

S2846 SAT-STA-20120126-00013 IB2012000405
Intelsat License LLC
Intelsat 22



File # SAT- STA- 20120126-00013
Call Sign S2846 Grant Date 03/28/12
(or other identifier)
Term Dates period of
From 04/01/12 To: 30 days
Approved: Stephen J. Duall

Approved by OMB
3060-0678

Date & Time Filed: Jan 26 2012 4:16:11:933PM
File Number: SAT-STA-20120126-00013
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
STA to Conduct IOT of Intelsat 22 (Call Sign S2846)

I. Applicant

Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall		

Attachment to Grant
IBFS File No. SAT-STA-20120126-00013
Call Sign: S2846

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20120126-00013, to perform in-orbit testing (IOT) of the Intelsat 22 space station (Call Sign S2846) at the 63.1° E.L. orbital location is granted for a period of 30 days, commencing on April 1, 2012. Accordingly, Intelsat is authorized to operate Intelsat 22 for testing purposes only at the 63.1° E.L. orbital location in the following frequency bands: 3625-4200 MHz (space-to-Earth), 5850-6425 MHz (Earth-to-space), 11450-11700 MHz (space-to-Earth), 14000-14500 MHz (Earth-to-space), and 12250-12750 MHz (space-to-Earth). Additionally, Intelsat is authorized to operate Telemetry, Tracking, and Telecommand (TT&C) in the C- and Ku-bands both to support testing operations at the 63.1° W.L. orbital location, and to effect Intelsat 22's drift to its authorized location of 72.1° E.L. upon the completion of in-orbit testing, using the following center frequencies: 4197.25/4198.25 MHz or 4197.75/4198.75 MHz, 5850.5 MHz, and 6424.5 MHz. This authorization is granted subject to the technical parameters specified in Intelsat's application, the rules of the Federal Communication Commission (Commission), and the following conditions.

1. All operations at the 63.1° E.L. orbital location and during the drift to the 72.1° E.L. orbital location shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.
2. In the event of any harmful interference as a result of the operations of Intelsat 22 at the 63.1° E.L. orbital location or during its drift to the 72.1° E.L. orbital location, Intelsat shall cease operations immediately upon notification of such interference and shall inform the Commission immediately, in writing, of such an event.
3. Intelsat shall coordinate the operations of Intelsat 22 with the operators of existing geostationary space stations to ensure that no unacceptable interference results from the operations of Intelsat 22 at the 63.1° E.L. orbital location.
4. Intelsat 22's operations at 63.1° E.L. shall be limited to IOT in the 3625-4200 MHz (space-to-Earth), 5850-6425 MHz (Earth-to-space), 11450-11700 MHz (space-to-Earth), 14000-14500 MHz (Earth-to-space), and 12250-12750 MHz (space-to-Earth) frequency bands and shall not include the provision of commercial services.
5. Intelsat shall operate only the TT&C frequencies on Intelsat 22 during the space station's drift from the 63.1° E.L. orbital location to the 72.1° E.L. orbital location.
6. During the in-orbit testing period, Intelsat shall maintain the Intelsat 22 space station within an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 63.1° E.L. orbital location.
7. Intelsat shall notify the Commission, in writing, within two business days of the commencement of IOT operations that such operations have commenced.
8. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.



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From 04/01/12 To: 30 days

Approved: Stephen J. Duall
Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Susan H. Crandall	Phone Number:	202-944-7848
Company:	Intelsat Corporation	Fax Number:	202-944-7870
Street:	3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall	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 SATLOA2011092900193 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

7. Requested Extended Expiration Date

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.)

