



File # SAT-STA-20110307-00051
 Call Sign S2388 Grant Date 04/08/11
 (or other identifier)
 Term Dates period of
 From 04/14/11 To: 30 days
 Approved: Steph J. Duall
 Steph J. Duall
 Chief, Satellite Policy Branch

Approved by OMB
 3060-0678

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 Callsign:

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 for Special Temporary Authority for Intelsat 702 (S2388)

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
Application of Intelsat License LLC for Special Temporary Authority
IBFS File No. SAT–STA–20110307–00051

The request of Intelsat License LLC (formerly Intelsat North America LLC) (Intelsat), IBFS File No. SAT–STA–20110307–00051 is granted. Accordingly, Intelsat is authorized for a period of 30 days commencing April 14, 2011 to operate Telemetry, Tracking, and Telecommand (TT&C) operations with the Intelsat 702 space station (Call Sign S2388) necessary to effect the drift of the space station from the 66.0° E.L. orbital location to the 54.85° E.L. orbital location, and to maintain Intelsat 702 at the 54.85° E.L. orbital location using the following center frequencies: 6173.7 MHz and 6176.3 MHz (left-hand circular polarization/Earth-to-space); 3947.5 MHz, 3948.0 MHz, 3952.5 MHz, and 3952.0 MHz (right-hand circular polarization/space-to-Earth). Additionally, Intelsat is granted authority to provide Fixed-Satellite Service at the 72.1° E.L. orbital location on a temporary basis using the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 10.95-11.2 GHz (space-to-Earth), 11.45-11.70 GHz (space-to-Earth), 12.50-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands. This authorization shall be in accordance with the technical specifications set forth in Intelsat's application, Federal Communications Commission (Commission) rules, and the following conditions:

1. All operations of Intelsat 702 during the drift to and operation at the 54.85° 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 station.
2. In the event of any harmful interference during Intelsat 702's drift to or operation at the 54.85° E.L. orbital location, Intelsat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. During Intelsat 702's drift to the 54.85° E.L. orbital location, Intelsat shall not operate the communications payload for Intelsat 702.
4. Intelsat's request that the Part 25 technical waivers previously granted for the operations of Intelsat 702, *i.e.* Sections 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(c), 25.210(i), and 25.211(a) of the Commission's rules, 47 C.F.R. §§ 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(c), 25.210(i), and 25.211(a), continue to apply to the operations of Intelsat 702 at the 54.85° W.L. orbital location is granted. *See Intelsat LLC, Memorandum Opinion and Order*, 15 FCC Rcd 15460 (2000), recon. denied, 15 FCC Rcd 25234 (2000).
5. Intelsat shall maintain full operational control of Intelsat 702 at all times.
6. While at the 54.85° E.L. orbital location, Intelsat shall maintain the Intelsat 702 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
7. This authorization is issued on the understanding that Intelsat, pursuant to its agreement with the Indian Space Research Organization (ISRO), will conform its operations of the Intelsat 702 space station to parameters agreed to in coordination agreements between the Administration of India and other Administrations. As the United States remains the licensing authority, responsibility for both compliance with and enforcing compliance with those agreements is a matter that would arise under private law.

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IBFS File No. SAT–STA–20110307–00051

8. This authorization is also issued on the understanding that, in regards to filings with the International Telecommunication Union (ITU), the Administration of India is not acting pursuant to Article 9.1 of the Radio Regulation on behalf of the United States administration.

9. This authorization is also issued on the understanding that the United States remains the licensing administration, for purposes of ITU Radio Regulation 18.1, for the Intelsat 702 space station, and that its operations at 54.85° E.L. are pursuant to ITU Radio Regulation 4.4.

10. Intelsat shall prepare and submit to the Federal Communications Commission, within fifteen days following grant of this authorization, the necessary materials for submission to the ITU, pursuant to Article 8.4 of the Radio Regulations, in connection with the operations of the Intelsat 702 space station at the 54.85° E.L. orbital location.

11. This authorization is issued on the understanding that this grant is not an approval of any specific agreement entered into by Intelsat, its subsidiaries, and affiliates, nor of any specific provision of any such agreement, concerning operation of the Intelsat 702 space station, nor is it an approval of an agreement concerning any related matter, nor of any specific provision of any such agreement concerning any related matter.

12. This authorization is issued on the understanding that this grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 54.85° E.L. orbital location.

13. In connection with the provision of service in any particular country, Intelsat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.

14. The EIRP density in the frequency bands 10.95-11.20 GHz, 11.45-11.70 GHz, and 12.50-12.75 GHz from the Intelsat 702 space station shall not exceed -30.1 dBW/Hz in the downlink, and the uplink power spectral density in the frequency band 14.0-14.5 GHz shall not exceed -54.5 dBW/Hz.

