



COMSEARCH[®]

A CommScope Company

May 03, 2017

Re: Intelsat License LLC
HAGERSTOWN, MD
Temporary Transmit-Only Earth Station
Operation Dates: 06/28/2017 - 07/08/2017
Job Number: 170503COMSGE06

Dear Frequency Coordinator:

On behalf of Intelsat License LLC, 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

Enclosure(s)

Date: 05/03/2017
Job Number: 170503COMSGE06

Administrative Information

Status ENGINEER PROPOSAL
Call Sign TEMP07
Licensee Code INTELS
Licensee Name Intelsat License LLC

Site Information HAGERSTOWN, MD

Venue Name
Latitude (NAD 83) 39° 35' 54.0" N
Longitude (NAD 83) 77° 45' 35.0" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 173.74 m / 570.0 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 6° W to 149° West Longitude
Azimuth Range 101.9° to 257.8°
Corresponding Elevation Angles 5.3° / 5.7°
Antenna Centerline (AGL) 5.79 m / 19.0 ft

Antenna Information Transmit - FCC32

Manufacturer Vertex
Model 9 KPC
Gain / Diameter 53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth 0.36° / 0.67°

Max Available RF Power (dBW/4 kHz) 9.0
(dBW/MHz) 33.0

Maximum EIRP (dBW/4 kHz) 62.5
(dBW/MHz) 86.5

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) 1M00FXD / 5923.5
1M00FXD / 6173.7
1M00FXD / 6426.0

Max Great Circle Coordination Distance 528.7 km / 328.5 mi
Precipitation Scatter Contour Radius 527.8 km / 327.9 mi

Coordination Values		HAGERSTOWN, MD	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		39° 35' 54.0" N	
Longitude (NAD 83)		77° 45' 35.0" W	
Ground Elevation (AMSL)		173.74 m / 570.0 ft	
Antenna Centerline (AGL)		5.79 m / 19.0 ft	
Antenna Model		Vertex 9 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	9.0 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	214.41
5	0.00	96.84	-10.00	214.41
10	0.00	91.86	-10.00	214.41
15	0.00	86.88	-10.00	214.41
20	0.00	81.90	-10.00	214.41
25	0.00	76.92	-10.00	214.41
30	0.00	71.95	-10.00	214.41
35	0.00	66.97	-10.00	214.41
40	0.00	62.00	-10.00	214.41
45	0.00	57.03	-10.00	214.41
50	0.00	52.06	-10.00	214.41
55	0.00	47.09	-9.82	215.13
60	0.00	42.14	-8.62	220.20
65	0.00	37.19	-7.26	226.09
70	0.00	32.26	-5.72	233.08
75	0.00	27.34	-3.92	241.55
80	0.00	22.47	-1.79	251.52
85	0.00	17.65	0.83	265.51
90	0.00	12.98	4.17	285.06
95	0.00	8.66	8.56	313.74
100	0.00	5.61	13.27	528.69
105	0.00	6.15	12.28	388.04
110	0.00	9.60	7.45	306.08
115	0.00	13.27	3.93	283.57
120	0.00	16.89	1.31	268.19
125	0.00	20.41	-0.75	256.94
130	0.00	23.83	-2.43	248.28
135	0.00	27.11	-3.83	242.00
140	0.00	30.23	-5.01	236.37
145	0.00	33.14	-6.01	231.73
150	0.00	35.82	-6.85	227.91
155	0.00	38.20	-7.55	224.81
160	0.00	40.26	-8.12	222.32
165	0.00	41.93	-8.56	220.43
170	0.00	43.16	-8.88	219.09
175	0.00	43.92	-9.07	218.29
180	0.00	44.18	-9.13	218.02
185	0.00	43.92	-9.07	218.29

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Antenna Centerline (AGL)		5.79 m / 19.0 ft	
Antenna Model		Vertex 9 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	9.0 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	219.09
195	0.00	41.93	-8.56	220.43
200	0.00	40.26	-8.12	222.33
205	0.00	38.20	-7.55	224.80
210	0.00	35.81	-6.85	227.92
215	0.00	33.14	-6.01	231.73
220	0.00	30.22	-5.01	236.37
225	0.00	27.11	-3.83	242.00
230	0.00	23.83	-2.43	248.27
235	0.00	20.42	-0.75	256.93
240	0.00	16.89	1.31	268.21
245	0.00	13.28	3.92	283.55
250	0.00	9.59	7.46	306.15
255	0.00	6.33	11.96	395.98
260	0.00	6.11	12.35	510.42
265	0.00	9.18	7.93	309.42
270	0.00	13.46	3.77	282.64
275	0.00	18.11	0.55	263.98
280	0.00	22.90	-2.00	250.46
285	0.00	27.76	-4.09	240.76
290	0.00	32.66	-5.85	232.45
295	0.00	37.59	-7.38	225.58
300	0.00	42.53	-8.72	219.77
305	0.00	47.48	-9.91	214.77
310	0.00	52.44	-10.00	214.41
315	0.00	57.40	-10.00	214.41
320	0.00	62.37	-10.00	214.41
325	0.00	67.34	-10.00	214.41
330	0.00	72.31	-10.00	214.41
335	0.00	77.28	-10.00	214.41
340	0.00	82.26	-10.00	214.41
345	0.00	87.23	-10.00	214.41
350	0.00	92.21	-10.00	214.41
355	0.00	97.18	-10.00	214.41