Date Filed: 12/19/2003 00:00:00:00000 SAT-STA-20031219-00373 P Special Temporary Authority



December 19, 2003

FGC/MELLON

* see conditions

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RECEIPT COPY

File # SAT-STA-20031219-00373

Grant Date 09/15/10

(or other identifier)

From 09/15/10

Term Dates conditions

Approved:

Stephen J. Duall Chief, Satellite Policy Branc

DELIVER VIA COURIER TO MELLON BANK

Ms. Marlene H. Dortch

Secretary

Federal Communications Commission 445 12th Street, S.W.

Washington, D.C. 20554

Re:

XM Radio Inc.

Request to Extend Special Temporary Authority to Operate In-Store Signal Boosters in the Satellite Digital Audio Radio Service

File No. SAT-STA-20030409-00076

Dear Ms. Dortch:

Pursuant to Section 25.120 of the Commission's Rules, 1 XM Radio Inc. ("XM Radio") hereby requests an extension of its Special Temporary Authority ("STA") to operate up to 5000 in-store signal boosters with an Effective Isotropically Radiated Power ("EIRP") of 0.0001 watts in its licensed frequency band (2332.5-2345 MHz) at retail outlets and satellite radio installers. XM Radio requests that the Commission renew its STA for a period of 180 days or until the Commission issues a blanket license for these boosters. As XM Radio's extension request is timely, XM Radio understands that, pursuant to Section 1.62 of the Commission's Rules, its STA will continue in effect without further action by the Commission until such time as the Commission shall make a final determination with respect to its request.²

XM Radio currently operates in-store signal boosters in its licensed frequency band (2332.5-2345 MHz) pursuant to the STA granted by the International Bureau on June 26, 2003. XM Radio uses these signal boosters, which are essentially S-band radio frequency amplifiers, to receive and amplify satellite and terrestrial signals inside of retails stores and satellite radio installers, where such transmissions are attenuated, to demonstrate the capability of satellite Digital Audio Radio Service ("satellite DARS") to consumers. XM Radio has not changed technical parameters for the signal boosters since the original grant of the STA, and is not requesting modification of any of those parameters.

XM Radio jointly owns each in-store signal booster with Sirius Satellite Radio Inc. ("Sirius"), which operates these signal boosters in its adjacent licensed frequency band (2320-2332.5 MHz). XM Radio notes that Sirius is filing concurrently an application for an extension

⁴⁷ C.F. R. § 25.120.

See 47 C.F.R. § 1.62.

Attachment to Grant

Application of XM Radio Inc. for Special Temporary Authority

IBFS File Nos. SAT-STA-20020311-00049, SAT-STA-20030325-00056, SAT-STA-20031219-00373, SAT-STA-20050307-00056, SAT-STA-20070706-00095, SAT-STA-20070706-00096, SAT-STA-20080303-00056, SAT-STA-20080701-00139, SAT-STA-20081002-00196, SAT-STA-20081218-00234

Special temporary authority (STA) is granted to XM Radio Inc. (XM), for a period of 180 days, to continue to operate previously authorized terrestrial repeaters for use in the 2320-2345 MHz frequency band, as set forth in the above-referenced applications. This authorization is granted according to the technical parameters specified in these applications and is subject to the conditions below.

