SAT-AMD-20190207-00008 S2990 Space Logistics, LLC MEV-1

IB2019000271

International Bureau Approved:

File # SAT- AMD - 2019020700008

SAT-LOA-20170224-00021

Call Sign <u>\$2990</u> Grant Date <u>O6/20/19</u>

(or other identifier)

see From conditions

Term Dates See conditions

Approved by OMB 3060-0678

Date & Time Filed: Feb 7 2019 3:52:45:543PM

File Number: SAT-AMD-20190207-00008

+with conditions

Satellite Policy Branch

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM FCC Use Only FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

### **APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu-

Name of Ap	plicant		
Name:	Space Logistics, LLC	Phone Number:	703-406-5000
DBA Name:		Fax Number:	
Street:	45101 Warp Drive	E-Mail:	Joseph.Anderson@ngc.com
City:	Dulles	State:	VA
Country:	USA	Zipcode:	20166 —
Attention:	Mr. Joseph Anderson		

#### ATTACHMENT TO GRANT

Space Logistics, LLC

IBFS File No. SAT-LOA-20170224-00021 & SAT-AMD-20190207-00008

Licensee/Grantee: Call Sign: Satellite Name: Orbital Location: (required station-keeping tolerance) Administration: Nature of Service: Scope of Grant:	Sign S2405), after rendezvous, proximity operations, and	1 (IS-901) space station (Call docking (RPOD) and while at the			
Call Sign: Satellite Name: Orbital Location: (required station- keeping tolerance) Administration: Nature of Service: Scope of Grant:	S2990  MEV-1  See Scope of Grant below.  United States of America  Telemetry, tracking and command (TT&C)  Authority to: (1) conduct TT&C operations with the comb  Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90  Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
Satellite Name: Orbital Location: (required station- keeping tolerance) Administration: Nature of Service: Scope of Grant:	MEV-1 See Scope of Grant below.  United States of America Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
Orbital Location: (required station- keeping tolerance) Administration: Nature of Service: Scope of Grant:	United States of America Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
(required station-keeping tolerance)  Administration:  Nature of Service:  Scope of Grant:	United States of America Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
keeping tolerance) Administration: Nature of Service: Scope of Grant:	Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
Administration: Nature of Service: Scope of Grant:	Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
Nature of Service: Scope of Grant:	Telemetry, tracking and command (TT&C) Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	Satellite Division sined vehicle stack (CVS) of the 1 (IS-901) space station (Call docking (RPOD) and while at the			
Scope of Grant:	Authority to: (1) conduct TT&C operations with the comb Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	pined vehicle stack (CVS) of the 11 (IS-901) space station (Call docking (RPOD) and while at the			
-	Mission Extension Vehicle-1 (MEV-1) and the Intelsat 90 Sign S2405), after rendezvous, proximity operations, and	1 (IS-901) space station (Call docking (RPOD) and while at the			
	Mission Extension Vehicle-1 (MEV-1) and the Intelsat 901 (IS-901) space station (Call Sign S2405), after rendezvous, proximity operations, and docking (RPOD) and while at the 27.5° W.L. orbital location; and (2) relocate the CVS, at the end of the contractual mission, to 150 kilometers (km) above the geostationary orbit arc and undock the MEV-1 from IS-901 at that altitude.				
Previous Grants:  Authority to construct, deploy, and conduct TT&C operations with MEV-1 as it: (i) is deployed from the launch vehicle; engages in orbit-raising maneuvers and conducts various post-launch system verification tests, and moves through the geosynchronous transfer orbit (GTO); (ii) raises its orbit to the geostationary orbit (GSO) "graveyard" orbit 300 km above the GSO orbital arc; and (iii) performs RPOD with IS-901 in the graveyard orbit. <sup>2</sup>					
Service Area(s):	N/A				
Frequencies:	Telemetry, Tracking and Command: <sup>3</sup> 5925-6425 MHz (Earth-to-space) 3700-4200 MHz (space-to-Earth) 13750-14500 MHz (Earth-to-space) 11450-12250 MHz (space-to-Earth) cified herein, operations under this grant must compor				

Unless otherwise specified herein, 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. Space Logistics must prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, coordination, due diligence, and notification process for these space stations, in accordance with the ITU Radio Regulations. Space Logistics will be held responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to

<sup>&</sup>lt;sup>1</sup> The application was placed on Public Notice as accepted for filing on March 1, 2019. See Policy Branch Information, Applications Accepted for Filing, Public Notice, Report No. SAT-01374 (IBFS File No. SAT-AMD-20190207-00008).

