

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: 06/15/2018 - 07/15/2018

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 June 14, 2018.

Company

3G Wireless, LLC  
AERIAL VIDEO SYSTEMS  
Alascom Inc  
Borgeson, Tom R.  
Broadcast Sports Inc.  
Casper, John  
Chicago Comnet Corp  
Citywide News Network, Inc.  
Cowboys Stadium LP  
CP Communications  
DCI II, INC.  
Direct Broadcast Services, Inc.  
Federal Communication Commission  
Frontier California Inc.  
HF Enterprises, Inc  
Hallco Unlimited, Inc.  
Hawaii Public Television Foundation  
Heiden, William  
Illinois Bell Telephone Company  
Information & Display Systems, Inc.  
Information Super Station, LLC  
Interlink Network Corp  
International Communications Group, Inc.  
KHNL/KGMB License Subsidiary, LLC  
MERCURY COMMUNICATIONS  
Michigan Bell Telephone Company  
Microwave Video Systems, LLC  
Moreen, Steven K  
NEW ENGLAND DIGITAL DISTRIBUTION, INC.  
NEXSTAR BROADCASTING, INC.  
NSM Surveillance  
Navajo Communications Company  
Onboard Images

Pacific Television Center  
Penn Service Microwave Co., Inc.  
Plateau Telecommunications, Inc.  
Plum TV, LLC  
Production & Satellite Services, Inc.  
REMOTE FACILITIES CONSULTING SERVICES  
RF Central, LLC  
RF Film, Inc  
Radiofone, Inc.  
Randy Hermes Production  
Remote Broadcasts, Inc.  
SBE Coordinator  
Speedshotz, Inc  
TTWN Networks, LLC  
Unisat, Inc.  
United Telephone - Southeast  
Vitec Broadcast  
Vyvx, LLC  
Westar Satellite Services LP  
Winged Vision Inc  
Wolfe Air Aviation

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: 06/14/2018  
Job Number: <PCNJobCode>

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### Administrative Information

Status: TEMPORARY (Operation from 06/15/2018 to 07/15/2018)  
Call Sign: <PCNCallSign>  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

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### Site Information PAUMALU, HI

Venue Name  
Latitude (NAD 83): 21° 40' 14.2" N  
Longitude (NAD 83): 158° 2' 7.8" W  
Climate Zone: B  
Rain Zone: 4  
Ground Elevation (AMSL): 131.98 m / 433.0 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 83° W to 133° West Longitude  
Azimuth Range: 95.6° to 128.3°  
Corresponding Elevation Angles: 5.2° / 52.0°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

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### Antenna Information Transmit - FCC32

Manufacturer: Viasat  
Model: 7.3 FPA  
Gain / Diameter: 40.9 dBi / 7.3 m  
3-dB / 15-dB Beamwidth: 0.80° / 1.60°

Max Available RF Power (dBW/4 kHz): 4.1  
(dBW/MHz): 28.1

Maximum EIRP (dBW/4 kHz): 45.0  
(dBW/MHz): 69.0

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 2.0 GHz

Emission / Frequency Range (MHz): 400KFXD / 2085.6888  
400KFXD / 2090.1  
400KFXD / 2090.4

Max Great Circle Coordination Distance: 348.3 km / 216.4 mi  
Precipitation Scatter Contour Radius: 171.7 km / 106.7 mi

<b>Coordination Values</b>		<b>PAUMALU, HI</b>	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		21° 40' 14.2" N	
Longitude (NAD 83)		158° 2' 7.8" W	
Ground Elevation (AMSL)		131.98 m / 433.0 ft	
Antenna Centerline (AGL)		3.66 m / 12.0 ft	
Antenna Model		Viasat 7.3 meter	
Antenna Mode		Transmit 2.0 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
Short Term		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	4.1 (dBW/4 kHz)		

