

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA to Test One EM Cobra Antenna for Maritime Operations

1. Applicant

Name: ISAT US Inc. Phone Number: 703-883-7444  
DBA Name: Fax Number: 202-248-5177  
Street: 1101 Connecticut Avenue NW E-Mail: giselle.creaser@inmarsat.com  
Suite 1200  
City: Washington State: DC  
Country: USA Zipcode: 20036  
Attention: Giselle Creaser



File # SES-STA-20170822-00938  
Call Sign EA40029 Grant Date 8/29/17  
(or other identifier)  
Term Dates  
From: 8/29/17 To: 9/29/17  
Approved: [Signature]

Applicant: ISAT US, Inc.  
Call Sign: E140029  
File No.: SES-STA-20170822-00938  
Special Temporary Authority (STA)



File # SES STA-20170822-00938  
Call Sign E140029 Grant Date 8-29-17  
(or other identifier)  
Term Dates  
From 8-29-17 To: 9-28-17  
Approved: Paul E. Hoyer

ISAT US, Inc. (ISAT US) is granted STA for 30 days to conduct testing of one EM Solutions Cobra ("EM Cobra") antenna, manufactured by EM Solutions, at Chantilly, Virginia (38° 53' 32.26" N.L./ 077° 26' 38.62" W.L.). The testing of antenna will be to operate with the Inmarsat 5 F2 satellite ("I5F2") located at 55° W.L. in the 29.5-30.0 GHz (Earth-to-space) and 19.7-20.2 GHz (space-to-Earth) frequency bands under the following conditions:

1. Operations under STA will be in compliance with Section 25.138 of the Commission's rules, 47 C.F.R. § 25.138, and will be operated through the Lino Lakes Satellite Access station authorized under E120072, SES-LIC-20120426-00397 and monitored by the Inmarsat Network Operations Center (NOC).
2. All operations by ISAT US shall be on an unprotected basis and shall not claim protection from interference caused to it by any other lawfully operating station.
3. In the event that any harmful interference is caused as a result of STA operation, ISAT US shall cease operations immediately upon notification of such an event, and shall inform the Commission immediately, in writing, of the event.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at ISAT US's own risks.
5. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding ISAT US's pending FCC application IBFS File No. SES-MOD-20170817-00928.
7. 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.

<b>2. Contact</b>	
<b>Name:</b> Giselle Creeser	<b>Phone Number:</b> 703-883-7444
<b>Company:</b> ISAT US Inc.	<b>Fax Number:</b> 202-248-5177
<b>Street:</b> 1101 Connecticut Avenue NW Suite 1200	<b>E-Mail:</b> giselle.creeser@inmarsat.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20036
<b>Attention:</b>	<b>Relationship:</b> 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 SESMOD2017081700928 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 CGX – Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date 08/28/2017	
7. City Chantilly	
8. Latitude (dd mm ss.s h) 38 53 32.26 N	

9. State VA	10. Longitude (dd mm ss.s h) 77 26 38.62 W
i.i. Please supply any need attachments. Attachment 1: Exhibit 1 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.) ISAT US seeks an STA to test one 1.0 meter EM Solutions Cobra model earth terminal on the same frequencies as the current E140029 license. See Exhibit 1.	
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. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Giselle Creeser	15. Title of Person Signing Director, Regulatory
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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## Exhibit 1

### REQUEST FOR SPECIAL TEMPORARY AUTHORITY (Response to Question 12, FCC Form)

#### I. DESCRIPTION OF STA REQUEST TO TEST ONE MARITIME TERMINAL

ISAT US, Inc. ("ISAT US") hereby requests special temporary authority ("STA") to operate for a thirty-day period for testing purposes one EM Solutions Cobra model maritime terminal ("EM Cobra") that is manufactured by EM Solutions at a fixed location to communicate with the Inmarsat 5 F2 (I5F2) satellite in the 19.7-20.2 GHz (space-to-Earth) and 29.5-30.0 GHz (Earth-to-space) bands beginning 28 August 2017.

The earth station will be located at the Inmarsat facility in Chantilly, VA. The operations are to test and demonstrate the use of this new maritime terminal. ISAT US is already licensed by the Commission to operate a set of maritime earth stations in the 19.7-20.2 GHz and 29.5-30.0 GHz bands.<sup>1</sup> Moreover, ISAT has submitted a modification to its existing maritime blanket earth station license E140029 (IBFS File No. SES-MOD-20170817-00928) to add the EM Cobra terminal and wishes to incorporate the technical specifications listed in that application by reference herein.

The EM Cobra will operate with the Inmarsat Global Xpress I5F2 satellite from the 55° W.L. orbital location and the Lino Lakes Satellite Access Station, which have both been authorized for U.S. market access.<sup>2</sup>

ISAT US will be responsible for all technical aspects of the system during the testing and demonstration. The user terminal operations in the spectrum requested will be closely monitored by the Inmarsat Network Operations Center (NOC) and the engineering team associated with the demonstration. Additionally ISAT US requests to operate on a non-interference and non-protected basis.

#### Description of Operations

This STA will allow testing and demonstration of a new terminal that will facilitate further deployment of broadband communications to Inmarsat customers. The terminal will be operated from the Inmarsat Chantilly facility in VA for 30 days commencing on 28 August 2017. Operations will be conducted within a 1 mile radius of the following location: Chantilly, VA Latitude = 38° 53' 32.2656" Longitude = -77° 26' 38.6232".

The ISAT US Point of Contact 24/7 during the STA is Inmarsat Network Control in London, England at 011 44 207 728 1616.

#### II. GRANT OF THE STA WILL SERVE THE PUBLIC INTEREST

Grant of the requested STA will serve the public interest, convenience and necessity because it will enable ISAT US to conduct testing and demonstration of a new terminal

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<sup>1</sup> See, ISAT US GX maritime user terminal earth station Call Sign E140029.

<sup>2</sup> See, Inmarsat Mobile Networks, Inc., Granted March 30, 2015, (Call Sign E120072; IBFS File No. SES-LIC-20120426-00397) ("*Lino Lakes Order*").

using the I5F2 spacecraft, within technical parameters consistent with the parameters filed in IBFS File No. SES-MOD-20170817-00928, without creating any risk of harmful interference. ISAT US respectfully requests that the Commission grant STA beginning 28 August 2017 for a period of 30 days.