



September 29, 2010

Ms. Angela Maimo
Intelsat
angela.maimo@intelsat.com

Re: KA270
Paumalu, Hawaii
C-band Transmit/Receive earth Station
Emissions

Dear Ms. Maimo,

This letter is confirmation that your 9 Meter earth station licensed under Call Sign KA270 is clear for the following Emission Designators that are referenced on your license: 100KG7W, 600KF2D, 800KFXD and 72M0G7W.

The transmit power densities coordinated and licensed for the 9 meter antenna on KA270 are protected across the range of carriers covered by these Emission Designators.

Please let us know if you have any questions, or require additional information on this earth station.

Sincerely,

Comsearch

A handwritten signature in black ink, appearing to read 'Gary Edwards', written over a horizontal line.

Gary Edwards
Manager Satellite Services
(703) 726-5662
gedwards@comsearch.com

Date: 09/29/2010
 Job Number: <PCNJobCode>

Administrative Information

Status: ENGINEER PROPOSAL
 Call Sign: <PCNCallSign>
 Licensee Code: INTNOA
 Licensee Name: Intelsat North America LLC

Site Information

PAUMALU, HI

Venue Name
 Latitude (NAD 83): 21° 40' 12.6" N
 Longitude (NAD 83): 158° 2' 6.1" W
 Climate Zone: A
 Rain Zone: 4
 Ground Elevation (AMSL): 144.8 m / 475.1 ft

Link Information

Satellite Type: Geostationary
 Mode: TR - Transmit-Receive
 Modulation: Digital
 Satellite Arc: 83°W to 233° West Longitude
 Azimuth Range: 95.6° to 264.3°
 Corresponding Elevation Angles: 5.2° / 5.3°
 Antenna Centerline (AGL): 9.8 m / 32.2 ft

Antenna Information

Receive - FCC32

Transmit - FCC32

Manufacturer	Vertex	Vertex
Model	9 KPC	9 KPC
Gain / Diameter	50.1 dBi / 9.0 m	53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth	1.00° / 2.00°	1.00° / 2.00°

Max Available RF Power	(dBW/4 kHz)	0.0
	(dBW/MHz)	24.0

Maximum EIRP	(dBW/4 kHz)	53.5
	(dBW/MHz)	77.5

Interference Objectives:	Long Term	-144.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-134.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	100KG7W - 72M0G7W / 3625.0 - 4200.0	100KG7W - 72M0G7W / 5850.0 - 6425.0
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Max Great Circle Coordination Distance	510.1 km / 316.9 mi	423.8 km / 263.3 mi
Precipitation Scatter Contour Radius	380.9 km / 236.7 mi	121.1 km / 75.3 mi