

EXHIBIT 1

The proposed radio station is an Inmarsat Standard B portable terminal developed by Mobile Telesystems Inc., Model TCS-7700. The terminal was developed in accordance with the Inmarsat Standard B Systems Definition Manual, and has been Type Approved by Inmarsat, Certificate 3MT001, copy attached.

The proposed experimental station is for test and demonstration purposes. The tests are intended to further develop realtime signalling for mobile terminal to terrestrial link calls and vice versa via land earth stations, ie COMSAT.



## TYPE APPROVAL PARTICULARS

<p>Mobile Telesystems Inc. <i>Inmarsat-B</i> MES Model: <i>Ultralite-B TCS 7700</i>          Class 2 Land Transportable Single Channel MES          Certificate Number <i>3MT001</i></p>
<p><b>Type Approval</b>  <b>Particulars Issue No 02/ 19 August 1998</b></p>

### MES FUNCTIONAL DETAILS

User Services : Voice - Duplex  
 : Fax - Duplex  
 : Data - Duplex  
 : High Speed Data - 56 kbps & 64 kbps - Duplex

### ENVIRONMENTAL CONDITIONS

Temperature : -25 °C to +55°C  
 Humidity : 95% at 40°C  
 Power Supply : 90 - 270 VAC 47 - 63 Hz  
 EMC : As per SDM

### MES SOFTWARE VERSIONS

Software : 2.0

These particulars form part of the Type Approval letter dated 19 August 1998 and issued in accordance with any conditions therein. Certified Type Approved for and on behalf of Inmarsat.

Signed:

19 August 1998

Oliver Lynch

**Group Leader**

**Mobile Earth Station Engineering**

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International Mobile Satellite Organization



Certificate No. 3MT001

# Type Approval Certificate

## Inmarsat-B Mobile Earth Station

Mobile Telesystems Inc., the manufacturer of a Mobile Earth Station identified as **Ultralite-B TCS 7700**, has submitted test data which demonstrates that the said Mobile Earth Station model when operating in the environmental conditions set forth in its Type Approval Particulars meets the applicable technical requirements for use with the Inmarsat Satellite Communications System, as issued by Inmarsat in the document entitled System Definition Manual, for the Inmarsat-B Communications system.

Mobile Telesystems Inc. has certified that all other units of the same type will meet all technical requirements in a similar manner to the unit subjected to test and that the tests have been conducted in accordance with procedures approved by Inmarsat. The full technical details of the **Ultralite-B TCS 7700** are documented in its formal Type Approval Particulars.

Inmarsat does hereby certify that the Mobile Earth Station model identified herein is acceptable for use with the Inmarsat Satellite Communications System as of the date of this Certificate.

Inmarsat  
99 City Road,  
London, EC1Y 1AX,  
United Kingdom

Inmarsat

By:

A handwritten signature in black ink, appearing to read "Warren Grace".

Name:

Warren Grace

Title:

Director General

Type Approval Date:

19 August 1998

1. This certificate does not authorise the operation of the mobile earth station in the Inmarsat System. Such authorisation requires commissioning after installation, in accordance with commissioning procedures established by Inmarsat. In addition, the operation of the mobile earth station may also be subject to national licensing requirements.

2. This certificate is intended only as formal notification to the manufacturer that Inmarsat has determined, on the basis of data submitted by the manufacturer, that mobile earth stations of the type identified herein meet the standards for use with the Inmarsat System. This certificate is not a warranty and Inmarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use, or misuse of this Certificate.