

XM Radio Inc.  
XM-2

Date & Time Filed: Jun 24 2011 5:29:39:620PM  
File Number: SAT-STA-20110624-00119  
Callsign:

File # SAT-STA-20110624-00119  
Call Sign S2119 Grant Date 07/27/11  
(or other identifier) Term Dates period of  
From 08/01/11 To: 30 days  
Approved: Stephen J. Duall

Approved by OMB  
3060-0678



Stephen J. Duall  
Chief, Satellite Policy Branch

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:  
XM-2 (Call Sign ~~S2119~~ S2119) 30-Day STA request to perform testing

I. Applicant

Name:	XM Radio Inc.	Phone Number:	212-584-5100
DBA Name:		Fax Number:	212-584-5353
Street:	1221 Avenue of the Americas 36th Floor	E-Mail:	James.Blitz@siriusxm.com
City:	New York	State:	NY
Country:	USA	Zipcode:	10020 -
Attention:	James Blitz		

**Attachment to Grant**  
**Application of XM Radio Inc. for Special Temporary Authority**  
**IBFS File No. SAT-STA-20110624-00119**

The request of XM Radio Inc. (XM Radio) for special temporary authority (STA), File No. SAT-STA-20110624-00119, to activate the communications payload of its Satellite Digital Audio Radio Service (SDARS) space station, XM-2 (Call Sign S2119), at the 115.25° W.L. orbital location for performance testing purposes using the 2332.5-2345.0 MHz (space-to-Earth) frequency band is granted for a period of up to 30 days, commencing on August 1, 2011. Operations under this STA are for the sole purpose of evaluating XM-2's ability to provide replacement capacity in the event of an outage of the primary space stations that it supports and do not include the provision of commercial services. Operations under this STA shall comply with conditions 5, 8, and 9 of the current authorization for the operations of XM-2 at 115.25° W.L., IBFS File No. SAT-MOD-20101001-00205 (granted November 9, 2010). This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.



\*with conditions

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Call Sign S2119 Grant Date 07/27/11  
(or other identifier)

Term Dates period of  
From 08/01/11 To: 30 days

Approved: *Stephen J. Duall*

Stephen J. Duall  
Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b>	Karis A. Hastings, Esq. <b>Phone Number:</b> 202-637-5767
<b>Company:</b>	Hogan Lovells US LLP <b>Fax Number:</b> 202-637-5910
<b>Street:</b>	555 Thirteenth Street, NW <b>E-Mail:</b> karis.hastings@hoganlovells.com
<b>City:</b>	Washington <b>State:</b> DC
<b>Country:</b>	USA <b>Zipcode:</b> 20004      -1109
<b>Attention:</b>	<b>Relationship:</b> Legal Counsel
(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. requests special temporary authority for 30 days beginning on August 1 to perform tests to measure the performance of its XM-1 (Call Sign S2118) and XM-2 (Call Sign S2119) spacecraft using its Ellenwood, Georgia earth station (Call Sign E040204).

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: Narrative

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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**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554**

In the Matter of Application by )  
 )  
XM RADIO INC. ) Call Signs S2118, S2119 & E040204  
 )  
For Special Temporary Authority to )  
Conduct Testing of XM-1 and XM-2 )

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

By this application, XM Radio Inc. (“XM Radio”)<sup>1</sup> respectfully requests special temporary authority (“STA”) for a period of up to 30 days commencing August 1, 2011 to permit XM Radio to perform tests to measure the performance of its XM-1 and XM-2 satellites using XM Radio’s Ellenwood, GA feeder link earth station. XM-1 and XM-2 are in-orbit spare spacecraft that are currently positioned at 115.25° W.L. +/- 0.1 degrees, where they are flying in formation with XM-4. XM Radio proposes to test XM-1 and XM-2 to measure their performance and evaluate their ability to provide back-up capacity in the event of an anomaly affecting XM-4, one of XM Radio’s primary operating spacecraft. The call signs of the space stations and earth station for which STA is requested are listed in the caption above.

XM-1 and XM-2 are authorized to serve as in-orbit spares for XM Radio’s fleet of satellite digital audio radio service (“SDARS”) spacecraft that provide a high-quality, continuous, multi-channel audio service throughout the United States.<sup>2</sup> The XM-1 and XM-2

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<sup>1</sup> XM Radio is a wholly-owned subsidiary of Sirius XM Radio Inc. (“Sirius XM”). On June 17, 2011, XM Radio applied for a *pro forma* assignment of the XM-1 and XM-2 licenses from XM Radio Inc. to XM Radio LLC. See File No. SAT-ASG-20110617-00111.

<sup>2</sup> See File Nos. SAT-MOD-20101216-00262, grant-stamped Mar. 8, 2011 (“XM-1 Grant”); SAT-MOD-20101001-00205, grant-stamped Nov. 9, 2010 (“XM-2 Grant”).

licenses authorize activation of the satellite's communications payloads only "in the event of a service outage of the XM-3 or XM-4 space stations (Call Signs S2617 and S2616)."<sup>3</sup>

XM Radio seeks to perform tests of the performance of XM-1 and XM-2 at their current orbital location in order to be better prepared if a future anomaly affecting the XM-4 operating satellite requires activation of these satellites. The tests will allow XM Radio to evaluate the satellites' coverage patterns, orientation and signal strength following their recent relocation to 115.25° W.L.

During the testing period, XM Radio's existing feeder link earth station in Ellenwood, GA (Call Sign: E040204) will alternately transmit to XM-1 and XM-2.<sup>4</sup> Testing will use the frequencies for which the earth station and XM-1 and XM-2 are authorized, with an uplink at 7057.305 MHz. The testing transmissions from the feeder link earth station will use an unmodulated carrier operating at or below the earth station's maximum authorized EIRP. In all other respects, the transmissions for purposes of testing will conform to the technical specifications of the earth station license.

The temporary testing is expected to have no impact on listeners of XM Radio's satellite radio network. Furthermore, the proposed testing will not cause harmful interference to the operations of any other spacecraft. No satellites using either S-band or X-band frequencies operate within two degrees of 115.25° W.L. other than satellites licensed to XM Radio. XM Radio does not share S-band spectrum with other satellite systems (except its affiliate, Satellite CD Radio), and the SDARS downlink frequencies are not subject to two degree spacing rules.

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<sup>3</sup> See XM-1 Grant, Attachment at ¶ 2; XM-2 Grant, Attachment at ¶ 3.

<sup>4</sup> This earth station is authorized to communicate with XM-1 and XM-2 at their current location. See File No. SES-MOD-20101022-01324, granted Jan. 4, 2011.

The proposed testing will not result in harmful interference to regularly authorized terrestrial operations. The feeder link earth station that will be communicating with XM-1 and XM-2 has been coordinated with terrestrial licensees for the frequency and EIRP level proposed for use here, and the coordination arc included the 115.25° W.L. orbital location.<sup>5</sup> XM Radio will not exceed the previously coordinated parameters during the proposed testing.

For the foregoing reasons, XM Radio respectfully requests special temporary authority for a period of up to 30 days commencing August 1, 2011 to perform tests to measure the performance of its XM-1 and XM-2 satellites using XM Radio's Ellenwood, GA feeder link earth station. Grant of the requested authority will serve the public interest by facilitating XM Radio's ability to evaluate the performance of the XM-1 and XM-2 space stations and will not result in harmful interference to any other regularly authorized operations.

Respectfully submitted,

XM Radio Inc.

/s/ James S. Blitz  
James S. Blitz  
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June 24, 2011

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<sup>5</sup> See Exhibit B to File No. SES-MOD-20101022-01324 (E040204).