SatCom Law LLC
1317 F St. NW, Suite 400
Washington, D.C. 20004
T 202.599.0975
www.satcomlaw.com

October 4, 2011

By Electronic Filing

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Frequency Correction for Sirius XM Radio Inc. STA Request
File No. SES-STA-20110919-01112, Call Sign E080168

Dear Ms. Dortch:

Sirius XM Radio Inc. ("Sirius XM"), by its attorneys, hereby updates the above-referenced request for special temporary authority (the "STA Request") to correct one of the frequencies specified for testing operations.

As the STA Request explains, Sirius XM and its subsidiary XM Radio LLC ("XM Radio") plan to conduct certain tests beginning on October 10, 2011. The first set of tests will use Sirius XM's E080168 earth station in Ellenwood, Georgia and XM Radio's XM-5 space station. These tests will simulate the conditions that would apply in the event XM-5 was needed to restore capacity because of an anomaly affecting the Sirius XM FM-5 space station or the Sirius XM HEO constellation. *See* STA Request, Narrative at 3. The STA Request stated that the uplink signals from the E080168 earth station for these tests would be at 7062.29 MHz. *Id.* However, Sirius XM has subsequently determined that testing operations need to take place at a lower frequency in order to avoid creating a risk of interference into XM Radio's XM-3 space station, which is collocated with XM-5. Accordingly, Sirius XM hereby advises the Commission that it plans to use 7058.29 MHz instead of 7062.29 MHz for the uplink signals for this set of tests.

Substitution of this frequency is consistent with the public interest and will not result in harmful interference. The substituted frequency, 7058.29 MHz, has been fully coordinated with terrestrial users for operations from the Ellenwood, Georgia antenna site. Specifically, XM Radio last year updated the coordination for its E040204 earth station at Ellenwood, and the range of frequencies covered in that coordination encompasses the 7058.29 MHz frequency.[1] The E040204 earth station antennas are collocated with those of E080168, with the same address and coordinates. Furthermore, E040204 is licensed to communicate with XM-5. Thus, the planned tests pursuant to the STA using an antenna licensed under the E080168 call sign

[1] *See* File No. SES-MOD-20101022-01324, Exhibit B (Frequency Coordination Report). A copy of this coordination report is attached hereto for the Commission's convenience.

will be consistent with operations at this location that are authorized under the E040204 license. As a result, the operations raise no concerns about harmful interference.

Accordingly, Sirius XM respectfully requests that the Commission update its records relating to the STA Request to reflect the change in frequency described herein. Please let me know if you have any questions regarding this matter.

Respectfully submitted,

/s/ Karis A. Hastings

Karis A. Hastings
Counsel for Sirius XM Radio Inc.
karis@satcomlaw.com

cc: Paul Blais

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
XM RADIO, INC
ELLENWOOD, GA
(Call Sign E040204)
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
October 15, 2010

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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

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

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 09/17/2010.

Company
ALABAMA EDUCATIONAL TELEVISION COMMISSIO
ATLANTA TELEVISION STATION WUPA INC
American Broadcasting Companies, Inc.
COMMUNITY TELEVISION, INC.
Georgia Public Telecomm. Commission
Georgia Television Company
ION MEDIA ATLANTA LICENSE, INC.
MEDIA GENERAL COMMUNICATIONS HOLDINGS, L
MEREDITH CORPORATION
MEREDITH CORPORATION - WGCL-TV
New World Communications of Atlanta, Inc
Pacific and Southern Company, Inc.
SOUTH CAROLINA EDUCATIONAL TELEVISION CO
TV ALABAMA, INC. - WCFT-TV
Trinity Broadcasting Network Inc
UGARF Media Holding, LLC
UNIVISION ATLANTA, LLC
WBRC License Subsidiary, LLC
SBE Coordinator Atlanta Area

3G Wireless, LLC
Broadcast Sports Corp
Broadcast Sports Enterprises Inc.
Casper, John
Citywide News Network, Inc.
Cohen, Elana
FISHMAN BROTHERS ENTERPRISES
GOODYEAR TIRE AND RUBBER COMPANY
Heiden Mr, William
Information Super Station LLC
NSM Surveillance
Onboard Images
Production & Satellite Services, Inc.
Regulus Media Services, Inc.
REMOTE FACILITIES CONSULTING SERVICES
RF Film, Inc
RF Technology, LLC
Total RF Marketing Inc
Universal Satellite Communications Inc.
Village Video Productions Inc
WOLFE AIR AVIATION
Wexler Video, Inc.
Winged Vision 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:	10/15/2010
Job Number:	100917COMSGE01

