

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
KB27 STA Request

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7137
DBA Name:		Fax Number:	202-478-7101
Street:	2001 L Street, NW Suite 800	E-Mail:	daniel.mah@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	Daniel C.H. Mah		

with conditions



File # SES-STA-20100408-00420

Call Sign KB27 Grant Date 4/22/2010
(or other identifier)

Term Dates
From 4/24/2010 To: 5/24/2010

Approved: [Signature]

Shahnaaz Ghavame


ATTACHMENT
April 23, 2010

SES Americom, Inc.'s request for Special Temporary Authority is GRANTED in accordance with the terms, conditions, and technical specifications set forth in SES AMERICOM, INC.'s application and supplements, the conditions set forth in this Attachment, and the Commission's rules.

- 1) SES WORLD SKIES will notify the Air Force Frequency Management Agency (robert.lando@pentagon.af.mil, 703-428-1513) 24 hours prior to the beginning of IOT operations and after IOT operations have been completed.
- 2) 1. SES Americom, Inc. shall ensure that a 24/7 POC Dave Westlund, (805) 217-4415, dave.westlund@ses.com, be available during in-orbit testing.
- 3) All operation shall be on an unprotected and non-harmful interference basis, *i.e.*, SES AMERICOM, INC. shall not cause harmful interference to, and shall not claim protection from interference caused to it, by any other lawfully operating radiocommunication system. In the event of any harmful interference as a result of operations pursuant to this STA, SES AMERICOM, INC. shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.

With Conditions



File # SES-STA-20100408-00420
Call Sign KB2N Grant Date 4/21/2010
(or other identifier)
From 4/24/2010 To: 5/24/2010
Approved: 

Shehnaaz Charvami

2. Contact

Name:	Karis A. Hastings, Esq.	Phone Number:	202-637-5767
Company:	Hogan & Hartson LLP	Fax Number:	202-637-5910
Street:	555 Thirteenth Street, NW	E-Mail:	kahastings@hhlaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20004 -1120
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

7. City

8. Latitude
(dd mm ss.s h) 0 0 0.0

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0
11. Please supply any need attachments. Attachment 1: Attachment 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. seeks special temporary authority for operation of earth station KB27 in connection with the in-orbit testing and TT&C of the SES-1 space station, call sign S2807.</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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Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of Application by)
)
SES AMERICOM, INC.) Call Signs S2807, E920698, E7169,
) E090060, KA288, KB27, E040303
For Special Temporary Authority to)
Test SES-1 at 142.5° W.L.)

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, SES Americom, Inc. (doing business as “SES WORLD SKIES”),¹ respectfully requests space station and earth station special temporary authority (“STA”) for a period of up to 30 days, commencing on or about April 24, 2010, to permit SES WORLD SKIES to perform in-orbit testing (“IOT”) of its SES-1 spacecraft at 142.5° W.L. Specifically, SES WORLD SKIES requests: (1) authority to perform Tracking, Telemetry, Command, and Monitoring (“TTC&M”) in order to position SES-1 at 142.5° W.L.; (2) authority to operate the TTC&M and communications payloads of SES-1 at 142.5° W.L. during IOT; and (3) authority to perform TTC&M in order to drift SES-1 to 101° W.L. following the completion of IOT. The call signs of the space station and earth stations for which STA is requested are listed in the caption above.²

SES WORLD SKIES has a pending application for a Commission license to operate SES-1 at 101° W.L. in the conventional C- and Ku-bands to replace SES WORLD

¹ On September 7, 2009, SES S.A. announced that the newly integrated operations of its two indirect subsidiaries, New Skies Satellites B.V. and SES Americom would be conducted under a single brand name, SES WORLD SKIES. The new brand name does not affect the underlying legal entities that hold Commission authorizations or U.S. market access rights.

² The TTC&M frequencies for the SES-1 satellite are at the edges of the conventional C- and Ku-band. See SES Americom, Inc., File Nos. SAT-RPL-20100120-00014 (Call Sign S2807) (“SES-1 Application”), Technical Narrative at 6.

