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<http://www.comsearch.com>

August 07, 2018

Re: Haras Development
KILEVILLE, OH
Temporary Transmit-Only Earth Station
Operation Dates: 10/01/2018 - 04/01/2019
Job Number: 180807COMSGE06

Dear Frequency Coordinator:

On behalf of Haras Development, 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 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: 08/07/2018
Job Number: 180807COMSGE06

Administrative Information

Status	TEMPORARY (Operation from 10/01/2018 to 04/01/2019)
Call Sign	TEMP04
Licensee Code	HARASD
Licensee Name	Haras Development

Site Information**KILEVILLE, OH**

Venue Name	
Latitude (NAD 83)	40° 6' 15.4" N
Longitude (NAD 83)	83° 11' 58.4" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	287.91 m / 944.6 ft

Link Information

Satellite Type	Low Earth Orbit
Mode	TO - Transmit-Only
Modulation	Digital
Minimum Elevation Angle	5.0°
Azimuth Range	0.0° to 360°
Antenna Centerline (AGL)	3.66 m / 12.0 ft

Antenna Information**Transmit - FCC32**

Manufacturer	ViaSat
Model	5.4 meter
Gain / Diameter	39.2 dBi / 5.4 m
3-dB / 15-dB Beamwidth	1.37° / 3.70°

Max Available RF Power	(dBW/4 kHz)	-3.0
	(dBW/MHz)	21.0

Maximum EIRP	(dBW/4 kHz)	36.2
	(dBW/MHz)	60.2

Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%

Frequency Information**Transmit 2.0 GHz**

Emission / Frequency Range (MHz)	N0N - 1M32G1D / 2025.0 - 2110.0
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Max Great Circle Coordination Distance	312.0 km / 193.8 mi
Precipitation Scatter Contour Radius	101.0 km / 62.7 mi

Coordination Values		KILEVILLE, OH		
Licensee Name		Haras Development		
Latitude (NAD 83)		40° 6' 15.4" N		
Longitude (NAD 83)		83° 11' 58.4" W		
Ground Elevation (AMSL)		287.91 m / 944.6 ft		
Antenna Centerline (AGL)		3.66 m / 12.0 ft		
Antenna Model		ViaSat 5.4 meter		
Antenna Mode		Transmit 2.0 GHz		
Interference Objectives: Long Term		-154.0 dBW/4 kHz	20%	
Short Term		-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	-3.0 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	94.39	10.00	312.00
5	0.00	89.40	10.00	312.00
10	0.00	84.41	10.00	312.00
15	0.00	79.42	10.00	312.00
20	0.00	74.42	10.00	312.00
25	0.00	69.44	10.00	312.00
30	0.00	64.45	10.00	312.00
35	0.00	59.46	10.00	312.00
40	0.00	54.47	10.00	312.00
45	0.00	49.49	10.00	312.00
50	0.00	44.50	10.00	312.00
55	0.00	39.52	10.00	312.00
60	0.00	34.55	10.00	312.00
65	0.00	29.58	10.00	312.00
70	0.00	24.63	10.00	312.00
75	0.00	19.69	10.00	312.00
80	0.00	14.80	10.00	312.00
85	0.00	10.02	10.00	312.00
90	0.00	5.61	10.00	312.00
95	0.00	3.54	10.00	312.00
100	0.00	6.60	10.00	312.00
105	0.00	11.16	10.00	312.00
110	0.00	15.98	10.00	312.00
115	0.00	20.89	10.00	312.00
120	0.00	25.83	10.00	312.00
125	0.00	30.78	10.00	312.00
130	0.00	35.75	10.00	312.00
135	0.00	40.73	10.00	312.00
140	0.00	45.71	10.00	312.00
145	0.00	50.69	10.00	312.00
150	0.00	55.68	10.00	312.00
155	0.00	60.66	10.00	312.00
160	0.00	65.65	10.00	312.00
165	0.00	70.64	10.00	312.00
170	0.00	75.63	10.00	312.00
175	0.00	80.62	10.00	312.00
180	0.00	85.61	10.00	312.00
185	0.00	90.60	10.00	312.00

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Antenna Mode		Transmit 2.0 GHz		
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%	
	Short Term	-131.0 dBW/4 kHz	0.0025%	
Max Available RF Power	-3.0 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	95.59	10.00	312.00
195	0.00	100.58	10.00	312.00
200	0.00	105.58	10.00	312.00
205	0.00	110.56	10.00	312.00
210	0.00	115.55	10.00	312.00
215	0.00	120.54	10.00	312.00
220	0.00	125.53	10.00	312.00
225	0.00	130.51	10.00	312.00
230	0.00	135.50	10.00	312.00
235	0.00	140.48	10.00	312.00
240	0.00	145.45	10.00	312.00
245	0.00	150.42	10.00	312.00
250	0.00	155.37	10.00	312.00
255	0.00	160.31	10.00	312.00
260	0.00	165.20	10.00	312.00
265	0.00	169.98	10.00	312.00
270	0.00	174.39	10.00	312.00
275	0.00	176.46	10.00	312.00
280	0.00	173.40	10.00	312.00
285	0.00	168.84	10.00	312.00
290	0.00	164.02	10.00	312.00
295	0.00	159.12	10.00	312.00
300	0.00	154.17	10.00	312.00
305	0.00	149.22	10.00	312.00
310	0.00	144.25	10.00	312.00
315	0.00	139.27	10.00	312.00
320	0.00	134.29	10.00	312.00
325	0.00	129.31	10.00	312.00
330	0.00	124.32	10.00	312.00
335	0.00	119.34	10.00	312.00
340	0.00	114.35	10.00	312.00
345	0.00	109.36	10.00	312.00
350	0.00	104.37	10.00	312.00
355	0.00	99.38	10.00	312.00