 GRANTED International Bureau	File # <u>SAT-STA-20210115-00011</u>
	Call Sign <u>S3033</u> Grant Date <u>02/17/2021</u> (or other identifier)
	Term Dates From <u>01/23/2021</u> To <u>period of 30 days</u>
	Approved <u><i>M. L. Velez</i></u> Merissa L. Velez Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Jan 15 2021 10:32:43:096AM
 File Number: SAT-STA-20210115-00011
 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:
 SXM-7 Testing and Drift STA Extension Jan 2021

1. Applicant

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

ATTACHMENT TO GRANT
 Sirius XM Radio Inc.
 IBFS File No. SAT-STA-20210115-00011

IBFS File No(s):	SAT-STA-20210115-00011	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	Sirius XM Radio Inc.	
Call Sign:	S3033	
Satellite Name:	SXM-7	
Orbital Location: (required station-keeping tolerance)	120.5° W.L. (+/-0.10 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Satellite Digital Audio Radio Service (SDARS)	
Scope of Grant:	Special temporary authority for a period of 30 days to continue 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; ¹ (2) conduct IOT in the 2315-2320 MHz and 2345-2350 MHz frequency bands; ² 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. ³	
Service Area(s):	Not Applicable.	
Frequencies:	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) TT&C frequencies: 2320-2345 MHz (space-to-Earth) 7025-7075 MHz (Earth-to-space)	
<p>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with the Federal Communications Commission’s rules not waived herein. This grant is also subject to the following conditions:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. 		

¹ 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.

² 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*.

³ We note that Sirius XM has indicated that during IOT it has discovered issues affecting the SXM-7 payload. Sirius XM has requested further extension of STA for testing following the term of the instant STA extension. *See* IBFS File No. SAT-STA-20210216-00022.

ATTACHMENT TO GRANT

Sirius XM Radio Inc.

IBFS File No. SAT-STA-20210115-00011

3. 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.

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.⁴ 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*.⁵ 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*.⁶


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).

Action Date:	February 17, 2021	
Term Dates	From: January 23, 2021 ⁷	To: period of 30 days

Approved:



Merissa L. Velez
Chief, Satellite Policy Branch

⁴ *SXM-7 License* at 2-3.

⁵ *Id.* at 2 n.1.

⁶ See generally *SXM-7 License*.

⁷ The grant of the instant application is a 30-day extension of the special temporary authority granted for SXM-7. See IBFS File No. SAT-STA-20201002-00118 (grant stamp, November 2, 2020). SXM-7 was launched on December 13, 2020, and commenced IOT on January 4, 2021. We note that the conditions for the prior STA grant indicated that the term of the authorization commenced no later than 10 days after launch of the SXM-7 satellite, thus we consider the prior STA term as having commenced on December 23, 2020.

2. Contact	
Name: Karis Hastings	Phone Number: 202-599-0975
Company: SatCom Law LLC	Fax Number:
Street: 6930 Carroll Avenue Suite 720	E-Mail: karis@satcomlaw.com
City: Takoma Park	State: MD
Country: USA	Zipcode: 20912 -4499
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 SATSTA2020100200118 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 checked="" type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location 120.5 W.L.	7. Requested Extended Expiration Date 2021-02-21 00:00:00.0

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 a 30-day extension of the special temporary authority granted in File No. SAT-STA-20201002-00118 to test the SXM-7 satellite at 120.5 W.L. +/- 0.1 degrees and drift the satellite to 85.15 W.L. following the completion of testing. Sirius XM incorporates by reference the supporting information provided in File No. SAT-STA-

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:

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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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

8. Description

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