COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726−5673,(703)726−5713 http://www.comsearch.com

Date:	06/23/2010
Job Number:	100623COMSTI02

Administrative Information

Status	ENGINEER PROPOSAL
Call Sign	EXAMPLE
Licensee Code	GREENP
Licensee Name	Green Planet

Site Information — EXAMPLE, NY

Venue Name	
Latitude (NAD 83)	42° 40’ 20.3" N
Longitude (NAD 83)	73° 45’ 10.4" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	73.15 m / 240.0 ft

Link Information

Satellite Type	Geostationary
Mode	TO − Transmit−Only
Modulation	Analog and Digital
Satellite Arc	60° W to 143° West Longitude
Azimuth Range	160.1° to 255.6°
Corresponding Elevation Angles	38.8° / 6.5°
Antenna Centerline (AGL)	2.74 m / 9.0 ft

Antenna Information — Transmit − FCC32

Manufacturer		FCC REFERENCE
Model		32−25LOG(THETA)
Gain / Diameter		54.8 dBi / 20.0 m
3−dB / 15−dB Beamwidth		1.20° / 2.30°
Max Available RF Power	(dBW/4 kHz)	2.0
	(dBW/MHz)	26.0
Maximum EIRP	(dBW/4 kHz)	56.8
	(dBW/MHz)	80.8
	(dBW)	
Interference Objectives: Long Term		−154.0 dBW/4 kHz 20%
Short Term		−131.0 dBW/4 kHz 0.0025%

Frequency Information — Transmit 6.1 GHz

Emission / Frequency Range (MHz)	36M0F8W / 5925.0 − 6425.0
Max Great Circle Coordination Distance	383.4 km / 238.2 mi
Precipitation Scatter Contour Radius	231.0 km / 143.5 mi

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Max Available RF Power	2.0 (dBW/4 kHz)

Transmit 6.1 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	4.01	104.39	−10.00	100.00
5	3.01	109.37	−10.00	100.00
10	2.86	114.36	−10.00	100.00
15	2.56	119.33	−10.00	100.00
20	2.56	124.32	−10.00	100.00
25	2.07	124.62	−10.00	105.30
30	2.07	121.11	−10.00	105.37
35	0.98	117.05	−10.00	133.12
40	0.00	113.04	−10.00	188.84
45	0.00	109.34	−10.00	188.84
50	0.00	105.57	−10.00	188.84
55	0.00	101.75	−10.00	188.84
60	0.00	97.89	−10.00	188.84
65	0.00	94.01	−10.00	188.84
70	0.37	90.12	−10.00	170.84
75	0.37	86.20	−10.00	170.80
80	0.58	82.28	−10.00	151.23
85	0.75	78.36	−10.00	142.27
90	0.68	74.51	−10.00	145.97
95	0.63	70.71	−10.00	148.51
100	0.79	66.91	−10.00	140.44
105	0.70	63.28	−10.00	144.95
110	0.66	59.74	−10.00	147.21
115	0.67	56.31	−10.00	146.73
120	0.56	53.11	−10.00	152.60
125	0.55	50.05	−10.00	153.11
130	0.44	47.31	−9.87	162.17
135	0.46	44.77	−9.28	163.16
140	0.28	42.74	−8.77	185.44
145	0.00	41.22	−8.38	195.06
150	0.45	39.48	−7.91	171.38
155	0.31	38.79	−7.72	186.50
160	0.00	38.81	−7.72	197.57
165	0.00	39.06	−7.79	197.30
170	0.00	39.84	−8.01	196.48
175	0.00	40.52	−8.19	195.78
180	0.00	40.75	−8.25	195.54
185	0.00	40.52	−8.19	195.78

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Antenna Mode	Transmit 6.1 GHz
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Max Available RF Power	2.0 (dBW/4 kHz)

Transmit 6.1 GHz

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	39.84	−8.01	196.48
195	0.00	38.72	−7.70	197.66
200	0.00	37.21	−7.27	199.32
205	0.00	35.33	−6.71	201.46
210	0.00	33.14	−6.01	204.11
215	0.00	30.67	−5.17	205.69
220	0.00	27.97	−4.17	209.59
225	0.00	25.06	−2.97	214.40
230	0.00	21.98	−1.55	220.35
235	0.00	18.77	0.16	227.85
240	0.00	15.44	2.29	237.62
245	0.00	12.01	5.01	250.34
250	0.00	8.54	8.72	276.38
255	0.00	6.49	11.70	383.37
260	0.00	7.81	9.68	275.92
265	0.00	11.39	5.58	253.28
270	0.00	15.76	2.06	236.56
275	0.00	20.41	−0.75	223.82
280	0.00	25.20	−3.03	214.15
285	0.00	30.05	−4.94	206.55
290	0.00	34.93	−6.58	201.93
295	0.00	39.85	−8.01	196.47
300	0.00	44.78	−9.28	191.62
305	0.50	49.67	−10.00	156.13
310	0.83	54.60	−10.00	138.46
315	0.85	59.57	−10.00	137.46
320	1.72	64.50	−10.00	113.58
325	2.19	69.47	−10.00	102.98
330	2.84	74.44	−10.00	100.00
335	3.05	79.43	−10.00	100.00
340	3.29	84.42	−10.00	100.00
345	3.42	89.41	−10.00	100.00
350	3.61	94.40	−10.00	100.00
355	3.68	99.40	−10.00	100.00