

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

In the Matter of Application by)
)
XM RADIO LLC) Call Sign S2786
)
Fleet Management Notice to Modify)
XM-5 SDARS Space Station License)

FLEET MANAGEMENT NOTICE OF XM RADIO LLC

XM Radio LLC (“XM Radio”) respectfully submits this notification pursuant to the Commission’s fleet management procedures to modify the XM-5 satellite digital audio radio service (“SDARS”) space station license to relocate the satellite from 85.15° W.L. to 115.25° W.L. A completed FCC Form 312 is attached, and XM Radio provides below the certifications required by Section 25.118(e) of the Commission’s rules, 47 C.F.R. § 25.118(e).

BACKGROUND

XM Radio’s XM-5 satellite currently serves as an in-orbit spare at 85.15° W.L. +/- 0.1 degrees.¹ XM-5 shares that orbital location with two other SDARS spacecraft: the recently launched SXM-8 satellite operated by XM Radio’s affiliate Sirius XM Radio Inc. (“Sirius XM”) that is the primary SDARS spacecraft at that position,² and XM-3,³ the satellite

¹ XM Radio LLC, Call Sign S2786, File No. SAT-MOD-20180831-00065, granted Nov. 1, 2018 (the “XM-5 License”).

² Sirius XM Radio Inc., Call Sign S3034, File No. SAT-RPL-20180430-00034, granted Oct. 3, 2018, reissued June 11, 2021.

³ XM Radio LLC, Call Sign S2617, File No. SAT-MOD-20210226-00025, granted July 28, 2021.

SXM-8 replaced. XM Radio's XM-4 satellite is the primary SDARS spacecraft at 115.25° W.L. +/- 0.1 degrees⁴ and shares that location with Sirius XM's SXM-7.⁵

XM Radio plans to relocate XM-5 to 115.25° W.L. +/- 0.1 degrees, where it will operate within the technical parameters currently licensed and coordinated for XM-4. XM Radio will transfer SDARS traffic from XM-4 to XM-5 and then relocate XM-4 to 85.15° W.L.

+/- 0.1 degrees.⁶ Swapping the XM-5 and XM-4 satellites will allow XM Radio to reconfigure its fleet to optimize delivery of satellite radio service to customers.⁷

CERTIFICATION OF COMPLIANCE WITH SECTION 25.118(e)

XM Radio hereby certifies that this fleet management notice complies with the requirements of Section 25.118(e), as indicated below:

- (1) XM-5 will be relocated to 115.25° W.L. +/- 0.1 degrees, an orbital location assigned to XM Radio.
- (2) After relocation, XM-5 will be operated within the technical parameters authorized and coordinated for the XM-4 spacecraft at 115.25° W.L.
- (3) XM Radio certifies that it will operate XM-5 at 115.25° W.L. in compliance with all of the conditions currently imposed on the operation of XM-4 at the same orbital location.
- (4) XM Radio certifies that it will limit operations of XM-5 to TT&C functions during the relocation and satellite drift transition period.

⁴ XM Radio LLC, Call Sign S2616, File No. SAT-MOD-20140515-00052, granted July 30, 2014.

⁵ Sirius XM Radio Inc., Call Sign S3033, File No. SAT-RPL-20180430-00033, granted Oct. 3, 2018, reissued June 11, 2021.

⁶ XM Radio will submit a separate fleet management notice for the proposed relocation of XM-4 to 85.15° W.L.

⁷ Because XM-5 will be actively providing SDARS at 115.25° W.L., XM Radio requests that the Commission remove from the XM-5 License the condition that currently requires XM Radio to notify the Commission when the satellite is activated. *See* XM-5 License, Attachment to Grant, Paragraph 4. That condition was previously removed at XM Radio's request but was erroneously re-inserted when the license term was extended.

(5) XM Radio certifies that

(i) It has assessed and limited the probability of XM-5 becoming a source of debris as a result of collisions with large debris or other operational satellites at 115.25° W.L.⁸ and

(ii) The proposed station-keeping volume of XM-5 following relocation will not overlap a station-keeping volume reasonably expected to be occupied by any satellite not operated by XM Radio or Sirius XM, including satellites authorized by the Commission, applied for and pending before the Commission, or otherwise the subject of an ITU filing and either in orbit or progressing towards launch. XM Radio and Sirius XM will internally manage the collocation of their satellites at this location.

(6) XM Radio certifies that the relocation of XM-5 will not result in a lapse of service for any current customer.

(7) Not applicable.

(8) Not applicable.

CONCLUSION

As discussed above and pursuant to the Commission's fleet management policies,

XM Radio notifies the Commission that it intends to relocate XM-5 to 115.25° W.L.

+/- 0.1 degrees commencing no earlier than 30 days following submission of this notification.

Respectfully submitted,

XM Radio LLC

/s/ Patrick L. Donnelly

Patrick L. Donnelly

Secretary

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⁸ See XM Radio Inc., File No. SAT-LOA-20090217-00025, Technical Appendix at 20-24 (describing orbital debris mitigation plan for XM-5).