



File # SAT-STA-2010 0702-00151

Call Sign S2118 Grant Date 08/03/10
(or other identifier)

Term Dates period of 30 days
From 08/16/10 To: 09/14/10

Approved by OMB
3060-0678

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

Date & Time Filed: Jul 2 2010 8:02:13:763PM
File Number: SAT-STA-20100702-00151
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:
XM-1 (Call Sign S2118) 30-Day STA request to perform test transmissions

I. Applicant

Name:	XM Radio Inc.	Phone Number:	202-380-4000
DBA Name:		Fax Number:	202-380-4981
Street:	1500 Eckington Place, NE	E-Mail:	James.Blitz@siriusxm.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 No. SAT-STA-20100702-00151

Call Sign: S2118

Special temporary authority (STA) is granted to XM Radio Inc. (XM Radio) for a period of up to 30 days, commencing on August 16, 2010, to permit XM Radio to perform test transmissions using its XM-1 spacecraft, Call Sign S2118, operating at the nominal 85° W.L. orbital location, to communicate with its Ellenwood, Georgia, earth station (Call Sign E040204). XM-1 will perform these test transmissions using the following frequencies: 7056.8450-7074.8690 MHz (Earth-to-space) and 2332.5-2345.0 MHz (space-to-Earth). This authorization is granted subject to the technical parameters specified in XM's application, the rules of the Federal Communication Commission (Commission), and the conditions below:

1. All of XM Radio's operations shall be on an unprotected and non-harmful interference basis, *i.e.*, XM Radio shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station.
2. In the event of any harmful interference from XM Radio's operations, XM Radio shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. Any actions taken as a result of this STA are solely at the applicant's own risk.
4. 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

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Term Dates Period of 30 days

From 08/16/10 To: 05/14/10

Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Karis A. Hastings, Esq.	Phone Number:	202-637-5767
Company:	Hogan Lovells US LLP	Fax Number:	202-637-5910
Street:	555 Thirteenth Street, NW	E-Mail:	karis.hastings@hoganlovells.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004 -1109
Attention:		Relationship:	

(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 CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location Extend Expiration Date 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 special temporary authority for 30 days to to perform test transmissions using its Ellenwood, Georgia earth station (Call Sign E040204) and its XM-1 (Call Sign S2118) and XM-2 (Call Sign S2119) spacecraft commencing on August 16, 2010.

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: Exhibit

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)
Perform Test Transmissions)

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, XM Radio Inc. (“XM Radio”), respectfully requests space station and earth station special temporary authority (“STA”) for a period of up to 30 days, commencing on August 16, 2010, to permit XM Radio to perform test transmissions using its Ellenwood, Georgia earth station and its XM-1 and XM-2 spacecraft at their nominal 85° W.L. orbital location. The call signs of the space station and earth stations for which STA is requested are listed in the caption above.

XM Radio currently operates a fleet of four satellite digital audio radio service (“SDARS”) spacecraft that provide a high-quality, continuous, multi-channel audio service throughout the United States. XM-1 and XM-2 are collocated with XM-3 at the nominal 85° W.L. orbital location, and XM-4 is positioned at 115° W.L. XM-3 and XM-4 are the primary operational spacecraft for the fleet, and XM-1 and XM-2 are authorized to serve as in-orbit spares that can be activated in the event of an outage on either of the primary spacecraft.¹

XM Radio has been granted a license for XM-5, a new spacecraft that will be positioned at the nominal 85° W.L. orbital location and will serve as an in-orbit spare for the

¹ See File Nos. SAT-MOD-20070912-00124; SAT-AMD-20071113-00157; SAT-AMD-20080129-00031 (Call Sign S2118) and SAT-MOD-20070911-00123; SAT-AMD-20071113-00158; SAT-AMD-20080129-00032 (Call Sign S2119), all grant-stamped Feb. 14, 2008).

operations of both the XM Radio fleet and the services provided by XM Radio's affiliate, Satellite CD Radio.² Launch of XM-5 is scheduled for later this year, and XM Radio intends to test the spacecraft using its Ellenwood, Georgia earth station. In order to prepare for in-orbit testing ("IOT") of XM-5, XM Radio seeks authority to perform a rehearsal, sending signals from the Ellenwood, Georgia earth station to XM-1 and XM-2.

The test transmissions will use the frequencies for which the Ellenwood earth station and XM-1 and XM-2 are authorized, with uplinks in the X-band, 7056.8450-7074.8690 MHz, and downlinks in the S-band, 2332.5-2345.0 MHz. The transmissions will include intermittent use of an unmodulated carrier operating at the earth station's maximum authorized EIRP of 78 dBW.

The proposed testing will not cause harmful interference to the operations of any other spacecraft. The uplink frequencies used for the test transmissions will be translated in the satellites to the portion of the S-band frequencies used for terrestrial repeaters, so no interference with operational service through the XM-3 and XM-4 satellites will occur. There are no satellites using either S-band or X-band frequencies within two degrees of the nominal 85° W.L. orbital location, other than satellites operated by 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.

The proposed testing will also not result in harmful interference to regularly authorized terrestrial operations. The Ellenwood, Georgia earth station is fully coordinated with terrestrial licensees for the frequencies, orbital arc, and EIRP levels proposed for use in the testing, and XM Radio will not exceed the previously-coordinated parameters during the

² See File No. SAT-LOA-20090217-00025 (Call Sign S2786), grant-stamped Aug. 31, 2009.

proposed testing. In addition, and in any event, XM Radio will conduct all IOT testing on a non-harmful interference basis, and will cease transmissions promptly in the event any harmful interference is caused by such operations.

XM Radio hereby certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862.

For the foregoing reasons, XM Radio respectfully requests special temporary authority for a period of up to 30 days commencing on August 16 to perform IOT rehearsal test transmissions using its Ellenwood, Georgia earth station and XM-1 and XM-2 satellites. Grant of the requested authority will serve the public interest by facilitating XM Radio's ability to evaluate the performance of its 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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Dated: July 2, 2010