

FEDERAL COMMUNICATIONS COMMISSION
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 Receive-Only Station Amendment to a Pending Application Modification of License/Registration Notification of Minor Modification

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.

B1a. Station Call Sign E030115		B1b. Site identifier (HUB, REMOTE1, etc.)		B1c. Telephone Number (805) 674-9157		B1j. Geographic Coordinates N/S, Deg. - Min. - Sec. - E/W		B1k. Lat./Lon. Coordinates are:	
B1d. Mailing Street Address of Station or Area of Operation 91-340 Farrington Highway			B1e. Name of Contact Person Leeana A. Smith-Ryland			Lat. <u>21° - 20' - 8.9" N.</u> Lon. <u>158° - 05' - 17.8" W.</u>		<input type="checkbox"/> NAD-27 <input checked="" type="checkbox"/> NAD-83	
B1f. City Kapolei		B1g. County Honolulu		B1h. State HI	B1i. Zip Code 96707		B1l. Site Elevation (AMSL) 36.6		

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 Location	Satellite Name and Orbit Location	Satellite Name and Orbit Location
IS19 @ 166 ° EL		

B3. Destination points for communications using non-U.S. licensed satellites. For each non-U.S. licensed satellite facility identified in section B2 above, specify the destination point(s) (countries) where the services will be provided by this earth station via each non-U.S. license satellite system. Use additional sheets as needed.

Satellite Name	List of Destination Points

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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 at ____GHz)
	8.1	1	GD Satcom	8.1	8.1	58.0 dBi @ 12.67 GHz
						59.7 dBi @ 14.25 GHz

B5. Antenna Heights and Maximum Power Limits: (The corresponding Antenna ID in tables B4 and B5 applies to the same antenna)

(a) Antenna ID**	(b) Antenna Structure Registration No.	Maximum Antenna Height		(e) Building Height Above Ground Level (meters)***	(f) Maximum Antenna Height Above Rooftop (meters)***	(g) Total Input Power at antenna flange (Watts)	(h) Total EIRP for all carriers (dBW)
		(c) Above Ground Level (meters)	(d) Above Mean Sea Level (meters)				
8.1		9.2	55.6	N/A	N/A	350	85.1

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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)
8.1	12,250 – 12,700	166.0°E.L.	166.0°E.L.	42.6°	42.6°	243.3°	243.3°	
8.1	14,000 – 14,500	166.0°E.L.	166.0°E.L.	42.6°	42.6°	243.3°	243.3°	-22.7

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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
8.1	12,250 – 12,700	R	H,V	2M00G7W			Digital Data, Various FEC, Various Mod., Various Information
8.1	12,250 – 12,700	R	H,V	36M0G7W			Digital Data, Various FEC, Various Mod., Various Information
8.1	14,000 – 14,500	T	H,V	2M00G7W	72.6	45.6	Digital Data, Various FEC, Various Mod., Various Information
8.1	14,000 – 14,500	T	H,V	36M0G7W	85.1	45.6	Digital Data, Various FEC, Various Mod., Various Information

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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 manufacturer's qualification measurements? If NO, provide as an exhibit, a technical analysis showing compliance with two-degree spacing policy.				<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
B9. 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 measurement?				<input type="checkbox"/> YES	N/A <input type="checkbox"/> NO
B10. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.				<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Remote Control Point Location:					
B10a. Street Address					
B10b. City		B10c. County		B10d. State/Country	
B10e. Zip Code					
B10f. Telephone Number			B10g. Call Sign of Control Station (if appropriate)		
B11. Is frequency coordination required? If YES, attach a frequency coordination report as an exhibit.				<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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.				<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
B13. 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				<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

**and/or the FAA's study regarding the potential hazard of the structure to aviation? EXISTING FACILITY
FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION**