

E080185 SES-STA-20130701-00561 IB2013001412
Sirius XM Radio Inc.

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority To Provide IOT, Performance Testing, and TT&C Services for the FM-6 Satellite Using
Vernon, NJ Earth Station E080185

1. Applicant

Name:	Sirius XM Radio Inc.	Phone Number:	202−380−1383
DBA Name:		Fax Number:	202−380−4981
Street:	1221 Avenue of the Americas 36th Floor	E-Mail:	james.blitz@siriusxm.com
City:	New York	State:	NY
Country:	USA	Zipcode:	10020
Attention:	James S. Blitz		

180 days
with conditions
File # SES-STA-20130701-00561
Call Sign E080185 Grant Date 09/29/2013
(or other identifier)
Term Dates
From 10/11/2013 To: 04/08/2014
Approved: *Paul E. Blair*




Applicant: Sirius XM Radio Inc.
File No.: SES-STA-20130701-00561
Call Sign: E080185
Special Temporary Authority (STA)

Sirius XM Radio Inc. is granted STA, under the following conditions, for 180 days to use its earth station in Vernon, New Jersey to conduct in-orbit testing (IOT) services to FM-6 satellite (Call Sign S2812) at orbit location 120.50° W.L.

1. Uplink to FM-6 on: 7051.5 – 7052.5 MHz and 7055.5 – 7056.5 MHz (command), 7060.0 – 7072.5 MHz.
2. Downlink from: 2320.0 – 2332.5 MHz (service transmissions and telemetry).
3. Sirius XM Radio Inc. will not exceed the previously-coordinated parameters during the proposed testing and will not cause harmful interference to the operations of any other spacecraft and authorized terrestrial operations. Sirius XM Radio will cease transmissions promptly in the event any harmful interference is caused by such operations. Sirius XM Radio must immediately terminate transmissions and notify the FCC in writing.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Sirius XM Radio Inc.'s own risk.
5. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.

"180 days" *"with conditions"*

 GRANTED International Bureau	File # <u>SES-STA-20130701-00561</u>
	Call Sign <u>E080185</u> Grant Date <u>09/27/2013</u> (or other identifier)
	Term Dates From <u>10/11/2013</u> To: <u>04/08/2014</u>
	Approved: <u>Kaul E. Black</u>

**Sirius XM Radio Inc. Request for Special Temporary Authority
to Provide IOT, Performance Testing Services, and TT&C for the FM-6 Satellite
Using Vernon, New Jersey Earth Station, Call Sign E080185**

Sirius XM Radio Inc. (“Sirius XM”) herein requests a grant of Special Temporary Authority (“STA”) for 180 days, commencing 12 days after launch of the FM-6 satellite (call sign S2812), to use the S- and X-band antennas on its Vernon, New Jersey earth station (call sign E080185) to conduct in orbit testing (“IOT”) and performance testing of the FM-6 satellite at the 120.5° W.L. orbital location and to perform TT&C of the satellite at this orbital location. Sirius XM expects to launch the FM-6 satellite on August 14, 2013 and will notify the FCC of changes in this launch date that may affect the timing of the authority requested.

Sirius XM will conduct IOT, performance testing, and TT&C operations for FM-6 in the satellite’s authorized frequency bands. More specifically, the Vernon, New Jersey earth station will use the following frequencies:

7051.5 – 7052.5 MHz and 7055.5 – 7056.5 MHz (command)
2320.0 – 2332.5 MHz (service transmissions and telemetry)
7060.0 – 7072.5 MHz (uplink)

Grant of this STA will serve the public interest by ensuring the provision of continued quality satellite radio services to customers. As the Commission is aware, the FM-6 satellite, a geostationary orbit (“GSO”) satellite, will be used in conjunction with Sirius XM’s FM-5 satellite (call sign S2710) to eventually replace Sirius XM’s current non-geostationary satellite orbit (“NGSO”) constellation (call sign S2105) launched in 2000.¹ The performance testing of FM-6 at 120.5° W.L. will include a series of tests to confirm the signal quality and service availability of this GSO satellite. Also, Sirius XM will test current and future subscriber receivers.

Moreover, grant of this request will not cause harmful interference to other satellite operators. Sirius XM won exclusive satellite rights to the 2320.0 – 2332.5 MHz S-band spectrum at auction and will coordinate internally its IOT, performance testing, and TT&C operations with its other in-orbit satellites. No other satellite operators will be affected by Sirius XM’s use of these frequencies.

Similarly, grant of this request will not cause harmful interference to existing or proposed terrestrial facilities operating in the 7 GHz X-band. As shown in the attached Frequency Coordination and Interference Analysis Reports prepared by Comsearch, Sirius XM has coordinated its proposed use of its Vernon, New Jersey earth stations with all existing or proposed terrestrial facilities operating in the shared 7 GHz frequency band, including national licensees. In the extremely unlikely event that harmful interference should occur

¹ *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-00805, DA 11-1498, File No. SAT-MOD-20110525-00099 (Sept. 2, 2011).

due to transmissions to or from its earth stations, Sirius XM will take all reasonable steps to eliminate the interference.

In light of the above, Sirius XM respectfully requests Commission approval of this STA request.

2. Contact	
Name: Jennifer D. Hindin	Phone Number: 202-719-4975
Company: Wiley Rein LLP	Fax Number: 202-719-7049
Street: 1776 K Street, NW	E-Mail: jhindin@wileyrein.com
City: Washington	State: DC
Country: USA	Zipcode: 20006
Attention: Jennifer D. Hindin	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 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 CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. City Vernon	
8. Latitude (dd mm ss.s h) 41 12 45.0 N	

9. State NJ	10. Longitude (dd mm ss.s h) 74 29 39.0 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Freq. Coordination Attachment 3:	
12. 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.) <div style="border: 1px solid black; padding: 5px;">Sirius XM Radio Inc. requests special temporary authority for 180 days for its Vernon, New Jersey earth station (call sign E080185) to conduct in orbit testing, performance testing and TT&C of the FM-6 satellite at 120.5 W.L.</div>	
13. 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"; party to the application; for these purposes. <p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
14. Name of Person Signing James S. Blitz	15. Title of Person Signing V.P., Regulatory Counsel
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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