

Prepared By

COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Prepared For

**Intelsat License LLC
Paumalu, Hawaii**

Temporary Transmit-Only Earth Station
Operation Dates: 12/01/2015 - 02/28/2016

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations. Verbal and written coordination was conducted with the below listed carriers on March 10, 2015.

Company

AT&T Corporation
County of Kauai Department of Police
Federal Communication Commission
HONOLULU CITY & COUNTY DEPT OF INFO TECH
Hawaii State
Hawaiian Telcom, Inc.
LIN License Company, LLC
New Cingular Wireless PCS LLC - Hawaii
Servpac, Inc
University of Hawaii

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

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Date: 10/27/2015
Job Number: 151027COMSGE10

Administrative Information

Status: TEMPORARY (Operation from 12/01/2015 to 02/28/2016)
Call Sign: TEMP02
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

PAUMALU, HI

Venue Name:
Latitude (NAD 83): 21° 40' 15.5" N
Longitude (NAD 83): 158° 2' 6.1" W
Climate Zone: C
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 191° West Longitude
Azimuth Range: 95.6° to 240.3°
Corresponding Elevation Angles: 5.2° / 45.1°
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) (dBW/MHz)	1.2 25.2
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)	54.7 78.7 78.0
Interference Objectives:	Long Term Short Term	-144.0 dBW/MHz 20% -134.0 dBW/MHz 0.01% -154.0 dBW/4 kHz 20% -131.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	850KFXD / 3625.0 - 4200.0	850KFXD / 6173.7 - 6176.3
Max Great Circle Coordination Distance	515.5 km / 320.3 mi	440.9 km / 273.9 mi
Precipitation Scatter Contour Radius	380.9 km / 236.7 mi	139.6 km / 86.7 mi

Coordination Values		PAUMALU, HI			
Licensee Name		Intelsat License LLC			
Latitude (NAD 83)		21° 40' 15.5" N			
Longitude (NAD 83)		158° 2' 6.1" W			
Ground Elevation (AMSL)		144.8 m / 475.1 ft			
Antenna Centerline (AGL)		9.8 m / 32.2 ft			
Antenna Model		Vertex 9 meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
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%
Max Available RF Power		1.2 (dBW/4 kHz)			

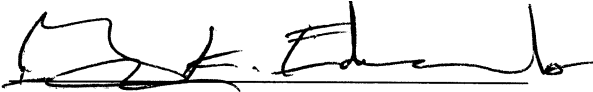
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
0	0.00	95.62	-10.00	484.30	-10.00		356.27
5	0.00	90.64	-10.00	484.30	-10.00		356.27
10	0.00	85.66	-10.00	484.30	-10.00		356.27
15	0.00	80.68	-10.00	484.30	-10.00		356.27
20	0.00	75.70	-10.00	484.30	-10.00		356.27
25	0.00	70.72	-10.00	484.30	-10.00		356.27
30	0.00	65.75	-10.00	484.30	-10.00		356.27
35	0.00	60.77	-10.00	484.30	-10.00		356.27
40	0.00	55.80	-10.00	484.30	-10.00		356.27
45	0.00	50.83	-10.00	484.30	-10.00		356.27
50	0.00	45.87	-9.54	491.47	-9.54		361.63
55	0.26	40.89	-8.29	479.79	-8.29		352.71
60	0.25	35.94	-6.89	506.12	-6.89		372.43
65	0.29	31.00	-5.28	514.07	-5.28		378.36
70	0.50	26.04	-3.39	439.11	-3.39		322.31
75	1.06	21.04	-1.07	347.31	-1.07		254.07
80	1.06	16.17	1.78	377.97	1.78		277.59
85	1.17	11.38	5.60	407.94	5.60		300.86
90	1.35	6.84	11.13	449.12	11.13		333.48
95	1.86	3.43	18.63	515.54	18.63		440.88
100	2.54	5.12	14.27	344.66	14.27		256.55
105	2.87	9.55	7.50	261.73	7.50		191.92
110	2.78	14.16	3.22	235.65	3.22		169.20
115	3.06	18.61	0.25	198.94	0.25		135.75
120	3.13	23.11	-2.10	180.30	-2.10		119.59
125	2.95	27.67	-4.05	175.60	-4.05		115.16
130	3.13	32.02	-5.64	158.25	-5.64		100.57
135	3.05	36.40	-7.03	152.90	-7.03		100.00
140	2.76	40.77	-8.26	160.01	-8.26		101.28
145	1.95	45.25	-9.39	199.36	-9.39		133.38
150	1.87	49.22	-10.00	201.40	-10.00		135.03
155	2.26	52.70	-10.00	176.34	-10.00		114.43
160	2.20	56.03	-10.00	179.54	-10.00		117.02
165	2.45	58.64	-10.00	165.87	-10.00		106.03
170	2.15	60.90	-10.00	182.63	-10.00		119.54
175	2.08	62.16	-10.00	186.99	-10.00		123.11
180	2.08	62.54	-10.00	186.93	-10.00		123.05
185	1.87	62.36	-10.00	201.13	-10.00		134.80

Coordination Values		PAUMALU, HI			
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Antenna Model		Vertex 9 meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
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%
Max Available RF Power		1.2 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
190	1.56	61.38	-10.00	225.38	-10.00		155.30
195	1.42	59.33	-10.00	235.87	-10.00		166.08
200	1.11	56.75	-10.00	262.17	-10.00		187.97
205	0.85	54.25	-10.00	297.39	-10.00		215.80
210	0.47	52.11	-10.00	373.75	-10.00		272.71
215	0.27	50.14	-10.00	451.37	-10.00		331.37
220	0.00	48.56	-10.00	484.30	-10.00		356.27
225	0.00	47.11	-9.83	486.97	-9.83		358.27
230	0.00	46.03	-9.58	490.89	-9.58		361.20
235	0.00	45.35	-9.42	493.40	-9.42		363.08
240	0.00	45.11	-9.36	494.34	-9.36		363.77
245	0.00	45.30	-9.40	493.63	-9.40		363.24
250	0.00	45.91	-9.55	491.32	-9.55		361.52
255	0.00	46.94	-9.79	487.58	-9.79		358.73
260	0.00	48.34	-10.00	484.30	-10.00		356.27
265	0.00	50.10	-10.00	484.30	-10.00		356.27
270	0.00	52.17	-10.00	484.30	-10.00		356.27
275	0.00	54.51	-10.00	484.30	-10.00		356.27
280	0.00	57.09	-10.00	484.30	-10.00		356.27
285	0.00	59.87	-10.00	484.30	-10.00		356.27
290	0.00	62.81	-10.00	484.30	-10.00		356.27
295	0.00	65.90	-10.00	484.30	-10.00		356.27
300	0.00	69.11	-10.00	484.30	-10.00		356.27
305	0.00	72.42	-10.00	484.30	-10.00		356.27
310	0.00	75.80	-10.00	484.30	-10.00		356.27
315	0.00	79.24	-10.00	484.30	-10.00		356.27
320	0.00	82.72	-10.00	484.30	-10.00		356.27
325	0.00	86.23	-10.00	484.30	-10.00		356.27
330	0.00	89.76	-10.00	484.30	-10.00		356.27
335	0.00	93.29	-10.00	484.30	-10.00		356.27
340	0.00	96.80	-10.00	484.30	-10.00		356.27
345	0.00	100.29	-10.00	484.30	-10.00		356.27
350	0.00	103.74	-10.00	484.30	-10.00		356.27
355	0.00	100.59	-10.00	484.30	-10.00		356.27

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
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DATED: November 16, 2015