

S2462 SAT-STA-20160617-00056 IB2016001366  
Skynet Satellite Corporation  
Telstar 12



File # SAT-STA-20160617-00056  
Call Sign S2462 Grant Date 07/19/16  
(or other identifier)  
Term Dates  
From 07/19/16 To: 08/07/16  
Approved: Stephen J. Duall  
Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

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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:  
STA to cover SAT-MOD-20160513-00050

1. Applicant

<b>Name:</b>	Skynet Satellite Corporation	<b>Phone Number:</b>	613-748-8700
<b>DBA Name:</b>		<b>Fax Number:</b>	613-748-8712
<b>Street:</b>	135 Route 202/206	<b>E-Mail:</b>	JForsey@telesat.com
<b>City:</b>	Bedminster	<b>State:</b>	NJ
<b>Country:</b>	USA	<b>Zipcode:</b>	07921 -
<b>Attention:</b>	John Forsey		

**ATTACHMENT TO GRANT**  
 Skynet Satellite Corporation  
 IBFS File No. SAT-STA-20160617-00056

<b>IBFS File No(s):</b>	SAT-STA-20160617-00056	<p><b>GRANTED – With Conditions</b></p>  <p><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	Skynet Satellite Corporation	
<b>Call Sign:</b>	S2462	
<b>Satellite Name:</b>	Telstar 12	
<b>Orbital Location: (required station-keeping tolerance)</b>	109.2° W.L. (± 0.05 degrees east/west)	
<b>Administration:</b>	United States	
<b>Nature of Service:</b>	Fixed-Satellite Service (FSS)	
<b>Scope of Grant:</b>	Skynet is granted special temporary, authority for 30 days, to operate the Telstar 12 space station at the 109.2° W.L. orbital location pursuant to the parameters set forth in IBFS File No. SAT-MOD-20160513-00050, as supplemented. <sup>1</sup>	
<b>Service Area(s):</b>	See Schedule S, Item S8 and accompanying .gxt files in IBFS File No. SAT-MOD-20160513-00050 and condition 3 below.	
<b>Frequencies:</b>	10.95-11.2 GHz (space-to-Earth) 11.45-12.2 GHz (space-to-Earth) 13.75-14.0 GHz (Earth-to-space) 14.0-14.5 GHz (Earth-to-space)	
<p><b>Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission’s rules not waived herein. This grant is also subject to the following conditions:</b></p> <ol style="list-style-type: none"> <li>1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, Skynet must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference under this grant of special temporary authority, Skynet must cease operations immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event.</li> <li>2. Skynet must maintain the Telstar 12 space station within an east-west longitudinal station-keeping tolerance of ±0.05 degrees of the 109.2° W.L. orbital location.</li> <li>3. Skynet must operate in accordance with the beam configuration 1, as specified in its supplemental filing. <i>See</i> Letter to Jose P. Albuquerque, Chief, Satellite Division, from Joseph Godles, Counsel to Skynet Satellite Corp, July 1, 2016.</li> <li>4. Skynet’s use of the 10.95-11.2 GHz and 11.45-11.7 GHz frequency bands is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations, 47 CFR 2.106, NG52.</li> <li>5. Sky Skynet’s use of the 10.95-11.2 GHz and 11.45-11.7 GHz (space-to-Earth) frequency bands is subject to footnote US211 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US211, which</li> </ol>		

<sup>1</sup> This STA was previously granted in part, and deferred in part. *See* Policy Branch Information, Public Notice, Report No. SAT-01173, DA 16-783 (July 8, 2016). Specifically, Skynet’s request to use the 13.75-14.0 GHz frequency band was deferred pending review by the National Telecommunications and Information Administration (NTIA). For ease of reference, all conditions in the prior grant are repeated here. The expiration date for the use of the 13.75-14.0 GHz band is the same as the expiration date for the previously-granted portions of the STA request.

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urges applicants for airborne or space station assignments to take all practicable steps to protect radio astronomy observations in the adjacent bands from harmful interference, consistent with footnote US74.

