

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for STA to Operate Receive-Only Antenna at Paumalu, Hawaii

1. Applicant

Name:	Inmarsat Hawaii Inc.	Phone Number:	202-248-5155
DBA Name:		Fax Number:	202-248-5186
Street:	1101 Connecticut Avenue NW Suite 1200	E-Mail:	diane_cornell@inmarsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	Diane J Cornell		

With Condition(s)



File # SES-STA-20100204-00163

Call Sign E080059 Grant Date 2/23/2010
(or other identifier)

Term Dates
From 2/23/2010 To: 4/30/2010

Approved: 

Attachment

SES-STA-20100204-00163
E080059

Condition:

All operations shall be on an unprotected and non-harmful interference basis, i.e., Inmarsat Hawaii Inc. 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.

With Conditions



File # SES-STA-20100204-00163

Call Sign E080059 Grant Date 2/23/2010
(or other identifier)

Term Dates

From 2/23/2010 To: 4/30/2010

Approved: 

2. Contact	
Name: Inmarsat Hawaii Inc.	Phone Number: 202-248-5155
Company:	Fax Number: 202-248-5186
Street: 1101 Connecticut Avenue NW Suite 1200	E-Mail: diane_cornell@inmarsat.com
City: Washington	State: DC
Country: USA	Zipcode: 20036 -
Attention:	Relationship:
(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 SESMODINTR201000493 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 02/11/2010	
7. City Haleiwa	8. Latitude (dd mm ss.s h) 21 40 10.1 N

9. State HI	10. Longitude (dd mm ss.s h) 158 1 59.2 W
11. Please supply any need attachments. Attachment 1: Exhibit A 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.) <div style="border: 1px solid black; padding: 10px; min-height: 100px;"> See Exhibit A. </div>	
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. <input checked="" type="radio"/> Yes <input type="radio"/> No 	
14. Name of Person Signing Diane J. Cornell	15. Title of Person Signing Director
<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>	

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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.

Inmarsat Hawaii Inc.
Request for Special Temporary Authority
Exhibit A

Description of STA Request

Inmarsat Hawaii Inc. (“Inmarsat”) hereby requests special temporary authority (“STA”) to use its Paumalu, Hawaii FSS gateway earth station facility, Call Sign E080059 (the “Paumalu Gateway”),¹ to receive certain Global Positioning System (“GPS”)-related data as a part of the Federal Aviation Administration’s (“FAA”) Wide Area Augmentation System (“WAAS”). More specifically, Inmarsat seeks STA to receive WAAS communications from the Inmarsat 4F3 (“I4F3”) spacecraft over “L1” and “L5” GPS frequencies (1573.42-1577.42 MHz and 1166.45-1186.45 MHz, respectively).

WAAS provides augmentation messages containing corrections for timing and errors in the GPS message from GPS satellites, allowing GPS system users to compute better positional accuracy than they could with standard GPS data alone. The requested STA would allow Inmarsat to configure and test its planned components of the WAAS augmentation system, in collaboration with the FAA, in anticipation of full implementation at a later date. Notably, Inmarsat has filed an application to modify the license for the Paumalu Gateway on a permanent basis to enable it to receive WAAS data over the L1 and L5 frequencies (the “Modification Application”).²

Inmarsat’s operations would be consistent with the technical parameters specified in that application, and, as demonstrated therein, would not pose any risk of harmful interference. Consistent with the Modification Application, Inmarsat’s receive operations pursuant to STA would be limited to configuration and testing activities. While WAAS data transmitted from the I4F3 spacecraft ultimately would be used by end users following grant of the Modification Application and after Inmarsat’s components of the WAAS system are fully implemented and tested, such implementation and testing would not be complete until at least January 2011. During this testing and implementation phase, WAAS data transmitted from the I4F3 spacecraft would be encoded with a “do not use” code directing GPS user terminals to ignore transmissions from the I4F3 spacecraft over the L1 and L5 frequencies.³ Inmarsat would request that the FAA not alter this encoding until users have obtained requisite authority from the Commission.⁴

¹ The Paumalu Gateway currently consists of two 16 meter antennas: a South Antenna at Latitude 21 40 10.4 N, Longitude 158 01 59.4 W; and a North Antenna at Latitude 21 40 11.3 N, Longitude 158 01 59.6 W. The Modification Applications seeks authority to add a third antenna at Latitude 21 40 10.1 N; Longitude 158 1 59.2 W (the location listed on the cover form to this request). Inmarsat also owns a 19 meter antenna at the same site, Call Sign KA25.

² See IBFS File No. SES-MOD-INTR2010-00493 (filed Feb. 4, 2010).

³ WAAS data are generated by the FAA at its WAAS Master Station. Neither the I4F3 spacecraft nor the Paumalu Gateway would alter these data.

⁴ Inmarsat is planning to request that the Commission allow GPS users to receive signals from the I4F3 spacecraft without filing individual receive-only applications, likely through either a waiver request or petition for declaratory ruling.

In order to meet the needs of the FAA, testing of Inmarsat's WAAS equipment currently is scheduled to begin in mid-February. Grant of the requested STA would serve the public interest, convenience and necessity by allowing Inmarsat to configure and test its components of the WAAS system during the scheduled testing period, and until the Modification Application is granted. Doing so thus would facilitate important United States government interests in improving the performance and accuracy of the existing GPS network. Therefore, Inmarsat respectfully requests that the Commission grant the requested STA for an initial period of 60 days, beginning February 11, 2010.