- 1. Any actions taken as a result of these STAs are solely at the applicant's own risk. These STAs shall not prejudice the outcome of the final rules adopted by the Commission in IB Docket No. 95-91.
- 2. SDARS terrestrial repeaters are restricted to the simultaneous retransmission of the complete programming, and only that programming, transmitted by the SDARS licensee's satellite(s) directly to the SDARS licensee's subscribers' receivers, and may not be used to distribute any information not also transmitted to all subscribers' receivers.
- 3. Coordination of the operations of the terrestrial repeaters shall be completed with all affected Administrations prior to operation, in accordance with all applicable international agreements including those with Canada and Mexico.
- 4. The terrestrial repeaters shall comply with Part 17 of the Commission's rules Construction, Marking, and Lighting of Antenna Structures.
- 5. The terrestrial repeaters shall comply with Part 1 of the Commission's rules, Subpart I Procedures Implementing the National Environmental Policy Act of 1969, including the guidelines for human exposure to radio frequency electromagnetic fields as defined in Sections 1.1307(b) and 1.1310 of the Commission's rules.
- 6. Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than 90 + 10 log (P) dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts. Any SDARS terrestrial repeater operating at a power level equal to or less than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than 75 + 10 log (P) dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts.
- 7. These STAs expire after 180 days, or on the date that permanent authority to operate the covered repeater operations becomes effective, whichever occurs first.
- 8. XM is granted 30 days from the date of the release of this authorization to decline the authorization as conditioned. Failure to respond within that period will constitute formal acceptance of the authorization as conditioned.
- 9. 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.

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	(or other identifier) Term Dates See
GRANTED*	Approved: Stephen J. Duall Chief, Satellite Policy Bran

Ms. Marlene H. Dortch December 19, 2003 Page 2

of its STA to operate these signal boosters. Thus, these signal boosters will be authorized to continue to amplify the signals of both satellite DARS licensees.

This STA will serve the public interest by allowing XM Radio to continue to provide a clear signal for reception by satellite DARS receivers located within retail outlets, which is necessary to market effectively satellite DARS to consumers. As XM Radio noted in its original request, it is often difficult to provide quality reception of satellite DARS signals inside of retail outlets due to blockage from walls and ceilings. Without the in-store boosters, satellite DARS radios would need to be displayed with hard wire connections, conveying the impression to consumers that satellite DARS is not a completely mobile service. Eliminating the need for a hard wire connection has also provided retail outlets with more flexibility in displaying satellite DARS radios, allowing display in any area of the stores, including high traffic areas. The instore boosters also enable reception in adjacent installation bays where satellite DARS radios are installed in vehicles, thus obviating the need for vehicles to be moved outside of the installation bay in order to test for proper reception. This has resulted in time-saving efficiencies for installers and ensured that vehicles are returned to consumers with fully functioning satellite DARS radios.

A few thousand boosters are currently operating and have not caused any interference to other radio services. XM Radio emphasizes that these boosters are not terrestrial repeaters, operate at EIRPs which cannot cause interference, and have previously been furnished to the FCC Laboratory for testing. We see no reason why the Commission cannot immediately grant a blanket license for these devices.

XM Radio will continue to comply with the conditions the Commission imposed on XM Radio in granting it STA to operate in-store signal boosters. These conditions and the technical parameters of the boosters have provided sufficient protection to other radio services. Therefore, prompt grant of XM Radio's renewal request will serve the public interest and allow for the continued marketing of satellite DARS to consumers.

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. § 853(a).

XM Radio has attached hereto a check made payable to the Federal Communications Commission for the sum of Seven Hundred Five Dollars (\$705.00). This filing fee amount is applicable to requests for STAs for geostationary ("GSO") satellites. *See* International and Satellite Services Fee Filing Guide (September 2002).

As used in satellite DARS systems, repeaters perform a change in modulation and operate at EIRPs over ten million times higher than the subject boosters.

Ms. Marlene H. Dortch December 19, 2003

Please direct any questions regarding this matter to the undersigned.

Very truly yours,

Lon C. Levin

Senior Vice President

Jennifer Gilsenan, FCC cc:

Stephen Duall, FCC

READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE

Approved by OMB 3060-0589
Page 1 _ o _ 1

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(5) STREET ADDRESS LINE NO. 2				7) STATE	(8) ZIP CODE	
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1500 Eckington Place, NE						
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-Shaw Pittman, LLP

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ShawPittman LLP

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Federal Communications Commission

Stephen B Hutter

2 SIGNATURES REQUIRED OVER \$2,500.00 VOID AFTER 180 DAYS

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