6. In the 13.75-14.0 GHz band (Earth-to-space), receiving space stations in the FSS must not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 CFR § 2.106, US337, any earth station in the United States and its possessions communicating with the Telstar 12 space station in the 13.75-13.8 GHz band (Earth-to-space) is required to coordinate earth stations in the fixed-satellite service with the National Telecommunications and Information Administration (NTIA) on a case-by-case basis in order to minimize harmful interference to the Tracking and Data Relay Satellite System's forward space-to-space link (TDRSS forward link-to-LEO).
7. Operations of any earth station in the United States and its possessions communicating with the Telstar 12 space station in the 13.75-14.0 GHz band (Earth-to-space) must comply with footnote US356 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and the maximum equivalent isotropically radiated powers (EIRP) of any emission should be at least 68 dBW and should not exceed 85 dBW. Operations of any earth station located outside the United States and its possessions communicating with the Telstar 12 space station in the 13.75-14.0 GHz band (Earth-to-space) must be consistent with footnote 5.502 to the ITU Radio Regulations, which allows a minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits.
8. Operations of any earth station in the United States and its possessions communicating with the Telstar 12 space station in the 13.77-13.78 GHz band (Earth-to-space) must comply with footnote US357 to United States Table of Frequency Allocations, 47 CFR. § 2.106, US357, which specifies a maximum EIRP density of emissions of 71 dBW in any 6 MHz band for communications with a space station in geostationary-satellite orbit.<sup>2</sup> Operations of any earth station located outside the United States and its possessions communicating with the Telstar 12 space station in the 13.77-13.78 GHz band (Earth-to-space) must comply with footnote 5.503 to the ITU Radio Regulations, which specifies a maximum EIRP density of emissions, based on the antenna diameter, for communications with a space station in geostationary-satellite orbit.
9. Skynet's request for a waiver of Section 25.114(c)(4)(vi)(A) of the Commission's rules is GRANTED. Section 25.114(c)(4)(vi)(A) requires predicted space station antenna gain contour(s) for each transmit and each receive antenna beam and nominal orbital location requested. Skynet states that it is unable to provide antenna gain contours for the Telstar 12 telemetry, tracking, and command beams because neither Skynet nor the satellite's manufacturer, Space Systems/Loral could locate copies of the information due to the age of the satellite, which was launched in 1999. Under the circumstances, we find that other parts of the application (Tables 6 and 7) provide sufficient information to evaluate the potential for harmful interference from the operation of Telstar 12.
10. Skynet must operate its telemetry, tracking, and command operations from its facility at Mt. Jackson, Virginia.
11. This grant is without prejudice to any Commission's action in IBFS File No. SAT-MOD-2016051300050.
12. Any action taken and expense incurred as a result of operations pursuant to this grant of special authority is at Skynet's own risk.

<sup>2</sup> Footnote US357 places a restriction on FSS earth station operations in order to protect government operations in the band, including manned space flight. 47 CFR § 2.106, US357.

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IBFS File No. SAT-STA-20160617-00056


Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

<b>Action Date:</b>	July 19, 2016	
<b>Term Dates</b>	<b>From:</b> July 19, 2016	<b>To:</b> August 7, 2016

**Approved:**

  
Stephen J. Duall  
Chief, Satellite Policy Branch

2. Contact

<b>Name:</b>	Joseph A. Godles Esq.	<b>Phone Number:</b>	202-429-4900
<b>Company:</b>	Goldberg, Godles, Wiener & Wright LLP	<b>Fax Number:</b>	202-429-4912
<b>Street:</b>	1229 Nineteenth St. N.W.	<b>E-Mail:</b>	jgodles@g2w2.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036 -
<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 SATMOD2016051300050 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    CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location                       Extend Expiration Date                       Other

6. Temporary Orbit Location  
XXX

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.)

Special Temporary Authority is requested to operate T12 satellite as a point of communication at 109.2 deg WL starting July 7, 2016, for 30 days or until the application for permanent modification SAT-MOD-20160513-00050 can be granted, whichever is sooner.

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  
John Forsey

11. Title of Person Signing  
Vice President Public Policy

12. Please supply any need attachments.

Attachment 1: STA Request

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).

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