

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
E970336 STA for QuetzSat 1 IOT and TTC at 77WL

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7137
DBA Name:		Fax Number:	202-478-7101
Street:	1129 20th Street NW Suite 1000	E-Mail:	daniel.mah@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	Daniel C.H. Mah		



File # SES-STA-20130109-00027
E970336
Call Sign E970336 Grant Date 1-16-13
(or other identifier)
Term Dates
From 1-18-13 To: 3-19-13
Approved: Paul E. Blach

Applicant: SES Americom Inc.
Call Sign: E970336
File No.: SES-STA-20130109-00027
Special Temporary Authority (STA)

SES Americom Inc. (SES) is granted, under the following conditions, STA for sixty days, from January 18, 2013 to March 19, 2013, to operate the earth station of call sign E970336 with the U.K. registered and licensed QuetzSat-1 spacecraft. The earth station will be used to perform additional in-orbit testing ("IOT") of the QuetzSat-1 spacecraft following its arrival at 77.05° W.L. and to continue performing TT&C for the satellite at that location in the 17.3-17.8 GHz (Earth-to-space) and 12.2-12.7 GHz (space-to-Earth) frequency bands.

1. This authorization is limited to operations within the parameters defined in those specified in the Appendix A of the application narrative.
2. All operations shall be on an unprotected and non-harmful interference basis. SES, E970336, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
3. In the event that any harmful interference is caused as a result of operations of the Quetzsat-1 satellite, SES shall cease operations immediately upon notification of such an event, and shall inform the Commission immediately, in writing, of the event.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES's own risk.


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(or other identifier)

Term Dates
From: 1-18-13 **To:** 3-19-13

Approved: [Signature]

GRANTED
International Bureau



2. Contact

Name:	Karis A. Hastings	Phone Number:	202-599-0975
Company:	SatCom Law LLC	Fax Number:	
Street:	1317 F St. N.W. 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 SESMFS2012112801044 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 CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

- Use Prior to Grant Change Station Location Other

6. Requested Use Prior Date
01/18/2013

7. City Moorpark

8. Latitude
(dd mm ss.s h) 34 19 31.0 N

9. State CA	10. Longitude (dd mm ss.s h) 118 59 41.0 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Attachment 3:	
12. 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.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">SES Americom, Inc. requests special temporary authority for 60 days beginning January 18, 2013, to use earth station E970336 to communicate with the foreign-licensed QuetzSat-1 spacecraft at 77.05 deg. W.L. The earth station will be used to perform additional in-orbit testing and tracking, telemetry and command functions.</div>	
13. 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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Daniel C.H. Mah	15. Title of Person Signing Regulatory Counsel
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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testing of QuetzSat-1 at 67.1° W.L. after it was successfully launched on September 29, 2011.⁴ In late 2012, SES received instructions from its customer, EchoStar 77 Corporation (“EchoStar”), to relocate the satellite to 77.05° W.L. to provide DBS service to the United States and Mexico under a concession granted by Mexico to QuetzSat, S de R.L. de C.V., an affiliate of SES. EchoStar (and its affiliates) have already been granted Commission authority to provide DBS service to the United States using the QuetzSat-1 satellite at 77.05° W.L.⁵

The additional IOT proposed here will verify the configuration of QuetzSat-1 described in EchoStar’s application to use the satellite to provide service in the United States at 77.05° W.L. The additional IOT will involve verifying the performance characteristics and antenna patterns of this configuration, and include antenna mapping and gain transfer tests. Some tests will involve transmitting saturating CW carriers to the satellite in the DBS bands for short periods of time.

The proposed operations will not adversely affect adjacent satellite operators. Coordination of the additional IOT is underway with adjacent DBS satellite operators. The nearest operational DBS satellites are the Telesat Canada spacecraft – Nimiq 5 and Nimiq 4 – at 72.7° W.L. and 82° W.L., respectively. SES expects to be able to successfully coordinate the proposed IOT with the operations of both satellites. SES notes that EchoStar (or an affiliate thereof) is the sole customer on QuetzSat-1 and the sole customer of all of the DBS capacity on Nimiq 5 at 72.7° W.L. Accordingly, SES expects coordination of IOT to be completed before testing begins.

⁴ See File No. SES-STA-20110729-00873, grant-stamped Sept. 12, 2011 (“E970336 STA”). The authority was extended in File No. SES-STA-20110928-01151, grant-stamped Oct. 24, 2011.

⁵ See File No. SES-MFS-20110707-00793, Call Sign E050196, granted Nov. 10, 2011.

As with the original E970336 STA, SES will accept interference from any regularly authorized network and will terminate operations if SES is notified that such a network is experiencing harmful interference.⁶

Grant of this request is in the public interest. The additional QuetzSat-1 testing will verify the configuration of QuetzSat-1 at 77.05° W.L. on which U.S. market access was previously granted. In addition, the requested extension of TT&C authority will facilitate the continued safe operation of QuetzSat-1 pending the addition of QuetzSat-1 to the E970336 license as a point of communication.

SES hereby certifies that no party to this application is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862.

For the foregoing reasons, SES respectfully requests special temporary authority to communicate with QuetzSat-1 for a period of up to 60 days in order to perform additional in-orbit testing and conduct TT&C as described herein.

Respectfully submitted,
SES AMERICOM, INC.

By: /s/ Daniel C.H. Mah

Of Counsel
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Dated: January 9, 2012

⁶ See *id.*

ATTACHMENT A
E970336 Technical Information

TT&C Emissions

Emission Designator: 1M00G7W
Max uplink EIRP: 86.5 dBW
Max uplink EIRP Density: 62.5 dBW/4kHz
Tx Frequency Range: 17300-17800 MHz
Rx Frequency Range: 12200-12700 MHz
Polarization: Left and Right Circular

IOT Emissions

Satellite Beacon Frequencies: 12698.5 MHz and 12692 MHz
Emission Designator: N0N
Max satellite EIRP: 25 dBW
Polarization: Right Hand Circular

Emission Designator: 1K00K3N
Max uplink EIRP: 86.5 dBW
Max uplink EIRP Density: 92.5 dBW/4kHz
Tx Frequency Range: 17300-17800 MHz
Rx Frequency Range: 12200-12700 MHz
Polarization: Left and Right Circular

Emission Designator: N0N
Max uplink EIRP: 86.5 dBW
Max uplink EIRP Density: 92.5 dBW/4kHz
Tx Frequency Range: 17300-17800 MHz
Rx Frequency Range: 12200-12700 MHz
Polarization: Left and Right Circular

Emission Designator: 24M0G7W
Max uplink EIRP: 86.5 dBW
Max uplink EIRP Density: 48.7 dBW/4kHz
Tx Frequency Range: 17300-17800 MHz
Rx Frequency Range: 12200-12700 MHz
Polarization: Left and Right Circular

Emission Designator: 24M0F3D
Max uplink EIRP: 86.5 dBW
Max uplink EIRP Density: 48.7 dBW/4kHz
Tx Frequency Range: 17300-17800 MHz
Rx Frequency Range: 12200-12700 MHz
Polarization: Left and Right Circular