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from April 1, 2012 through April 30, 2012, to conduct in-orbit testing of Intelsat 22 at 63.1 E.L. in the bands 3625-4200 MHz (downlink), 5850-6425 MHz (uplink), 11450-11700 MHz (downlink), 14000-14500 MHz (uplink), and 12250-12750 MHz (downlink), and to drift the

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
Susan H. Crandall

11. Title of Person Signing
Asst. General Counsel, Intelsat Corporation

12. Please supply any need attachments.

Attachment 1: STA Request

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

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from April 1, 2012 through April 30, 2012, to conduct in-orbit testing of Intelsat 22 at 63.1 E.L. in the bands 3625-4200 MHz (downlink), 5850-6425 MHz (uplink), 11450-11700 MHz (downlink), 14000-14500 MHz (uplink), and 12250-12750 MHz (downlink), and to drift the satellite to its permanent location of 72.1 E.L.

January 26, 2012

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554



Re: Request for Special Temporary Authority to Conduct In-Orbit Testing
of Intelsat 22 (File No. SAT-LOA-20110929-00193)
Call Sign S2846

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")¹ for 30 days, from April 1, 2012 through April 30, 2012, to conduct in-orbit testing ("IOT") of Intelsat 22 (File No. SAT-LOA-20110929-00193) at 63.1° E.L. in the bands 3625-4200 MHz (downlink), 5850-6425 MHz (uplink), 11450-11700 MHz (downlink), 14000-14500 MHz (uplink), and 12250-12750 MHz (downlink), and to drift the satellite to its permanent location of 72.1° E.L.² Intelsat 22 currently is scheduled to be launched on March 14, 2012. In support of its request, Intelsat submits the following information.

During in-orbit testing of Intelsat 22, Intelsat will operate in the above referenced C- and Ku-bands.³ To Intelsat's knowledge, the only co-frequency satellites within plus/minus six degrees of 63.1° E.L. are Intelsat 904 at 60.0° E.L., Intelsat 902 at 62.0° E.L., Intelsat 906 at 64.15° E.L., Intelsat 17 at 66.0° E.L., Intelsat 7 at 68.65° E.L., Intelsat 10 at 68.5° E.L., and Inmarsat 3F-1 at 64.5° E.L. Intelsat currently is in coordination discussions with Inmarsat regarding the Intelsat 22 IOT. With regard to the remaining spacecraft, Intelsat will internally coordinate the proposed testing with the operations of these satellites. In the unlikely event that harmful interference occurs, Intelsat will take all necessary steps to eliminate the interference.

¹ Intelsat has filed this STA request, an FCC Form 159 and an \$830.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information; Actions Taken*, Report No. SAT-00835, File No. SAT-LOA-20110929-00193 (Jan. 13, 2012) (Public Notice). During the drift from 63.1° E.L. to 72.1° E.L., only the satellite's TT&C frequencies will be utilized.

³ The UHF frequencies on Intelsat 22 will be in-orbit tested at the 72.1° E.L. location pursuant to authority from the Australian administration. Coordination of the in-orbit testing of the UHF payload has been coordinated with the U.S. Department of Defense.

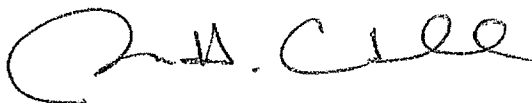
Ms. Marlene H. Dortch
January 26, 2012
Page 2

Intelsat has assessed and limited the probability of the space station becoming a source of debris as a result of collision with large debris or other operational space stations during in-orbit testing at 63.1° E.L. Intelsat 22 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, Intelsat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Intelsat 22. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 22 that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

The in-orbit testing of Intelsat 22 at 63.1° E.L. is a critical step in ensuring that the satellite will be fully operational at 72.1° E.L. This, in turn, will ensure continuity of service to customers at the nominal 72.0° E.L. location, and thereby promotes the public interest.

For the reasons set forth herein, Intelsat respectfully requests that the Commission grant this request.

Sincerely,



Susan H. Crandall
Assistant General Counsel

Intelsat Corporation

Cc: Robert Nelson
Karl Kensinger
Kathryn Medley
Stephen Duall
Jay Whaley