--------------|----|
| E17. Is the facility operated by remote control? If YES, provide the loca point. | ation and telephone number of the control | O Yes O | No |
| E18. Is frequency coordination required? If YES, attach a frequency coordination | ordination report as | O Yes ● | No |
| E19. Is coordination with another country required? If YES, attach the coordination contours as | name of the country(ies) and plot of | O Yes • | No |
| E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAZ the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION. | A's study regarding the potential hazard of | O Yes 💿 | No |
| POINTS OF COMMUNICATION | | 1 | |
| Satellite Name: PERMITTED LIST PERMITTED LIST If you see | elected OTHER, please enter the following: | | |
| E21. Common Name: | E22. ITU Name: | | |
| E23. Orbit Location: | E24. Country: | | |
| POINTS OF COMMUNICATION (Destination Points) | | | |
| E25. Site Identifier: Vertex 1189 | | | |

| E26. Common Name: | E27. Country: USA |
|-------------------|-------------------|
| | 1 |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size <meters></meters> | E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz) |
|-------------|--------------------|---------------|----------------------|-----------------|--|---|
| Vertex 1189 | VERTEX 1.8 | 1 | General Dynamics | Vertex RSI 1189 | 1.8 | 44.0 dBi at 11.950 |
| Vertex 1189 | VERTEX 1.8 | 1 | General Dynamics | Vertex RSI 1189 | 1.8 | 45.3 dBi at 14.250 |

| Id | Diameter | | , , | Height Above | Input Power at | E39. Maximum Antenna Height Above Rooftop (meters) | EIRP for al |
|------------|----------|-----|-----|--------------|----------------|---|-------------|
| VERTEX 1.8 | 1.8/1.8 | 3.0 | 0.0 | 0.0 | 25.0 | 0.0 | 59.28 |

FREQUENCY

| | E43/44. Frequency Bands (MHz) | E45. T/R Mode | | | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|------------|-------------------------------------|---------------------|---------------------|---------|---|---|
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 11M9G7D | 0.0 | 0.0 |

| E50. Modulation | and Services (If th | ne complete description | on does not annear in | this boy please go to | o the end of the form | to view it in its | |
|----------------------------|--|-------------------------|-----------------------|------------------------|-----------------------|-------------------|--|
| entirety.) | and services (if the | ic complete description | on does not appear in | uns box, piease go to | o the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 128KG7D | 0.0 | 0.0 | |
| entirety.) | E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Digital Data Carrier | | | | | | |
| | | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 1M00G7D | 0.0 | 0.0 | |
| E50. Modulation entirety.) | and Services (If the | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 1M50G7D | 0.0 | 0.0 | |

| E50. Modulation | and Sarvices (If the | e complete description | on does not appear in | this how please go to | the end of the form | to view it in its | |
|--|--|-------------------------|-----------------------|------------------------|-----------------------|-------------------|--|
| entirety.) | and services (ii th | ie complete description | on does not appear in | uns box, piease go u | o the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 20M0G7D | 0.0 | 0.0 | |
| entirety.) | E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Digital Data Carrier | | | | | | |
| VERTEX 1.8 | 11700 | R | Linear and Circular | 24M3G7D | 0.0 | 0.0 | |
| , | 12200 | | | | | | |
| E50. Modulation entirety.) Digital Da | ` | ne complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 256KG7D | 0.0 | 0.0 | |

| E50. Modulation | and Sarvices (If th | e complete description | on does not annear in | this how please go to | the end of the form | to view it in its |
|--|----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-------------------|
| entirety.) | and services (II th | ie complete description | in does not appear in | tills box, please go to | o the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 29M5G7D | 0.0 | 0.0 |
| E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Digital Data Carrier | | | | | | |
| | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 2M00G7D | 0.0 | 0.0 |
| E50. Modulation entirety.) | and Services (If the | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 32K0G7D | 0.0 | 0.0 |