15. The EIRP density in the frequency band 3700-4200 MHz from the Intelsat 702 space station shall not exceed -45.0 dBW/Hz in the downlink and the uplink power spectral density in the frequency band 5925–6425 MHz shall not exceed -58.0 dBW/Hz.

16. The operation of the Intelsat 702 space station in the 10.95-11.20 GHz and 11.45-11.70 GHz band is limited to international operations in accordance with footnote NG 104 to the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, NG 104, and footnote 2 of Section 25.202(a)(1) of the Commission's rules, 47 C.F.R. § 25.202(a)(1).

17. Intelsat's use of the 10.95-11.20 GHz and the 11.45-11.70 GHz band is subject to footnote US211 to the United States Table of Frequency Allocations, 47 C.F.R. § 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.

18. Use of the 12.5-12.75 GHz frequency bands is not permitted for Fixed-Satellite Service in the space-to-Earth direction in Region 2.

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Application of Intelsat License LLC for Special Temporary Authority
IBFS File No. SAT-STA-20110307-00051


19. Intelsat is authorized to operate the communications payload of the Intelsat 702 satellite at the 54.85° E.L orbital location until expiration of its current agreement with ISRO, which has been extended until June 30, 2011. See Attachment, IBFS File No. SAT-STA-20110307-00051. After this date, Intelsat must either seek authority from the Commission to extend the term of this authorization or cease operating the communications payload of the Intelsat 702 at the 54.85° E.L orbital location. Intelsat may continue to operate the TT&C payload after this date.

20. Intelsat shall either establish sufficient contact with the operator of the Express AM22 space station to ascertain the times, frequencies and types of emissions to be used for the Express AM22's operations, or establish a monitoring function to determine such.

21. In the event that an operator-to-operator arrangement is not reached between Intelsat and the operator of the Express AM22 space station, and if the Express AM22 space station utilizes receive antenna diameters of less than 1.2 meters within a beam which overlaps the coverage area of the Intelsat 702 space station beam, in the 10950-11200 MHz, 11450-11700 MHz, and 12500-12750 MHz frequency bands, then Intelsat shall maintain an EIRP density of no greater than 39.25 dBW/36 MHz in the downlink transponders co-frequency with the Express AM22 transmissions utilizing those antennas.

22. Intelsat is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

23. 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. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

 GRANTED* International Bureau *with conditions	File # <u>SAT-STA-20110307-00051</u>
	Call Sign <u>S2388</u> Grant Date <u>04/08/11</u> (or other identifier)
	From <u>04/14/11</u> Term Dates <u>period of 30 days</u> To: <u> </u>
	Approved: <u><i>Stephen J. Duall</i></u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
Name:	Intelsat License LLC
Company:	Intelsat License LLC
Street:	c/o Intelsat Corporation
	3400 International Drive, N.W.
City:	Washington
Country:	USA
Attention:	Susan H. Crandall
Phone Number:	202-944-7848
Fax Number:	202-944-7870
E-Mail:	susan.crandall@intelsat.com
State:	DC
Zipcode:	20008 -3006
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 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CRY - Space Station (Geostationary)	
5. Type Request	
<input checked="" type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location	
54.85 E.L.	
7. Requested Extended Expiration Date	

<p>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.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC (f/k/a Intelsat North America LLC) herein requests Special Temporary Authority for 30 days beginning April 14, 2011 to drift Intelsat 702 (call sign S2388) from 66.0 E.L. to 54.85 E.L. and begin operating at 54.85 E.L. in the C- and Ku-bands pursuant to the ITU filings of the Indian Administration.</p> </div>	<p>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.</p> <p style="text-align: right;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p>
<p>10. Name of Person Signing Susan H. Crandall</p>	<p>11. Title of Person Signing Asst. General Counsel, Intelsat Corporation</p>
<p>12. Please supply any need attachments.</p>	
<p>Attachment 1: STA Request</p>	<p>Attachment 2:</p>
	<p>Attachment 3:</p>
<p style="text-align: center;">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).</p>	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

March 7, 2011

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



Re: Request for Special Temporary Authority to Drift
and Operate Intelsat 702
Call Sign S2388

Dear Ms. Dortch:

Intelsat License LLC (f/k/a Intelsat North America LLC) ("Intelsat") herein requests Special Temporary Authority ("STA")¹ for 30 days beginning April 14, 2011 to drift Intelsat 702 (call sign S2388) from 66.0° E.L. to 54.85° E.L. and begin operating at 54.85° E.L. in the C- and Ku-bands pursuant to the ITU filings of the Indian Administration.² At 54.85° E.L., Intelsat 702 will replace Intelsat 709, which Intelsat plans to redeploy to 72.10° E.L.³

Intelsat 702 currently is licensed to operate at 66.0° E.L.⁴ Intelsat expects Intelsat 702 to be on-station at 54.85° E.L. in mid-May and to operate the satellite there for approximately three months, after which it will be relocated. Following traffic transfer from Intelsat 709 to Intelsat 702, Intelsat 709 will be relocated to 72.10° E.L. as noted above.

