Callsign:

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File Number: SAT-STA-20160623-00059

Intelsat License LLC

GRANTED* International Bureau

File # SAT- STA - 20160623 - 00059

Call Sign 32253 Grant Date 9/

(or other identifier)

Approved by OMB 3060-0678

Term Dates

& With conditions

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: 180-Day STA to Drift to and Operate Galaxy 11 (Call Sign S2253)

1. Applicant

Name:

Intelsat License LLC

Phone Number:

703-559-7848

DBA Name:

Fax Number:

703-559-8539

Street:

c/o Intelsat Corporation

E-Mail:

susan.crandall@intelsat.com

-5972

7900 Tysons One Place

City:

McLean

State:

VA

Country:

USA

Zipcode:

22102

Attention:

Susan H. Crandall

ATTACHMENT TO GRANT

Intelsat License LLC IBFS File No. SAT-STA-20160623-00059

	GAT GTA 201(0(22 00050	GRANTED-			
IBFS File No(s):	SAT-STA-20160623-00059	4			
Licensee/Grantee:	Intelsat License LLC	With Conditions			
Call Sign:	S2253	COMMIN			
Satellite Name:	Galaxy 11				
Orbital Location:	45.0 ° E.L. and 44.9 ° E.L.				
(required station-	(+/- 0.05 degrees east/west)				
keeping tolerance)		COMMISSION			
Administration:	United States of America				
Nature of Service:	Fixed Satellite Service	International Bureau Satellite Division			
Scope of Grant:	Special temporary authority for a period of 180 days to (1) conduct telemetry, tracking, and command operations necessary to drift the Galaxy 11 space station from the 60.1° E.L. orbital position, first to the 45.0° E.L. orbital position, and then to the 44.9° E.L. orbital location, and to maintain it at these locations; and, (2) provide fixed-satellite service via Galaxy 11, first at the 45.0° E.L. orbital location, and then during the drift to, and upon arrival at, the 44.9° E.L. orbital location.				
Service Area(s):					
Frequencies:	During the drift to and at 45.0 ° E.L. and 44.9 ° E.L.: 13750-14500 MHz (Earth-to-space) 10950-11200 MHz (space-to-Earth) 11700-12200 MHz (space-to-Earth) TT&C center frequencies: 14000.5 MHz and 14498.5 MI 11701 MHz and 11702 MHz (space-to-Earth)	Hz (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. Operations pursuant to this authority must be on an unprotected and non-harmful interference basis, i.e., the Galaxy 11 space station shall 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, Intelsat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
- 2. In connection with the provision of service in any particular country, Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
- 3. Intelsat must operate Galaxy 11 at the 45.0 ° E.L. and 44.9 ° E.L. orbital locations in compliance with all existing or future coordination agreements for this location.
- 4. While at the 45.0 ° E.L. and 44.9 ° E.L. locations, Intelsat must maintain the Galaxy 11 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
- 5. The United States remains the licensing administration of the Galaxy 11 spacecraft and its communications payloads for purposes of International Telecommunication Union (ITU) Radio Regulation 18.1 and is the administration responsible for the operations of Galaxy 11. Intelsat will operate Galaxy 11 at the nominal 45.0° E.L. orbital position pursuant to Germany's EUROPESTAR-BSS-45E and EUROPESTAR-45E-A filings. The U.S. Administration will not object to use of the Galaxy 11 satellite by the German Administration for claiming bringing into use or continuing the use of orbital assignments at 45.0° E.L. This grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or in the vicinity of the 45.0° E.L. orbital

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location.

- 6. The operations of Galaxy 11 and associated earth stations must comport with the applicable uplink limits in 47 CFR §§ 25.138, 25.211, 25.218, 25.221, 25.222, 25.226, and/or 25.227 of the Commission's rules, and the applicable downlink limits in 47 CFR §§ 25.138 and/or 25.212 of the Commission's rules, unless Intelsat coordinates any non-conforming operations with the operations of U.S.-licensed geostationary orbit space stations within 6 degrees of the nominal 45.0° E.L. orbital location. Intelsat must also comport with the maximum power limits indicated in its application. Non-conforming operation must also be coordinated with respect to those operations of non-U.S.-licensed space stations within 6 degrees of the nominal 45.0° E.L. orbital location involving approved communications with U.S.-licensed earth stations.
- 7. Intelsat's use of the 10.95-11.2 GHz frequency band is subject to Footnote US211 to the Table of Frequency Allocations, 47 C.F.R. § 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 US 74.
- 8. Intelsat's use of the 10.95-11.2 GHz frequency band is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG52.
- 9. In the 13.75-14.0 GHz band (Earth-to-space), receiving space stations in the Fixed-Satellite Service shall not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations.
- 10. Pursuant to footnote US337 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US337, any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) is required to coordinate through National Telecommunications and Information Administration's (NTIA's) Interdepartment Radio Advisory Committee's (IRAC's) Frequency Assignment Subcommittee (FAS) to minimize interference to the National Aeronautics and Space Administration Tracking and Data Relay Satellite System, including manned space flight
- 11. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall comply with footnote US 356 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and recommended minimum and maximum equivalent isotropically radiated powers (EIRP). Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall 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.
- 12. Operations of any earth station in the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall comply with footnote US 357 to United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US357, which specifies that a required maximum EIRP density of emissions not exceeded 71 dBW in any 6 MHz band for communications with a space station in geostationary-satellite orbit. Operations of any earth station located outside the United States and its possessions communicating with the Galaxy 11 space station in the 13.75-14.0 GHz band (Earth-to-space) shall comply with footnote 5.503 to the ITU Radio Regulations, which specifies a required maximum EIRP density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.
- 13. Pursuant to footnote US342 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, services operating in the 14.47-14.50 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.

