

XM Radio LLC  
SAT-STA-20110907-00174  
IB2011004196

File # SAT-STA-20110907-00174

Call Sign \_\_\_\_\_ Grant Date 11/02/11  
(or other identifier)

Term Dates See conditions  
From 09/11/11 To: \_\_\_\_\_

Approved by OMB  
3060-0678

Date & Time Filed: Sep 7 2011 4:19:48:266PM  
File Number: SAT-STA-20110907-00174  
Callsign:

**GRANTED\***  
International Bureau  
\*with conditions

Approved: *Stephen J. Duall*  
Stephen J. Duall  
Chief, Satellite Policy Branch

FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:  
Request for Bulk Extension of Special Temporary Authority to Operate Terrestrial Repeaters at Various Locations for 180 Days

1. Applicant

Name:	XM Radio LLC	Phone Number:	212-584-5100
DBA Name:		Fax Number:	212-584-5353
Street:	1221 Avenue of the Americas 36th Floor	E-Mail:	
City:	New York	State:	NY
Country:	USA	Zipcode:	10020
Attention:	Patrick L. Donnelly		-

**Application of XM Radio LLC for Special Temporary Authority  
IBFS File No. SAT-STA-20110907-00174**

Special temporary authority (STA) is granted to XM Radio LLC (XM Radio), for a period of 180 days commencing September 11, 2011, to continue to operate Satellite Digital Audio Radio Service (SDARS) terrestrial repeaters that were previously authorized to operate in the 2332.5-2345 MHz frequency band under multiple separate grants of special temporary authority, as listed in XM Radio's application. This grant will not change the previously authorized technical parameters of the repeaters, each of which will operate with an effective isotropically radiated power of less than 12,000 watts (average) at various locations throughout the United States. This authorization is granted according to the technical parameters specified in XM Radio's application and is subject to the conditions below.

1. Any actions taken as a result of this STA are solely at the applicant's own risk.
2. SDARS terrestrial repeaters are restricted to the simultaneous retransmission of the complete programming, and only that programming, transmitted by the SDARS licensee's satellite(s) directly to the SDARS licensee's subscribers' receivers, and may not be used to distribute any information not also transmitted to all subscribers' receivers.
3. Coordination of the operations of the terrestrial repeaters shall be completed with all affected Administrations prior to operation, in accordance with all applicable international agreements including those with Canada and Mexico.
4. The terrestrial repeaters shall comply with Part 17 of the Commission's rules – Construction, Marking, and Lighting of Antenna Structures.
5. The terrestrial repeaters shall comply with Part 1 of the Commission's rules, Subpart I – Procedures Implementing the National Environmental Policy Act of 1969, including the guidelines for human exposure to radio frequency electromagnetic fields as defined in Sections 1.1307(b) and 1.1310 of the Commission's rules.
6. Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than  $90 + 10 \log (P)$  dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts. Any SDARS terrestrial repeater operating at a power level equal to or less than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than  $75 + 10 \log (P)$  dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts..
7. This STA expires after 180 days, or on the date that permanent authority to operate the covered repeater operations becomes effective, whichever occurs first.
8. XM Radio is granted 30 days from the date of the release of this authorization to decline the authorization as conditioned. Failure to respond within that period will constitute formal acceptance of the authorization as conditioned.
9. This action is taken on delegated authority pursuant to 47 C.F.R. § 0.261 and is effective upon release. Petitions for reconsideration under 47 C.F.R. § 1.106 or applications for review under 47 C.F.R. § 1.115 may be filed within 30 days of the date of the Public Notice announcing this action.



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Term Dates see  
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Approved: \_\_\_\_\_

*Stephen J. Duall*  
Stephen J. Duall  
Chief, Satellite Policy Branch

<b>2. Contact</b>	
<b>Name:</b> James S. Blitz	<b>Phone Number:</b> 202-380-4000
<b>Company:</b> Sirius XM Radio Inc.	<b>Fax Number:</b> 202-380-4981
<b>Street:</b> 1500 Eckington Place NE	<b>E-Mail:</b> james.blitz@siriusxm.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20002 -
<b>Attention:</b>	<b>Relationship:</b>
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number SATSTA2011030300046 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CRY - Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location	<input checked="" type="radio"/> Extend Expiration Date
	<input type="radio"/> Other
6. Temporary Orbit Location	
	7. Requested Extended Expiration Date

8. Description (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

XM Radio LLC requests bulk extension of Special Temporary Authority to operate multiple terrestrial repeaters at various locations across the United States for 180 days. Absent renewal, this STA will expire on September 11, 2011.

9. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. Yes  No

10. Name of Person Signing  
James S. Blitz

11. Title of Person Signing  
Vice President, Regulatory Counsel

12. Please supply any need attachments.

Attachment 1: STA Request

Attachment 2:

Attachment 3:

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT  
(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION  
(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

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**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**



Sirius XM Radio Inc.  
1500 Eckington Place NE  
Washington, DC 20002

T: 202-380-4000  
F: 202-380-4500

siriusxm.com

September 7, 2011

**Via IBFS**

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

**Re: XM Radio LLC  
Request for Bulk Extension of Special Temporary Authority to  
Operate Terrestrial Repeaters at Various Locations for 180 Days,  
FCC File No. SAT-STA-20110303-00046**

Dear Ms. Dortch:

Pursuant to Section 25.120(b)(2) of the Commission's rules, 47 C.F.R. § 25.120(b)(2), XM Radio LLC ("XM"), a satellite radio licensee in the Satellite Digital Audio Radio Service ("SDARS"), hereby requests extension of Special Temporary Authority ("STA") to operate terrestrial repeaters.<sup>1</sup> XM requests extension of the STA grant listed above to operate these repeaters in the XM frequency band (2332.5- 2345 MHz) at various locations across the United States, for a period of 180 days or until the Commission issues a blanket license for these repeaters pursuant to 47 C.F.R. § 25.144(e), whichever occurs first. Absent renewal, these STAs will expire on September 11, 2011.<sup>2</sup>

The Commission's May 20, 2010 decision adopting formal rules for satellite radio terrestrial repeaters established mechanisms to facilitate the continued operation of repeaters under STA until the new rules were fully in effect, including directing the staff to provide a uniform expiration date for all such STAs:

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<sup>1</sup> The FCC authorizations formerly held by XM Radio Inc. were recently assigned to XM Radio LLC pursuant to Commission consent. FCC File Nos. SAT-ASG-20110617-00111 (granted June 23, 2011), SES-ASG-INTR2011-01952 and 0004771722 (granted June 30, 2011).

<sup>2</sup> Because this request is timely, pursuant to Section 1.62 of the Rules, the listed STAs will continue in effect without further action by the Commission until such time as the Commission shall make a final determination with respect to this request. *See* 47 C.F.R. § 1.62.

In order to effect an orderly transition from operations under grants of STA to permanent authority to operate terrestrial repeaters, we instruct the International Bureau to extend all existing grants of STA for SDARS repeaters for a period of 180 days from the release date of this *Second Report and Order*.<sup>3</sup>

The instant application asks that the Bureau grant the bulk STA extension contemplated in the *2010 Order*.<sup>4</sup> Incorporating multiple extension applications into a single filing facilitates the STA process going forward by establishing a consistent expiration date for many of XM's repeater STA grants.

XM currently operates these repeaters pursuant to an STA granted by the International Bureau on May 11, 2011 and covering a 180-day period beginning on March 15, 2011. XM has not changed technical parameters for the repeaters since the original grants of the STAs and is not herein requesting modification of any of those parameters. Renewing this STA will serve the public interest by assisting the Bureau to implement the Commission's directive in the *2010 Order* concerning STA extensions and will enable XM to continue to provide a quality signal to its subscribers at various locations across the United States.

During the time the referenced STAs have been operating, XM has not been made aware of any incidents where the equipment has caused any interference to other radio services. None of these repeaters will exceed 12 kw average EIRP, which is the maximum power level the Commission permits in its new rules for satellite radio terrestrial repeaters.<sup>5</sup>

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<sup>3</sup> Amendment of Part 27 of the Commission's Rules to Govern the Operation of Wireless Communications Services in the 2.3 GHz Band; Establishment of Rules and Policies for the Digital Audio Radio Satellite Service in the 2310-2360 MHz Frequency Band, Report and Order and Second Report and Order, FCC 10-82, at Para. 264 (released May 20, 2010) (the "*2010 Order*"). The *2010 Order* also allows Sirius XM to request further 180 day extensions of this initial 180 day automatic extension "[i]n the event blanket licenses are not issued within 180 days of the effective date of this Order." *Id.*, note 615. The Commission cannot grant these blanket licenses until after the new rules have been approved by the Office of Management and Budget, which has not yet occurred. See 75 Fed. Reg. 45058 (Aug. 2, 2010); 76 Fed. Reg. 30706 (May 26, 2011).

<sup>4</sup> A similar Request for Bulk STA Extension is being filed for the terrestrial repeater STA grants issued to Sirius XM Radio Inc.

<sup>5</sup> 47 C.F.R. § 25.214(d)(1). The Commission concluded in the *2010 Order* "that SDARS terrestrial repeaters can operate at an average EIRP of 12 kw with maximum PAPR of 13 dB without causing harmful interference to WCS base station receivers." *Id.* at Para. 243.

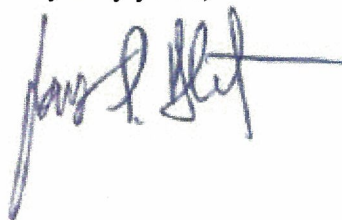
Ms. Marlene H. Dortch  
September 7, 2011  
Page 3

XM will continue to comply with the conditions the Commission imposed in granting the referenced STAs to operate these repeaters. These conditions and the technical parameters of the repeaters have provided sufficient protection to other radio services.

XM is submitting payment to the Federal Communications Commission in the amount of Eight Hundred Thirty Dollars (\$830.00) -- the filing fee applicable to requests for STAs for geostationary ("GSO") satellites.<sup>6</sup>

Please direct any questions regarding this matter to the undersigned.

Very truly yours,

A handwritten signature in blue ink, appearing to read "James S. Blitz", with a long horizontal stroke extending to the right.

James S. Blitz  
Vice President, Regulatory Counsel

cc: Stephen Duall, FCC International Bureau  
Jay Whaley, FCC International Bureau  
Sankar Persaud, FCC International Bureau

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<sup>6</sup> See International and Satellite Services Fee Filing Guide (February 2009).