| FCC 312 | | FE | DERAL COMM | UNICA | TIONS C | COMMISSION | | ge 1: Location | | | |
|--|--|-------------------------|-----------------------------------|---------------------------|------------------|---------------------|---|------------------------------------|--|--|--|
| APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS Technical and Operational Description) (Place an "X" in one of the blocks below) | | | | | | | | | | | |
| License of New Station Registration of new Domestic Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification Receive-Only Station | | | | | | | | | | | |
| B1. Location of Earth Station Site. If temporary-fixed, mobile, or VSAT remote facility, specify area of operation and point of contact. If VSAT hub station, give its location For VSAT networks attach individual Schedule B, Page 1 sheets for each hub station and each remote station. Individually provide the Location, Points of Communications, and Destination Points for each hub and remote station. | | | | | | | | | | | |
| - | SITE | | | 1c. Telephon 701 662-1 | | | B1j. Geographic Coordinates N/S, Deg Min Sec E/W | B1k. Lat./Lon. Coordinates are: | | | |
| B1d. Mailing Street Address of Station of 211 22 nd St. NW PO Box 180 | | eration | Ble. Name of Contact Pe | erson | | | Lat. 48° 7' 50.0" Lon. 98° 52' 9.0" | NAD-27 NAD-83 | | | |
| B1f. City Devils Lake | B1g. Coun | ^{ty} Ramsey | | | B1h. State ND | B1i. Zip Code 58301 | B11. Site Elevation (AMSL) 445.62m / 1462.0 ft | | | | |
| B2. Points of Communications | B2. Points of Communications: List the names and orbit locations of all satellites with which this earth station will communicate. The entry "ALSAT" is sufficient to identify the names and locations of all satellite facilities licensed by the U.S. All non-U.S. licensed satellites must be listed individually. | | | | | | | | | | |
| Satellite Name and Orbit Loca | tion | | Satellite Name and Orbit Location | | | | Satellite Name and Orbit Location | | | | |
| ALSAT | | | | | | | | | | | |
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| | | | | | | | acility identified in section B2 above, spe te system. Use additional sheets as need | | | | |
| Satellite Name | | List of Destina | tion Points | | | | | | | | |
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FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

B4. Earth Station Antenna Facilities: Use additional pages as needed.

| (a) Site ID* | (b) Antenna ID** | (c) Quantity | (d) Manufacturer | (e) Model | (f) Antenna Size (meters) | (g) Antenna Gain Transmit and/or Receive (dBi atGHz) |
|--------------|---------------------|-----------------|-------------------|-------------|---------------------------------|--|
| SITE 1 | ANT 1 | 1 | Antenna Tech Corp | SIMULSAT 5M | 5 M | 44.0 dBi 4.0000 GHz |
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B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

| | | Maximum Ar | ntenna Height | (e) Building | (f) Maximum | (g) Total Input | |
|------------------------|---|---------------------------------------|---|---|--|---------------------------------------|---|
| (a) Antenna ID** | (b) Antenna Structure Registration No. | (c) Above Ground Level (meters) | (d) Above Mean Sea Level (meters) | Height Above Ground Level (meters)*** | Antenna Height Above Rooftop (meters)*** | Power at antenna flange (Watts) | (h) Total EIRP for all carriers (dBW) |
| ANT 1 | | 5.00 M | 446 M | | | | |
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Notes: * If this is an application for a VSAT network, identify the site (Item B1b, Schedule B, Page 1) where each antenna is located. Also include this Site-ID on Schedule B, Page 5.

^{**} Identify each antenna in VSAT network or multi-antenna station with a unique identifier, such as HUB, REMOTE1, A1, A2, 10M, 12M, 7M, etc. Use this same antenna ID throughout tables B4, B5, B6, and B7 when referring to the same antenna.

^{***} Attach sketch of site or exemption, See 47 CFR Part 17.

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

FCC Form 312 - Schedule B: (Technical and Operational Description)

B6. Frequency Coordination Limits: Use additional pages as needed.

| (a) Antenna ID* | (b) Frequency Limits (MHz) | (c) Range of Satellite Arc Eastern Limit** | (d) Range of Satellite Arc Western Limit** | (e) Antenna Elevation Angle Eastern Limit | (f) Antenna Elevation Angle Western Limit | (g) Earth Station Azimuth Angle Eastern Limit | (h) Earth Station Azimuth Angle Western Limit | (i) Maximum EIRP Density toward the Horizon (dBW/4kHz) |
|--------------------|----------------------------|--|--|---|---|---|---|--|
| ANT 1 | 3700.0000 - 4200.0000 | 60° | 143° | 23.3° | 20.5° | 132.7° | 232.5° | |
| 111,11 | | | _ | | | | | |
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Notes:

^{*} Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and orbital arc range is associated.

^{**} If operating with geostationary satellites, give the orbital arc limits and the associated elevation and azimuth angles. If operating with non-geostationary satellites, give the notation "NON-GEO" for the satellite arc and give the minimum operational elevation angle and the maximum azimuth angle range.