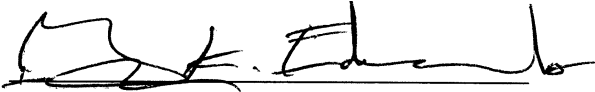
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	95.62	-10.00	244.88
5	0.00	90.64	-10.00	244.88
10	0.00	85.66	-10.00	244.88
15	0.00	80.68	-10.00	244.88
20	0.00	75.70	-10.00	244.88
25	0.00	70.72	-10.00	244.88
30	0.00	65.75	-10.00	244.88
35	0.00	60.77	-10.00	244.88
40	0.00	55.80	-10.00	244.88
45	2.29	50.70	-10.00	112.55
50	2.47	45.70	-9.50	110.46
55	2.83	40.70	-8.24	107.29
60	3.37	35.68	-6.81	102.13
65	3.80	30.67	-5.17	100.00
70	3.80	25.68	-3.24	105.69
75	3.79	20.69	-0.89	113.08
80	3.79	15.70	2.10	120.46
85	3.80	10.73	6.23	135.14
90	3.81	5.81	12.89	165.62
95	3.63	1.71	26.16	348.28
100	3.39	4.73	15.13	189.97
105	3.06	9.47	7.59	159.35
110	2.88	14.13	3.25	144.07
115	3.54	18.42	0.37	119.24
120	3.30	23.04	-2.06	117.63
125	3.30	27.53	-3.99	111.84
130	3.31	31.95	-5.61	106.66
135	3.19	36.34	-7.01	104.45
140	2.87	40.72	-8.25	106.45
145	2.30	45.09	-9.35	114.35
150	2.52	48.91	-10.00	108.03
155	2.21	52.72	-10.00	114.04
160	2.83	55.66	-10.00	101.94
165	2.78	58.41	-10.00	103.03
170	2.56	60.94	-10.00	107.18
175	2.97	63.27	-10.00	100.00
180	2.81	66.09	-10.00	102.40
185	2.52	69.09	-10.00	108.12

<b>Coordination Values</b>		<b>PAUMALU, HI</b>	
Licensee Name		Intelsat License LLC	
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Ground Elevation (AMSL)		131.98 m / 433.0 ft	
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Antenna Model		Viasat 7.3 meter	
Antenna Mode		Transmit 2.0 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
Short Term		-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	4.1 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.50	72.05	-10.00	108.52
195	2.45	75.12	-10.00	109.49
200	1.83	78.38	-10.00	120.88
205	1.32	81.60	-10.00	136.07
210	0.98	84.77	-10.00	148.27
215	0.97	87.91	-10.00	149.24
220	0.90	91.05	-10.00	155.32
225	1.23	94.21	-10.00	138.92
230	0.77	97.27	-10.00	165.41
235	0.38	100.25	-10.00	209.35
240	0.00	103.13	-10.00	244.88
245	0.00	106.04	-10.00	244.88
250	0.00	108.85	-10.00	244.88
255	0.00	111.56	-10.00	244.88
260	0.00	114.15	-10.00	244.88
265	0.00	116.60	-10.00	244.88
270	0.00	118.87	-10.00	244.88
275	0.00	120.95	-10.00	244.88
280	0.00	122.80	-10.00	244.88
285	0.00	124.41	-10.00	244.88
290	0.00	125.75	-10.00	244.88
295	0.00	126.79	-10.00	244.88
300	0.00	127.52	-10.00	244.88
305	0.00	127.91	-10.00	244.88
310	0.00	127.97	-10.00	244.88
315	0.00	127.68	-10.00	244.88
320	0.00	127.07	-10.00	244.88
325	0.00	126.13	-10.00	244.88
330	0.00	124.89	-10.00	244.88
335	0.00	120.50	-10.00	244.88
340	0.00	115.52	-10.00	244.88
345	0.00	110.55	-10.00	244.88
350	0.00	105.57	-10.00	244.88
355	0.00	100.59	-10.00	244.88

## 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: 

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Senior Manager  
COMSEARCH  
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Ashburn, VA 20147

DATED: June 29, 2018