<sup>&</sup>lt;sup>2</sup> Space Logistics' request to relocate MEV-1 with the Intelsat-901 space station (Call Sign S2405) to the orbital location of another operational Intelsat satellite, subject to Intelsat seeking modification of its authorization for Intelsat-901 to specify operations at a new location, was deferred. Action on Space Logistics' request to relocate MEV-1 to a graveyard orbit at the completion of Intelsat-901's mission and to undock MEV-1 after de-commissioning of Intelsat-901 was also deferred.

<sup>&</sup>lt;sup>3</sup> Space Logistics and Intelsat have coordinated the use of center frequencies at 3944.5 MHz (space-to-Earth), 3955.5 MHz (space-to-Earth), 6170.0 MHz (Earth-to-space), and 6180.0 MHz (Earth-to-space) for operations in connection with IS-901. See IBFS File No. SAT-AMD-20190207-00008, Narrative at 2. Space Logistics states, however, that the parties may revise the coordinated frequencies in the future and requests that it be allowed to operate within the full range of the requested TT&C frequency bands, as coordinated with Intelsat. *Id.* This grant reflects such authority.

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individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments of other administrations. See 47 CFR § 25.111(b).

- 2. At the 27.5°W.L. orbital location, MEV-1 must operate within the frequencies and technical parameters authorized to IS-901 at that location.<sup>4</sup>
- 3. Operations in the 11.45-11.7 GHz frequency band are 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.
- 4. Space Logistics' request for waiver of the United States Table of Frequency Allocations, 47 CFR § 2.106, to operate TT&C functions to earth stations in the United States and its territories and possessions using the 12.2-12.25 GHz (space-to-Earth) frequency band on a non-interference, non-protected basis, is GRANTED. Such operations shall be on a non-interference and non-protected basis within the United States and its territories and possessions located within ITU Region 2. Waiver is justified because TT&C operations in these bands are consistent with No. 5.492 of the ITU Radio Regulations and will not affect any U.S. BSS Plan entry.
- 5. Operations in the 14.47-14.5 GHz (Earth-to-space) frequency bands are subject to the terms of footnotes 5.149 and US342 to the United States Table of Frequency Allocations, 47 CFR §2.106, 5.149, US342, which urge applicants to take all practicable steps to protect the radio astronomy service from harmful interference.
- 6. 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 MEV-1 space station in the 13.75-13.8 GHz (Earth-to-space) frequency band is required to coordinate through the National Telecommunications and Information Administration (NTIA) Interdepartment Radio Advisory Committee (IRAC) Frequency Assignment Subcommittee (FAS) to minimize interference to the National Aeronautics and Space Administration (NASA) Tracking and Data Relay Satellite System, including manned space flight.
- 7. In the 13.75-14.0 GHz (Earth-to-space) frequency band, receiving space stations in the fixed satellite service must not claim protection from radiolocation transmitting stations operating in accordance with footnote US356 the United States Table of Frequency Allocations, 47 CFR § 2.106, US356.
- 8. Operations of any earth station in the United States and its possessions communicating with the MEV-1 space station in the 13.75-14.0 GHz (Earth-to-space) frequency band 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 recommended minimum and maximum equivalent isotropically radiated powers (e.i.r.p.). Operations of any earth station located outside the United States and its possessions communicating with the MEV-1 space station in the 13.75-14.0 GHz (Earth-to-space) frequency band must be consistent with No. 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.
- 9. Operations of any earth station in the United States and its possessions communicating with the MEV-1 space station in the 13.77-13.78 GHz (Earth-to-space) frequency band must comply with footnote US357 to United States Table of Frequency Allocations, 47 CFR § 2.106, US357, which specifies that the maximum e.i.r.p. density of emissions not exceed 71 dBW in any 6 MHz band within the 13.77-13.78

<sup>&</sup>lt;sup>4</sup> See IBFS File No. SAT-MOD-20190207-00009, grant stamp, dated June 20, 2019.

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GHz (Earth-to-space) frequency band for communications with a space station in geostationary-satellite orbit.<sup>5</sup> Operations of any earth station located outside the United States and its possessions communicating with the MEV-1 space station in the 13.77-13.78 GHz (Earth-to-space) frequency band must comply with No. 5.503 of the ITU Radio Regulations, which specifies a required maximum e.i.r.p. density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.

