

**REQUEST FOR SPACE SEGMENT CAPACITY
TO OPERATE INMARSAT TERMINALS
FROM LAND-BASED LOCATIONS IN THE UNITED STATES**

The Federal Communications Commission ("FCC") requires COMSAT Corporation ("COMSAT") to obtain authority prior to providing service to Inmarsat terminals operated from land-based (i.e., nonmaritime locations) within the United States. The FCC will only grant domestic service authority to COMSAT under certain circumstances. The FCC's determination is made on a case-by-case basis with regard to the specific facts of each request. For instance, the FCC has authorized COMSAT to provide space segment capacity in the United States where:

- (1) the capacity is required to test and demonstrate the communications capabilities of an Inmarsat terminal to prospective customers;
- (2) the performance of an Inmarsat terminal is to be tested prior to sending/taking it abroad;
- (3) personnel are to be trained in the use of Inmarsat terminal(s) prior to being deployed abroad;
- (4) an Inmarsat terminal is needed for emergency communications (either as backup communications or disaster relief); or
- (5) an Inmarsat terminal is required to provide services from a remote location where no alternative means of communications is available.

Therefore, the following information is necessary for COMSAT to prepare its request for authority from the FCC to provide domestic Inmarsat space segment capacity to your terminal(s) in a timely manner. The more specific and detailed the information you provide us about the intended use(s) of the terminal, the more likely it will be that COMSAT will be able to obtain timely FCC authorization to provide the services you need! Please feel free to attach additional pages if needed to answer questions fully.

1. Company's Name: Maritime Professional Training
2. Company's Business: Merchant Mariner Training including navigation, safety and communications (GMDSS)

MAR.26.1997

9:11AM

CIC LEGAL AFFAIRS

3. Who will operate the terminal? licensed Instructors supervising
Students in operations
4. By what date do you need to operate the terminal in the U.S.? Asap 8/10/98
For how long? 2 yrs

Please indicate on page 3 your reasons for needing to use the terminal by the specified date.

5. Will the same terminal also be used in one or more foreign countries or globally?
Yes ☐ No ☒

IF YES, please state on page 3 the country or countries involved, and how frequently you intend to use the terminal outside of the U.S.

6. Will the terminal be used for test and/or demonstration purposes?
Yes ☐ No ☒

IF YES, please indicate on page 3 where the test(s) or demonstration(s) will take place, their duration and whether (a) this is a test prior to sale, (b) this is a test after sale prior to use, (c) this is a demonstration to potential customers, (d) the terminal will be a part of a test or demo pool, or (e) other (please describe).

7. Will the terminal be used to train your employees, customers, or other users?
Yes ☒ No ☐

IF YES, please explain on page 3 the nature, purpose, and duration of the training (indicating in particular whether the terminal will be used outside the U.S. or if personnel being trained will be deployed outside the U.S.):

8. Will the terminal be used for emergency communications or in a remote location where no alternative means of communications exist? Yes ☐ No ☒

IF YES, please describe on page 3 the nature of the emergency communication (if applicable), state the location, describe the communications service desired, and explain the reason(s) why existing means of communications, in particular those of the U.S. domestic mobile satellite service licenses (AMSC), are not available or are inadequate to meet your communications requirements:

TERMINAL

[STA LICENSE LETTER APPLICATION]

8.7. 1998

Mr. William F. Caton, Acting Secretary
 Federal Communications Commission
 1919 M Street, N.W., Room 222
 Washington, D.C. 20554

ATTN: Frank Wright,
 Office of Engineering and Technology

Re: Request for Special Temporary Authority
 for Radio Station License

Dear Mr. Caton:

Maritime Professional Training (Name of the applicant) herein requests a grant of special temporary authority for a new mobile radio station license beginning 8/8/98 and extending until 8/8/200 to operate 1 (number of units) land-based INMARSAT ship earth station(s) from temporary-fixed locations in the United States. In support of this request, *Maritime Pro. Training* (Name of the applicant) submits the following information:

1. Applicant's Name and Address:

Maritime Professional Training
 1921 South Andrews Ave
 Ft Lauderdale, FL 33316

2. Name and Address of the Person for inquiries regarding this request:

David Greenspan, Instructor same address

3. Particulars of Operation:

Frequency	Power	Modulating Signal	Necessary Bandwidth
1625.5 to 1646.5 MHz	14dBW EIRP	1200 sym/sec BPSK	5 KHz

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4. Geographical location of the proposed operation:

Same address as applicant in Ft Lauderdale FL

5. Antenna Type: Directional _____ Non-Directional _____
Width of beam in degrees at the half-power point: _____
Orientation: Horizontal plane _____ Vertical plane _____SEE Attached specification sheet
from Manufacture.6. Transmitting equipment to be installed:
Manufacturer _____ Type _____

Number _____

SEA

model 403020C

97206788

Maritime Pro Training, (Name of the applicant) a U.S. corporation organized under the laws of the state of Florida, affirmatively states that it does not in any manner act as a representative of a foreign government or a subdivision thereof nor would the authorization sought herein be used for the exclusive purpose of developing radio equipment for export that would come under the jurisdiction of a foreign government. The applicant has never had any FCC station license revoked or any application for permit, license, or renewal ever denied by the Commission.

