

S2812 SAT-STA-20130701-00091 IB2013001411  
Satellite CD Radio LLC  
FM-6



File # SAT-STA-20130701-00091  
Call Sign S2812 Grant Date 09/19/13  
(or other identifier)  
From <sup>see</sup> conditions Term Dates period of To: 180 days  
Approved: *Stephen J. Duall*  
Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Jul 1 2013 1:52:51:130PM  
File Number: SAT-STA-20130701-00091  
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:  
Request for Special Temporary Authority to Conduct Performance Testing and TT&C of the FM-6 Satellite at 120.5 W.L.

1. Applicant

<b>Name:</b>	Satellite CD Radio LLC	<b>Phone Number:</b>	202-380-1383
<b>DBA Name:</b>		<b>Fax Number:</b>	202-380-4981
<b>Street:</b>	1221 Avenue of the Americas 36th Floor	<b>E-Mail:</b>	james.blitz@siriusxm.com
<b>City:</b>	New York	<b>State:</b>	NY
<b>Country:</b>	USA	<b>Zipcode:</b>	10020 -
<b>Attention:</b>	James S. Blitz		

**Satellite CD Radio LLC**  
**IBFS File No. SAT-STA-20130701-00091**  
**Call Sign S2812**

The application of Satellite CD Radio LLC (Satellite CD Radio) for special temporary authority (STA), IBFS File No. SAT-STA-20130701-00091, is GRANTED. Specifically, Satellite CD Radio is authorized for a period of 180 days to conduct performance testing of its new geostationary-satellite orbit Satellite Digital Audio Radio Service (SDARS) space station, FM-6 (Call Sign S2812), at the 120.5° W.L. orbital location and to conduct Telemetry, Tracking, and Command (TT&C) operations in the 2320.0-2332.5 MHz (space-to-Earth), 7051.5-7052.5 MHz (Earth-to-space), and 7060.0-7072.5 MHz (Earth-to-space) frequency bands, both to support performance testing operations at the 120.5° W.L. orbital location and to effect FM-6's drift to its authorized location of 116.15° W.L. at the completion of testing. All operations of the FM-6 space station must be in accordance with the technical specifications set forth in Satellite CD Radio's application, Federal Communication Commission (Commission) rules, and the conditions set forth below.

1. All operations of FM-6 during performance testing at the 120.5° orbital location or during the space station's drift to the 116.15° W.L. orbital location must be on an unprotected and non-harmful interference basis, *i.e.*, FM-6 shall not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.

2. In the event of any harmful interference as a result of the operations of FM-6 at the 120.5° W.L. orbital location or during its drift to the 116.15° W.L. orbital location, FM-6 must cease operations immediately upon notification of such interference and must inform the Commission immediately, in writing, of such an event.

3. FM-6's operations at 120.5° W.L. must be limited to performance testing operations and must not include the provision of commercial services.

4. Satellite CD Radio must coordinate the operations of FM-6 with existing geostationary satellites to ensure that no unacceptable interference results from its operations at the 120.5° W.L. orbital location.

5. Satellite CD Radio must operate only the TT&C frequencies on FM-6 during the space station's drift from the 120.5° W.L. orbital location to the 116.15° W.L. orbital location.


6. During the performance testing period, Satellite CD Radio must maintain the FM-6 space station within an east/west longitudinal station-keeping tolerance of  $\pm 0.05$  degrees of the 120.5° W.L. orbital location, pursuant to Section 25.210(j) of the Commission's rules, 47 C.F.R. § 25.210(j).

7. The authorized 180-day period will commence at the end of Satellite CD Radio's 30-day authority for in-orbit testing for FM-6 that was authorized as part of the grant of Satellite CD Radio's application to launch FM-6 to, and operate it at, the 116.15° W.L. orbital location. *See* IBFS File No. SAT-MOD-20110525-00099 (granted Sept. 2, 2011).

8. Satellite CD Radio has 30 days from the date of this grant to decline this authorization as conditioned. Failure to respond within that period will constitute formal acceptance of the authorization as conditioned.

