

S2812 SAT-STA-20140523-00054 IB2014000986
Satellite CD Radio LLC
FM-6



File # SAT-STA-20140523-00054
Call Sign S2812 Grant Date 07/10/14
(or other identifier)
Term Dates period of
From 06/06/14 To: 180 days
Approved: Stephen J. Duall

Approved by OMB
3060-0678

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File Number: SAT-STA-20140523-00054
Callsign:

*with conditions

Stephen J. Duall
Chief, Satellite Policy Branch

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Request for Extension of Special Temporary Authority to Conduct Performance Testing and TT&C of the FM-6 Satellite at 120.5 W. L.

1. Applicant

Name:	Satellite CD Radio LLC	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		

Satellite CD Radio LLC
IBFS File No. SAT-STA-20140523-00054
Call Sign S2812


The application of Satellite CD Radio LLC (Satellite CD Radio) for special temporary authority (STA), IBFS File No. SAT-STA-20140523-00054, is GRANTED. Specifically, Satellite CD Radio is authorized for a period of 180 days, commencing June 6, 2014, to continue 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.¹ 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 ± 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. 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.

¹ See *Policy Branch Information: Actions Taken*, Public Notice, Report No. SAT-00973, DA 13-1935, File No. SAT-STA-20130701-00091 (Sept. 20, 2013).

Satellite CD Radio LLC
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8. 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.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20140523-00054</u>
	Call Sign <u>S2812</u> Grant Date <u>07/10/14</u> (or other identifier)
	Term Dates period of From <u>06/06/14</u> To: <u>180 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

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:	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 SATSTA2013070100091 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.)

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&C of the FM-6 satellite (call sign S2812) at the 120.5 W.L. orbital location for 180 days.

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
V.P., Regulatory Counsel

12. Please supply any need attachments.

Attachment 1: 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).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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 Extension of Special
Temporary Authority for FM-6 Satellite**

Satellite CD Radio LLC, a wholly-owned subsidiary of Sirius XM Radio Inc. (“Sirius XM”), herein requests an additional 180 days, commencing June 6, 2014, of the Special Temporary Authority (“STA”) previously granted¹ to conduct performance testing and TT&C of the FM-6 satellite (call sign S2812) at the 120.5° W.L. orbital.

Sirius XM has previously received authority to conduct in orbit testing (“IOT”) of the FM-6 spacecraft at 120.5° W.L. for 180 days, commencing approximately 30 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.² 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. Sirius XM currently expects the performance testing to end by December 2014. 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 2000.³ 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

¹ *Policy Branch Information: Actions Taken*, Public Notice, Report No. SAT-00973, DA 13-1935, File No. SAT-STA-20130701-00091 (Sept. 20, 2013).

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

³ *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° W.L.

Sirius XM agrees to comply with the conditions set forth in its existing STA during the additional 180 day period. In light of the above, Sirius XM respectfully requests Commission approval of this STA request.