SKIES' AMC-4 spacecraft³ and recently amended the application to provide technical information concerning the satellite's 17/24 GHz Broadcasting Satellite Service ("BSS") payload.⁴ SES WORLD SKIES requests authority to test the C-band, Ku-band, and 17/24 GHz BSS band payloads of SES-1 at 142.5° W.L. As discussed below, temporary operation of SES-1 at 142.5° W.L. rather than 101° W.L. will permit testing to occur without disruption to existing customers at 101° W.L. and will not adversely affect the operation of any adjacent satellites. SES WORLD SKIES seeks expedited action on this request because SES-1 is scheduled for launch on or about April 24, 2010.

Grant of STAs Will Serve the Public Interest. Grant of SES WORLD SKIES' request to test SES-1 at the 142.5° W.L. orbital position is in the public interest. By testing SES-1 at this location, SES WORLD SKIES will minimize the risk of interference and be able to ensure that SES-1 is fully operational at the time it arrives at its final orbital location, thereby avoiding any interruption in service that otherwise might be associated with spacecraft testing.

No Harmful Interference to Other Spacecraft. The testing of SES-1 at 142.5° W.L. will not cause harmful interference to the operations of any other spacecraft. No spacecraft with Ku-band operations currently operates within six degrees on either side of the 142.5° W.L. position. The closest satellite operating in a portion of the C-band frequencies is Inmarsat 2 F1 at 142° W.L. The in-orbit testing of SES-1 at 142.5° W.L. has been coordinated

³ See SES-1 Application. The "conventional C-band" refers to the 3700-4200 MHz and 5925-6425 MHz frequencies. The "conventional Ku-band" refers to the 11.7-12.2 GHz and 14.0-14.5 GHz frequencies.

⁴ See SES Americom, Inc., File No. SAT-AMD-20100309-00040 ("SES-1 Amendment"). The "17/24 GHz BSS" refers to the 17.3-17.8 GHz and 24.75-25.25 GHz frequencies. SES WORLD SKIES is not requesting authority to operate the 17/24 GHz BSS payload of SES-1 at 101° W.L. (see SES-1 Application, Narrative at 1 n.2), but requests authority herein to perform in-orbit testing of the payload at 142.5° W.L. to verify its performance characteristics.

with Immarsat. The next closest C-band spacecraft are SES WORLD SKIES' AMC-7 and AMC-8 satellites, at 137° W.L. and 139° W.L., respectively. SES WORLD SKIES will manage the operations of its spacecraft to ensure that no harmful interference occurs. With respect to other 17/24 GHz BSS spacecraft, the only currently in-orbit spacecraft with a payload in the 17.3-17.7 GHz frequencies – DIRECTV RB-2A – will be located nearly forty degrees away from the requested IOT location at 102.765° W.L.⁵ As a result, there should be no impact on that spacecraft. Moreover, in-orbit testing of the 17/24 GHz payload will not result in a power flux density at the earth's surface in the 17.3-17.7 GHz band that exceeds the applicable limits in Section 25.208(w) of the Commission's rules (*see Attachment 1*).

There is no material risk of space-path interference to Direct Broadcast Satellite (“DBS”) spacecraft using the 17.3-17.8 GHz band for feeder links. Although the Commission has not yet finalized rules regarding the appropriate spacing between DBS and 17/24 GHz BSS satellites, there is consensus among the commenting parties that an orbital separation of no more than a few tenths of a degree will suffice to prevent interference.⁶ The U.S. DBS orbital location that is closest to the proposed IOT location is more than five degrees away at 148° W.L., and that location is not currently occupied by an operational DBS spacecraft. In fact, the nearest operational DBS spacecraft is the Canadian-licensed Ciel 2 satellite at 129° W.L. – over thirteen degrees away.

⁵ See *DIRECTV Enterprises, LLC*, Stamp Grant, File No. SAT-LOA-20090807-00085, Call Sign S2796 (granted Jan. 8, 2010).

