

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Date: 03/30/2011
Job Number: <PCNJobCode>

Administrative Information

Status ENGINEER PROPOSAL
Call Sign <PCNCallSign>
Licensee Code AMGOSE
Licensee Name Americom Government Services, Inc.

Site Information

HALEIWA, HI
Venue Name SUNSET BEACH
Latitude (NAD 83) 21° 40' 16.2" N
Longitude (NAD 83) 158° 1' 55.2" W
Climate Zone B
Rain Zone 4
Ground Elevation (AMSL) 142.0 m / 465.9 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 101° W to 101° West Longitude
Azimuth Range 103.5° to 103.5°
Corresponding Elevation Angles 22.3° / 22.3°
Antenna Centerline (AGL) 2.74 m / 9.0 ft

Antenna Information

Transmit - FCC32
Manufacturer Prodelin
Model 2.4 Meter
Gain / Diameter 49.2 dBi / 2.4 m
3-dB / 15-dB Beamwidth 0.58° / 1.18°

Max Available RF Power (dBW/4 kHz) -14.0
(dBW/MHz) 10.0

Maximum EIRP (dBW/4 kHz) 35.2
(dBW/MHz) 59.2

Interference Objectives: Long Term -151.0 dBW/4 kHz 20%
Short Term -128.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 14.0 GHz
Emission / Frequency Range (MHz) 36M0F8W / 14000.0 - 14500.0

Max Great Circle Coordination Distance 125.1 km / 77.7 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Coordination Values

HALEIWA, HI

Licensee Name	Americom Government Services, Inc.
Latitude (NAD 83)	21° 40' 16.2" N
Longitude (NAD 83)	158° 1' 55.2" W
Ground Elevation (AMSL)	142.0 m / 465.9 ft
Antenna Centerline (AGL)	2.74 m / 9.0 ft
Antenna Model	Prodelin 2.4 meter
Antenna Mode	Transmit 14.0 GHz
Interference Objectives: Long Term	-151.0 dBW/4 kHz 20%
Short Term	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-14.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	102.44	-10.00	125.11
5	0.00	97.83	-10.00	125.11
10	0.00	93.21	-10.00	125.11
15	0.00	88.59	-10.00	125.11
20	0.00	83.96	-10.00	125.11
25	0.00	79.35	-10.00	125.11
30	0.00	74.74	-10.00	125.11
35	0.00	70.16	-10.00	125.11
40	0.40	65.52	-10.00	105.04
45	0.21	61.03	-10.00	123.61
50	0.67	56.42	-10.00	100.00
55	0.69	51.96	-10.00	100.00
60	0.63	47.60	-9.94	100.00
65	0.85	43.24	-8.90	100.00
70	1.21	38.92	-7.75	100.00
75	1.47	34.78	-6.53	100.00
80	1.41	31.05	-5.30	100.00
85	1.87	27.30	-3.91	100.00
90	1.96	24.27	-2.63	100.00
95	2.45	21.55	-1.33	100.00
100	2.90	19.73	-0.38	100.00
105	3.13	19.27	-0.12	100.00
110	3.09	20.29	-0.68	100.00
115	3.54	21.94	-1.53	100.00
120	3.55	24.82	-2.87	100.00
125	3.43	28.35	-4.31	100.00
130	3.34	32.22	-5.70	100.00
135	3.21	36.36	-7.01	100.00
140	3.06	40.67	-8.23	100.00
145	2.78	45.13	-9.36	100.00
150	1.98	49.83	-10.00	100.00
155	2.39	54.21	-10.00	100.00
160	2.37	58.78	-10.00	100.00
165	2.33	63.39	-10.00	100.00
170	2.71	67.97	-10.00	100.00
175	2.46	72.67	-10.00	100.00
180	2.21	77.37	-10.00	100.00
185	2.07	82.06	-10.00	100.00

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Coordination Values

HALEIWA, HI

Licensee Name	Americom Government Services, Inc.
Latitude (NAD 83)	21° 40' 16.2" N
Longitude (NAD 83)	158° 1' 55.2" W
Ground Elevation (AMSL)	142.0 m / 465.9 ft
Antenna Centerline (AGL)	2.74 m / 9.0 ft
Antenna Model	Prodelin 2.4 meter
Antenna Mode	Transmit 14.0 GHz
Interference Objectives: Long Term	-151.0 dBW/4 kHz 20%
Short Term	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-14.0 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.44	86.74	-10.00	100.00
195	2.20	91.43	-10.00	100.00
200	1.91	96.12	-10.00	100.00
205	1.87	100.79	-10.00	100.00
210	1.62	105.43	-10.00	100.00
215	0.81	109.96	-10.00	100.00
220	0.60	114.51	-10.00	100.00
225	0.50	119.04	-10.00	100.00
230	0.34	123.50	-10.00	110.68
235	0.55	128.00	-10.00	100.00
240	0.27	132.27	-10.00	117.66
245	0.00	136.40	-10.00	125.11
250	0.00	140.49	-10.00	125.11
255	0.00	144.40	-10.00	125.11
260	0.00	148.04	-10.00	125.11
265	0.00	151.32	-10.00	125.11
270	0.00	154.09	-10.00	125.11
275	0.00	156.19	-10.00	125.11
280	0.00	157.41	-10.00	125.11
285	0.00	157.61	-10.00	125.11
290	0.00	156.78	-10.00	125.11
295	0.00	155.00	-10.00	125.11
300	0.00	152.47	-10.00	125.11
305	0.00	149.37	-10.00	125.11
310	0.00	145.85	-10.00	125.11
315	0.00	142.04	-10.00	125.11
320	0.00	138.01	-10.00	125.11
325	0.00	133.82	-10.00	125.11
330	0.00	129.52	-10.00	125.11
335	0.00	125.13	-10.00	125.11
340	0.00	120.67	-10.00	125.11
345	0.00	116.16	-10.00	125.11
350	0.00	111.62	-10.00	125.11
355	0.00	107.04	-10.00	125.11