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS

FCC Form 312 - Schedule B: (Technical and Operational Description)

B7. Particulars of Operation (Full particulars are required for each r.f. carrier): Use additional pages as needed.

| (a) Antenna ID* | (b) Frequency Limits (MHz) | (c) T/R Mode ** | (d) Antenna Polarization (H,V,L,R) | (e) Emission Designator | (f) Maximum EIRP per Carrier (dBW) | (g) Maximum EIRP Density per Carrier (dBW/4kHz) | (h) Description of Modulation and Services |
|--------------------|----------------------------------|--------------------------|--|-------------------------------|--|--|---|
| ANT 1 | 37.0000-4200.0000 MHz | R | H, V | 36M0F8W | | | Analog and digital video with associated sub-carriers |
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Notes: * Provide the ANTENNA-ID from table B4 to identify the antenna to which each frequency band and emission is associated. For VSAT networks, include frequencies and emissions for all HUB and REMOTE units.

^{**} Indicate whether the earth station transmits or receives in each frequency band.

FEDERAL COMMUNICATIONS COMMISSION APPLICATION FOR SATELLITE SPACE AND EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B: (Technical and Operational Description)

If VSAT Network, provide the SITE-ID (Item B1b) of the station that B8-B13 are in response to (HUB, REMOTE1, etc.):

| B8. 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 proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they 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 measurement? B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. YES | | | | | | | | | | | |
|---|---|---|-----------------------------|-------------------------|-------------------------------|------|----------------|----------------|--|--|--|
| (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 measurement? B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. YES NO | cor me | apply with the antenna gain patterns specified in Section 2 asurements? If NO, provide as an exhibit, a technical and | YES | □ NO | | | | | | | |
| Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurement? B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. YES NO | B9. If tl | e proposed antenna(s) do not operate in the Fixed Satell | ite Service (FSS), or if th | ey operate in the Fixed | l Satellite Service | | | | | | |
| Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurement? B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. YES NO | (FS | s) with non-geostationary satellites, do(es) the proposed | antenna(s) comply with | the antenna gain patter | rns specified in | | VES | \square NO | | | |
| B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. YES NO | | | | | F | | LLS | | | | |
| Remote Control Point Location: B10a. Street Address | | · · · · · · · · · · · · · · · · · · · | | | ol noint | | | | | | |
| Remote Control Point Location: B10a. Street Address | B10.15 | the facility operated by remote control. If TEB, provide | the focution and telepho | ne number of the contr | or point. | | VEC | \bowtie NO | | | |
| B10a. Street Address B10b. City B10c. County B10c. County B10c. County B10d. State/Country B10d. State/Country B10c. Zip Code B10f. Telephone Number B10g. Call Sign of Control Station (if appropriate) WES NO B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. WES NO B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | | | | | | ILS | \triangle NO | | | |
| B10a. Street Address B10b. City B10c. County B10g. Call Sign of Control Station (if appropriate) B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | Pamote Control Point Location | | | | | | | | | |
| B10b. City B10c. County B10d. State/Country B10e. Zip Code B10f. Telephone Number B10g. Call Sign of Control Station (if appropriate) YES NO B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. YES NO B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | i | | | | | | | | | | |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | B10a. Street Address | | | | | | | | | | |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | R10h City | R10c County | | R10 d State/Country | | B10e Zin Code | | | | |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. YES | | Broo. City | Dioc. County | | Bro.d. State/Country | | Broc. Zip Code | | | | |
| B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit. YES | | D10f Talanhana Numbar | | Dio. Call Sign of Con | tral Station (if appropriate) | | | | | | |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | B101. Telephone Number | | | | | | | | | |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | | | | | | | | | | |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | D11 I | C 1: /: 10 ICATEC // 1 C | 1: | 1.11.17 | | | | | | | |
| B12. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT Part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 YES NO and/or the FAA's study regarding the potential hazard of the structure to aviation? | BII. IS | frequency coordination required? If YES, attach a frequ | ency coordination report | as an exhibit. | | | ***** | □ . | | | |
| and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | | | \boxtimes | YES | ∐ NO | | | | | |
| and plot of coordination contours as an exhibit. B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? | | | | | | | | | | | |
| B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? YES NO | B12. Is coordination with another country required? If YES, attach the name of the country(ies) | | | | | | | | | | |
| B13. FAA Notification - (See 47 CFT Part 17and 47 CFT 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? YES NO | and plot of coordination contours as an exhibit. | | | | | | YES | \boxtimes NO | | | |
| 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? YES NO | | • | | | | | 120 | | | | |
| 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? YES NO | R13 F | R13 FAA Notification - (See 47 CFT Part 17 and 47 CFT Part 25 113(c)) | | | | | | | | | |
| and/or the FAA's study regarding the potential hazard of the structure to aviation? | | · | | VEC | ∇ NO | | | | | | |
| • • • • | - Transfer of the contract of | | | | | | | | | | |
| FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION | , , , , , | | | | | | | | | | |
| | F. | FAILURE TO COMPLY WITH 47 CFT PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION | | | | | | | | | |