

E040204
XM Radio LLC

SES-STA-20111011-01204

IB2011004559

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 LLC	Phone Number:	202-380-4000
DBA Name:		Fax Number:	202-380-4500
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 S. Blitz		



File# SES-STA-20111011-01204

Call Sign E040204 Grant Date 11/04/2011
(or other identifier)

Term Dates
From 11/07/2011 To 12/07/2011

Approved: Paul E. Blas

Conditions for:

Applicant: XM Radio LLC

File Number: SES-STA-20111011-01204

Call Sign: E040204

XM Radio LLC, (XM) is granted, under the following conditions, Special Temporary Authority for 30 days, from 11/7/2011 through 12/7/2011, to operate as described in SES-STA-20111011-01204. Based on the following conditions:

1. Operations must conform to current space station authority granted for XM-1 (Call Sign S2118) under SAT-STA-20111011-00200 and XM-2 (Call Sign S2119) under SAT-STA-20111011-00199.

30 days "with conditions"


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(or other identifier)

Term Dates
From 11/07/2011 To 12/07/2011

Approved: Paul E. Black



GRANTED
International Bureau

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

In the Matter of Application by)
)
XM RADIO LLC) 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 LLC (“XM Radio”)¹ respectfully requests special temporary authority (“STA”) for a period of up to 30 days commencing November 7, 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 fly in formation with XM-4. XM Radio proposes to test XM-1 and XM-2 to measure their performance and evaluate their continuing 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”).

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 conduct tests to verify 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 accuracy of the satellites' antenna pointing mechanism.

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 that earth station and XM-1 and XM-2 are authorized. 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 customers receiving XM Radio's satellite radio transmissions. Furthermore, the 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 and commonly owned entities. 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.

The testing will not result in harmful interference to regularly authorized terrestrial operations. The feeder link earth station that will communicate with XM-1 and XM-2

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.

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 November 7, 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 LLC

/s/ James S. Blitz
James S. Blitz

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Of Counsel

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October 11, 2011

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

2. Contact

Name:	Karis A. Hastings	Phone Number:	202-599-0975
Company:	SatCom Law LLC	Fax Number:	
Street:	1317 F St. N.W., Suite 400	E-Mail:	karis@satcomlaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004 -1109
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: STA Request 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.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">XM Radio LLC requests special temporary authority for 30 days commencing November 7 for its Ellenwood, Georgia earth station (E040204) to communicate with the XM-1 (S2118) and XM-2 (S2119) spacecraft to test their performance.</div>	
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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