


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA for Data Path Terminals

1. Applicant

| | | | |
|-------------------|--|----------------------|------------------------------|
| Name: | ISAT US Inc. | Phone Number: | 202-248-5150 |
| DBA Name: | | Fax Number: | |
| Street: | 1101 Connecticut Avenue NW Suite 1200 | E-Mail: | giselle.creaser@inmarsat.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20036 |
| Attention: | Giselle Creaser | | |

File # SES-STA-20160722-00678
Call Sign E150097 **Grant Date** 8-1-16
(or other identifier)
Term Dates
From: 8-1-16 **To:** 9-30-16
Approved: 



Applicant: ISAT US Inc.
Call Sign: E150097
File No.: SES-STA-20160722-00678
Special Temporary Authority (STA)

ISAT US Inc. is authorized to operate under STA for 60 days to conduct customer demonstration using four QTC90 GX antennas (two at each site: Reston and Chantilly, Virginia) to communicate with the Inmarsat I5 F2 satellite at orbital location 55 degrees W.L on the 29500-30000 MHz (Earth-to-space) frequencies and 19700-20200 MHz (space-to-Earth) frequencies, under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested.
2. Operations, shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
3. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at ISAT US, Inc.'s risk.
4. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector.
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. The FCC's OET Bulletin 65 (available on-line at 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 pending or future ISAT US's applications.

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.



File # SES-STA-20160722-00678
E150097
Call Sign E150097 Grant Date 8-1-16
(or other identifier)
Term Dates
From: 8-1-16 To: 9-30-16
Approved: Paul E. Blair

| | |
|--|---|
| 2. Contact | |
| Name: Giselle Creeser | Phone Number: 202-248-5150 |
| Company: ISAT US Inc. | Fax Number: |
| Street: 1101 Connecticut Avenue NW Suite 1200 | E-Mail: giselle.creeser@inmarsat.com |
| City: Washington | State: DC |
| Country: USA | Zipcode: 20036 |
| Attention: | Relationship: Engineer |
| (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 SESMOD2016072000669 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 CGV - Fixed Satellite VSAT System | |
| 5. Type Request | |
| <input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other | |
| 6. Requested Use Prior Date 08/01/2016 | |
| 7. City | |
| 8. Latitude (dd mm ss.s h) 0 0 0.0 | |

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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.

Exhibit A

DESCRIPTION OF STA REQUEST

I. SUMMARY

ISAT US, Inc. (“ISAT US”) hereby requests this special temporary authority (“STA”) to operate the Data Path Earth station QTC90 GX within the Inmarsat-5 Global Xpress network. ISAT US seeks to be able to conduct demonstrations of the QTC90 GX terminal to potential customers at two Inmarsat facilities in Reston and Chantilly, Virginia. These operations are requested on a non-interference, non-protected basis. Grant of the requested STA will serve the public interest, convenience and necessity because it will enable ISAT US to conduct demonstrations of the terminal, consistent with the parameters described herein, without creating any risk of harmful interference. ISAT US respectfully requests the Commission grant this STA for a 60 day period beginning August 1, 2016.

II. DESCRIPTION OF STA REQUEST

ISAT US seeks STA to operate four QTC90 GX terminals, two at each of two locations. Operations of the QTC90 GX Terminal under this STA would be within the technical parameters included in the pending application File No. SES-MOD-20160720-00669, that requests to add this terminal type to the existing ISAT US blanket license Call Sign E150097 (“Land License”). The QTC90 GX terminals will be operated through the Inmarsat-5 F2 satellite (“I5 F2”) at the 55° W.L. orbital location and the Lino Lakes Satellite Access Station that have both been authorized for U.S. market access.¹ Operations will be conducted within a 1 mile radius of the following two locations:

Chantilly, VA
Latitude = 38° 53' 32.2656"
Longitude = 77° 26' 38.6232"

¹ See Inmarsat Mobile Networks, Inc., Granted March 30, 2015, (Call Sign E120072; IBFS File No. SES-LIC-20120426-00397) (“*Lino Lakes Order*”).

Reston, VA
Latitude = 38° 56' 51.7056"N
Longitude = 77° 20' 53.4726" W

The terminals will operate in the following frequencies, which are the same as those already licensed by the Commission for similar terminals in the Land License:

Transmit: 29.5-30.0 GHz

Receive: 19.7-20.2 GHz

ISAT US incorporates by reference the technical parameters of the QTC90 GX Terminal type as set forth in File No. SES-MOD-20160720-00669 that show compliance with the off-axis EIRP density levels in Section 25.138 of the Commission's rules. The STA operations will be closely monitored by the Inmarsat Network Operations Center (NOC) and various engineering teams associated with the demonstration campaign to ensure compliance with all conditions of the existing Land License. The equipment will be marked to warn of potential radiation exposure, and the terminals will be in professionally installed locations. Radiation exposure prevention measures will be tailored to the specific location to ensure compliance with the Commission's radiation exposure limits. It is expected that the proposed STA operations would commence on August 1, 2016 for a duration of 60 days.