| E50. Modulation | and Sarvices (If th | e complete description | on does not appear in | this how please go to | the end of the form | to view it in its | |
|--|--|-------------------------|-----------------------|------------------------|-----------------------|-------------------|--|
| entirety.) | and services (if the | ie complete description | on does not appear in | uns box, piease go u | o the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 32M4G7D | 0.0 | 0.0 | |
| entirety.) | E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Digital Data Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 3M00G7D | 0.0 | 0.0 | |
| E50. Modulation entirety.) Digital Da | · · | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 461KG7D | 0.0 | 0.0 | |

| E50. Modulation | and Sarvices (If th | e complete description | on does not appear in | this how please go to | o the end of the form | to view it in its | |
|----------------------------|--|-------------------------|-----------------------|-------------------------|-----------------------|-------------------|--|
| entirety.) | and services (if the | ie complete description | on does not appear in | tills box, please go to | o the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 4M00G7D | 0.0 | 0.0 | |
| entirety.) | E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Digital Data Carrier | | | | | | |
| | | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 512KG7D | 0.0 | 0.0 | |
| E50. Modulation entirety.) | and Services (If the | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its | |
| Digital Da | ta Carrier | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 5M00G7D | 0.0 | 0.0 | |

| E50. Modulation entirety.) | and Services (If the | ne complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
|--|----------------------|-------------------------|-----------------------|------------------------|-----------------------|-------------------|
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 64K0G7D | 0.0 | 0.0 |
| entirety.) Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 6M75G7D | 0.0 | 0.0 |
| E50. Modulation entirety.) Digital Da | | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 768KG7D | 0.0 | 0.0 |

| E50. Modulation | and Services (If th | e complete description | on does not annear in | this how please go to | o the end of the form | to view it in its |
|--|----------------------|-------------------------|-----------------------|------------------------|-----------------------|-------------------|
| entirety.) | and betvices (if the | ie complete description | on does not appear in | uns box, pieuse go k | o the cha of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 8M00G7D | 0.0 | 0.0 |
| E50. Modulation entirety.) Digital Da | | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
| | | | | | | |
| VERTEX 1.8 | 11700 12200 | R | Linear and Circular | 922KG7D | 0.0 | 0.0 |
| E50. Modulation entirety.) | and Services (If the | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 11M9G7D | 59.28 | 24.55 |

| E50. Modulation entirety.) | and Services (If th | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
|--|---------------------|-------------------------|-----------------------|------------------------|-----------------------|-------------------|
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 128KG7D | 46.3 | 31.25 |
| entirety.) Digital Da | | | | | o the end of the form | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 1M00G7D | 54.8 | 30.82 |
| E50. Modulation entirety.) Digital Da | · · | ne complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 1M50G7D | 56.8 | 31.06 |

| E50. Modulation entirety.) Digital Da | | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
|--|----------------------|------------------------|-----------------------|------------------------|-----------------------|-------------------|
| Digital Da | ca carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 20M0G7D | 59.28 | 22.29 |
| E50. Modulation entirety.) Digital Da | · . | e complete description | on does not appear in | uns box, piease go u | o the end of the form | to view it in its |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 24M3G7D | 59.28 | 21.44 |
| E50. Modulation entirety.) | and Services (If the | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 256KG7D | 49.3 | 31.24 |

| E50. Modulation | and Services (If th | ne complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
|--|---------------------|-------------------------|-----------------------|------------------------|-----------------------|-------------------|
| entirety.) | ` | 1 1 | 11 | , i | | |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 29M5G7D | 59.28 | 20.6 |
| E50. Modulation entirety.) Digital Da | | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
| VERTEX 1.8 | 14000 | Т | Linear and Circular | 2M00G7D | 57.34 | 30.35 |
| | 14500 | | | | | |
| E50. Modulation entirety.) Digital Da | · · | le complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| | | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 32K0G7D | 40.3 | 31.27 |

