

Exhibit B

Frequency Coordination

Per 47 C.F.R. Ch. 1 §25.130(b), attached is a “Frequency Coordination And Interference Analysis Report” performed pursuant to 47 C.F.R. Ch. 1 §25.203(c).

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
GCI Communication Corporation
ST GEORGE, AK
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
December 19, 2011

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

There were no great circle interference cases identified during the interference study of the proposed earth station.

No carriers reported potential interference cases.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the carriers with a letter dated 12/19/2011.

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH
Earth Station Data Sheet
19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 12/19/2011
Job Number: 111219COMSTC01

Administrative Information

Licensee Name GCI Communication Corporation

Site Information

ST GEORGE, AK

Latitude (NAD 83) 56° 36' 3.2" N
Longitude (NAD 83) 169° 32' 52.7" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 31.09 m / 102.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 105°W to 194°West Longitude
Azimuth Range 111.7° to 208.6°
Corresponding Elevation Angles 5.0° / 22.0°
Antenna Centerline (AGL) 2.44 m / 8.0 ft

Antenna Information

Receive

Transmit

Manufacturer	Patriot	Patriot
Model	380AZ	380AZ
Gain / Diameter	42.3 dBi / 3.8 m	46.3 dBi / 3.8 m
3-dB / 15-dB Beamwidth	1.20° / 2.40°	0.60° / 1.20°

Max Available RF Power	(dBW/4 kHz) (dBW/MHz)	<u>6K72G7W - 36M0G7W</u> <u>6K72D7W - 36M0D7W</u> -2.7 -16.53 -0.45 7.47			
Maximum EIRP	(dBW/4 kHz)	43.6 29.77			
	(dBW/MHz)	45.85 53.77			
	(dBW)	45.85 69.31			
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	6K72G7W - 36M0G7W / 3700.0 - 4200.0	6K72G7W - 36M0G7W / 5925.0 - 6425.0
	6K72D7W - 36M0D7W / 3700.0 - 4200.0	6K72D7W - 36M0D7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance	570.2 km / 354.2 mi	332.7 km / 206.7 mi
Precipitation Scatter Contour Radius	619.6 km / 385.0 mi	101.7 km / 63.2 mi

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Coordination Values

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Antenna Centerline (AGL) 2.44 m / 8.0 ft

Antenna Mode Receive 4.0 GHz

Interference Objectives: Long Term -156.0 dBW/MHz 20% Transmit 6.1 GHz -154.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%

Max Available RF Power -2.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	3.11	111.66	-10.00	168.89	-10.00	100.00
5	3.11	106.66	-10.00	168.92	-10.00	100.00
10	3.11	101.67	-10.00	168.91	-10.00	100.00
15	3.67	96.67	-10.00	154.54	-10.00	100.00
20	3.68	91.67	-10.00	154.53	-10.00	100.00
25	3.68	86.67	-10.00	154.53	-10.00	100.00
30	4.24	81.67	-10.00	144.21	-10.00	100.00
35	4.24	76.67	-10.00	144.21	-10.00	100.00
40	4.24	71.67	-10.00	144.22	-10.00	100.00
45	5.53	66.67	-10.00	129.71	-10.00	100.00
50	5.53	61.67	-10.00	129.72	-10.00	100.00
55	7.81	56.72	-10.00	105.76	-10.00	100.00
60	7.81	51.73	-10.00	105.76	-10.00	100.00
65	7.81	46.74	-9.74	106.78	-9.74	100.00
70	9.08	41.83	-8.54	100.15	-8.54	100.00
75	9.08	36.87	-7.17	105.68	-7.17	100.00
80	10.23	32.05	-5.65	102.54	-5.65	100.00
85	10.23	27.14	-3.84	110.14	-3.84	100.00
90	10.23	22.26	-1.69	119.43	-1.69	100.00
95	10.22	17.44	0.96	131.49	0.96	100.00
100	10.23	12.77	4.35	147.40	4.35	100.00
105	10.23	8.46	8.82	177.72	8.82	100.00
110	10.62	5.69	13.13	570.16	13.13	332.74
115	10.62	3.25	19.20	442.46	19.20	239.07
120	10.62	0.92	32.89	400.37	32.89	197.46
125	10.62	1.44	28.03	311.36	28.03	135.30
130	10.62	3.59	18.13	229.98	18.13	100.00
135	13.34	3.13	19.62	216.10	19.62	100.00
140	12.83	5.38	13.72	185.81	13.72	100.00
145	12.83	7.03	10.82	165.74	10.82	100.00
150	12.83	8.50	8.76	153.21	8.76	100.00
155	12.80	9.80	7.22	144.13	7.22	100.00
160	12.80	10.85	6.11	138.01	6.11	100.00
165	12.80	11.69	5.30	135.10	5.30	100.00
170	12.83	12.24	4.80	132.37	4.80	100.00
175	12.83	12.61	4.49	130.82	4.49	100.00
180	12.83	12.74	4.37	130.27	4.37	100.00
185	12.87	12.57	4.52	130.72	4.52	100.00

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Interference Objectives: Long Term -156.0 dBW/MHz 20% Transmit 6.1 GHz -154.0 dBW/4 kHz 20%

Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%

Max Available RF Power -2.7 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	12.87	12.20	4.84	132.29	4.84	100.00
195	12.87	11.61	5.38	134.96	5.38	100.00
200	12.91	10.74	6.22	137.82	6.22	100.00
205	12.91	9.69	7.34	144.02	7.34	100.00
210	12.91	9.21	7.89	147.25	7.89	100.00
215	12.80	11.22	5.75	136.12	5.75	100.00
220	12.80	14.64	2.86	123.13	2.86	100.00
225	12.80	18.77	0.16	110.37	0.16	100.00
230	10.62	24.14	-2.57	112.87	-2.57	100.00
235	10.62	28.62	-4.42	104.98	-4.42	100.00
240	10.62	33.23	-6.04	100.00	-6.04	100.00
245	10.62	37.93	-7.47	100.00	-7.47	100.00
250	10.62	42.69	-8.76	100.00	-8.76	100.00
255	8.96	47.82	-9.99	100.00	-9.99	100.00
260	8.96	52.60	-10.00	100.00	-10.00	100.00
265	8.96	57.40	-10.00	100.00	-10.00	100.00
270	8.96	62.23	-10.00	100.00	-10.00	100.00
275	8.96	67.07	-10.00	100.00	-10.00	100.00
280	8.96	71.92	-10.00	100.00	-10.00	100.00
285	6.41	76.94	-10.00	120.69	-10.00	100.00
290	6.41	81.75	-10.00	120.70	-10.00	100.00
295	6.41	86.56	-10.00	120.69	-10.00	100.00
300	6.41	91.37	-10.00	120.69	-10.00	100.00
305	6.41	96.19	-10.00	120.69	-10.00	100.00
310	3.43	100.82	-10.00	159.77	-10.00	100.00
315	3.19	105.53	-10.00	165.25	-10.00	100.00
320	3.19	110.23	-10.00	165.27	-10.00	100.00
325	3.19	114.91	-10.00	165.26	-10.00	100.00
330	2.83	119.50	-10.00	175.52	-10.00	100.00
335	2.83	124.11	-10.00	175.52	-10.00	100.00
340	2.83	128.68	-10.00	175.52	-10.00	100.00
345	2.62	126.64	-10.00	180.24	-10.00	100.00
350	2.62	121.64	-10.00	180.23	-10.00	100.00
355	2.62	116.65	-10.00	180.24	-10.00	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: December 19, 2011