

Date: 01/28/2019  
Job Number: 190128COMSGE01

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**Administrative Information**

Status: TEMPORARY (Operation from 02/18/2019 to 08/18/2019)  
Call Sign: TEMP08  
Licensee Code: RCASTR  
Licensee Name: Lockheed Martin Corporation-Phillipsburg

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**Site Information** **CARPENTERSVILLE, NJ**

Venue Name  
Latitude (NAD 83): 40° 38' 39.1" N  
Longitude (NAD 83): 75° 11' 27.8" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 54.86 m / 180.0 ft

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**Link Information**

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 4° W to 147° West Longitude  
Azimuth Range: 102.5° to 257.9°  
Corresponding Elevation Angles: 5.5° / 5.0°  
Antenna Centerline (AGL): 9.14 m / 30.0 ft

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**Antenna Information** **Transmit - FCC32**

Manufacturer: TIW SYSTEMS  
Model: FCC STD 14.2-MET  
Gain / Diameter: 57.5 dBi / 14.2 m  
3-dB / 15-dB Beamwidth: 0.24° / 0.46°

Max Available RF Power (dBW/4 kHz): 2.5  
(dBW/MHz): 26.5

Maximum EIRP (dBW/4 kHz): 60.0  
(dBW/MHz): 84.0

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 6.7 GHz**

Emission / Frequency Range (MHz): 1M00F2D - 1M00F8X / 6717.5 - 6718.5  
1M00F2D - 1M00F8X / 6719.5 - 6720.5

Max Great Circle Coordination Distance: 509.8 km / 316.7 mi  
Precipitation Scatter Contour Radius: 253.5 km / 157.5 mi

<b>Coordination Values</b>		<b>CARPENTERSVI, NJ</b>	
Licensee Name		Lockheed Martin Corporation-Phillipsburg	
Latitude (NAD 83)		40° 38' 39.1" N	
Longitude (NAD 83)		75° 11' 27.8" W	
Ground Elevation (AMSL)		54.86 m / 180.0 ft	
Antenna Centerline (AGL)		9.14 m / 30.0 ft	
Antenna Model		TIW 14.2 meter	
Antenna Mode		Transmit 6.7 GHz	
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	2.5 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	3.51	102.08	-10.00	100.00
5	3.90	97.51	-10.00	100.00
10	2.91	92.51	-10.00	100.00
15	2.84	87.51	-10.00	100.00
20	2.83	82.52	-10.00	100.00
25	3.07	77.52	-10.00	100.00
30	3.44	72.52	-10.00	100.00
35	3.78	67.52	-10.00	100.00
40	3.82	62.52	-10.00	100.00
45	3.80	57.53	-10.00	100.00
50	3.59	52.54	-10.00	100.00
55	3.40	47.55	-9.93	100.00
60	3.31	42.56	-8.72	100.00
65	3.12	37.58	-7.37	100.00
70	2.88	32.61	-5.83	106.30
75	3.07	27.61	-4.03	109.48
80	3.04	22.64	-1.87	118.28
85	3.06	17.68	0.82	128.03
90	3.07	12.74	4.37	140.11
95	2.74	8.00	9.42	173.46
100	2.73	3.74	17.68	213.27
105	2.58	3.84	17.40	325.73
110	2.72	7.37	10.31	178.36
115	2.80	10.92	6.05	153.21
120	2.62	14.56	2.92	143.25
125	2.05	18.40	0.38	144.87
130	1.63	22.02	-1.57	147.81
135	2.22	24.75	-2.84	130.00
140	2.76	27.32	-3.91	115.62
145	2.31	30.46	-5.09	119.93
150	2.22	33.06	-5.98	118.32
155	1.94	35.55	-6.77	121.35
160	2.22	37.22	-7.27	113.78
165	2.67	38.33	-7.59	103.84
170	2.46	39.65	-7.95	106.68
175	1.94	40.84	-8.28	116.00
180	1.90	41.11	-8.35	116.70
185	1.86	40.92	-8.30	117.95

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Licensee Name Lockheed Martin Corporation-Phillipsburg  
Latitude (NAD 83) 40° 38' 39.1" N  
Longitude (NAD 83) 75° 11' 27.8" W  
Ground Elevation (AMSL) 54.86 m / 180.0 ft  
Antenna Centerline (AGL) 9.14 m / 30.0 ft  
Antenna Model TIW 14.2 meter  
Antenna Mode Transmit 6.7 GHz  
Interference Objectives: Long Term -154.0 dBW/4 kHz 20%  
Short Term -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power 2.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.23	40.84	-8.28	133.68
195	1.33	39.59	-7.94	132.36
200	2.37	37.09	-7.23	111.02
205	1.76	35.72	-6.82	125.59
210	1.77	33.44	-6.11	127.75
215	2.21	30.54	-5.12	121.77
220	3.42	26.81	-3.71	104.37
225	3.50	23.78	-2.41	107.97
230	4.90	19.59	-0.30	100.00
235	4.41	16.68	1.44	108.04
240	4.50	13.22	3.97	116.48
245	3.77	10.24	6.75	136.90
250	2.53	7.51	10.11	181.63
255	2.28	4.01	16.92	347.08
260	2.60	3.20	19.36	509.81
265	3.11	7.34	10.36	169.43
270	3.39	12.19	4.85	136.12
275	2.86	17.22	1.10	132.63
280	2.80	22.19	-1.65	123.52
285	3.05	27.15	-3.84	110.55
290	3.56	32.11	-5.67	100.00
295	4.21	37.09	-7.23	100.00
300	4.98	42.08	-8.60	100.00
305	5.49	47.09	-9.82	100.00
310	5.46	52.09	-10.00	100.00
315	5.57	57.09	-10.00	100.00
320	4.81	62.08	-10.00	100.00
325	3.99	67.09	-10.00	100.00
330	3.36	72.09	-10.00	100.00
335	3.16	77.09	-10.00	100.00
340	3.15	82.09	-10.00	100.00
345	3.00	87.09	-10.00	100.00
350	3.23	92.08	-10.00	100.00
355	3.48	97.08	-10.00	100.00