

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: 02/01/2021 - 08/01/2021

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 January 4, 2021.

Company

3G Wireless, LLC
AERIAL VIDEO SYSTEMS
Alascom Inc
Borgeson, Tom R.
Broadcast Sports Inc.
Casper, John
Chicago Comnet Corp
Cincinnati Bell Wireless LLC
Citywide News Network, Inc.
CP Communications, LLC
Cowboys Stadium LP
DCI II, INC.
Direct Broadcast Services, Inc.
Frontier California Inc.
Gray Televisions Licensee, LLC (KTVF)
HF Enterprises, Inc
Hallco Unlimited, Inc.
Heiden, William
im360 Entertainment
Information & Display Systems, Inc.
Information Super Station, LLC
International Communications Group, Inc.
International Electronic Information Services, Inc.
Interlink Network Corp.
Loop, Inc.
MERCURY COMMUNICATIONS
Microwave Video systems, LLC
Moreen, Steven K
NEW ENGLAND DIGITAL DISTRIBUTION, INC.
NSM Surveillance
Navajo Communications Company
Onboard Images
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 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
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Date: 01/04/2021
Job Number: 210104COMSGE09

Administrative Information

Status: TEMPORARY (Operation from 02/01/2021 to 08/01/2021)
Call Sign: TEMP08
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

PAUMALU, HI

Venue Name
Latitude (NAD 83): 21° 40' 14.1" N
Longitude (NAD 83): 158° 2' 7.1" W
Climate Zone: B
Rain Zone: 4
Ground Elevation (AMSL): 149.6 m / 490.8 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Digital
Satellite Arc: 83° W to 230° West Longitude
Azimuth Range: 95.6° to 263.1°
Corresponding Elevation Angles: 5.2° / 8.1°
Antenna Centerline (AGL): 5.49 m / 18.0 ft

Antenna Information

Transmit - FCC32

Manufacturer: Viasat
Model: 7.3FPA
Gain / Diameter: 40.9 dBi / 7.3 m
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power (dBW/4 kHz): 24.1
(dBW/MHz): 48.1

Maximum EIRP (dBW/4 kHz): 65.0
(dBW/MHz): 89.0

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): 4K00G1D - 40K0G1D / 2037.5

Max Great Circle Coordination Distance: 805.7 km / 500.6 mi
Precipitation Scatter Contour Radius: 431.2 km / 267.9 mi

Coordination Values		PAUMALU, HI	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		21° 40' 14.1" N	
Longitude (NAD 83)		158° 2' 7.1" W	
Ground Elevation (AMSL)		149.6 m / 490.8 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	24.1 (dBW/4 kHz)		

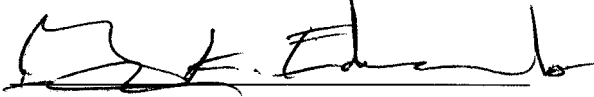
Transmit 2.0 GHz				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	95.62	-10.00	429.92
5	0.00	90.64	-10.00	429.92
10	0.00	85.66	-10.00	429.92
15	0.00	80.68	-10.00	429.92
20	0.00	75.70	-10.00	429.92
25	0.00	70.72	-10.00	429.92
30	0.00	65.75	-10.00	429.92
35	0.00	60.77	-10.00	429.92
40	0.00	55.80	-10.00	429.92
45	0.00	50.83	-10.00	429.92
50	0.00	45.87	-9.54	434.20
55	0.00	40.92	-8.30	445.59
60	0.22	35.94	-6.89	452.91
65	0.00	31.04	-5.30	451.36
70	0.44	26.05	-3.40	427.87
75	0.83	21.08	-1.10	383.55
80	0.99	16.19	1.77	384.62
85	1.49	11.27	5.70	383.43
90	1.43	6.79	11.20	441.36
95	1.87	3.41	18.68	585.23
100	2.38	5.21	14.09	401.42
105	2.76	9.59	7.46	308.64
110	2.66	14.21	3.18	276.13
115	3.22	18.55	0.29	226.64
120	3.18	23.09	-2.09	212.39
125	3.06	27.63	-4.03	204.11
130	3.13	32.02	-5.64	193.52
135	3.07	36.39	-7.02	187.52
140	2.71	40.79	-8.26	192.86
145	1.99	45.23	-9.39	212.41
150	2.17	49.08	-10.00	200.98
155	1.97	52.85	-10.00	209.14
160	2.24	56.01	-10.00	199.88
165	2.38	58.69	-10.00	194.92
170	2.06	60.98	-10.00	205.55
175	2.04	62.19	-10.00	206.06
180	1.90	62.71	-10.00	212.84
185	1.68	62.53	-10.00	224.70

Coordination Values	PAUMALU, HI	
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Ground Elevation (AMSL)	149.6 m / 490.8 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	24.1 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.42	61.49	-10.00	240.08
195	1.25	59.44	-10.00	250.24
200	0.97	56.74	-10.00	272.12
205	0.75	53.48	-10.00	303.60
210	0.36	49.94	-10.00	387.28
215	0.00	46.12	-9.60	433.65
220	0.00	41.97	-8.57	443.07
225	0.00	37.69	-7.40	453.69
230	0.00	33.31	-6.06	442.41
235	0.00	28.87	-4.51	461.68
240	0.00	24.36	-2.67	490.30
245	0.00	19.82	-0.43	533.59
250	0.00	15.41	2.31	598.97
255	0.00	11.47	5.51	709.79
260	0.00	8.69	8.52	792.60
265	0.00	8.32	9.00	805.75
270	0.00	10.61	6.36	733.22
275	0.00	14.33	3.09	643.31
280	0.00	18.66	0.23	547.99
285	0.00	23.25	-2.16	499.31
290	0.00	27.97	-4.17	466.53
295	0.00	32.77	-5.89	444.39
300	0.00	37.62	-7.38	453.87
305	0.00	42.49	-8.71	441.84
310	0.00	47.39	-9.89	430.92
315	0.00	52.31	-10.00	429.92
320	0.00	57.23	-10.00	429.92
325	0.00	62.16	-10.00	429.92
330	0.00	67.10	-10.00	429.92
335	0.00	72.05	-10.00	429.92
340	0.00	76.99	-10.00	429.92
345	0.00	81.94	-10.00	429.92
350	0.00	86.89	-10.00	429.92
355	0.00	91.84	-10.00	429.92

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: January 20, 2021