

EXHIBIT A

DESCRIPTION OF THE PROPOSED EXPERIMENTAL USES AND REQUEST FOR EXPEDITED TREATMENT

By this Application, and pursuant to Section 5.61 of the Commission's rules, 47 C.F.R. § 5.61, Inmarsat Hawaii Inc. ("Inmarsat Hawaii") seeks STA to initiate a program of experimentation designed to facilitate the introduction of its Global Satellite Phone Service ("GSPS") to the U.S. market. More specifically, Inmarsat Hawaii seeks STA to (i) conduct technical demonstrations using GSPS handsets; (ii) test those handsets in connection with their production and the deployment of other parts of the GSPS network; and (iii) otherwise develop radio techniques, equipment, operational data and engineering data related to GSPS. See 47 CFR §§ 5.3(d), (g), (i).

Inmarsat Hawaii proposes to test two different types of handsets in connection with its planned GSPS offering: (i) the Flextronics/PCI R190 handset, which already is used to provide Satellite Phone Service ("SPS") in parts of Asia and Africa,¹ and (ii) a simulator-based prototype of a new GSPS terminal currently in development.² Testing would evaluate the performance of these handsets and GSPS generally, through communications over the Inmarsat-4F3 spacecraft, to ensure that they are able to operate in accordance with design specifications.³

Testing also would evaluate the interaction of these handsets with certain GSPS gateway equipment scheduled for contractual delivery, site integration, testing and site acceptance at Inmarsat Hawaii's Paumalu facilities beginning June 1, 2009.⁴ While Inmarsat does not plan to introduce GSPS into the U.S. market until 2010, it would not be technically practical nor economically feasible to postpone testing of the GSPS handsets with the GSPS gateway equipment beyond the acceptance date of that equipment. Accordingly, Inmarsat Hawaii requests expedited treatment of this Application.

¹ Inmarsat's Satellite Phone Service ("SPS"), a regional version of GSPS, is already available in parts of Asia and Africa.

² The simulator platform for this GSPS terminal is representative of the planned user handset with respect to performance and RF characteristics, but has a different form factor.

³ Inmarsat Hawaii is a wholly-owned subsidiary of Inmarsat plc ("Inmarsat"), which operates a global fleet of L-Band MSS spacecraft, including the Inmarsat-4F3 ("I4F3") spacecraft currently located at 97.65° W.L.

⁴ The GSPS system includes a Network Control Center-Gateway (NCC-GW) which provides the interface to the public switched telephone network (PSTN) and the Inmarsat-4F3 spacecraft uplink. As part of the testing of this NCC-GW, Inmarsat Hawaii would like to utilize a test handset / user terminal (UT) to provide an end-to-end test capability. This test UT would incorporate a combination of commercial off the shelf equipment (i.e., antenna, L-band up/down converters, power amplifiers), NCC-GW channel equipment configured to emulate the UT layer 1 functions, known as the ICE, and the UT core module protocol stack software running on a computer platform (collectively, the transportable enhanced inverse channel equipment or "eICE-T"). The eICE-T would allow testing of the GSPS system air interface operation to include idle mode operations, voice, and data calls. The eICE-T equipment would be physically contained within the NCC-GW premises, would not be accessible to the general public, and would be operated only by experienced test personnel.

Testing, demonstrations, and studies using these handsets potentially could be conducted at various locations throughout the United States, although it is expected that the majority of such activities would be conducted at Lockheed Martin facilities in Pennsylvania, and in Hawaii in the vicinity of Inmarsat Hawaii's gateway facilities and the network control center for the I4F3 spacecraft.

The technical specifications for these handsets are set forth in Table 1 and the accompanying cover form. Notably, Inmarsat Hawaii proposes to test these handsets in the 1626.5-1660.5 MHz transmit band and in the 1525.0-1559.0 MHz receive band. Inmarsat has used these frequency bands for years to serve the U.S. and foreign markets, and the technical parameters of the proposed operations are consistent with the parameters of such service. Handsets would be operated by experienced test personnel in a manner consistent with the Commission's radio frequency (RF) exposure guidelines and applicable provisions of Part 25 of the Commission's rules. The specific frequencies to be used by each handset would be assigned by the Inmarsat satellite network,⁵ through Inmarsat-controlled earth station facilities located in Paumalu, Hawaii. Thus, Inmarsat would remain in ultimate control of any experimental operation.⁶

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GSPS will be a highly competitive offering in terms of hardware costs, airtime rates and service quality, with a strong combination of form and functionality that Inmarsat believes will change the landscape of the mobile satellite market. The requested STA would facilitate the introduction of GSPS to the U.S. market by enabling Inmarsat to develop the technical expertise to extend and enhance existing uses of L-band spectrum through the introduction of GSPS. Accordingly, the expeditious grant of this Application would serve the public interest, convenience and necessity.

⁵ The SPS and GSPS user terminals provide terminal identification to the network via the International Mobile Subscriber Identity (IMSI) process, rather than by voice or Morse code, as specified in the Commission's rules.

⁶ Notwithstanding, terminal equipment could be owned by manufacturers in some cases.

Table 1: Handset Specifications

Handset	SPS Handset	GSPS Handset
Manufacturer	Flextronics, PCI	Lockheed Martin
Model	R190	eICE-T (simulator)
Number of Units	12	2
Transmit Frequencies	1626.5-1660.5 MHz	1626.5-1660.5 MHz
Receive Frequencies	1525.0-1559.0 MHz	1525.0-1559.0 MHz
Output Power	1.995 W	1.995 W
ERP	3.162 W	3.162 W
Mean/Peak	Peak	Peak
Frequency Tolerance ($\pm$)	± 5 ppm	± 1 ppm
Transmit Emission Designator	50K0G7W	50K0G7W
Receive Emission Designator	200KG7W	200KG7W
Transmit Modulation	GMSK	GMSK
Receive Modulation	OQPSK	OQPSK
Half-Power Beam Width	110°	110°
Orientation in Horizontal Plane	90°-225° (Toward I4F3 Spacecraft at 97.65° W.L.)	90°-225° (Toward I4F3 Spacecraft at 97.65° W.L.)
Orientation in Vertical Plane	10°-60° (Toward I4F3 Spacecraft at 97.65° W.L.)	10°-60° (Toward I4F3 Spacecraft at 97.65° W.L.)