

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Broadcast Facilities, Inc.
LOS ANGELES, CA
Site P1
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
April 06, 2010

TABLE OF CONTENTS

1. CONCLUSIONS	3
2. SUMMARY OF RESULTS	4
3. SUPPLEMENTAL SHOWING	5
4. EARTH STATION COORDINATION DATA.....	6
5. CERTIFICATION.....	10

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 was no great circle interference cases were 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 below listed carriers with a letter dated 03/06/2010.

Company

American Tower, LLC

CNG Communications, Inc.

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: 04/06/2010
Job Number: 100306COMSTC01

Administrative Information

Licensee Name Broadcast Facilities, Inc.

Site Information

LOS ANGELES, CA

Venue Name P1
Latitude (NAD 83) 34° 6' 59.0" N
Longitude (NAD 83) 118° 14' 43.0" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 120.7 m / 396.0 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Analog and Digital
Satellite Arc 60° W to 143° West Longitude
Azimuth Range 109.1° to 219.4°
Corresponding Elevation Angles 17.5° / 42.3°
Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Information

Receive

Manufacturer Simulsat
Gain / Diameter 44.0 dBi / 5.0 m
3-dB / 15-dB Beamwidth 1.00° / 2.00°

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Frequency Information

Receive 4.0 GHz

Emission / Frequency Range (MHz) 36M0F3F / 3700.0 - 4200.0
36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 297.1 km / 184.6 mi
Precipitation Scatter Contour Radius 372.5 km / 231.4 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

LOS ANGELES, CA

Licensee Name	Broadcast Facilities, Inc.		
Latitude (NAD 83)	34° 6' 59.0" N		
Longitude (NAD 83)	118° 14' 43.0" W		
Ground Elevation (AMSL)	120.7 m / 396.0 ft		
Antenna Centerline (AGL)	3.66 m / 12.0 ft		
Antenna Mode	Receive 4.0 GHz		
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	
Short Term	-146.0 dBW/MHz	0.01%	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	3.89	108.59	-10.00	150.05
5	3.84	103.74	-10.00	151.10
10	3.75	98.88	-10.00	152.88
15	4.25	94.04	-10.00	144.04
20	4.65	89.17	-10.00	138.31
25	4.68	84.29	-10.00	137.93
30	4.85	79.41	-10.00	135.51
35	4.63	74.56	-10.00	138.61
40	4.21	69.73	-10.00	144.74
45	3.89	64.93	-10.00	150.15
50	3.84	60.12	-10.00	151.21
55	3.16	55.43	-10.00	165.85
60	3.00	50.72	-10.00	171.50
65	2.49	46.14	-9.60	185.34
70	1.86	41.70	-8.50	205.20
75	1.66	37.25	-7.28	214.05
80	1.26	33.03	-5.97	233.52
85	1.75	28.59	-4.41	226.61
90	2.12	24.40	-2.69	225.68
95	2.78	20.34	-0.71	220.99
100	3.65	16.58	1.51	214.37
105	4.22	13.94	3.39	214.29
110	3.31	14.26	3.15	232.17
115	3.00	15.65	2.14	233.12
120	2.76	18.26	0.46	228.29
125	2.62	21.64	-1.38	220.87
130	2.03	25.70	-3.25	224.58
135	2.43	29.05	-4.58	208.32
140	1.68	32.99	-5.96	220.21
145	0.64	36.97	-7.20	257.32
150	0.00	40.47	-8.18	297.13
155	0.00	43.24	-8.90	292.39
160	0.91	44.90	-9.31	229.06
165	1.35	46.44	-9.67	211.29
170	1.86	47.36	-9.89	198.84
175	1.69	48.37	-10.00	202.84
180	1.75	48.60	-10.00	201.27
185	1.76	48.30	-10.00	200.94

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

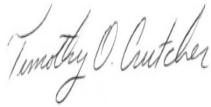
LOS ANGELES, CA

Licensee Name Broadcast Facilities, Inc.
Latitude (NAD 83) 34° 6' 59.0" N
Longitude (NAD 83) 118° 14' 43.0" W
Ground Elevation (AMSL) 120.7 m / 396.0 ft
Antenna Centerline (AGL) 3.66 m / 12.0 ft
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	2.25	46.99	-9.80	189.79
195	1.69	46.13	-9.60	204.72
200	1.24	44.70	-9.26	216.55
205	1.69	42.70	-8.76	206.15
210	1.27	41.94	-8.57	219.12
215	1.14	41.39	-8.42	224.12
220	1.08	41.26	-8.39	226.17
225	1.62	41.02	-8.32	209.93
230	1.18	42.25	-8.65	221.47
235	0.99	43.68	-9.01	225.82
240	1.34	45.03	-9.34	213.17
245	0.97	47.39	-9.89	222.65
250	0.93	49.78	-10.00	224.20
255	0.72	52.55	-10.00	236.23
260	0.83	55.33	-10.00	229.56
265	0.91	58.34	-10.00	225.01
270	2.03	61.03	-10.00	193.79
275	2.46	64.29	-10.00	184.02
280	2.79	67.74	-10.00	176.31
285	3.79	71.13	-10.00	152.12
290	3.38	75.01	-10.00	160.88
295	2.85	78.92	-10.00	174.89
300	1.75	82.86	-10.00	201.17
305	1.13	86.67	-10.00	216.36
310	0.95	90.43	-10.00	222.98
315	0.75	94.17	-10.00	234.29
320	0.63	97.88	-10.00	241.57
325	0.78	101.59	-10.00	232.35
330	0.97	105.30	-10.00	221.72
335	1.57	109.09	-10.00	206.12
340	2.08	112.85	-10.00	192.76
345	2.87	116.69	-10.00	174.42
350	4.04	118.27	-10.00	147.27
355	4.37	113.47	-10.00	142.36

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: April 06, 2010

Broadcast Facilities, Inc.




Legend:

Scale: 1:7,000,000

Great Circle: 4.0 GHz 

Precipitation Scatter: 4.0 GHz 

Earth Station Site: 



COMSEARCH®
19700 Janelia Farm Boulevard
Ashburn, VA 20147