

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Application for Extension of Special Temporary Authority for Ellenwood, Georgia Earth Station

1. Applicant

<b>Name:</b>	Sirius XM Radio Inc.	<b>Phone Number:</b>	202-380-1383
<b>DBA Name:</b>		<b>Fax Number:</b>	
<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		

*With Conditions*



File # SES-STA-20090824-01045

Call Sign E080168 Grant Date 8/28/09  
(or other identifier)

Term Dates  
From 8/28/09 To: 10/26/09

Approved: Jeanette K. Spriggs

Attachment

SES-STA-20090824-01045  
E080168

Special temporary authority (STA) is granted to Sirius XM Radio Inc. (Sirius XM) to operate the uplink and telemetry, tracking, and control (TT&C) functions of its earth station in Ellenwood, GA, for a period of 60 days beginning August 28, 2009 and ending October 26, 2009.


Operations pursuant to this STA are on a non-harmful interference basis with respect to all permanently authorized radiocommunication facilities operating in accordance with the ITU Radio Regulations. Sirius XM shall immediately cease transmissions if notified of harmful interference to such permanently authorized radiocommunication facilities.

Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Sirius XM's own risk.

Authority granted in this STA is without prejudice to the disposition of the underlying application by Sirius XM for regular authority to conduct C-band TT&C from the Ellenwood, GA earth station, including the request for waiver of Section 25.202(g) of the Commission's rules. See File No. SES-AMD-20080822-01086 (filed Aug. 22, 2008).

*With Conditions*

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Approved	<u>Jeanette M. Spriggs</u>



**GRANTED**  
International Bureau

<b>2. Contact</b>	
<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
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<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 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 Ellenwood	8. Latitude (dd mm ss.s h) 33 39 51.0 N



**Application for Extension of Special Temporary Authority for  
Ellenwood, GA Earth Station Call Sign E080168**

Sirius XM Radio Inc. (“Sirius XM”), pursuant to Section 25.120 of the Commission’s rules, 47 C.F.R. § 25.120, and Condition 197(d) of the Ellenwood, Georgia earth station authorization (call sign E080168),<sup>1</sup> hereby requests Special Temporary Authority (“STA”) for an additional 60 days commencing August 28, 2009, to continue performing on-station telemetry, tracking, and command (“TT&C”) operations in the 4/6 GHz band using Sirius XM’s Ellenwood, Georgia earth station for the Sirius FM-1, -2, and -3 space stations.

In February 2009, the Commission granted Sirius XM authority to use its Ellenwood, Georgia earth station to perform backup TT&C.<sup>2</sup> Condition 197(d) of the authorization requires Sirius XM to notify the Commission within two days of commencing on-station back-up TT&C and to seek STA if Sirius XM intended to continue such operations for more than five consecutive days. On June 4, 2009, Sirius XM filed an application for modification of the Ellenwood earth station authorization to allow routine TT&C operations.<sup>3</sup> On June 24, 2009, Sirius XM notified the Commission that it commenced use of the Ellenwood earth station for TT&C. Due to continued antenna failures and maintenance problems experienced by Sirius XM’s primary TT&C earth stations in Quito, Ecuador and Utiwe, Panama, Sirius XM also sought STA to continue use of the Ellenwood earth station for TT&C operations for 60 days or until grant of Sirius XM’s pending modification application. This STA was granted on June 29, 2009, and expires on August 27, 2009.<sup>4</sup> Sirius XM now seeks STA to continue use of the Ellenwood earth station for TT&C operations for an additional 60 days or until grant of the pending modification application.

***Technical Information***

Sirius XM will use the 4196.35-4196.65, 4196.85-4197.15, 6422.0-6423.0, and 6424.0-6425.0 MHz C-band frequencies for TT&C of the Sirius FM-1, -2, and -3 space stations for the time periods during which each satellite is in orbit over North America. Sirius XM will operate the earth station in conformance with the technical parameters provided in the pending modification application and the current authorization, which are incorporated herein by reference.<sup>5</sup>

<sup>1</sup> Sirius XM Radio Inc., File No. SES-LIC-20080714-00933, Call Sign E080168, Condition 197(d) (granted Feb. 17, 2009).

<sup>2</sup> *Satellite Communications Serv. Actions Taken*, Report No. SES-01114, File Nos. SES-LIC-20080714-00933, SES-AMID-20080822-01086, SES-AMID-20090204-00145 (Feb. 18, 2009) (Public Notice).

<sup>3</sup> *See Modification of Ellenwood, Georgia Earth Station Authorization*, IBFS File No. SES-MOD-20090604-00692 (filed June 4, 2009).

<sup>4</sup> *Satellite Communications Serv. Actions Taken*, Report No. SES-01154, File No. SES-STA-20090624-00791 (July 8, 2009) (Public Notice).

<sup>5</sup> *Id.*; see also *supra* note 2; Sirius XM was granted waiver of Section 25.202(g) of the Commission’s rules, 47 C.F.R. § 25.202(g), to use C-band frequencies for TT&C of the Sirius

### *Public Interest Considerations*

Grant of the requested STA will serve the public interest because it will allow Sirius XM to continue to ensure constant and safe satellite operations. As described in Sirius XM's pending modification application, Sirius XM currently performs TT&C functions for the Sirius FM-1, -2, and -3 space stations using C-band frequencies from its earth stations in Quito, Ecuador and Urtive, Panama. Recently, both of these earth stations experienced antenna failures and other maintenance problems, which left them temporarily unable to perform TT&C operations. On or about May 15, 2009, one of the two antennas at the Quito station became permanently unusable. Because of continued mechanical difficulties, Sirius XM commenced TT&C operations from the Ellenwood facility and seeks this STA to continue such operations for more than five consecutive days. Grant of this STA application will permit Sirius XM to use the Ellenwood antennas as full-time complements to the remaining, usable antennas in Quito and Urtive for TT&C functions, which will allow both for the needed lengthy maintenance periods at the South America stations on a scheduled basis and for relieving stress on the remaining three antennas there through reduced usage and rest periods.

Grant of this modification will not cause interference to any operators in the C-band. Sirius XM will use only a small portion of the C-band and will transmit uplink commands and ranging primarily while its satellites are sufficiently far away from the GSO equatorial arc to preclude interference. As shown in the frequency coordination studies provided as Attachment B in the pending modification application and incorporated herein by reference, Sirius XM has carefully coordinated all C-band operations with other operators using these frequencies and updates this coordination every six months. In the unlikely event that harmful interference occurs, Sirius XM will immediately take all necessary steps to eliminate the interference.

Accordingly, and for good cause shown, Sirius XM respectfully requests a STA for an additional 60 days to use the Ellenwood, Georgia earth station in the manner described herein.

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FM-1, -2, and -3 space stations. To the extent required, Sirius XM requests continuation of its existing waiver of Section 25.202(g) for this STA application.