

SAT-STA-20070706-00095 IB2007001609
XM Radio Inc.

File # SAT-STA-20070706-00095

Call Sign _____ Grant Date 09/15/10
(or other identifier)

Term Dates see
From 09/15/10 To: conditions

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

Approved by OMB
3060-0678



GRANTED*

* with conditions

Date & Time Filed: Jul 6 2007 10:32:04:883AM
File Number: SAT-STA-20070706-00095
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Request for Extension of STA to Operate 5000 Indoor Boosters

I. Applicant

Name:	XM Radio Inc.	Phone Number:	202-380-4000
DBA Name:		Fax Number:	202-380-4500
Street:	1500 Eckington Place, NE	E-Mail:	james.blitz@xmradio.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20002
Attention:	James S. Blitz		-

Attachment to Grant

Application of XM Radio Inc. for Special Temporary Authority

IBFS File Nos. SAT-STA-20020311-00049, SAT-STA-20030325-00056, SAT-STA-20031219-00373, SAT-STA-20050307-00056, SAT-STA-20070706-00095, SAT-STA-20070706-00096, SAT-STA-20080303-00056, SAT-STA-20080701-00139, SAT-STA-20081002-00196, SAT-STA-20081218-00234

Special temporary authority (STA) is granted to XM Radio Inc. (XM), for a period of 180 days, to continue to operate previously authorized terrestrial repeaters for use in the 2320-2345 MHz frequency band, as set forth in the above-referenced applications. This authorization is granted according to the technical parameters specified in these applications and is subject to the conditions below.

1. Any actions taken as a result of these STAs are solely at the applicant's own risk. These STAs shall not prejudice the outcome of the final rules adopted by the Commission in IB Docket No. 95-91.

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. These STAs expire after 180 days, or on the date that permanent authority to operate the covered repeater operations becomes effective, whichever occurs first.

8. XM 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.



*with conditions

File # see above
Call Sign _____ Grant Date 09/15/10
(or other identifier) _____
Term Dates see
From 09/15/10 To: conditions

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

2. Contact	
Name: James S. Blitz	Phone Number: 202-380-4000
Company: XM Satellite Radio Inc.	Fax Number: 202-380-4500
Street: 1500 Eckington Place NE	E-Mail: james.blitz@xmradio.com
City: Washington	State: DC
Country: USA	Zipcode: 20002 -
Attention:	Relationship: Same
(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 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 type="radio"/> Extend Expiration Date <input checked="" 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 Inc. (XM) requests an extension of Special Temporary Authority (STA) granted January 18, 2007 (See File No. SAT-STA-20050712-00145) to operate up to 5000 indoor signal boosters in its license frequency band (2332.5-2345 MHz) with and Effective Isotropically Radiated Power (EIRP) of 0.0001 watts.

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).

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July 6, 2007

Via Electronic Filing (IBFS)
Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

**Re: XM Radio Inc.
Extension of Special Temporary Authority to Operate Indoor
Signal Boosters in the Satellite Digital Audio Radio Service
File No. SAT-STA-20050712-00145**

Dear Ms. Dortch:

Pursuant to Section 25.120 of the Commission's Rules,¹ XM Radio Inc. ("XM Radio") hereby requests an extension of the above-referenced Special Temporary Authority ("STA") to operate up to 5000 indoor signal boosters with an Effective Isotropically Radiated Power ("EIRP") of 0.0001 watts in its licensed frequency band (2332.5-2345 MHz). XM Radio requests that the Commission renew this STA for a period of 180 days or until the Commission issues a blanket license for these boosters. As XM Radio's extension request is timely, XM Radio understands that, pursuant to Section 1.62 of the Commission's Rules, its STA 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.²

XM Radio currently operates indoor signal boosters in its licensed frequency band (2332.5-2345 MHz) pursuant to the STA granted by the International Bureau on January 18, 2007. XM Radio uses these signal boosters, which are essentially S-band radio frequency amplifiers, to receive and amplify satellite Digital Audio Radio Service ("SDARS") signals inside of stores and other commercial establishments, where such transmissions are attenuated. XM Radio has not changed technical parameters for the signal boosters since the original grant of the STA and is not herein requesting modification of any of those parameters.

This STA will serve the public interest by allowing XM Radio to continue to provide a clear signal for reception by SDARS receivers located within stores and other commercial establishments, which is necessary to effectively market SDARS to consumers and to develop and test SDARS products and services. XM Radio noted in its original request, it is often difficult to provide quality reception of SDARS signals inside stores and commercial establishments due to blockage from walls and ceilings. Without the indoor boosters, for example, SDARS radios would need to be displayed with hard

¹ See 47 C.F. R. § 25.120.

² See 47 C.F.R. § 1.62.

Ms. Marlene H. Dortch
July 6, 2007
Page 2

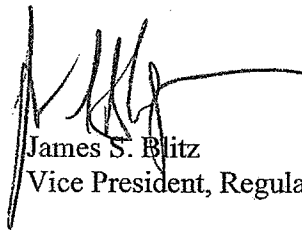
wire connections, conveying the impression to consumers that SDARS is not a completely mobile service. Eliminating the need for a hard wire connection has also provided retail outlets with more flexibility in displaying SDARS radios, allowing display in any area of the stores and other commercial establishments, including high traffic areas. The indoor boosters also enable reception in adjacent installation bays where SDARS radios are installed in vehicles, thus obviating the need for vehicles to be moved outside of the installation bay in order to test for proper reception. This has resulted in time-saving efficiencies for installers and ensured that vehicles are provided to consumers with fully functioning SDARS radios.

XM Radio recently began deploying these boosters and we are not aware of any incidents where these units have caused any interference to other radio services. XM Radio emphasizes that these boosters are not terrestrial repeaters,³ they operate at power levels which are highly unlikely to cause any interference, and they have previously been furnished to the FCC Laboratory for testing.

XM Radio will continue to comply with the conditions the Commission imposed in granting the above-referenced STA to operate indoor signal boosters. These conditions and the technical parameters of the boosters have provided sufficient protection to other radio services. Therefore, prompt grant of XM Radio's renewal request will allow for the continued marketing of SDARS to consumers and serve the public interest.

Please direct any questions regarding this matter to the undersigned.

Very truly yours,



James S. Blitz
Vice President, Regulatory Counsel

cc: Stephen Duall, FCC

³ As used in SDARS systems, repeaters perform a change in modulation and operate at EIRPs over ten million times higher than the subject boosters.