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: 11/15/2019 – 05/15/2020

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, 2019.

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
Hawaiian Telcom, Inc.
Heiden, William
im360 Entertainment
Information & Display Systems, Inc.
Information Super Station, LLC
Interlink Network Corp
International Communications Group, Inc
International Electronic Information Services, Inc
KHNL/KGMB License Subsidiary, LLC
KITV, Inc
Loop inc
MERCURY COMMUNICATIONS
Microwave Video Systems, LLC
Moreen, Steven K
NEW ENGLAND DIGITAL DISTRIBUTION, INC.
NEXSTAR BROADCASTING, INC.

NSM Surveillance
Navajo Communications Company
Onboard Images
Pacific Bell Tel Com dba AT&T California
Pacific Television Cneter
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.
Speedshotz, Inc
TTWN Networks, LLC
Unisat, Inc.
United Telephone - Southeast
Vitec Broadcast Services, Inc
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

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

Date:	06/14/2019
Job Number:	190614COMSGE01

Administrative Information	
Status	TEMPORARY (Operation from 11/15/2019 to 05/15/2020)
Call Sign	TEMP05
Licensee Code	INTELS
Licensee Name	Intelsat License LLC

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)	132.9 m / 436.0 ft

Link Information	
Satellite Type	Geostationary
Mode	TO - Transmit-Only
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)	5.49 m / 18.0 ft

Antenna Information		**Transmit - FCC32**	
Manufacturer		ViaSat	
Model		7.3 FPA	
Gain / Diameter		40.9 dBi / 7.3 m	
3-dB / 15-dB Beamwidth		1.00° / 2.00°	
Max Available RF Power	(dBW/4 kHz)	17.8	
	(dBW/MHz)	41.8	
Maximum EIRP	(dBW/4 kHz)	58.7	
	(dBW/MHz)	82.7	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%

Frequency Information	**Transmit 2.0 GHz**
Emission / Frequency Range (MHz)	17K2G1D / 2109.75
Max Great Circle Coordination Distance	765.4 km / 475.5 mi
Precipitation Scatter Contour Radius	467.6 km / 290.5 mi

Coordination Values	**PAUMALU, HI**		
Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	21° 40' 14.2" N		
Longitude (NAD 83)	158° 2' 7.8" W		
Ground Elevation (AMSL)	132.9 m / 436.0 ft		
Antenna Centerline (AGL)	5.49 m / 18.0 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	17.8 (dBW/4 kHz)		

Transmit 2.0 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	95.62	-10.00	369.42
5	0.00	90.64	-10.00	369.42
10	0.00	85.66	-10.00	369.42
15	0.00	80.68	-10.00	369.42
20	0.00	75.70	-10.00	369.42
25	0.00	70.72	-10.00	369.42
30	0.00	65.75	-10.00	369.42
35	0.00	60.77	-10.00	369.42
40	1.74	55.71	-10.00	184.71
45	2.11	50.71	-10.00	169.55
50	2.50	45.70	-9.50	159.68
55	2.56	40.71	-8.24	163.98
60	2.69	35.72	-6.82	167.10
65	2.68	30.73	-5.19	176.01
70	3.12	25.72	-3.26	172.15
75	2.87	20.77	-0.93	193.19
80	2.68	15.84	2.01	217.29
85	2.68	10.94	6.03	246.42
90	2.68	6.18	12.22	299.13
95	2.27	3.02	20.01	504.70
100	2.84	4.97	14.59	311.75
105	3.03	9.48	7.58	241.35
110	2.72	14.19	3.20	223.85
115	3.53	18.43	0.36	179.65
120	3.29	23.05	-2.07	173.47
125	3.24	27.55	-4.00	165.05
130	3.28	31.96	-5.61	155.93
135	3.20	36.34	-7.01	151.29
140	2.78	40.76	-8.26	157.25
145	2.25	45.11	-9.36	168.23
150	2.48	48.92	-10.00	157.82
155	2.22	52.72	-10.00	166.07
160	2.74	55.71	-10.00	149.87
165	2.75	58.43	-10.00	149.76
170	2.52	60.59	-10.00	156.60
175	2.86	61.41	-10.00	146.60
180	2.74	61.88	-10.00	150.00
185	2.48	61.78	-10.00	158.01

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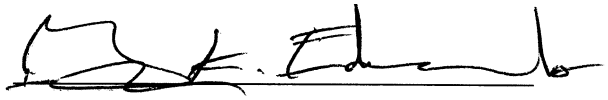
Ground Elevation (AMSL)	132.9 m / 436.0 ft		
Antenna Centerline (AGL)	5.49 m / 18.0 ft		
Antenna Model	ViaSat 7.3 meter		
Antenna Mode	Transmit 2.0 GHz		
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%	
Short Term	-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	17.8 (dBW/4 kHz)		

			Transmit 2.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	2.41	60.69	-10.00	160.01
195	2.31	58.73	-10.00	163.19
200	1.85	56.23	-10.00	179.48
205	1.28	53.21	-10.00	204.51
210	0.91	49.68	-10.00	229.91
215	0.91	45.72	-9.50	233.33
220	0.74	41.65	-8.49	262.92
225	1.04	37.25	-7.28	236.07
230	0.72	33.02	-5.97	288.11
235	0.39	28.71	-4.45	371.72
240	0.00	24.36	-2.67	439.46
245	0.00	19.82	-0.43	435.57
250	0.00	15.24	2.42	470.81
255	0.00	10.72	6.25	541.73
260	0.00	6.83	11.13	691.24
265	0.00	5.33	13.83	765.40
270	0.00	7.75	9.77	653.85
275	0.00	11.89	5.12	517.95
280	0.00	16.51	1.55	458.46
285	0.00	21.30	-1.21	452.72
290	0.00	26.17	-3.44	432.29
295	0.00	31.08	-5.31	414.83
300	0.00	36.01	-6.91	399.60
305	0.00	40.95	-8.31	386.08
310	0.00	45.90	-9.55	373.91
315	0.00	50.87	-10.00	369.42
320	0.00	55.83	-10.00	369.42
325	0.00	60.80	-10.00	369.42
330	0.00	65.78	-10.00	369.42
335	0.00	70.75	-10.00	369.42
340	0.00	75.73	-10.00	369.42
345	0.00	80.71	-10.00	369.42
350	0.00	85.69	-10.00	369.42
355	0.00	90.66	-10.00	369.42

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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DATED: July 1, 2019