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June 9, 2009

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

Re: Sirius XM Radio Inc. Modification Application,  
IBFS File No. SES-MOD-20090604-00692

Dear Ms. Dortch:

The attached charts were inadvertently omitted from Attachment B of the above-referenced application. Sirius XM Radio Inc. seeks to add these charts to the pending application.

Please do not hesitate to contact the undersigned should you have any questions.

Sincerely,

*/s/ Carl R. Frank*

Carl R. Frank  
*Counsel for Sirius XM Radio Inc.*

The Sirius XM satellites that utilize C-band Telemetry, Command and ranging (TC&R) system, crosses the GEO at 66°W and 126°W longitude. The satellite GEO crossing is allowed to drift east/west +/-2.5 degrees from 63.5°W to 68.5°W and from 123.5°W to 128.5°W. However, the C-band transmission to and from the satellites are ceased +/-2 degrees around the GEO arc limiting the worst-case possible interference to 2 degrees even though the east/west crossing with respect to a GEO satellite may be less than two degrees.

**Earth Stations (ES) Command Transmission Information (Polarization: LHCP, Occupied Bandwidth: 1.0 MHz**

**Satellite Telemetry Transmission Information (Polarization: RHCP, Occupied Bandwidth: 300 kHz)**

Longitude	Worst-case East/West Delta from Sirius XM Satellites	Coordinating Satellites	Within 7.5°	Within 12.5°		South America ES SFD (dBW/M^2)	Atlanta, GA ES SFD (dBW/M^2)
<a href="#">55.5°W</a>	<a href="#">8°</a>	<a href="#">Intelsat 805</a>		x	C	-131.5	-128.6
<a href="#">58.0°W</a>	<a href="#">5.5°</a>	<a href="#">Intelsat 9</a>		x	C + Ku	-127.4	-124.5
<a href="#">61.0°W</a>	<a href="#">2.5°</a>	<a href="#">Amazonas</a>		x	C + Ku	-118.8	-115.9
<a href="#">61.5°W</a>	<a href="#">2°</a>	<a href="#">EchoStar 3</a>	x		Ku	-116.4	-113.5
		<a href="#">Rainbow 1 (Echostar 12)</a>	x		Ku	-116.4	-113.5
<a href="#">63.0°W</a>	<a href="#">0.5° - Note1</a>	<a href="#">Estrela do Sul (Telstar 14)</a>		x	Ku	-116.4	-113.5
<a href="#">65.0°W</a>	<a href="#">0° - Note 1</a>	<a href="#">Star One C1</a>		x	C + Ku	-116.4	-113.5
<a href="#">66.0 W</a>	<a href="#">0°</a>	<a href="#">Sirius Eastern Crossing</a>			C	-82.7	-82.2
<a href="#">68</a>	<a href="#">0° - Note 1</a>	<a href="#">BrazilSat B1 (incl 1.7)</a>		x	C	-116.4	-113.5
<a href="#">70.0°W</a>	<a href="#">1.5° - Note 1</a>	<a href="#">Star One C2</a>		x	C + Ku	-116.4	-113.5
<a href="#">72.0°W</a>		<a href="#">Nahuel 1 (incl. 1.2 (Argentina))</a>		x	Ku	-122.5	-119.6
	<a href="#">3.5°</a>	<a href="#">AMC 6</a>	x		C + Ku	-122.5	-119.6
<a href="#">72.5°W</a>		<a href="#">DirecTV 1R</a>	x		Ku	-123.9	-121
	<a href="#">4°</a>	<a href="#">EchoStar 6</a>	x		Ku	-123.9	-121
<a href="#">74.0°W</a>	<a href="#">5.5°</a>	<a href="#">Horizons 2</a>	x		Ku	-127.4	-124.5
<a href="#">75.0 W</a>	<a href="#">6.5°</a>	<a href="#">GOES 12</a>				-129.2	-126.3
<a href="#">75.0°W</a>	<a href="#">6.5°</a>	<a href="#">Brasilsat B3</a>		x	C	-129.2	-126.3
<a href="#">78.0 W</a>	<a href="#">9.5°</a>	<a href="#">Venesat 1 (Venezuela)</a>		x	C + Ku	-133.3	-130.4

