



December 10, 2010

Ms. Angela Maimo  
Intelsat  
[angela.maimo@intelsat.com](mailto:angela.maimo@intelsat.com)

Re: KA268  
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 KA268 is clear for the following new Emission Designators that are to be added to the license: 256KG7W, 36M0G7W, and 72M0G7W.

The transmit power densities for these new emissions are as follows:

256 kHz – EIRP: 65.56 dBW and EIRP Density: 47.5 dBW/ 4 kHz,  
36 MHz – EIRP: 79.04 dBW and EIRP Density: 39.5 dBW/ 4 kHz, and  
72 MHz – EIRP: 79.05 dBW and EIRP Density: 36.5 dBW/ 4 kHz

These EIRP densities are less than those emissions presently licensed on the KA268, 9 meter antenna, and are accounted for in the existing coordinated parameters of the license 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 that reads "Jeffrey E. Cowles". The signature is written in a cursive style and is positioned to the left of a vertical red line.

Jeffrey E. Cowles  
Engineer III, Telecommunications  
(703) 726-5660  
[jcowles@comsearch.com](mailto:jcowles@comsearch.com)

Date: 12/10/2010  
 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' 14.1" 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**

	<b>Receive - FCC32</b>	<b>Transmit - FCC32</b>		
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°		

256KG7W 36M0G7W 72M0G7W

Max Available RF Power	(dBW/4 kHz)		-6.0	-14.0	-17.0
	(dBW/MHz)		12.1	10.0	7.0
Maximum EIRP	(dBW/4 kHz)		47.5	39.5	36.5
	(dBW/MHz)		65.6	63.5	60.5
	(dBW)		65.6	79.0	79.1
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

**Frequency Information**

	<b>Receive 4.0 GHz</b>	<b>Transmit 6.1 GHz</b>
Emission / Frequency Range (MHz)	256KG7W / 3700.0 - 4200.0	256KG7W / 5925.0 - 6425.0
	36M0G7W / 3700.0 - 4200.0	36M0G7W / 5925.0 - 6425.0
	72M0G7W / 3700.0 - 4200.0	72M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance	664.0 km / 412.5 mi	361.5 km / 224.6 mi
Precipitation Scatter Contour Radius	430.7 km / 267.6 mi	100.0 km / 62.1 mi