⁶ See *Establishment of Policies and Service Rules for the Broadcasting-Satellite Service at the 17.3-17.7 GHz Frequency Band and at the 17.7-17.8 GHz Frequency Band Internationally, and at the 24.75-25.25 GHz Frequency Band for Fixed Satellite Services Providing Feeder Links to the Broadcasting-Satellite Service and for the Satellite Services Operating Bi-directionally in the 17.3-17.8 GHz Frequency Band*, Report and Order and Further Notice of Proposed Rulemaking, FCC 07-76, 22 FCC Rcd 8842 at ¶ 186 (2007) (“*Reverse Band Order*”) (commenters support minimum separation of 0.2-0.3 degrees between DBS and 17/24 GHz BSS satellites).

No Harmful Interference to Terrestrial Services. The SES-1 TT&C operations during the proposed drift and station-keeping maneuvers will not cause harmful interference to any co-primary terrestrial services. The C-band earth stations to be used in connection with the drift and in-orbit testing of the satellite (call signs E7169, E090060, KA288 and KB27) have been coordinated to communicate with satellites in the 101° to 142.5° W.L. orbital arc using the C-band frequencies. These earth stations will not exceed the maximum output EIRP density specified in their respective licenses. The TT&C operations will not result in a power flux density at the earth's surface that exceeds the applicable limits in Section 25.208(a) of the Commission's rules (*see Attachment 1*).

The proposed SES-1 IOT operations in the C-band are also not expected to cause harmful interference to co-primary terrestrial services. Some IOT procedures will require the satellite transponders to intermittently transmit a CW carrier for a short duration of time (less than five minutes) over a period of a couple of days. During such transmissions, the maximum satellite downlink PFD density is expected to exceed the PFD limits specified in Section 25.208(a), but only for the minimal amounts of time during IOT (*see Attachment 1*).

Testing of SES-1 will not cause harmful interference to terrestrial services in the 17.7-17.8 GHz and 24 GHz bands.⁷ With respect to terrestrial licensees in the 17.7-17.8 GHz band, the power flux density at the earth's surface generated by the in-orbit testing of SES-1 will not exceed the limit of -115 dBW/m²/MHz in Section 25.208(c) of the Commission's rules.⁸

⁷ Earth station E040303 is located well outside of the exclusion zones listed in footnote US402 of the U.S. Table of Allocations for operations in the 17.6-17.7 GHz and 17.375-17.475 GHz frequencies. *See* 47 C.F.R. § 2.106.

⁸ SES WORLD SKIES recognizes that the 17.7-17.8 GHz band is allocated to BSS internationally but not within the United States. *See* 47 C.F.R. § 2.106; *Reverse Band Order* at ¶ 55. SES WORLD SKIES respectfully requests a temporary waiver of the U.S. Table of Allocations for purposes of the in-orbit testing of the SES-1 spacecraft. The Commission has in

With respect to terrestrial services in the 24 GHz band, SES WORLD SKIES notes that the earth station it proposes to use for testing, E040303, is located in the Los Angeles-Riverside-Orange County Economic Area (BEA160). A search of the FCC ULS database indicates that there is no 24 GHz licensee for the entire BEA160 Economic Area. However, there are a number of DEMS licenses held by Fibertower Spectrum Holdings LLC authorized to operate in Standard Metropolitan Statistical Areas (SMSA) located within BEA160, and earth station E040303 lies within the SMSA for the WPNH293 DEMS license (*see Attachment 2*).⁹ SES WORLD SKIES is in the process of coordinating the use of the E040303 earth station for IOT within the WPNH293 DEMS license and to the neighboring DEMS licenses (WPNH 292, WMMT 306, WMMT 314, WMMT 337), and will notify the Commission of the outcome of that coordination shortly. SES WORLD SKIES's assessment, subject to coordination confirmation, is that harmful interference to DEMS operations within WPNH293 or its neighboring call signs is not likely given the specific azimuth, high elevation angle, proximity and narrow beamwidth of the proposed IOT operations (*see Attachment 3*). The operation of E040303 for IOT is expected to have no impact on DEMS operations in adjacent SMSAs, as the predicted power flux

