

S2462 SAT-STA-20170824-00124 IB2017002383
Skynet Satellite Corporation
Telstar 12


GRANTED*
International Bureau
*with conditions

File # SAT-STA-20170824-00124
Call Sign S2462 Grant Date 09/19/17
(or other identifier)
Term Dates period of
From 09/22/17 To: 60 days
Approved: *Stephen J. Duall*
Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Aug 24 2017 3:10:35:113PM
File Number: SAT-STA-20170824-00124
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 T12 spot reconfiguration

1. Applicant

Name:	Skynet Satellite Corporation	Phone Number:	613-748-8700
DBA Name:		Fax Number:	613-748-8712
Street:	135 Route 202/206	E-Mail:	eneasmith@telesat.com
City:	Bedminster	State:	NJ
Country:	USA	Zipcode:	07921 -
Attention:	Ms Elisabeth Neasmith		

ATTACHMENT TO GRANT
Skynet Satellite Corporation
IBFS File No. SAT-STA-20170824-00124

IBFS File No(s):	SAT-STA-20170824-00124	<p>GRANTED IN PART – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	Skynet Satellite Corporation	
Call Sign:	S2462	
Satellite Name:	Telstar 12	
Orbital Location: (required station-keeping tolerance)	109.2° W.L. (± 0.05 degrees east/west)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	Skynet is granted special temporary, authority for 60 days, to modify the beam configuration for 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-20170824-00123.	
Service Area(s):	See Schedule S, Item S8 and accompanying .gxt files in IBFS File No. SAT-MOD-20160513-00050 and condition 1 below.	
Frequencies:	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)	

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:

1. Skynet must operate in accordance with the beam configuration 2, as specified in IBFS File Nos SAT-MOD-20160513-00050 and SAT-MOD-20170824-00123.
2. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.*, 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.
3. 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.
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.
5. 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 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

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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.¹ 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 must conduct telemetry, tracking, and command operations for Telstar 12 at 109.2° W.L. from its facility at Mt. Jackson, Virginia.
10. This grant is without prejudice to any action the Commission may take in IBFS File No. SAT-MOD-20170824-00123.
11. Any action taken and expense incurred as a result of operations pursuant to this grant of special authority is at Skynet's own risk.

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).

Action Date:	September 19, 2017	
Term Dates	From: September 22, 2017	To: Period of 60 days

¹ 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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Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Joseph A. Godles, Esq	Phone Number:	202-429-4900
Company:	Goldberg, Godles, Wiener, & Wright LLP	Fax Number:	202-429-4912
Street:	1025 Connecticut Ave, NW Ste 1000	E-Mail:	jgodles@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 IB2017002382

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

7. Requested Extended Expiration Date
2017-11-21 00:00:00.0

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.)

Skynet must alter its spot-beam configuration to meet new customer demand. Please see Attachment A.

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
Elisabeth Neasmith

11. Title of Person Signing
Director, Spectrum Management and Development

12. Please supply any need attachments.

Attachment 1: Attachment A

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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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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Skynet Satellite Corporation (“Skynet”), pursuant to Section 25.120 of the Commission’s Rules, hereby requests special temporary authority (“STA”) to modify the beam configuration of Telstar 12 in the manner set forth in Skynet’s contemporaneously-filed space station modification application (the “Beam Reconfiguration Modification Application”).¹ Skynet requests STA for a period of sixty (60) days commencing on September 22, 2017.

In a previous modification application seeking authority to relocate Telstar 12 to 109.2° W.L. (the “Relocation Modification Application”)², where Telstar 12 is presently stationed, Skynet identified two possible spot-beam configurations. The International Bureau requested that Skynet choose a single configuration for licensing purposes, and Skynet selected Configuration 1. The International Bureau granted the Relocation Modification Application on that basis.

To satisfy evolving customer requirements, Skynet now needs to operate Telstar 12 in Configuration 2. To implement this change, Skynet has filed the Beam Reconfiguration Modification Application. In light of the requirements for public notice and comment, however, there is insufficient time for the Beam Reconfiguration Modification Application to be processed and granted by the September 22 start date for initiation of service in Configuration 2. Skynet, therefore, is requesting STA covering operation in Configuration 2 during an initial 60-day period.

Skynet’s STA request is supported by good cause. The new spot-beam configuration will enable Skynet’s customer to provide broadband Internet connectivity and streaming audio/video services on commercial aircraft flying within Telstar 12’s coverage area. By facilitating provision of this service in a timely manner, grant of Skynet’s STA request will increase consumer choice and enhance competition.³

The changes proposed in the STA request, moreover, will have no impact on the potential for interference. The showings Skynet made in the Relocation Modification Application as to compatibility with adjacent GSO FSS satellites and compliance with FCC and ITU limits for power flux density already took both Telstar 12 configurations into account and are unchanged.⁴

¹ Skynet Satellite Corporation, application to modify spot-beam configuration of Telstar 12 (S2462), Submission ID: IB2017002382, filed August 24, 2017.

² See Skynet Satellite Corporation, application to modify S2462 to provide U.S. service via Telstar 12 from 109.2° WL pursuant to an inter-administration arrangement between the United States and Canada, Exhibit A, SAT-MOD-20160513-00050, filed May 13, 2016.

³ As stated in the Beam Reconfiguration Modification Application, Skynet’s operations in the Extended-Ku band (10.95-11.2 and 11.45-11.7 GHz) using Configuration 2 will be limited to: (1) international links; and (2) ESV, VMES, and ESAA links that are operated in accordance with footnote NG52 of the Table of Frequency Allocations. Skynet, therefore, is not seeking a waiver of footnote NG52.

⁴ See Relocation Modification Application, Attachment A (Technical Exhibit).

In any event, consistent with the Commission's policies Skynet's operations pursuant to the requested STA will be on a secondary, non-interference basis.

Accordingly, and for good cause shown, Skynet respectfully requests that its STA request be granted.