

S2347 SAT-STA-20170816-00119 IB2017002285
SES Americom, Inc.
AMC-6



File # SAT-STA-20170816-0019
Call Sign S2347 Grant Date 08/24/17
(or other identifier)
Term Dates period of
From 08/30/17 To: 60 days
Approved: Stephen J. Duall

Approved by OMB
3060-0678

Date & Time Filed: Aug 16 2017 3:59:54:110PM
File Number: SAT-STA-20170816-00119
Callsign:

Stephen J. Duall
Chief, Satellite Policy Branch

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:

Request to Extend Special Temporary Authority to Operate AMC-6 (S2347) at 83 W.L. Pending Modification Application

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7143
DBA Name:		Fax Number:	202-478-7111
Street:	1129 20th Street NW Suite 1000	E-Mail:	petra.vorwig@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	Ms Petra A Vorwig		

ATTACHMENT TO GRANT
SES Americom, Inc.
IBFS File No. SAT-STA-20170816-00119

IBFS File No(s):	SAT-STA-20170816-00119	GRANTED – With Conditions  International Bureau Satellite Division
Licensee/Grantee:	SES Americom, Inc.	
Call Sign:	S2347	
Satellite Name:	AMC-6	
Orbital Location: (required station-keeping tolerance)	83.0° W.L. (+/- 0.05 degrees east/west station keeping)	
Administration:	United States of America ¹	
Nature of Service:	Fixed-Satellite Service; Direct-to-home (DTH) ² ; Telemetry, Tracking, and Command (TT&C)	
Scope of Grant:	Special temporary authority for a period of 60 days to continue to provide fixed-satellite service from 83.0° W.L. in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth), 13.75-14.0 GHz, (Earth-to-space), and 14.0-14.5 GHz (Earth-to-space) frequency bands, including DTH in the 11.7-12.2 GHz (space-to-Earth) frequency band.	
Service Area(s):	See IBFS File No. SAT-STA-20170623-00096, Narrative at 5-16.	
Frequencies:	3700-4200 MHz (space-to-Earth) 5925-6425 MHz (Earth-to-space) 11.45-11.7 GHz (space-to-Earth) 11.7-12.2 GHz (space-to-Earth) 13.75-14.0 GHz (Earth-to-space) 14.0-14.5 GHz (Earth-to-space) Telemetry, Tracking & Command center frequencies: 3700.5 MHz, 4199.5 MHz, 11.702 GHz, and 12.198 GHz (space-to-Earth) 6423.5 MHz (Earth-to-space)	
<p>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:</p> <ol style="list-style-type: none"> 1. Operations pursuant to this special temporary authority must be on an unprotected and non-harmful interference basis, i.e., the AMC-6 space station must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, SES Americom must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event. 2. While at the 83.0° W.L. orbital location, SES Americom must maintain the AMC-6 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees. 3. In connection with the provision of service in any particular country, SES Americom is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country. 4. SES Americom must operate AMC-6 at the 83.0° W.L. orbital location in compliance with all existing or 		

¹ SES Americom states that it will operate AMC-6 in the extended Ku-band (11.45-11.7 GHz and 13.75-14.0 GHz) frequency bands under ITU network filing LUX-G8-44 held by the Luxembourg Administration. IBFS File No. SAT-STA-20170623-00096.

² For purposes of this condition, DTH means the services subject to section 25.701 of the Commission's rules. 47 CFR § 25.701.

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future coordination agreements for this location. In the absence of a coordination agreement, such communications must comply with applicable provisions of the ITU Radio Regulations as the Commission cannot guarantee the success of the required coordinations.

5. The operations of AMC-6 and associated earth stations must comport with the applicable uplink and downlink limits in 47 CFR § 25.140(a)(3) of the Commission's rules, unless SES Americom coordinates any non-conforming operations with the operations of U.S.-licensed geostationary orbit space stations within 6 degrees of the 83.0° W.L. orbital location. SES Americom must also comport with the maximum power limits indicated in existing or future coordination agreements at 83.0° W.L. Non-conforming operation must also be coordinated with respect to those operations of non-U.S.-licensed space stations within 6 degrees of 83.0° W.L. involving approved communications with U.S.-licensed earth stations.
6. SES Americom's use of the 11.45-11.7 GHz (space-to-Earth) frequency band 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.
7. SES Americom's operation of the AMC-6 space station in the 11.45-11.7 GHz (space-to-Earth) frequency band is limited to international operations in accordance with footnote NG52 to the United States Table of Frequency Allocations. 47 CFR § 2.106, NG52.
8. Pursuant to footnote US342 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US342, services operating in the 14.47-14.5 GHz band shall take all practicable steps to protect the radio astronomy service from harmful interference.
9. Pursuant to footnote US337 to 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 AMC-6 space station in the 13.75-13.8 GHz (Earth-to-space) frequency band 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.
10. Operations of any earth station in the United States and its possessions communicating with the AMC-6 space station in the 13.75-14.0 GHz band (Earth-to-space) must comply with footnote US356 to United States Table of Frequency Allocations, 47 CFR § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and the equivalent isotropically radiated powers (e.i.r.p.) 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 AMC-6 space station in the 13.75-14.0 GHz band (Earth-to-space) frequency band are subject to 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.
11. Pursuant to footnote US356 to the United States Table of Frequency Allocations, 47 CFR § 2.106, US356, in the 13.75-14.0 GHz band (Earth-to-space), receiving space stations in the Fixed-Satellite Service must not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations.
12. Operations of any earth station in the United States and its possessions communicating with the AMC-6 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 that a required maximum e.i.r.p. 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 AMC-6 space station in the 13.77-13.78 GHz

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band (Earth-to-space) are subject to footnote 5.503 to 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.

13. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES Americom'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:	August 24, 2017
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Term Dates	From: August 30, 2017	To: period of 60 days
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Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Karis Hastings	Phone Number:	202-599-0975
Company:	SatCom Law LLC	Fax Number:	
Street:	1317 F St, NW Suite 400	E-Mail:	karis@satcomlaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004 -
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 SATMOD2017062800102 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
83.0 W.L

7. Requested Extended Expiration Date
2017-10-28 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.)

SES Americom, Inc. hereby respectfully requests to extend the special temporary authority granted in File No. SAT-STA-20170623-00096 for an additional 60 days to permit the continued operation of the AMC-6 C/Ku-band fixed-satellite space station (S2347) at 83.0 W.L. to offer a long-term solution for customers whose service at 83 W.L. was interrupted

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
Petra A. Vorwig

11. Title of Person Signing
Senior Legal & Regulatory Counsel

12. Please supply any need attachments.

Attachment 1:

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.

8. Description

SES Americom, Inc. hereby respectfully requests to extend the special temporary authority granted in File No. SAT-STA-20170623-00096 for an additional 60 days to permit the continued operation of the AMC-6 C/Ku-band fixed-satellite space station (S2347) at 83.0 W.L. to offer a long-term solution for customers whose service at 83 W.L. was interrupted by the recent AMC-9 anomaly and pending action on an application to modify the AMC-6 license (File No. SAT-MOD-20170628-00102).