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14. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Intelsat'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 issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 2.106, and is effective immediately. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. § § 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

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:	9/1/2016	
Term Dates	From: September 1, 2016	To: Period of 180 days

Approved:

Chief, Satellite Engineering Branch

2. Contact							
	Name:	Cynthia J. Grady	Phone Nu	mber:	703-5	559-6949	
	Company:	Intelsat Corporation	Fax Num	Number:		703-559-8539	
	Street:	7900 Tysons One Place	E-Mail:		cynthi	a.grady@intelsat.com	m
	City:	McLean	State:		VA		
	Country:	USA	Zipcode:		22102	-5972	
	Attention:		Relations	hip:	Legal	Counsel	
3. Refer 4a. Is a : If Yes, Govern Other(fee submitted complete and nmental Entity please explair	with this application? I attach FCC Form 159. If No. Noncommercial education:	tional licensee	for fee exempti	on (see 47 C.F.R.S	Section 1.1114).	
4b. Fee Cla	assification (CRY – Space Station (Geostat	ionary)				
5. Type Re	equest ge Station Loc	ation O F	Extend Expiration	Date	O Oth	ner	
	ary Orbit Loca .9 E.L.	ation		7. Requested I	Extended Expiration	on Date	

8. Description (If the complete description does	not appear in this box,	please go to the end of th	ne form to view it in its entirety	y.)	
Intelsat License LLC herein requests grant of Special Temporary Authority for 180 days, commencing September 1, 2016, to drift Galaxy 11 (Call Sign S2253) from 60.1 E.L. to 45.0 E.L., operate temporarily at 45.0 E.L., then to drift Galaxy 11 from 45.0 E.L. to 44.9 E.L., and operate at its final location of 44.9 E.L.					
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.					
10. Name of Person Signing 11. Title of Person Signing					
Cynthia J. Grady		Regulatory Counsel, Intelsat Corporation			
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).					

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

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.



June 23, 2016

Ms. Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554

Re: Request for Special Temporary Authority to Drift and Operate Galaxy 11 at 45.0° E.L. and 44.9° E.L.; Call Sign: S2253

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests grant of Special Temporary Authority ("STA") for 180 days—commencing September 1, 2016—to drift Galaxy 11 (Call Sign S2253) from 60.1° E.L. to 45.0° E.L., operate temporarily at 45.0° E.L., then to drift Galaxy 11 from 45.0° E.L. to 44.9° E.L., and operate at its final location of 44.9° E.L. Specifically, Intelsat seeks STA to operate the Galaxy 11 satellite in the TT&C frequencies 14000.5 MHz, 14498.5 MHz, 11701 MHz, and 11702 MHz during the drift to and at 45.0° E.L. and 44.9° E.L. Intelsat also seeks STA to operate Galaxy 11 in the communications frequencies 13750 – 14500 MHz, 10950 – 11200 MHz, and 11700 – 12200 MHz at 45.0° E.L., and during the drift to, and at, 44.9° E.L.

The Galaxy 11 satellite is currently operating at 60.1° E.L. under STA² and is licensed permanently to operate at 55.6° W.L.³ Contingent on receipt of Commission authority, the satellite is expected to arrive on-station at 45.0° E.L. in mid-October 2016. Once on-station at 45.0° E.L., Intelsat will transfer a portion of the customer traffic currently carried on Intelsat 12, located at 45.0° E.L., ⁴ to Galaxy 11. Once the traffic transfer is complete Galaxy 11 will drift, while operating its communications frequencies, to its final location of 44.9° E.L. Intelsat plans in the near future to file a permanent modification application to operate Galaxy 11 at 44.9° E.L. At both locations and during the drift to 44.9° E.L., Intelsat will operate the communications payload in conformance with its coordination agreements concerning the nominal 45.0° E.L. location.

¹ Intelsat has filed this STA request, an FCC Form 159, and a \$930.00 filing fee electronically via the International Bureau's Filing System.

² See Policy Branch Information; Actions Taken, Report No. SAT-01158, File No. SAT-STA-20160210-00017 (May 13, 2016) (Public Notice).

³ See Policy Branch Information; Actions Taken, Report No. SAT-01050, File No. SAT-MOD-20121018-00184 (Oct. 31, 2014) (Public Notice).

⁴ Intelsat 12 is licensed by the United Kingdom.

Ms. Marlene H. Dortch June 23, 2016 Page 2

Further, Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Galaxy 11 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite except when Galaxy 11 is temporarily co-located with Intelsat 12 during traffic transition. Further, Intelsat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Galaxy 11 at 45.0° E.L. or 44.9° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Galaxy 11 at either location that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

Intelsat will operate Galaxy 11 in the 11.7-12.2 GHz band at the nominal 45.0° E.L against Germany's EUROPESTAR-BSS-45E filing, and the 3700-4200 MHz, 5925-6425 MHz, 10.95-11.2 GHz, 11.7-12.2 GHz, and 13.75-14.5 GHz bands against Germany's EUROPESTAR-45E-A filing, in conformance with relevant coordination agreements.

Grant of this STA request is in the public interest because it will allow Intelsat to provide additional capacity at the nominal 45.0° E.L. location. For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this STA request. Please direct any questions regarding this request to the undersigned at (703) 559-6949.

Sincerely,

Cynthia J. Grady Regulatory Counsel

apothing. Frady

Intelsat Corporation

cc: Stephen Duall Jay Whaley Cindy Spiers