

5-3181-EX-98

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February 2, 1998

VIA MESSENGER

Federal Communications Commission
Equipment Approval Services
P.O. Box 358320
Pittsburgh, Pennsylvania 15251-55320

ORIGINAL

Granted 6028-EX-PL-98
instead.

DJ 2/13/98

RE: Globecomm Systems, Inc.

Request for Special Temporary Authorization to to Test and Demonstrate Earth
Stations over the INMARSAT-B Satellite

Dear Sir or Madam:

Globecomm Systems, Inc. ("GSI"), by its attorney, hereby requests Special Temporary Authorization pursuant to Section 5.56 of the Commission's rules to test and demonstrate mobile earth stations over the INMARSAT-B satellite system. GSI requests that authority be granted immediately until appropriate action is taken on its application for permanent experimental authority which is being filed simultaneously with this Request.

GSI is an established company which designs, manufacturers and markets portable satellite terminals for image, voice data and video services. GSI's entire portable terminal system may be transported in one case (even as airline luggage) and its intended for use in the health and safety field; for example, it may be utilized by public safety and crisis officials to establish effective temporary communications service.

GSI's temporary operation of the subject earth station will allow demonstration of its sophisticated satellite transmissions technology alternatives. This Request would allow GSI to test and demonstrate its products until permanent authorization is granted. Grant of this Request would serve the public interest by facilitating the development and demonstration of satellite communications network alternatives. GSI respectfully requests that its Request be granted as soon as possible so that it can meet the customer demands and requests for this new and innovative demonstration. GSI is preparing to do special application testing for several government and commercial customers including INS, CBS News, and others that require on the air verification of performance of the applications within the next 30 days. In order to meet these vital requests, GSI is seeking this Request for temporary authority.

In accordance with Section 5.56 of the Commission rules, GSI submits the following information:

- 1) Globecom Systems, Inc.
45 Oser Avenue
Hauppauge, New York 11788-3816
- 2) See above regarding need for special action.
- (3&4) GSI wishes to conduct testing and demonstrations of its technology to further mobile satellite technology using its small portable earth stations.
- 5) GSI is seeking temporary authorization until permanent authorization is granted.
- 6) GSI seeks to test its mobile earth stations using an INMARSAT satellite.
- 7) Fixed.
- 8) GSI will be using its own transmitting equipment, Model Number GSI-3001.
- 9) GSI seeks to utilize the following frequencies: 1626.5-1646.5 MHz.
- 10) The emission will be 20KG1W.
- 11) The overall height of the antenna structure will be ground level.

GSI simultaneously files its application for permanent authority and has enclosed a copy hereto for the Commission's convenience. Until such application is granted, GSI submits this Request and has attached an Anti-Drug Certification Statement. A check for Forty-Five Dollars (\$45.00) is attached hereto with FCC Form 159 to serve as the appropriate filing fee and form. The appropriate information has also been submitted to COMSAT to receive their waiver for use of the INMARSAT-B satellite. A copy is attached hereto for your convenience.

Please direct all questions and correspondence to the undersigned.

Very truly yours,



Michelle A. McClure

Enclosures

IRWIN, CAMPBELL & TANNENWALD, P.C.

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Federal Communications Commission
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P.O. Box 358320
Pittsburgh, PA 15251-5320

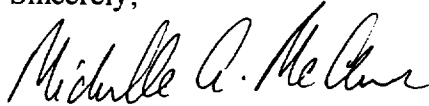
Re: Globecomm Systems, Inc.
Application for New Experimental Radio Station Authorization

Dear Sir or Madam:

Globecomm Systems, Inc. ("GSI"), by its attorney, hereby submits in triplicate FCC Form 442 for an application for a new Experimental Radio Station Authorization. GSI, an equipment manufacturer of small portable earth station terminals wishes to demonstrate and test these terminals over the INMARSAT-B satellite. GSI has simultaneously filed a Request for Special Temporary Authority to begin experimentation immediately.

Attached hereto is a check for Forty-Five Dollars (\$45.00) and an FCC Form 159 to serve as the appropriate fee and form. Please direct all questions and correspondence to the undersigned.

