

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 4.6-m Mt. Jackson - 60 day extension

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-20160223-00169
E150128
Call Sign (or other identifier) Grant Date 3-21-14
From: 4-1-14 Term Dates To: 5-1-14
Approved: Paul E. Forsey

Applicant: Telesat Network Services, Inc.
Call Sign: E150128
File No.: SES-STA-20160223-00169
Special Temporary Authority



File # SES-STA-20160223-00169
E150128
Call Sign E150128 Grant Date 3-31-16
(or other identifier)
Term Dates
From: 4-1-16 To: 5-1-16
Approved: Paul E. Blawie

Telesat Network Services, Inc. ("Telesat") is granted an extension of Special Temporary Authority ("STA") for 60 days, commencing on April 1, 2016. The STA is to operate a temporary-fixed earth station using a 4.6 meter antenna at 38° 43' 44" N.L./078° 39' 24" W.L., 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) 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 SESSTA2016021900155 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			
04/01/2016			

7. City/Mount 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: 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;">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 4.6-m mobile antenna at its Mt. Jackson, VA teleport, for a 60-day period to begin on April 1, 2016, to permit testing of facilities that will communicate with the Telstar 12</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: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
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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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.

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 4.6-m mobile antenna at its Mt. Jackson, VA teleport, for a 60-day period to begin on April 1, 2016, to permit testing of facilities that will communicate with the Telstar 12 Vantage satellite.

REQUEST FOR EXTENSION OF SPECIAL TEMPORARY AUTHORITY

Telesat Network Services, Inc. ("Telesat"), pursuant to Section 25.120 of the Commission's rules, hereby requests extension of Special Temporary Authority ("STA") to continue to operate a temporary-fixed 4.6-m antenna at its Mt. Jackson, VA teleport in the manner described herein. Telesat respectfully requests that its STA extension begin on April 1, 2016, and have a term of thirty (60) days, consistent with 47 C.F.R. 25.120(b)(2) of the Commission's rules.¹

As stated in its original request, STA is sought to permit testing of facilities that will communicate with the Telstar 12 Vantage ("Telstar 12V") satellite. The T12V satellite was launched on November 24, 2015. The Commission has authorized Skynet Satellite Corporation, a Telesat affiliate, to operate the Telstar 12V satellite at 15°W.L.²

Since the launch of Telstar 12V, Telesat has been actively working to transition services from the Telstar 12 satellite and to commence new services, including those planned for communication with a recently authorized 9.4-m antenna in the Ka-band.³ Owing to unforeseen delays in the installation and commissioning of that 9.4-m antenna, Telesat is required to utilize a temporary-fixed 4.6-m antenna to commence critical testing that would otherwise have been conducted using the primary 9.4-m antenna.

Specifically, the antenna will test a bidirectional link between Mt. Jackson and a ship-mounted earth station off the coast of Brazil. The testing over the link with Brazil is critical to verify whether Telesat can transition certain services from Telstar 12 to Telstar 12V while minimizing outage time.

The subject 4.6-m antenna will be located within a secured perimeter at the Mt. Jackson teleport to which only authorized employees would have access.

Telesat is incorporating by reference from its initial STA request a radiation hazard report, a Frequency Coordination Report demonstrating that coordination has been successfully completed with terrestrial operators in the 28 GHz band, and a completed Schedule B in which it furnished the technical details that relate to the proposed operations.

¹ Telesat notes that it has filed an initial STA request to commence cooperation of the subject facility for 30 days. (See FCC File No. SES-STA-20160219-00155.) Telesat anticipates that it will require a period through May 30, 2016 to complete the subject testing and to make the appropriate network calibrations, and is thus submitting two requests to enable operations through that date. Telesat has no plans to license the 4.6-m antenna on a permanent basis.

² Call Sign S2933 (FCC File No. SAT-LOA-20141010-00107).

³ Call Sign E150128 (FCC File Nos. SES-LIC-20151014-00689 and SES-AMD-20151209-00922), granted Jan. 11, 2016.

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