the past granted waivers of the U.S. Table of Allocations where such waiver would not result in harmful interference to lawful users of the band. *See, e.g., Northrop Grumman Space & Mission Systems Corporation*, 24 FCC Rcd 2330 (IB 2009) at ¶ 90. In this case, SES WORLD SKIES's IOT operations will not exceed the power flux density limits established by the Commission to protect terrestrial licensees in the 17.7-17.8 GHz band. As a result, terrestrial operations in this band will be fully protected.

⁹ To the extent that the Commission concludes that 47 C.F.R. § 25.203(d) applies in these circumstances, SES WORLD SKIES respectfully requests a temporary waiver of the rule for purposes of the in-orbit testing of the SES-1 spacecraft. A waiver of the Commission's rules is warranted when a waiver would not undermine the purpose of the rule. *See, e.g., PanAmSat Licensee Corp.*, 17 FCC Rcd 10483, 10492 (Sat. Div. 2002). The purpose of the rule in question is to protect 24 GHz licensees that are authorized to operate within an entire Economic Area from interference from earth stations transmitting in the 24.25-24.75 GHz band. *See Reverse Band Order* at ¶ 127. In this case, there is no such EA-wide licensee and harmful interference is unlikely to result for the reasons stated herein.

density at the nearest SMSA boundaries is calculated well below the -114 dBW/m²/MHz coordination trigger designed to protect 24 GHz Economic Area licensees (*see Attachment 2*).¹⁰ To ensure Fibertower's DEMS operations are protected, SES WORLD SKIES will provide Fibertower with advance notice of its proposed IOT and provide a 24/7 point of contact during IOT.

In addition, and in any event, SES WORLD SKIES will conduct all IOT and drift operations on a non-harmful interference basis, and will cease transmissions promptly in the event any harmful interference is caused by such operations.

Radiolocation and Radionavigation. SES WORLD SKIES notes that there are Federal Government radiolocation systems allocated on a primary basis in the 15.7-17.3 GHz band and on a secondary basis in the 17.3-17.7 GHz band.¹¹ For the short duration of the proposed IOT of the 17/24 GHz BSS payload on SES-1, SES WORLD SKIES will accept the potential for interference caused to its communications links from such radiolocation systems, and will cease transmissions in the event its operations causes any harmful interference into such radiolocation systems.

SES WORLD SKIES also notes that a portion of the 24.75-25.25 GHz band is allocated on a co-primary basis to Federal government and non-Federal government radionavigation systems. In its 2007 *Reverse Band Order*, the Commission indicated that it was not aware of any radionavigation system operating in this band.¹² SES WORLD SKIES is also not aware of any such radionavigation systems. Accordingly, SES WORLD SKIES does not

¹⁰ See 47 C.F.R. § 25.203(I).

¹¹ See *Reverse Band Order* at ¶¶ 129 *et seq.*

¹² *Id.* at ¶ 116 n.361.

anticipate that its proposed IOT operations could cause any harmful interference to such systems, but will of course cease transmissions in the event that any harmful interference is caused.

In addition, to facilitate coordination with Federal Government users, SES WORLD SKIES will accept conditions similar to the one imposed on grant of a recent DIRECTV request for an STA to conduct in-orbit testing in the same frequency band – namely, to provide a 24/7 point-of-contact during IOT and to provide appropriate notification 24 hours in advance of testing and after testing is completed.¹³

Protective Conditions. SES WORLD SKIES seeks authority to position and test

SES-1 at 142.5° W.L., and to relocate the satellite to 101° W.L. once testing is completed, subject to the following (or similar) conditions:

