



File # SAT-STA-20210419-00052

Call Sign S3034 Grant Date June 3, 2021
(or other identifier)

Approved by OMB
3060-0678

Term Dates

From See conditions To period of 180 days

Date & Time Filed: Apr 19 2021 10:15:30:023AM
File Number: SAT-STA-20210419-00052
Callsign:

GRANTED *
*with conditions

Merissa L. Velez
Merissa L. Velez
Chief, Satellite Policy Branch

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-8 Testing and Drift STA Request Apr 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-20210419-00052

| | | |
|---|---|--|
| IBFS File No(s): | SAT-STA-20210419-00052 | <div style="text-align: center;"> <p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p> </div> |
| Licensee/Grantee: | Sirius XM Radio Inc. | |
| Call Sign: | S3034 | |
| Satellite Name: | SXM-8 | |
| 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 180 days to: (1) perform in-orbit testing (IOT) of SXM-8 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-8 at 120.5° W.L. and drift SXM-8 to the 85.15° W.L. orbital location 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> <p style="margin-left: 40px;">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.</p> | | |

¹ Along with the grant of authority to construct, deploy, and operate the SXM-8 space station, Sirius XM was granted authority to perform IOT of SXM-8 at the 120.0° W.L. orbital location. Sirius XM Radio Inc., Application for Authority to Launch and Operate SDARS Replacement Spacecraft at 115.25° W.L., IBFS File No. SAT-RPL-20180430-00034 (grant stamp, October 3, 2018) (*SXM-8 License*). This grant authorizes Sirius XM to perform IOT at a different orbital location, 120.5° W.L., and to drift the satellite to 85.15° W.L. rather than 115.25° W.L.

² These frequency bands were not included in the original grant of authority for SXM-8. *See id.* Grant of special temporary authority for IOT using these frequency bands does not alter the frequencies authorized under the *SXM-8 License*.

³ Due to an anomaly that occurred during testing of the SXM-7 satellite, Sirius XM decided to locate the SXM-7 satellite at the 115.25° W.L. orbital location, instead of the orbital location of 85.15° W.L. *See* Letter from Karis A. Hastings, Counsel for Sirius XM, to Marlene H. Dortch, Secretary, FCC, Call Sign S3033, IBFS File Nos. SAT-RPL-20180430-00033 & SAT-STA-20210216-00022, filed Feb. 26, 2021. Consequently, the instant application requests authority to drift SXM-8 to the 85.15° W.L. orbital position upon completion of IOT, instead of the orbital location of 115.25° W.L. This exchange is made possible by condition 12 of both the SXM-7 and SXM-8 licenses, which allows Sirius XM, pursuant to a partial waiver of 47 CFR § 25.118(e), to reposition these two GSO space stations as between the 85.15° W.L. and 115.25° W.L. orbital locations without prior authorization, provided that it meets certain requirements. *See, e.g., SXM-8 License* at 3, condition 12.

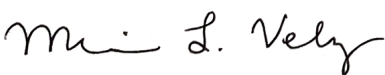
ATTACHMENT TO GRANT
 Sirius XM Radio Inc.
 IBFS File No. SAT-STA-20210419-00052

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.
3. Sirius XM must coordinate the operations of SXM-8 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-8'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-8 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-8 with a +/- 0.1 degree stationkeeping tolerance during IOT, as it requested in the SXM-8 license application.⁴ We grant this waiver and permit Sirius XM to operate SXM-8 at 120.5° W.L with this +/- 0.1-degree stationkeeping tolerance subject to the same conditions we imposed in the *SXM-8 License*.⁵ During in-orbit testing, Sirius XM must maintain the SXM-8 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-8 under this authorization must comport with the conditions imposed in the *SXM-8 License*.⁶
8. The term of this authorization commences no later than 10 days following the date of launch of the SXM-8 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).

| | | |
|---|-----------------------------|-------------------------------|
| Action Date: | June 3, 2021 | |
| Term Dates | From: see conditions | To: period of 180 days |
| Approved: | | |
|  Merissa L. Velez Chief, Satellite Policy Branch | | |

⁴ *SXM-8 License* at 2-3.

⁵ *Id.* at 2 n.1.

⁶ See generally *SXM-8 License*.

| | |
|---|---------------------------------------|
| 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 SATRPL2018043000034 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 type="radio"/> Extend Expiration Date <input checked="" type="radio"/> 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-8 satellite at 120.5 W.L. +/- 0.1 degrees and to drift the satellite to 85.15 W.L. following the completion of testing. See attached narrative.

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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