Administrative Information

Status	ENGINEER PROPOSAL
Call Sign	E040204
Licensee Code	XMSRAD
Licensee Name	XM RADIO, INC

Site Information — ELLENWOOD, GA

Venue Name	
Latitude (NAD 83)	33° 39' 51.0" N
Longitude (NAD 83)	84° 16' 24.0" W
Climate Zone	A
Rain Zone	1
Ground Elevation (AMSL)	242.32 m / 795.0 ft

Link Information

Satellite Type	Geostationary
Mode	TR - Transmit-Receive
Modulation	Digital
Satellite Arc	80° W to 120° West Longitude
Azimuth Range	172.3° to 232.4°
Corresponding Elevation Angles	50.6° / 35.4°
Antenna Centerline (AGL)	4.57 m / 15.0 ft

Antenna Information		Receive - FCC32		Transmit - FCC32	
Manufacturer		Vertex RSI		Vertex RSI	
Model		7.2 Meter		7.2 Meter	
Gain / Diameter		41.8 dBi / 7.2 m		52.4 dBi / 7.2 m	
3-dB / 15-dB Beamwidth		0.50° / 1.00°		0.20° / 0.40°	
Max Available RF Power	(dBW/4 kHz)			-1.0	
	(dBW/MHz)			23.0	
Maximum EIRP	(dBW/4 kHz)			51.4	
	(dBW/MHz)			75.4	
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 2.0 GHz	Transmit 7.0 GHz
Emission / Frequency Range (MHz)	1M84G1E / 2332.5 – 2345.0 100KG2D / 2332.5 – 2345.0	800KF2D / 7042.6 – 7074.4 1M84G1E / 7056.845 – 7074.869
Max Great Circle Coordination Distance	303.0 km / 188.3 mi	187.7 km / 116.6 mi
Precipitation Scatter Contour Radius	556.0 km / 345.4 mi	159.4 km / 99.0 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values	**ELLENWOOD, GA**			
Licensee Name	XM RADIO, INC			
Latitude (NAD 83)	33° 39' 51.0" N			
Longitude (NAD 83)	84° 16' 24.0" W			
Ground Elevation (AMSL)	242.32 m / 795.0 ft			
Antenna Centerline (AGL)	4.57 m / 15.0 ft			
Antenna Model	Vertex RSI 7.2 Meter			
Antenna Mode	Receive 2.0 GHz		Transmit 7.0 GHz	
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%
Max Available RF Power			-1.0 (dBW/4 kHz)	

			Receive 2.0 GHz		Transmit 7.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	4.50	121.58	-10.00	140.47	-10.00	100.00
5	4.50	125.51	-10.00	140.47	-10.00	100.00
10	3.59	128.87	-10.00	156.39	-10.00	100.00
15	2.30	127.87	-10.00	187.71	-10.00	100.00
20	1.66	125.58	-10.00	203.61	-10.00	105.73
25	0.97	123.05	-10.00	221.71	-10.00	123.92
30	0.00	120.17	-10.00	285.28	-10.00	177.26
35	0.00	117.83	-10.00	285.28	-10.00	177.26
40	0.28	115.47	-10.00	275.38	-10.00	168.65
45	0.34	112.81	-10.00	268.10	-10.00	160.56
50	0.35	110.00	-10.00	266.48	-10.00	159.14
55	0.42	107.10	-10.00	259.11	-10.00	152.76
60	0.41	104.08	-10.00	260.10	-10.00	153.61
65	0.40	100.99	-10.00	260.77	-10.00	154.18
70	0.30	97.84	-10.00	272.68	-10.00	164.61
75	0.29	94.67	-10.00	274.62	-10.00	167.98
80	0.00	91.48	-10.00	285.28	-10.00	177.26
85	0.39	88.29	-10.00	262.27	-10.00	155.48
90	0.65	85.07	-10.00	240.08	-10.00	137.20
95	0.72	81.87	-10.00	235.91	-10.00	133.94
100	0.55	78.76	-10.00	246.61	-10.00	142.44
105	0.70	75.62	-10.00	237.15	-10.00	134.90
110	0.81	72.55	-10.00	230.99	-10.00	131.38
115	0.85	69.58	-10.00	228.25	-10.00	129.22
120	1.00	66.66	-10.00	220.44	-10.00	122.86
125	1.05	63.91	-10.00	218.88	-10.00	121.56
130	0.97	61.38	-10.00	221.87	-10.00	124.05
135	1.26	58.78	-10.00	212.35	-10.00	115.93
140	1.85	56.13	-10.00	198.54	-10.00	101.07
145	1.68	54.27	-10.00	203.16	-10.00	105.31
150	1.20	52.98	-10.00	214.21	-10.00	117.56
155	1.12	51.65	-10.00	216.47	-10.00	119.51
160	1.06	50.65	-10.00	218.42	-10.00	121.17
165	1.20	49.79	-10.00	214.25	-10.00	117.59
170	0.95	49.67	-10.00	222.75	-10.00	124.77
175	0.72	49.93	-10.00	236.31	-10.00	134.25
180	0.68	50.18	-10.00	238.29	-10.00	135.79
185	0.51	50.04	-10.00	249.03	-10.00	144.42