- (a) SES WORLD SKIES will coordinate its drift and test operations with all potentially affected operating satellite networks.
- (b) During the drift of SES-1 to 142.5° W.L., and during the drift from 142.5° W.L. and 101° W.L., only the TT&C payload of the SES-1 spacecraft will be operated.
- (c) No harmful interference will be caused to any lawfully operating satellite network or radio communication system and SES WORLD SKIES operations will cease immediately upon notification of harmful interference. Further, SES WORLD SKIES shall notify the Commission in writing that it has received such a notification within 14 days of receipt.
- (d) SES WORLD SKIES will accept interference from any lawfully operating satellite network or radio communication system.
- (e) Testing authority is limited to the conventional C- and Ku-band frequencies and the 17/24 GHz BSS frequencies (including the 17.7-17.8 GHz frequencies) at the 142.5° W.L. orbital location.
- (f) During in-orbit testing, SES WORLD SKIES shall maintain the SES-1 space station within an east/west longitudinal station-keeping tolerance of +/-0.05 degrees of the 142.5° W.L. orbital location.
- (g) Operations of the SES-1 space station at 142.5° W.L. are limited to in-orbit testing, and shall not include any provision of commercial services.

¹³ See DIRECTV Enterprises, LLC, Stamp Grant, File No. SAT-STA-20091202-01525 (granted Feb. 21, 2010).

(h) 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.

(i) The temporary authority will commence on the date SES WORLD SKIES launches SES-1, currently scheduled for April 24, 2010, and terminate 30 days from that date.

(j) The 24/7 point of contact for SES WORLD SKIES during IOT and drift maneuvers is Dave Westlund, (805) 217-4415, dave.westlund@ses.com.

(k) SES WORLD SKIES will notify Fibertower (Joe Sandri, jsandri@fibertower.com, and Angela Parsons, aparsons@fibertower.com) 24 hours prior to the beginning of IOT in the 17/24 GHz BSS and after IOT has been completed.

(l) SES WORLD SKIES will notify the Air Force Frequency Management Agency (robert.lando@pentagon.af.mil, 703-428-1513) 24 hours prior to the beginning of IOT operations and after IOT operations have been completed.

(m) SES WORLD SKIES shall notify the Commission in writing no later than seven days after it has completed testing of SES-1 and commenced the move of SES-1 to its assigned orbital location.

SES WORLD SKIES 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 WORLD SKIES respectfully requests special temporary authority to position and test SES-1 at 142.5° W.L. for a period of up to 30 days, commencing upon the launch of SES-1, and to relocate the spacecraft to 101° W.L. following the completion of in-orbit testing. Grant of the requested authority will permit testing of the spacecraft to occur without affecting services to customers and will permit a seamless transition of services. As noted above, SES WORLD SKIES is preparing to launch SES-1 on or about April 24, 2010, and requests expedited action on this application to accommodate that schedule.

Respectfully submitted,

SES AMERICOM, INC.

By: /s/ Daniel C.H. Mah

Of Counsel
Karis A. Hastings
Hogan & Hartson L.L.P.
555 13th Street, N.W.
Washington, D.C. 20004-1109
Tel: (202) 637-5600

Daniel C. H. Mah
Regulatory Counsel
SES Americom, Inc.
Four Research Way
Princeton, NJ 08540

Dated: April 7, 2010

ATTACHMENT 1

This attachment provides information in support of applications of SES Americom, Inc. (doing business as “SES WORLD SKIES”) for space station and earth station special temporary authority in connection with: (1) the proposed in-orbit testing (“IOT”) of the SES-1 spacecraft, call sign S2807 at 142.5° W.L.; and (2) Tracking, Telemetry, Command, and Monitoring (“TTC&M”) to position SES-1 at 142.5° W.L. and drift the spacecraft to its assigned orbital location of 101° W.L. following completion of IOT. The following SES WORLD SKIES earth stations will be used for IOT and TTC&M functions:

