

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
T12V antenna testing STA 2.4-m Mt. Jackson - 180 days

1. Applicant

**Name:** Telesat Network Services, Inc.      **Phone Number:** 613-748-8700  
**DBA Name:**      **Fax Number:** 613-748-8712  
**Street:** 135 Routes 202/206      **E-Mail:** JForsey@telesat.com  
**City:** Bedminster      **State:** NJ  
**Country:** USA      **Zipcode:** 07921 -1538  
**Attention:** Mr John Forsey



File # SES-STA-20151218-00955  
Call Sign \_\_\_\_\_ Grant Date 2-19-16  
(or other identifier)  
Term Dates  
From 2-12-16 To: 2-11-16  
Approved: Paul E. Forsey

Applicant: Telesat Network Services, Inc.  
No Call Sign  
File No.: SES-STA-20151218-00955  
Special Temporary Authority



File # SES-STA-20151218-00955  
Call Sign \_\_\_\_\_ Grant Date 2-12-16  
(or other identifier)  
Term Dates  
From: 2-12-16 To: 8-11-16  
Approved: Paul E. Hines

Telesat Network Services, Inc. ("Telesat") is granted Special Temporary Authority ("STA") for 180 days, starting February 12, 2016, to operate a temporary-fixed earth station using a 2.4 meter antenna located at Telesat's teleport in Mount Jackson, Virginia to communicate with U.S. licensed GSO satellite Telstar 12V (S2933) at orbital location 15 degrees W.L in the 18306-19103 MHz, 19700-20070 MHz (space-to-Earth) and 28350- 28872 MHz, 29300-29500 MHz (Earth-to-space) frequency bands. This grant of STA is subject to the following conditions:

- 1) Operations will not exceed the operational power levels and parameters requested and coordinated.
- 2) Operations under this STA shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
- 3) Use of the frequency bands, 18.3-19.1 GHz and 19.7-20.2 GHz, by the earth station at Mount Jackson, Virginia, must be in accordance with the US334 coordination agreement between Skynet Satellite Corporation (Skynet) as the operator of Telstar 12 VANTAGE (T12V) (S2933) satellite network and the U.S. government as the operator of the U.S. government satellite networks operating in the Ka-band frequencies.
- 4) Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the antennas' power flux-density levels exceed the specified guidelines.
- 5) The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 6) Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Telesat's risk.

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.

**2. Contact**

**Name:** Ryan N. Terry      **Phone Number:** 202-429-4900  
**Company:** Goldberg, Godles, Wiener & Wright LLP      **Fax Number:** 202-429-4912  
**Street:** 1229 19th Street, N.W.      **E-Mail:** rterry@g2w2.com  
**City:** Washington      **State:** DC  
**Country:** USA      **Zipcode:** 20036  
**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 or Submission ID

4a. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity     Noncommercial educational licensee

Other (please explain):

4b. Fee Classification    CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant

Change Station Location

Other

6. Requested Use Prior Date

01/14/2016

7. CityMount Jackson	8. Latitude (dd mm ss.s h) 38 43 44.4 N
9. State VA	10. Longitude (dd mm ss.s h) 78 39 24.1 W
11. Please supply any need attachments. Attachment 1: STA extension Attachment 2: 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.) Telesat Network Services, Inc., pursuant to Section 25.120 of the Commission's rules, hereby requests extension of its Special Temporary Authority to operate a temporary-fixed 2.4-m mobile antenna at its Mt. Jackson, VA teleport, for a 180-day period to begin on January 14, 2016, to permit testing of facilities that will communicate with the Telstar	
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.  Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing R. John Forsey	15. Title of Person Signing Director, Corporate Development
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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## **12. Description**

Telesat Network Services, Inc., pursuant to Section 25.120 of the Commission's rules, hereby requests extension of its Special Temporary Authority to operate a temporary-fixed 2.4-m mobile antenna at its Mt. Jackson, VA teleport, for a 180-day period to begin on January 14, 2016, to permit testing of facilities that will communicate with the Telstar 12 Vantage satellite.

## REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Telesat Network Services, Inc. ("Telesat"), pursuant to Section 25.120 of the Commission's rules, hereby requests extension of its Special Temporary Authority ("STA") to continue operation of a temporary-fixed 2.4-m mobile antenna at its Mt. Jackson, VA teleport.<sup>1</sup> Telesat respectfully requests that this extension begin on January 14, 2016, for a period of 180 days, to facilitate ongoing testing of facilities that are communicating with the Telstar 12 Vantage ("T12V") satellite.<sup>2</sup> The T12V satellite was launched on November 24, 2015. The Commission authorized Skynet Satellite Corporation, a Telesat affiliate, to operate the Telstar 12V satellite at 15° W.L.<sup>3</sup>

As background, the temporary-fixed antenna is being used to test the diversity switching functionality between the Mt. Jackson teleport and a proximate earth station site in Middletown, VA. Telesat is operating at each of those sites a 9.4-m antenna to support the services provided on the T12V satellite in the Ka-band.<sup>4</sup> In order to test and tune the switching equipment and the fiber optic link that connects the two 9.4-m antennas, the 2.4-m mobile antenna simulates a user terminal both transmitting and receiving. In addition, it uplinks a Ka-band pilot carrier that is received at the 9.4-m antennas to allow their receive patterns to be measured.

The subject antenna is located within a secured perimeter at the Mt. Jackson teleport to which only authorized employees would have access.

In its initial request, Telesat provided a radiation hazard report and a Frequency Coordination Report to demonstrate that coordination has been successfully completed with terrestrial operators in the 28 GHz band. Telesat herein incorporates those materials by reference.

Grant of this extension application will continue to serve the public interest, convenience, and necessity by allowing Telesat to test and calibrate its ground network system to support the newly launched satellite. Accordingly, and for good cause shown, Telesat respectfully requests that its STA extension be granted.

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<sup>1</sup> FCC File No. SES-STA-20151119-00861.

<sup>2</sup> Telesat anticipates that it will require a period through July 2016 to complete the subject testing and to make the appropriate network calibrations.

<sup>3</sup> FCC File No. SAT-LOA-20141010-00107.

<sup>4</sup> FCC File Nos. SES-LIC-20151014-00689 and SES-LIC-20151016-00712. The Bureau has granted Telesat Special Temporary Authority to operate the referenced 9.4-m antennas while its underlying applications for authority remain pending. *See* File Nos. SES-STA-20151119-00859 and SES-STA-20151119-00860.