



File # SAT-STA-20201002-00118

Call Sign: S3033 Grant Date: 11/02/2020

For other Identifier,

Term Dates: period of

From: See conditions To: 30 days

Approved: Merissa L. Velez

Merissa L. Velez  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Oct 2 2020 11:13:45:886AM

File Number: SAT-STA-20201002-00118

Callsign:

\*with conditions

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:

SXM-7 Testing and Drift STA Request Oct 2020


1. Applicant

<b>Name:</b>	Sirius XM Radio Inc.	<b>Phone Number:</b>	202-380-4000
<b>DBA Name:</b>		<b>Fax Number:</b>	202-380-4981
<b>Street:</b>	1221 Avenue of the Americas 35th Floor	<b>E-Mail:</b>	James.Blitz@siriusxm.com
<b>City:</b>	New York	<b>State:</b>	NY
<b>Country:</b>	USA	<b>Zipcode:</b>	10002 -
<b>Attention:</b>	James S. Blitz		

**ATTACHMENT TO GRANT**

Sirius XM Radio Inc.

IBFS File No. SAT-STA-20201002-00118

<b>IBFS File No(s):</b>	SAT-STA-20201002-00118	<p align="center"><b>GRANTED – With Conditions</b></p>  <p align="center"><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	Sirius XM Radio Inc.	
<b>Call Sign:</b>	S3033	
<b>Satellite Name:</b>	SXM-7	
<b>Orbital Location: (required station-keeping tolerance)</b>	120.5° W.L. (+/-0.10 degrees east/west)	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	Satellite Digital Audio Radio Service (SDARS)	
<b>Scope of Grant:</b>	Special temporary authority for a period of 30 days to: (1) perform in-orbit testing (IOT) of SXM-7 at the 120.5° W.L. orbital location rather than the 120.0° W.L. orbital location; <sup>1</sup> (2) conduct IOT in the 2315-2320 MHz and 2345-2350 MHz frequency bands; <sup>2</sup> and (3) perform Telemetry, Tracking, and Command (TT&C) operations necessary to maintain SXM-7 at 120.5° W.L. and drift SXM-7 to its assigned orbital location at 85.15° W.L. upon completion of IOT.	
<b>Service Area(s):</b>	Not Applicable.	
<b>Frequencies:</b>	<p>Testing frequencies:                  2315-2320 MHz (space-to-Earth) (Wireless Communications Service (WCS) C Block)                  2320-2345 MHz (space-to-Earth) (SDARS)                  2345-2350 MHz (space-to-Earth) (WCS D Block)                  7025-7075 MHz (Earth-to-space) (Feeder Link)</p> <p>TT&amp;C frequencies:                  2320-2345 MHz (space-to-Earth)                  7025-7075 MHz (Earth-to-space)</p>	
<p><b>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission’s rules not waived herein. This grant is also subject to the following conditions:</b></p> <ol style="list-style-type: none"> <li>All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, Sirius XM must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station.</li> <li>In the event of any harmful interference under this grant of special temporary authority, Sirius XM must cease operations immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event.</li> <li>Sirius XM must coordinate the operations of SXM-7 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 120.5° W.L. orbital location or during drift from the 120.5° W.L. orbital location to the 85.15° W.L. orbital location.</li> </ol>		

<sup>1</sup> Along with authority to construct, deploy, and operate the SXM-7 space station, Sirius XM was granted authority to perform IOT of SXM-7 at the 120.0° W.L. orbital location. Sirius XM Radio Inc., Application for Authority to Launch and Operate SDARS Replacement Spacecraft at 85.15° W.L., IBFS File No. SAT-RPL-20180430-00033 (grant stamp, October 3, 2018) (*SXM-7 License*). This grant authorizes Sirius XM to perform IOT at a different orbital location, 120.5° W.L.

<sup>2</sup> These frequency bands were not included in the original grant of authority for SXM-7. *See id.* Grant of special temporary authority for IOT using these frequency bands does not alter the frequencies authorized under the *SXM-7 License*.

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 Sirius XM Radio Inc.  
 IBFS File No. SAT-STA-20201002-00118

4. SXM-7's operations at the 120.5° W.L. orbital location must be limited to IOT and must not include the provision of commercial services.

5. Sirius XM must operate only the TT&C frequencies on SXM-7 during the space station's drift from the 120.5° W.L. orbital location to the 85.15° W.L. orbital location.

6. In order to minimize interruptions to IOT operations due to stationkeeping maneuvers, Sirius XM requests a waiver of section 25.210(j) of the Commission's rules, 47 CFR § 25.210(j), to permit Sirius XM to maintain SXM-7 with a +/- 0.1 degree stationkeeping tolerance during IOT, as it requested in the SXM-7 license application.<sup>3</sup> We grant this waiver and permit Sirius XM to operate SXM-7 at 120.5° W.L with this +/- 0.1-degree stationkeeping tolerance subject to the same conditions we imposed in the *SXM-7 License*.<sup>4</sup> During in-orbit testing, Sirius XM must maintain the SXM-7 space station within an east-west longitudinal station-keeping tolerance of ±0.10 degrees of the 120.5° W.L. orbital location.

7. Except for the orbital location, and the addition of the 2315-2320 MHz (space-to-Earth) and 2345-2350 MHz (space-to-Earth) frequency bands for IOT, all operations of SXM-7 under this authorization must comport with the conditions imposed in the *SXM-7 License*.<sup>5</sup>

8. The term of this authorization commences no later than 10 days following the date of launch of the SXM-7 satellite. Sirius XM must file a notification with the Commission within five business days of commencing the operations authorized under this grant.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

<b>Action Date:</b>	November 2, 2020	
<b>Term Dates</b>	<b>From:</b> see conditions.	<b>To:</b> period of 30 days

**Approved:**



Merissa L. Velez  
 Chief, Satellite Policy Branch

<sup>3</sup> *SXM-7 License* at 2-3.

<sup>4</sup> *Id.* at 2 n.1.

<sup>5</sup> See generally *SXM-7 License*.

2. Contact

<b>Name:</b>	Karis Hastings	<b>Phone Number:</b>	202-599-0975
<b>Company:</b>	SatCom Law LLC	<b>Fax Number:</b>	
<b>Street:</b>	1317 F Street NW, Suite 400	<b>E-Mail:</b>	karis@satcomlaw.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20004 -
<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 SATRPL2018043000033 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  
120.5 W.L.

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.)

Sirius XM Radio Inc. seeks special temporary authority to test the SXM-7 satellite at 120.5 W.L. +/- 0.1 degrees and to drift the satellite to 85.15 W.L. following the completion of testing.

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 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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