

E970336 SES-STA-20110729-00873 IB2011003726
SES Americom, Inc.

Approved by OMB
3060-0678

H STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA for E970336 to perform TT&C and IOT for QuetzSat-1

1. Applicant

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SES-STA-20110729-00873
E970336
Call Sign E970336 Grant Date 9-12-11
(or other identifier)
From 9-12-11 Term Dates 10-12-11
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GRANTED
International Bureau

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Attention:		Relationship:	

(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

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

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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.

Full technical details regarding QuetzSat-1, including a completed Schedule S and a narrative technical appendix, are already on file with the Commission. Specifically, DISH Operating L.L.C. (“DISH”), which proposes to use QuetzSat-1 to provide DBS service to households in the U.S. and Mexico, has filed the required technical information regarding QuetzSat-1 in support of its application to modify its blanket earth station license to add QuetzSat-1 as a point of communications.² SES Americom hereby incorporates those materials by reference.

The DISH QuetzSat-1 Application also includes a showing pursuant to the Commission’s *DISCO II* framework³ applicable to use of foreign-licensed spacecraft to serve the United States.⁴ The instant STA request, however, does not seek authority to use QuetzSat-1 to offer service to U.S. customers. Instead, SES Americom seeks to use E970336 only for TT&C operations and to conduct IOT. Use of a U.S.-licensed earth station to communicate with a foreign-licensed satellite for TT&C and IOT purposes only does not raise the types of market access and competitive parity issues underlying the *DISCO II* framework. However, to the extent that the Commission believes that a *DISCO II* showing is required here, SES Americom incorporates by reference the showing provided in the DISH QuetzSat-1 Application.

Transmissions associated with TT&C and IOT of QuetzSat-1 will not cause harmful interference to the operations of any other spacecraft due to orbital angular separation, frequency diversity and/or geographically diverse beam coverage. SES Americom, on behalf of

² See DISH Operating L.L.C., File No. SES-MFS-20110707-00792 (Call Sign E090020) (“DISH QuetzSat-1 Application”).

³ See *Amendment of the Commission’s Policies to Allow Non-U.S. Licensed Space Stations Providing Domestic and International Service in the United States*, 12 FCC Rcd 24094, 24170-72 (1997) (“*DISCO II*”).

⁴ See DISH QuetzSat-1 Application, Narrative at 6-7.

QuetzSat, has also successfully coordinated the proposed TT&C and IOT operations with potentially affected DBS operators consistent with industry practice.⁵

Grant of SES Americom's request to test QuetzSat-1 at the 67.1° W.L. orbital position is in the public interest. By testing QuetzSat-1 at this location, SES Americom will minimize the risk of interference and be able to ensure that QuetzSat-1 is fully operational before the satellite commences providing commercial services.

SES Americom seeks authority to communicate with QuetzSat-1 for purposes of TT&C and IOT subject to the following (or similar) conditions:

- (a) SES Americom will coordinate its drift and test operations with all potentially affected operating satellite networks.
- (b) During the drift of QuetzSat-1 to 67.1° W.L., communications with QuetzSat-1 will be in the designated TT&C frequencies only.
- (c) No harmful interference will be caused to any lawfully operating satellite network or radio communication system and SES Americom's operations will cease immediately upon notification of harmful interference. Further, SES Americom shall notify the Commission in writing that it has received such a notification within 14 days of receipt.
- (d) SES Americom will accept interference from any lawfully operating satellite network or radio communication system.
- (e) Testing authority is limited to the DBS frequencies at the 67.1° W.L. orbital location.
- (f) Communications with the QuetzSat-1 space station at 67.1° W.L. are limited to TT&C and in-orbit testing, and shall not include any provision of commercial services.
- (g) The authorization is subject to change in any of its terms or cancellation in its entirety at any time upon reasonable notice, but without hearing, if in the opinion of the Commission, circumstances require.
- (h) The temporary authority will commence 12 days after the QuetzSat-1 launch and terminate 30 days from that date.

⁵ Specifically, SES Americom has executed coordination agreements with DIRECTV, Telesat, and EchoStar in connection with the planned TT&C and IOT of QuetzSat-1.

SES Americom 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 Americom respectfully requests special temporary authority to communicate with QuetzSat-1 for a period of up to 30 days, commencing 12 days after the launch of QuetzSat-1, in order to provide TT&C and perform in-orbit testing as described herein. Grant of the requested authority will permit testing of the spacecraft prior to commercial operation.

Respectfully submitted,
SES AMERICOM, INC.

By: /s/ Daniel C.H. Mah

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Dated: July 29, 2011

ATTACHMENT 1

This attachment provides information in support of the application of SES Americom for earth station special temporary authority in connection with: (1) the proposed in-orbit testing (“IOT”) of the QuetzSat-1 spacecraft at 67.1° W.L.; and (2) Tracking, Telemetry, and Command (“TT&C”) to position QuetzSat-1 at 67.1° W.L.

The proposed IOT of QuetzSat-1 will involve verifying the performance characteristics of the DBS transponders and antenna patterns and will utilize in some cases saturating CW carriers in that band. The IOT will include the following tests: satellite power amplifier transfer characteristics; satellite transponder characteristics; antenna mapping; and EIRP and SFD, amplitude linearity, group delay amplitude response, polarization isolation, and attenuator checks. The earth station utilized for the performance of the IOT will not exceed the maximum output EIRP density specified in its license. The earth station has been coordinated for an arc that includes 67.1° W.L.

E970336 Technical Information

TT&C Emissions

Emission Designator: 1M00G7W

Max EIRP: 86.5 dBW

Max 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

Emission Designator: 1K00K3N

Max EIRP: 86.5 dBW

Max 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: NON

Max EIRP: 86.5 dBW

Max 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: 36M0G2F

Max EIRP: 86.5 dBW

Max EIRP Density: 47.0 dBW/4kHz

Tx Frequency Range: 17300-17800 MHz

Rx Frequency Range: 12200-12700 MHz

Polarization: Left and Right Circular

Emission Designator: 36M0F3D

Max EIRP: 86.5 dBW

Max EIRP Density: 47.0 dBW/4kHz

Tx Frequency Range: 17300-17800 MHz

Rx Frequency Range: 12200-12700 MHz

Polarization: Left and Right Circular