

SATELLITE EARTH STATION AUTHORIZATIONS

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

Location of Earth Station Site E1: Site Identifier: Hawaii Gateway E2: Contact Name: Network Operations Center E3: Street: 58-350 Kamehameha Hwy	E5. Call Sign: E6. Phone Number: 703-366-1500 E7. City: Haleiwa
E4. State: Florida E10. Area of Operation: Fixed E11. Latitude: 21° 40' 17.8" N E12. Longitude: 158° 1' 54.9" W E13. Lat/Lon Coordinates are: E14. Site Elevation (AMSL): 51 m	E8. County: Honolulu E9. Zip Code: 96712 <input type="radio"/> NAD-27 <input checked="" type="radio"/> NAD-83 <input type="radio"/> N/A
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 a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input type="radio"/> No N/A
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?	<input checked="" type="radio"/> Yes <input type="radio"/> No N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input type="radio"/> Yes <input checked="" type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes <input type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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.	<input type="radio"/> Yes <input checked="" type="radio"/> No
POINTS OF COMMUNICATION	
Satellite Name: Eq. 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. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmit and/or Receive (____dBi at____GHz)		
Haleiwa	HI 7.3m	4	ViaSat	MEO 7	7.3m	Receive Gain (63.1 dBi at 18.575 GHz)		
						Transmit Gain (65.3 dBi at 28.371 GHz)		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)		E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
HI 7.3m	0.0/0.0		10.2	400.4	0.0	447.23	0.0	92.17

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)
HI 7.3m	19700 20200	R	Left and Right Circular	216MG7D	0.0	0.0
E50. Modulation and Services QPSK, 8PSK, 16PSK, 32PSK and Internet						
HI 7.3m	29500 30000	T	Left and Right Circular	216MG7D	79.0	31.68
E50. Modulation and Services QPSK, 8PSK, 16PSK, 32PSK and Internet						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
HI 7.3m	Non-Geostationary	19700 20200	0.0	114.29	5.1	245.71	5.1	0.0
HI 7.3m	Non-Geostationary	29500 30000	0.0	114.29	5.1	245.71	5.1	-14.8

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E65. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E67. County		E64/68. State/Country	E66. Zip Code