**Satellite CD Radio LLC**  
**IBFS File No. SAT-STA-20130701-00091**  
**Call Sign S2812**

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.

 <b>GRANTED</b> * International Bureau *with conditions	<b>File #</b> <u>SAT-STA-20130701-00091</u>
	<b>Call Sign</b> <u>S2812</u> <b>Grant Date</b> <u>09/19/13</u> (or other identifier)
	<b>From</b> <u>see conditions</u> <b>Term Dates</b> <u>period of</u> <b>To:</b> <u>180 days</u>
	<b>Approved:</b> <u><i>Stephen J. Duall</i></u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b> Jennifer D. Hindin	<b>Phone Number:</b> 202-719-4975
<b>Company:</b> Wiley Rein LLP	<b>Fax Number:</b> 202-719-7049
<b>Street:</b> 1776 K Street, NW	<b>E-Mail:</b> jhindin@wileyrein.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20006 -
<b>Attention:</b>	<b>Relationship:</b> 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    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

<p>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.)</p> <div style="border: 1px solid black; padding: 10px; margin: 5px 0;"> <p>Satellite CD Radio LLC, a wholly-owned subsidiary of Sirius XM Radio Inc., herein requests a grant of Special Temporary Authority ('STA') to conduct performance testing and TT&amp;C of the FM-6 satellite (call sign S2812) at the 120.5 W.L. orbital location for 180 days.</p> </div>					
<p>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. <span style="float: right;"><input checked="" type="radio"/> Yes <input type="radio"/> No</span></p>					
<p>10. Name of Person Signing James S. Blitz</p>	<p>11. Title of Person Signing V.P., Regulatory Counsel</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;">Attachment 1: STA Request</td> <td style="width: 33%; padding: 5px;">Attachment 2:</td> <td style="width: 33%; padding: 5px;">Attachment 3:</td> </tr> </table>			Attachment 1: STA Request	Attachment 2:	Attachment 3:
Attachment 1: STA Request	Attachment 2:	Attachment 3:			
<p><b>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).</b></p>					

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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.**

**Sirius XM Radio Inc.**  
**Request for Special Temporary Authority**  
**for FM-6 Satellite**

Satellite CD Radio LLC, a wholly-owned subsidiary of Sirius XM Radio Inc. (“Sirius XM”), herein requests a grant of Special Temporary Authority (“STA”) to conduct performance testing and TT&C of the FM-6 satellite (call sign S2812) at the 120.5° W.L. orbital location for 180 days, commencing approximately 30 days after launch. 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 has previously received authority to conduct in orbit testing (“IOT”) of the FM-6 spacecraft at 120.5° W.L. for thirty days, commencing 12 days after launch of the satellite, and to use TT&C both to support IOT at 120.5° W.L. and to drift the satellite to its permanent location at 116.15° W.L.<sup>1</sup> With this STA request, Sirius XM seeks to extend the authorized period of FM-6’s operations at 120.5° W.L. to allow for performance testing and continued TT&C. Performance testing will commence following completion of IOT. After performance testing is complete, Sirius XM will relocate FM-6 to its permanently licensed location at 116.15° W.L.

Sirius XM will conduct performance testing and TT&C in the satellite’s authorized frequency bands:

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 continued quality satellite radio services to customers. As the Commission is aware, the FM-6 satellite, a geostationary orbit (“GSO”) satellite, ultimately will be used in conjunction with Sirius XM’s FM-5 satellite (call sign S2710) to replace Sirius XM’s current non-geostationary satellite orbit (“NGSO”) constellation (call sign S2105) launched in 2000.<sup>2</sup> 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. The tests generally would monitor the satellite’s signal reception on the ground using current and future subscriber receivers.

Grant of this request will not cause harmful interference to other satellite operators. Sirius XM won exclusive satellite rights to the 2.3 GHz S-band spectrum at auction and will coordinate internally its 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

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

<sup>2</sup> *Id.*

frequencies. Moreover, the testing and TT&C will not cause harmful interference to the operations of any other spacecraft. No satellites use the S-band or X-band frequencies within two degrees of  $120.5^\circ$  W.L.

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