

E040204 SES-STA-20110624-00742 IB2011002620
XM Radio Inc.

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
E040204 30-Day STA Request to permit testing of XM-1 and XM-2

1. Applicant

Name:	XM Radio Inc.	Phone Number:	212-584-5100
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City:	New York	State:	NY
Country:	USA	Zipcode:	10020
Attention:	James Blitz		



"30 days"

File # *SES-STA-20110624-00742*

Call Sign *E040204* Grant Date *07/29/2011*
(or other identifier) *Temp Data*

From *08/01/2011* To: *08/30/2011*

Approved: *Paul S. Hays*

**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”)¹ 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.² The XM-1 and XM-2

¹ 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.

² 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)."³

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-2.⁴ 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.

³ See XM-1 Grant, Attachment at ¶ 2; XM-2 Grant, Attachment at ¶ 3.

⁴ 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.⁵ 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

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

2. Contact

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Attention:		Relationship:	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?

If Yes, complete and attach FCC Form 159. IF No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant

Change Station Location

Other

6. Requested Use Prior Date

7. City: Ellenwood	8. Latitude (dd mm ss.s h) 33 39 51.0 N
9. State GA	10. Longitude (dd mm ss.s h) 84 16 24.0 W
11. Please supply any need attachments. Attachment 1: Narrative Attachment 2: Attachment 3:	
12. 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 commencing August 1 for its Ellenwood, Georgia earth station (Call Sign E040204) to communicate with the XM-1 (S2118) and XM-2 (S2119) spacecraft to test their performance.	
13. 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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing James S. Blitz	15. Title of Person Signing Vice President, Regulatory Counsel
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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