During the drift of Intelsat 702 from 66.0° E.L. to 54.85° E.L., Intelsat will utilize only the satellite's TT&C frequencies and will follow industry practices for coordinating TT&C transmissions during the relocation process.

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

² Intelsat's recent extension of its agreement with the Indian Administration allows Intelsat to operate a satellite at 54.85° E.L. through March 31, 2011. That extension was attached to a previously-filed STA request (*see* File No. SAT-STA-20101207-00256) and is incorporated herein by reference. Intelsat fully expects that the Indian Administration will extend the agreement.

³ *See Intelsat License LLC Request for Special Temporary Authority*, File No. SAT-STA-20110107-00006 (filed Jan. 7, 2011).

⁴ *See Policy Branch Information; Actions Taken*, Report No. SAT-00595, File No. SAT-MOD-20081217-00233 (Apr. 10, 2009) (Public Notice).

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The specific TT&C frequencies are as follows:

Uplink:

6173.7 MHz and 6176.3 MHz (LHCP)

Downlink:

3947.5 MHz and 3948.0 MHz (RHCP)

3952.5 MHz and 3952.0 MHz (RHCP)

Once on-location at 54.85° E.L., Intelsat will operate the following communications payload frequencies on Intelsat 702:

Uplink:

5925-6425 MHz

14.0-14.5 GHz

Downlink:

3700-4200 MHz

10.95-11.2 GHz

11.45-11.7 GHz

12.5-12.75 GHz⁵

Intelsat requests that the Part 25 waivers originally granted to the Intelsat 702 spacecraft continue to apply at the 54.85° E.L. location, namely, the waivers of Sections 25.202(g), 25.210(a)(1), 25.210(a)(3), 25.210(c), 25.210(i) and 25.211 (a) of the Commission's rules.⁶

⁵ Although Intelsat 702 also has the capability to transmit in the frequency band 11.7-11.95 GHz, Intelsat does not intend to utilize this frequency band from the 54.85° E.L. orbital location.

⁶ See *Applications of Intelsat LLC for Authority to Operate and Further Construct, Launch, and Operate C-Band and Ku-Band Satellites that Form a Global Communications System in Geostationary Orbit*, 15 FCC Rcd 15460, 15529 (Appendix C) (2000) (Memorandum Opinion and Order and Authorization), *recon. denied*, 15 FCC Rcd 25234 (2000) (Order on Reconsideration).

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Grant of this STA request is in the public interest because it will allow Intelsat to ensure continuity of service to customers in the Indian Ocean region for a few more months. Intelsat will ensure that any of its customers at 54.85° E.L. whose contracts have not terminated are moved to other satellites before Intelsat 702 leaves the location.

Grant of this STA request will not result in increased risk of harmful interference. As noted above, Intelsat will operate only the above listed TT&C frequencies during the drift, and will coordinate its TT&C transmissions with operators of satellites in the drift path. Should any interference occur during the drift, Intelsat will take all reasonable steps to eliminate such interference. Once on-station at 54.85° E.L., Intelsat will operate the communications payload in conformance with the Indian Administration's coordination agreements related to the nominal 55.0° E.L. location. Intelsat also agrees to operate Intelsat 702 at 54.85° E.L. consistent with the conditions previously imposed on Intelsat's operation of Intelsat 709 at this same orbital location.⁷

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. Except for Intelsat 709, Intelsat 702 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 702 at 54.85° E.L. Finally, Intelsat is not aware of any system with an overlapping station-keeping volume with Intelsat 702 at 54.85° E.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

⁷ See *Policy Branch Information; Actions Taken*, Report No. SAT-00730, File No. SAT-STA-20101006-00209 (Oct. 22, 2010) (Public Notice).

Ms. Marlene H. Dortch

March 7, 2011

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

Sincerely,

A handwritten signature in black ink, appearing to read "Susan H. Crandall". The signature is fluid and cursive, with a large initial "S" and "C".

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Karl Kensinger
Kathryn Medley
Stephen Duall