- 10. We grant Space Logistics' request to waive the provision of responses to information requests contained Schedule S related to "orbital longitude information," channel width and center frequency information, minimum and maximum saturation flux density for command beams, and the polarization of Ku-beams. Space Logistics states that limitations in the Schedule S software prevented it from providing the information via Schedule S and that it has instead provided this information in narrative format. We agree with Space Logistics that a waiver of Schedule S in this context will not undermine the purpose of Schedule S and is in the public interest.
- 11. We grant Space Logistics' request to waive the bond requirement contained in Section 25.165(a) of the Commission's rules. We also waive, on our motion, the milestone requirements contained in Section 25.164. In connection with its operations with Intelsat-901, the combined Intelsat-901/MEV-1 space stations will operate with frequencies already authorized for IS-901. Thus, this grant does not implicate the warehousing concerns that the Commission's milestone and bond requirements are designed to address. Accordingly, waiver will not undermine the purpose of these rules.
- 12. The license term for the space station is 15 years and will begin on the date that Space Logistics certifies to the Commission that MEV-1 has been successfully launched. Space Logistics must file its certification of commencement of operation with the Commission within five business days of MEV-1 being launched.

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 C.F.R. § 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	June 20, 2019	
Date:		
Term Dates	From: see conditions	To: see conditions
Approved:	1, 10 1	
	Stepher Lew	
	Migher Venu	
	5, 1, 1, 5, 11	
	Stephen J Duall	
	Chief, Satellite Policy Branch	

<sup>&</sup>lt;sup>5</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.

<sup>&</sup>lt;sup>6</sup> IBFS File No. SAT-LOA-20170224-00021, Narrative at 12-13.

<sup>&</sup>lt;sup>7</sup> Id. at 13 and Technical Appendix.

9-16. Name of Contact Representative

Name:

Mr. Tony Lin

Phone Number:

202-637-5795

Company: Hogan Lovells US LLP

Fax Number:

Street:

555 Thirteenth Street NW

E-Mail:

Tony.Lin@hoganlovells.com

City:

Washington

State:

DC

**Country:** 

USA

Zipcode:

20004 -

**Attention:** Mr. Tony Lin

Relationship:

Legal Counsel

### **CLASSIFICATION OF FILING**

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- al. Earth Station
- a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

- a b3. Amendment to a Pending Application
- o b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- 6 b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non-U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

- 6 b13. Amendment to a Pending Database Entry Application
- o b14. Modification of Database Entry

<ul> <li>17c. Is a fee submitted with this applicate</li> <li>If Yes, complete and attach FCC Form</li> <li>Governmental Entity</li> <li>Other(please explain):</li> </ul>	159. If No, indicate reason for fee exemption (see	ee 47 C.F.R.Section 1.1114).
Fee Classification CWY – Space Station A	Amendment(Geostationary)	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending apmodification please enter only the file number:	oplication enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
S2990	02/24/2017	SATLOA2017022400021

# TYPE OF SERVICE

# TYPE OF STATION

25. CLASS OF STATION: Choose the button n	ext to the class of station that applies. Choose only one.
a. Fixed Earth Station	
o b. Temporary-Fixed Earth Station	
o c. 12/14 GHz VSAT Network	
o d. Mobile Earth Station	
e. Geostationary Space Station	
of. Non-Geostationary Space Station	
og. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
Transmit/Receive Transmit-Only	Receive—Only N/A
"For Space Station applications, select N/A."	

## PURPOSE OF MODIFICATION

27. The purpos	se of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
□ a a	uthorization to add new emission designator and related service
<b>□</b> b — a	authorization to change emission designator and related service
☐ c a	authorization to increase EIRP and EIRP density
<b>□</b> d a	authorization to replace antenna
e a	authorization to add antenna
<b>∏</b> f a	authorization to relocate fixed station
<b>–</b> g – s	authorization to change frequency(ies)
□h-	authorization to add frequency
<b>i</b> a	authorization to add Points of Communication (satellites & Double Countries)
<b>—</b> j — a	uthorization to change Points of Communication (satellites & amp; countries)
☐ k a	authorization for facilities for which environmental assessment and
radiation hazai	rd reporting is required
🗶   a	authorization to change orbit location
m	authorization to perform fleet management
n a	authorization to extend milestones
0	Other (Please specify)

## **ENVIRONMENTAL POLICY**

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	0	Yes		No		
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes		No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	•	No	0	N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one—fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	0	No	0	N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.						
BASIC QUALIFICATIONS						
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?  If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.		0	Yes	•	) N	Э
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.		0	Yes	•	) N	0

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes Supp Response	No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	O Yes	No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. 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	O No
42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	<b>⊚</b> No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station?	/hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description)	on does not a	ppear in this
box. please go to the end of the form to view it in its entirety.)		
Applicant requests authority to operate MEV-1 at the 27.5W orbital slot.		
Narrative		

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	<b>⊚</b> A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O <sub>B</sub>
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	<b>o</b> C

### **CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)	
O Individual	
O Unincorporated Association	
O Partnership	
O Corporation	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Mr. Thomas L. Wilson	President, Space Logistics, LLC
>	5
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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