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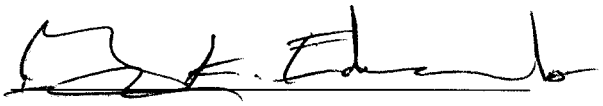
Antenna Centerline (AGL)	4.57 m / 15.0 ft			
Antenna Model	Vertex RSI 7.2 Meter			
Antenna Mode	Receive 2.0 GHz		Transmit 7.0 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power			-1.0 (dBW/4 kHz)	

			Receive 2.0 GHz		Transmit 7.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.60	49.05	-10.00	243.67	-10.00	140.07
195	0.56	47.61	-9.94	246.50	-9.94	142.27
200	0.94	45.31	-9.41	226.34	-9.41	127.00
205	1.11	42.80	-8.79	223.13	-8.79	123.66
210	0.62	40.60	-8.21	252.62	-8.21	144.83
215	0.51	38.51	-7.64	263.43	-7.64	152.98
220	0.47	36.82	-7.15	270.41	-7.15	158.23
225	0.41	35.69	-6.81	280.19	-6.81	167.85
230	0.39	35.11	-6.63	283.08	-6.63	170.10
235	0.34	35.17	-6.65	289.05	-6.65	175.23
240	0.27	35.87	-6.87	297.03	-6.87	182.18
245	0.00	37.33	-7.30	303.02	-7.30	187.68
250	0.20	38.87	-7.74	299.84	-7.74	185.82
255	0.32	40.97	-8.31	281.62	-8.31	171.47
260	0.42	43.47	-8.95	264.77	-8.95	156.09
265	0.35	46.43	-9.67	268.29	-9.67	160.23
270	0.70	49.39	-10.00	237.21	-10.00	134.95
275	0.88	52.69	-10.00	226.80	-10.00	128.06
280	1.01	56.22	-10.00	220.13	-10.00	122.60
285	1.34	59.82	-10.00	210.09	-10.00	113.92
290	1.97	63.46	-10.00	195.37	-10.00	100.00
295	1.80	67.49	-10.00	199.98	-10.00	102.38
300	2.70	71.32	-10.00	178.50	-10.00	100.00
305	3.91	75.25	-10.00	149.68	-10.00	100.00
310	3.91	79.47	-10.00	149.68	-10.00	100.00
315	5.30	83.62	-10.00	131.91	-10.00	100.00
320	6.47	87.92	-10.00	120.10	-10.00	100.00
325	6.73	92.30	-10.00	117.28	-10.00	100.00
330	6.97	96.70	-10.00	114.71	-10.00	100.00
335	8.06	101.19	-10.00	103.24	-10.00	100.00
340	7.13	105.46	-10.00	112.98	-10.00	100.00
345	6.23	109.62	-10.00	122.74	-10.00	100.00
350	6.37	113.91	-10.00	121.20	-10.00	100.00
355	5.40	117.82	-10.00	130.95	-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.

BY: _ 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: October 15, 2010