



**COMSEARCH**  
An Andrew Company

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December 20, 2018

Re: Lockheed Martin Corporation-Phillipsburg  
CARPENTERSVI, NJ  
Temporary Transmit-Only Earth Station  
Operation Dates: 02/05/2019 - 09/01/2019  
Job Number: 181220COMSGE02

Dear Frequency Coordinator:

On behalf of Lockheed Martin Corporation-Phillipsburg, we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards  
Senior Manager  
[gedwards@comsearch.com](mailto:gedwards@comsearch.com)

Enclosure(s)

Date: 12/20/2018  
Job Number: 181220COMSGE02

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**Administrative Information**

Status TEMPORARY (Operation from 02/05/2019 to 09/01/2019)  
Call Sign TEMP09  
Licensee Code RCASTR  
Licensee Name Lockheed Martin Corporation-Phillipsburg

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

Venue Name  
Latitude (NAD 83) 40° 38' 41.0" N  
Longitude (NAD 83) 75° 11' 28.0" 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) 2.74 m / 9.0 ft

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

Manufacturer Prodelin  
Model 2.4 meter  
Gain / Diameter 42.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth 1.20° / 2.40°

Max Available RF Power (dBW/4 kHz) -10.7  
(dBW/MHz) 13.3

Maximum EIRP (dBW/4 kHz) 31.3  
(dBW/MHz) 55.3

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 6.1 GHz**

Emission / Frequency Range (MHz) 1M44G7W / 5949.22  
1M44G7W / 5950.67  
1M44G7W / 5963.03  
1M44G7W / 5964.49

Max Great Circle Coordination Distance 234.8 km / 145.9 mi  
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

<b>Coordination Values</b>	<b>CARPENTERSVI, NJ</b>	
Licensee Name	Lockheed Martin Corporation-Phillipsburg	
Latitude (NAD 83)	40° 38' 41.0" N	
Longitude (NAD 83)	75° 11' 28.0" W	
Ground Elevation (AMSL)	54.86 m / 180.0 ft	
Antenna Centerline (AGL)	2.74 m / 9.0 ft	
Antenna Model	Prodelin 2.4 meter	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-10.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	4.46	102.08	-10.00	100.00
5	5.06	97.51	-10.00	100.00
10	5.23	92.51	-10.00	100.00
15	4.76	87.51	-10.00	100.00
20	4.23	82.51	-10.00	100.00
25	4.21	77.51	-10.00	100.00
30	4.42	72.51	-10.00	100.00
35	4.18	67.52	-10.00	100.00
40	4.30	62.52	-10.00	100.00
45	4.47	57.52	-10.00	100.00
50	4.61	52.52	-10.00	100.00
55	4.37	47.52	-9.92	100.00
60	4.17	42.53	-8.72	100.00
65	4.02	37.54	-7.36	100.00
70	3.78	32.55	-5.81	100.00
75	3.54	27.58	-4.01	100.00
80	3.66	22.58	-1.84	100.00
85	3.99	17.57	0.88	100.00
90	3.93	12.61	4.48	100.00
95	3.91	7.68	9.87	100.00
100	3.92	2.97	20.20	135.15
105	3.72	3.06	19.86	165.73
110	3.69	6.71	11.33	106.65
115	3.87	10.17	6.81	100.00
120	4.09	13.51	3.73	100.00
125	4.03	16.96	1.27	100.00
130	3.78	20.43	-0.76	100.00
135	3.03	24.14	-2.57	100.00
140	2.49	27.53	-4.00	100.00
145	2.46	30.33	-5.05	100.00
150	2.32	32.98	-5.96	100.00
155	2.03	35.47	-6.75	100.00
160	2.25	37.19	-7.26	100.00
165	2.66	38.33	-7.59	100.00
170	2.59	39.51	-7.92	100.00
175	2.01	40.77	-8.26	100.00
180	1.99	41.01	-8.32	100.00
185	1.98	40.80	-8.27	100.00

<b>Coordination Values</b>	<b>CARPENTERSVI, NJ</b>	
Licensee Name	Lockheed Martin Corporation-Phillipsburg	
Latitude (NAD 83)	40° 38' 41.0" N	
Longitude (NAD 83)	75° 11' 28.0" W	
Ground Elevation (AMSL)	54.86 m / 180.0 ft	
Antenna Centerline (AGL)	2.74 m / 9.0 ft	
Antenna Model	Prodelin 2.4 meter	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-10.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.38	40.69	-8.24	100.00
195	1.50	39.43	-7.90	100.00
200	2.43	37.03	-7.21	100.00
205	1.81	35.66	-6.81	100.00
210	1.97	33.28	-6.05	100.00
215	3.07	29.84	-4.87	100.00
220	3.33	26.88	-3.73	100.00
225	4.21	23.23	-2.15	100.00
230	5.09	19.44	-0.22	100.00
235	4.41	16.69	1.44	100.00
240	4.48	13.23	3.96	100.00
245	3.57	10.38	6.60	100.00
250	2.47	7.56	10.04	124.05
255	2.40	3.93	17.14	178.76
260	3.26	2.74	21.05	234.85
265	3.80	7.19	10.58	101.82
270	2.81	12.28	4.77	100.00
275	2.70	17.24	1.09	100.00
280	3.02	22.17	-1.64	100.00
285	3.29	27.14	-3.84	100.00
290	4.00	32.10	-5.66	100.00
295	4.78	37.08	-7.23	100.00
300	5.47	42.09	-8.60	100.00
305	5.74	47.09	-9.82	100.00
310	5.93	52.09	-10.00	100.00
315	5.57	57.09	-10.00	100.00
320	5.04	62.08	-10.00	100.00
325	4.01	67.09	-10.00	100.00
330	3.56	72.09	-10.00	100.00
335	3.37	77.09	-10.00	100.00
340	3.30	82.09	-10.00	100.00
345	3.21	87.09	-10.00	100.00
350	3.47	92.08	-10.00	100.00
355	3.65	97.08	-10.00	100.00