

S2747 SAT-STA-20110927-00188 IB2011004405
ViaSat, Inc.
ViaSat-1

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File Number: SAT-STA-20110927-00188
Callsign:

File # SAT-STA-20110927-00188

Call Sign S2747 Grant Date 10/21/11
(or other identifier)

Term Dates Period of
From 10/19/11 To: 60 days

Approved by OMB
3060-0678

Approved:

Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch



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:

ViaSat-1 Special Temporary Authority for Launch and Operation at 109.2 WL and Drift to 115.1 WL

1. Applicant

Name:	ViaSat, Inc.	Phone Number:	760-476-2583
DBA Name:		Fax Number:	760-929-3941
Street:	6155 El Camino Real	E-Mail:	daryl.hunter@viasat.com
City:	Carlsbad	State:	CA
Country:	USA	Zipcode:	92009
Attention:	Mr Daryl T Hunter		-

ViaSat, Inc.
Attachment to Grant
IBFS File No. SAT-STA-20110927-00188
October 21, 2011
Call Sign S2747

ViaSat, Inc.'s request for Special Temporary Authority, IBFS File No. SAT-STA-20110927-00188, is GRANTED.¹ Accordingly, ViaSat, Inc. is authorized to conduct in-orbit testing of the ViaSat-1 satellite (Call Sign S2747) using the 28.1-29.1 GHz and 29.5-30.0 GHz frequency bands (Earth-to-space), and the 18.3-19.3 GHz and 19.7-20.2 GHz frequency bands (space-to-Earth) at the 109.2° W.L. orbital location, for a period of 60 days commencing on October 19, 2011, and once testing is complete, to operate telemetry, tracking, and telecommand frequencies during the relocation of the satellite to the 115.1° W.L. orbital location. This authorization is granted in accordance with the terms and technical specifications set forth in ViaSat, Inc.'s application, the Federal Communications Commission's rules, and the conditions of this attachment.

1. ViaSat, Inc. shall coordinate its test operations with all potentially affected in-orbit satellite networks.
2. The operations of the ViaSat-1 satellite shall not cause harmful interference to any other lawfully operating radiocommunication system.
3. ViaSat, Inc. shall cease operations immediately upon notification of harmful interference caused by the operations of the ViaSat-1 satellite to any lawfully operating radiocommunication system. Further, ViaSat, Inc. shall notify the Commission immediately, in writing, of such an event.
4. ViaSat, Inc. shall accept interference from any lawfully operating radiocommunication system.
5. ViaSat Inc.'s use of the 109.2° W.L. orbital location is for the testing of the ViaSat-1 satellite only and shall not be used to provide commercial service.
6. Within 7 days of completing the testing of ViaSat-1, ViaSat, Inc. shall notify the Commission in writing that testing is complete and the move to 115.1° W.L. has commenced.
7. ViaSat, Inc. shall coordinate all drift operations with other potentially affected in-orbit operators.
8. Prior to performing in-orbit testing operations, ViaSat, Inc. must coordinate the in-orbit testing operations of ViaSat-1 with entities operating satellites within +/- 6 degrees of the 109.2° W.L. orbital location.
9. ViaSat, Inc. is granted, with conditions, a waiver of Sections 25.208(c) and (e) of the Commission's rules, 47 C.F.R. § 25.208(c) & (e). These sections state that the power flux density at the Earth's surface produced by emissions from a space station for all conditions for all methods of modulation shall not exceed certain angle-of-arrival power flux density limits that are listed in its subsections. The underlying purpose of Section 25.208(c) & (e) is to protect other radiocommunication systems operating in the 17.7-17.8 GHz, 18.3-18.8 GHz, 18.8-19.3 GHz, 19.3-19.7 GHz, 22.55-23.00 GHz, 23.00-23.55 GHz, and 24.45-24.75 GHz frequency bands. ViaSat, Inc. states that it will exceed the Section 25.208(c) & (e) pfd limits at times during the IOT period in the 18.3-19.3 GHz frequency band (space-to-Earth), which is shared with other co-

¹ The call sign associated with this file number was modified from S2830 to S2747.

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primary Fixed Service (FS), Fixed-Satellite Service (FSS), Earth Exploration Satellite Service (EESS), and Space Research Service (SRS) satellite radiocommunication systems. There are no Commission-licensed EESS or SRS systems in this band. There are a number of FSS space stations operating in the 18.3-19.3 GHz band and a number of co-primary Fixed Service (FS) radiocommunication systems operating in the 18.3-18.58 GHz frequency band within the geographic area toward which ViaSat, Inc. will aim its downlink signal during in-orbit transponder testing. We note that the operations under this STA will be intermittent and of a short duration and unlikely to cause harmful interference to FS operations. In addition, ViaSat, Inc. is required to coordinate its operations with all entities operating FSS satellites within +/- 6 degrees prior to commencing operations. We also note that grant of this STA is on an unprotected, non-harmful interference basis, which requires ViaSat, Inc. not to cause harmful interference to any other lawfully operating radiocommunication system and to cease operations immediately upon notification of any such harmful interference. We find that granting a waiver of Sections 25.208(c) & (e) in this instance will not undermine the purpose of the rules, and serves the public interest by allowing ViaSat, Inc. to ensure the reliability of its ViaSat-1 satellite.

10. ViaSat will have personnel on duty at all times during the STA period and can be contacted at (720) 493-7300.

11. During the drift of the ViaSat-1 satellite to 115.1° W.L., ViaSat, Inc. shall not operate the Fixed Satellite Service payload of the ViaSat-1 satellite.

12. ViaSat, Inc. is afforded thirty days from the date of release of this action to decline the authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

13. This Grant 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 10/19/11 Term Dates period of 60 days
To: 60 days
Approved: Stephen J. Duall

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

2. Contact			
Name:	Daryl T. Hunter	Phone Number:	760-476-2583
Company:	ViaSat, Inc.	Fax Number:	760-929-3941
Street:	6155 El Camino Real	E-Mail:	daryl.hunter@viasat.com
City:	Carlsbad	State:	CA
Country:	USA	Zipcode:	92009 -
Attention:	Daryl T. Hunter	Relationship:	Same
(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 SATLOA2011072200132 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 type="radio"/> Change Station Location		<input type="radio"/> Extend Expiration Date	
		<input checked="" type="radio"/> Other	
6. Temporary Orbit Location 109.2 W.L.		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.)

See Exhibit A.

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
Daryl T. Hunter

11. Title of Person Signing
Director, Regulatory Affairs

12. Please supply any need attachments.

Attachment 1: Exhibit A

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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