Call Sign	Location	Function	Frequencies
E7169	Woodbine, MD	Primary TTC&M to drift and maintain SES-1 at 142.5° W.L.	C-band TTC&M --Command: 6423.5 MHz --Beacons/Telemetry: 3700.5 MHz
E090060	Sunset Beach, HI	Secondary TTC&M to drift and maintain SES-1 at 142.5° W.L.	C-band TTC&M --Command: 6423.5 MHz --Beacons/Telemetry: 3700.5 MHz 4199.5 MHz
E040303	Somis, CA	17/24 GHz BSS IOT at 142.5° W.L.	17/24 GHz BSS IOT -- 17.3-17.8 GHz; 24.75-24.25 GHz
KB27	Somis, CA	C-band IOT at 142.5° W.L.	C-band IOT -- 3700-4200 MHz; 5925-6425 MHz
KA288	Somis, CA	Ku-band IOT at 142.5° W.L.	Ku-band IOT -- 11.7-12.2 GHz; 14.0-14.5 GHz
		Secondary TTC&M during drift from 142.5° W.L. to 101° W.L.	Ku-band TTC&M --Command: 14499.0 MHz --Beacons/Telemetry: 11701.0 MHz 12199.0 MHz
E920698	Woodbine, MD	Primary TTC&M to drift SES-1 from 142.5° W.L. to 101° W.L. after IOT	Ku-band TTC&M --Command: 14499.0 MHz --Beacons/Telemetry: 11701.0 MHz 12199.0 MHz

IOT of SES-1 will involve verifying the performance characteristics of the transponders and antenna patterns and will utilize in some cases saturating CW carriers in the

conventional C-band, Ku-band and 17/24 GHz BSS frequencies. 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 stations utilized for the performance of the IOT will not exceed the maximum output EIRP density specified in their respective licenses.

The maximum satellite transmit power during IOT will be consistent with the values in the SES-1 Application, as amended, except for those tests that require the transmission of CW carriers for short periods of time (less than 5 minutes). These test procedures are required to verify the performance of the satellite in the linear and non-linear region and to precisely establish the operational point of the transponder amplifiers.

With respect to the PFD limits on the earth's surface, the nominal operation of the SES-1 TTC&M and the IOT procedures will result in the following:

- Satellite TTC&M operations in the C-band frequency bands will not exceed the PFD limit of $-152 \text{ dBW/m}^2/4 \text{ kHz}$ (at the 5 degree elevation angle) specified in Section 25.208(a) of the Commission's rules. The PFD levels for the nominal TTC&M operations will be $-166 \text{ dBW/m}^2/4 \text{ kHz}$, at all elevation angles, which is less than the operational PFD values of the SES-1 C-band transponders as presented in the SES-1 Application.
- The use of a CW carrier during C-band IOT will result in satellite emissions in the 3700 - 4200 MHz frequency band that exceed the Commission's PFD limits on the earth's surface in Section 25.208(a). However, the test duration is very short (in the order of 2 to

3 minutes, and certainly less than 5 minutes). SES WORLD SKIES will cease transmissions in the event of harmful interference.

- The use of a CW carrier during 17/24 GHz BSS IOT will result in satellite emissions in the 17.3-17.7 GHz frequency band that will not exceed the Commission's PFD limits on the earth's surface in Section 25.208(w). The resulting PFD values are shown in the SES-1 Amendment Technical Appendix at 8, section 7, table 4. In any event, the test duration will be very short (in the order of 2 to 3 minutes, and certainly less than 5 minutes). There should be no impact on other operational 17/24 GHz BSS systems since the closest operational system is DIRECTV RB-2A located forty degrees away at 102.765° W.L.

- The use of a CW carrier during 17/24 GHz BSS IOT will result in satellite emissions in the 17.7 -17.8 GHz frequency band that will not exceed the PFD limit of -115dBW/m²/MHz at the earth's surface specified in Section 25.208(c) of the Commission's rules. In any event, the test duration will be very short (in the order of 2 to 3 minutes, and certainly less than 5 minutes). The resulting PFD values are shown in the SES-1 Amendment Technical Appendix at 8, section 7, table 4.

SES WORLD SKIES will terminate transmissions immediately upon notification of harmful interference resulting from the IOT operations.