| E50. Modulation | and Services (If th | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
|----------------------------|---------------------|------------------------|-----------------------|------------------------|-----------------------|-------------------|
| entirety.) | | r | T | , , | | |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 32M4G7D | 59.28 | 20.2 |
| E50. Modulation entirety.) | | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 3M00G7D | 59.28 | 30.53 |
| E50. Modulation entirety.) | and Services (If th | e complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 461KG7D | 51.8 | 31.18 |

| E70 M 11 d | 1.0 ' (TC.1 | 1 . 1 | 1 . | 41 1 1 4 | 4 1 0 4 0 | |
|----------------------------|---------------------|-------------------------|-----------------------|------------------------|---------------------|-------------------|
| E50. Modulation | and Services (If th | ie complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| entirety.) | | | | | | |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 | Т | Linear and Circular | 4M00G7D | 59.28 | 29.28 |
| VERTEX 1.6 | 14500 | | Linear and Circular | 4WOOG7D | 39.20 | 29.20 |
| E50. Modulation | and Services (If th | ne complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| entirety.) | · | • | • • | | | |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 | Т | Linear and Circular | 510VC7D | 52.3 | 31.23 |
| VERIEA 1.6 | 14500 | | Linear and Circular | 312KG/D | 32.3 | 31.23 |
| E50. Modulation entirety.) | and Services (If th | ne complete description | on does not appear in | this box, please go to | the end of the form | to view it in its |
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 5M00G7D | 59.28 | 28.31 |

| E50. Modulation entirety.) | and Services (If th | e complete description | on does not appear in | this box, please go to | o the end of the form | to view it in its |
|--|---------------------|------------------------|-----------------------|------------------------|-----------------------|-------------------|
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | T | Linear and Circular | 64K0G7D | 43.3 | 31.26 |
| E50. Modulation entirety.) Digital Da | · · | e complete description | on does not appear in | ums box, pieuse go k | o the end of the form | |
| VERTEX 1.8 | 14000 14500 | T | Linear and Circular | 6M75G7D | 59.28 | 27.01 |
| E50. Modulation entirety.) Digital Da | ta Carrier | | | | o the end of the form | |
| VERTEX 1.8 | 14000 14500 | T | Linear and Circular | 768KG7D | 53.8 | 30.97 |

| E50. Modulation entirety.) | and Services (If the | ne complete description | on does not appear in | this box, please go | to the end of the form | to view it in its |
|--|----------------------|-------------------------|-----------------------|---------------------|------------------------|-------------------|
| Digital Da | ta Carrier | | | | | |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 8M00G7D | 59.28 | 26.27 |
| E50. Modulation entirety.) Digital Da | | ne complete description | on does not appear in | this box, please go | to the end of the form | to view it in its |
| VERTEX 1.8 | 14000 14500 | Т | Linear and Circular | 922KG7D | 54.8 | 31.17 |
| E50. Modulation entirety.) Digital Da | | ne complete description | on does not appear in | this box, please go | to the end of the form | to view it in its |

FREQUENCY COORDINATION

| E28. Antenna Id | E51. Satellite Orbit Type | E52/53. Frequency Limits(MHz) | E54/55. Range of Satellite Arc Eastern/West ern Limit | Station Azimuth Angle | E57. Antenna Elevation Angle Eastern Limit | Station Azimuth Angle | Antenna Elevation | E60. Maximum EIRP Density toward the Horizon (dBW/4kHz) |
|--------------------|------------------------------|-------------------------------------|---|-----------------------------|--|-----------------------------|----------------------|--|
| VERTEX 1.8 | Geostationary | 11700 12000 | 10.0/180.0 | 0.0 | 5.0 | 0.0 | 5.0 | 0.0 |
| | Geostationary | 14000 14500 | 10.0/180.0 | 0.0 | 5.0 | 0.0 | 5.0 | -2.5 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign | | E66. Phone Number | | |
|---|-------------|-------------------|--------------------------|---------------|
| NOTE: Please enter the callsign of the contro callsign for which this application is being filed. | | | | |
| E62. Street Address | | | | |
| | | | | |
| E63. City | E68. County | | E67/68. State/Country | E64. Zip Code |

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