

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: 09/05/2018 - 11/28/2018

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 July 05, 2018.

Company

AT&T Corp.  
County of Kauai Department of Police  
Federal Communication Commission  
Hawaii State  
Hawaiian Electric Company, Inc  
Hawaiian Telcom, Inc.  
Honolulu City & County Dept of Info Tech  
NEXSTAR BROADCASTING, 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

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
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Date: 07/05/2018  
Job Number: 180705COMSGE06

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### Administrative Information

Status: TEMPORARY (Operation from 09/05/2018 to 11/29/2018)  
Call Sign: TEMP11  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

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### Site Information

#### PAUMALU, HI

Venue Name  
Latitude (NAD 83): 21° 40' 16.0" N  
Longitude (NAD 83): 158° 2' 16.0" W  
Climate Zone: A  
Rain Zone: 4  
Ground Elevation (AMSL): 46.22 m / 151.6 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 190° W to 196° West Longitude  
Azimuth Range: 239.4° to 244.7°  
Corresponding Elevation Angles: 46.0° / 40.5°  
Antenna Centerline (AGL): 9.8 m / 32.2 ft

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### Antenna Information

#### Transmit - FCC32

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

Max Available RF Power (dBW/4 kHz): 8.5  
(dBW/MHz): 32.5

Maximum EIRP (dBW/4 kHz): 62.0  
(dBW/MHz): 86.0  
(dBW):

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

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### Frequency Information

#### Transmit 6.1 GHz

Emission / Frequency Range (MHz): 850KFXD - 1M20FXD / 5850.0 - 5853.5  
850KFXD - 1M20FXD / 6421.5 - 6425.0

Max Great Circle Coordination Distance: 219.8 km / 136.5 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

<b>Coordination Values</b>		<b>PAUMALU, HI</b>	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		21° 40' 16.0" N	
Longitude (NAD 83)		158° 2' 16.0" W	
Ground Elevation (AMSL)		46.22 m / 151.6 ft	
Antenna Centerline (AGL)		9.8 m / 32.2 ft	
Antenna Model		Vertex 9 meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
Short Term		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	8.5 (dBW/4 kHz)		

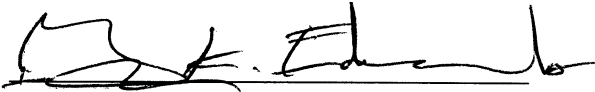
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	108.98	-10.00	212.25
5	0.00	112.58	-10.00	212.25
10	0.00	116.08	-10.00	212.25
15	0.00	119.48	-10.00	212.25
20	0.00	122.47	-10.00	212.25
25	0.00	124.97	-10.00	212.25
30	0.00	127.24	-10.00	212.25
35	0.93	130.02	-10.00	159.61
40	4.90	135.30	-10.00	100.00
45	4.66	136.65	-10.00	100.00
50	5.33	138.44	-10.00	100.00
55	10.31	144.07	-10.00	100.00
60	12.64	146.63	-10.00	100.00
65	13.70	147.25	-10.00	100.00
70	14.23	146.67	-10.00	100.00
75	14.89	145.53	-10.00	100.00
80	16.04	144.17	-10.00	100.00
85	17.34	142.29	-10.00	100.00
90	20.49	140.95	-10.00	100.00
95	22.10	138.00	-10.00	100.00
100	23.74	134.62	-10.00	100.00
105	24.97	130.75	-10.00	100.00
110	25.02	126.32	-10.00	100.00
115	25.68	121.97	-10.00	100.00
120	25.80	117.41	-10.00	100.00
125	26.41	112.88	-10.00	100.00
130	25.85	108.15	-10.00	100.00
135	25.90	103.49	-10.00	100.00
140	25.88	98.80	-10.00	100.00
145	25.09	94.09	-10.00	100.00
150	23.79	89.43	-10.00	100.00
155	22.73	84.84	-10.00	100.00
160	20.68	80.41	-10.00	100.00
165	17.01	76.38	-10.00	100.00
170	15.70	72.30	-10.00	100.00
175	14.89	68.27	-10.00	100.00
180	14.33	64.31	-10.00	100.00
185	13.08	60.74	-10.00	100.00

<b>Coordination Values</b>		<b>PAUMALU, HI</b>	
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Antenna Model		Vertex 9 meter	
Antenna Mode		Transmit 6.1 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
Short Term		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	8.5 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	12.12	57.28	-10.00	100.00
195	11.14	54.10	-10.00	100.00
200	9.85	51.39	-10.00	100.00
205	7.69	49.61	-10.00	100.00
210	7.38	46.47	-9.68	100.00
215	6.55	43.89	-9.06	100.00
220	6.40	41.20	-8.37	100.00
225	6.45	38.73	-7.70	100.00
230	5.69	37.43	-7.33	100.00
235	2.64	38.90	-7.75	126.20
240	0.27	40.47	-8.18	213.18
245	0.00	40.51	-8.19	219.76
250	0.00	40.80	-8.27	219.43
255	0.00	41.59	-8.47	218.55
260	0.00	42.84	-8.80	217.20
265	0.00	44.53	-9.22	215.46
270	0.00	46.59	-9.71	213.44
275	0.00	48.99	-10.00	212.25
280	0.00	51.66	-10.00	212.25
285	0.00	54.58	-10.00	212.25
290	0.00	57.69	-10.00	212.25
295	0.00	60.97	-10.00	212.25
300	0.00	64.37	-10.00	212.25
305	0.00	67.89	-10.00	212.25
310	0.00	71.50	-10.00	212.25
315	0.00	75.17	-10.00	212.25
320	0.00	78.90	-10.00	212.25
325	0.00	82.66	-10.00	212.25
330	0.00	86.45	-10.00	212.25
335	0.00	90.25	-10.00	212.25
340	0.00	94.05	-10.00	212.25
345	0.00	97.84	-10.00	212.25
350	0.00	101.60	-10.00	212.25
355	0.00	105.32	-10.00	212.25

## 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  
Ashburn, VA 20147

DATED: July 24, 2018