Maritime Pro Training (Name of the applicant) further states that grant of this request would not have a significant environmental impact and, thus, does not require an Environmental Statement under Section 1.1307 of the Commission's Rules. Unless otherwise indicated in an attachment to this request, the authorization sought herein will not be sought for fulfilling the requirements of a government contract with an agency of the United States Government.

In addition, Maritime Pro Training (Name of the applicant) further certifies that neither the applicant, nor any other party to this application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 853a.

This temporary license is sought by Maritime Pro Training (Name of the applicant), a Corporation (type of business), to operate 1 (number of units) INMARSAT (terminal type) terminal(s) from temporary-fixed locations in the United States to provide Training (type of service) services. Simultaneous to this request, COMSAT has submitted to the Common Carrier Bureau a request for special temporary authority to provide satellite communications services to the subject terminal(s) via

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the INMARSAT system for the purposes stated herein.

Accordingly, Maritime Pro Training (Name of the applicant) respectfully submits that the public interest would be served by the operation of the subject terminal for the aforementioned purposes and, thus, requests that the Commission grant the instant request for temporary authority.

The requisite filing fee of \$45 is enclosed.

Respectfully submitted

David Draper
(Title) *Instruction*
(Telephone number)
954-525-1014

cc: Sylvia Lam
Carl Huie

Specifications

General

Inmarsat T/A: TA-04-060-04. Meets or exceeds all current and proposed specifications for the Inmarsat-C Network and SOLAS/GMDSS requirements, including CN114, IMO A.807(19), IEC 1097-4, IEC 945, EEC EMC and CE Mark

FCC ID:

BZ6SEA6003

Protocol:

Message transmission and reception with IA-5, ITA-2 and binary transfer to/from the following destinations: Telex, PSTN (telephone modems and fax modems), PSDN (X.25 network), EGC message reception with automatic geographical area selection, polling and data reporting with automatic transmission of position reports down to 1 per minute, special access codes, DNID messaging, program unreserved data reporting, pre-assigned data reporting, SOLAS distress calling facilities (GMDSS). Transmit message size: Max 32 Kbyte. Receive storage: 106 Kbyte.

Languages Available:

English, Cyrillic, French and Spanish

Transceiver

Transmit Frequency:

1626.5 to 1660.5 MHz

Receive Frequency:

1525.0 - 1559.0 MHz

GPS Frequency:

1575.42 MHz

Channel Spacing:

5/2.5/1.25 KHz

Modulation:

1200 symbols/sec BPSK

Ambiguity Resolution:

Unique Word

Coding:

R 1/2 K = 7 convolutional code. (interleaved code symbols RX)

Data Rate:

600 bits/second

RX Frame Length:

8.64 seconds

TX Signalling Access Mode:

Slotted ALOHA

TX Message Channel:

TDMA and FDMA, interleaved code symbol

Antenna Interface:

Standard 50 Ohm female TNC

GPS (Optional):

8 channel, 1 second update rate, 15 m RMS accuracy (100 m with S/A)

Terminal Interface:

Serial EIA-232-E DTE, CCITT Rec. V.24/28 110-38400 Baud IA-5 code, DB-9F connector

Printer Interface:

Standard parallel IEEE 1284 Centronics, DB-25F connector

I/O Interface:

NMEA 0183 version 2.1 ArcNet 2.5 Mbit, Remote Alarm, DB-15F

System Setup:

Flash EEPROM programming from operator terminal

Solid State Storage:

256 Kbyte RAM
512 Kbyte Flash

DC Power Source:

10 to 32 V floating DC
4.8/90 W Rx/Tx with GPS module

Ambient Temperature:

-25°C to 55°C operating
-40°C to 80°C storage

Electronic Unit Mounting:

Flange mounting, vertical or horizontal

Compass Safe Distance:

.5 m

General Antenna Specifications

Type:

Inmarsat-C/GPS omnidirectional, RHC polarized, G/T -23db/K, EIRP 14 dBW at 5° elevation. Coverage +90° to -15° elevation

Ambient Temperature:

-35°C to 55°C operating
-40°C to 80°C storage

Relative Humidity:

95% non-condensing at 40°C

Precipitation:

Up to 5 cm/hour, droplet size 0.5 to 4.5 mm

Wind:

Up to 200 km/h

Ice:

Up to 25 mm

Vibration Operational:

Random 5-20 Hz 0.005 g²/Hz,
20-150 Hz -3dB/Oct. (1.0g rms)

Vibration Survival:

Random 5-20 Hz 0.05 g²/Hz,
20-150 Hz -3dB/Oct. (1.7g rms)

Shock:

Half-Sine 20g/11ms

Standard Capacity Antenna

Max. Transmission Length:

10 Kbyte

Interface:

Female TNC Connector

Solar Radiation:

1200 W/m² max flux density

Mounting:

Roof, standard 1.5" tube

Heavy Capacity Antenna (optional)

Max. Transmission Length:

32 Kbyte

Interface:

Female N Connector

Solar Radiation:

Infrared, 500W/m²

Mounting:

Roof, standard 1.5" tube



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