Note 1: The worst-case interference is limited to 2° because the Sirius satellites cease all C-band transmissions within 2° of the GEO arc

**Earth Stations (ES) Command Transmission Information (Polarization: LHCP, Occupied Bandwidth: 1.0 MHz**

**Satellite Telemetry Transmission Information (Polarization: RHCP, Occupied Bandwidth: 300 kHz)**

Longitude	Worst-case East/West Delta from Sirius XM Satellites	Coordinating Satellites	Within 7.5°	Within 12.5°		South America ES SFD (dBW/M <sup>2</sup> )	Atlanta, GA ES SFD (dBW/M <sup>2</sup> )
<a href="#">114.9°W</a>	<a href="#">8.6°</a>	Solidaridad 2 ( <i>incl. 0.7°</i> )		x	C	-132.2	-129.3
<a href="#">116.8°W</a>	<a href="#">6.7°</a>	<a href="#">SatMex 5</a>		x	C + Ku	-129.5	-126.6
<a href="#">119.0°W</a>	-	<a href="#">Anik F3</a>		x	Ku	-125.2	-122.3
	-	<a href="#">Echostar 7</a>		x	Ku	-125.2	-122.3
	<a href="#">4.5°</a>	<a href="#">DirecTV 7S</a>	x		Ku	-125.2	-122.3
<a href="#">121.0°W</a>	<a href="#">2.5°</a>	<a href="#">EchoStar 9/Galaxy 23</a>	x		C + Ku	-118.8	-115.9
<a href="#">123.0°W</a>	<a href="#">0.5° - Note1</a>	<a href="#">Galaxy 12</a>	x		C	-116.4	-113.5
<a href="#">123.0°W</a>	<a href="#">0.5° - Note1</a>	<a href="#">Galaxy 18</a>	x		C + Ku	-116.4	-113.5
<a href="#">125.0°W</a>	-	<a href="#">Galaxy 14</a>	x		C	-116.4	-113.5
	<a href="#">0° - Note 1</a>	<a href="#">AMC 21</a>	x		Ku	-116.4	-113.5
<a href="#">126 W</a>	<a href="#">0°</a>	<a href="#">Sirius Western Crossing</a>			C	-82.7	-82.2
<a href="#">127.0°W</a>	<a href="#">0° - Note 1</a>	<a href="#">Galaxy 13/Horizons 1</a>	x		C + Ku	-116.4	-113.5
<a href="#">129.0°W</a>	-	<a href="#">EchoStar 5</a>	x		Ku	-116.4	-113.5
	<a href="#">0.5° - Note1</a>	<a href="#">Galaxy 27</a>	x		C + Ku	-116.4	-113.5
<a href="#">131.0°W</a>	<a href="#">2.5°</a>	<a href="#">AMC 11</a>	x		C	-118.8	-115.9
<a href="#">133.0°W</a>	<a href="#">4.5°</a>	<a href="#">Galaxy 15</a>	x		C	-125.2	-122.3
	-	<a href="#">GOES 11</a>					
<a href="#">142.0 W</a>	-	Inmarsat 2 F1 (Incl 6.1)		x	C		

Note 1: The worst-case interference is limited to 2° because the Sirius satellites cease all C-band transmissions within 2° of the GEO arc

Sirius XM C-band Telemetry Transmission	South America	North America	Units
Polarization	RHCP	RHCP	
Downlink Carrier Frequencies (4197.0 & 4196.5)	4197.0	4197.0	MHz
Occupied Bandwidth	300.0	300.0	kHz
Worst-case Transmitted EIRP	11.0	11.0	dBW
Modulation Loss	-4.1	-4.1	dB
Path Loss (at GEO = 32500/34100 km)	-195.1	-195.6	dB
Received Power @ Earth Surface	-188.2	-188.7	dBW
Received Power @ Earth Surface /4kHz	-207.0	-207.4	dBW/4kHz