Sincerely,



Michelle A. McClure

Enclosure

Anti-Drug Abuse Act Certification

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 853a, or, in the case of a non-individual applicant (e.g. corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section.

YES X

NO _____

Name of Applicant Globecom Systems Inc Date 30 Jan 1998Signature Gerald A. Gutman Title Vice President

If you answered no, indicating that the applicant is subject to a denial of federal benefits pursuant to the above mentioned Act, please provide an explanation below.

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5
OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

1. Applicant's Name and Post Office address
(Street address, city, state, and ZIP Code. See Instruction
No. 4)

Globecom Systems, Inc.
45 Oser Avenue
Hauppauge, NY 11788-3816

DO NOT WRITE IN THIS BLOCK
File No.

2(a). Application for (check only one box)

☒ New station ☐ Modification of existing authorization

2(b). For Modification indicate below:

File No: Call Sign:

3. Application for Modification: Check the box beside all particulars to be modified. Check either addition or replacement to indicate whether the change is an addition or a replacement of parameters in the current authorization.

☐ FREQUENCY - ☐ EMISSION - ☐ POWER - ☐ LOCATION -
☐ addition or ☐ replacement? ☐ addition or ☐ replacement? ☐ addition or ☐ replacement? ☐ addition or ☐ replacement?

☐ OTHER PARTICULARS - addition or replacement? (Describe below or in attached EXHIBIT No. _____)

4. Particulars of Operation (see instruction below)

Frequency (state whether kHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
1626.5 -						
1646.5 MHz	RHC	33 dbw		20KG1W	O-QPSK	See Below*

- (A) List each frequency or frequency band separately. (If more space is required, attach as EXHIBIT No. _____)
- (B) Insert maximum R.F. output power at the transmitter terminals. Specify units.
- (C) Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Specify units.

- (D) Insert "MEAN" or "PEAK" (See definitions in Part 5).
- (E) List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)
- (F) Insert as appropriate for the type of modulation:
- (1) the maximum speed of keying in bauds;
 - (2) maximum audio modulating frequency;
 - (3) frequency deviation of carrier;
 - (4) pulse duration and repetition rate.

For complex emissions, describe in detail in the space provided below.

- (G) Describe how the necessary bandwidth was determined in space provided below.

* **NOTE:** Bandwidth established by Inmarsat for its global network.

5(a). Proposed location of transmitter and transmitting antenna (check only one box to indicate type of operation):
☒ FIXED/BASE ☐ MOBILE ☐ BASE AND MOBILE

5(b). If permanently located at a FIXED location, give below:

State NY	County Suffolk	City or Town Hauppauge
Number and street (or other indication of location) 45 Oser Avenue		

5(c). If mobile, describe the exact area of operation

5(d)(1). Enter geographical coordinates exact to the nearest second (see instruction 10)

North Latitude (DD-MM-SS) 0 " "	West Longitude (DD-MM-SS) 0 " "	North Latitude 0 " "	West Longitude 0 " "
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5(d). Datum (see instruction 10): ☐ NAD 27 ☐ NAD 83

6. Is a directional antenna (other than radar) used? ☒ YES ☐ NO
If "YES", give the following information:
(a) Width of beam in degrees at the half-power point: 15°
(b) Orientation in horizontal plane manual pointing (c) Orientation in vertical plane manual pointing

7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? ☐ YES ☒ NO
If "YES", attach as EXHIBIT No. _____ a narrative statement describing the government project, agency and contact number.

8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? ☐ YES ☒ NO
If "YES", attach as EXHIBIT No. _____ the following information: Provide the contract number and the name of the foreign government concerned.

9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project). ☐ YES ☒ NO
If "YES", attach as EXHIBIT No. _____ a narrative statement providing the following information:
(a) A description of the nature of the research project being conducted.
(b) A showing that the communications facilities requested are necessary for the research project involved.
(c) A showing that existing communications facilities are inadequate.

10. If all the answers to Items 7, 8, and 9, are "NO", attach as EXHIBIT No. 1 a narrative statement describing in detail the following:
(a) The complete program of research and experimentation proposed including description of equipment and theory of operation.
(b) The specific objectives sought to be accomplished.
(c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.

11(a). Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: Two (2) years
(b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required: _____

12. Would a Commission grant of this application come within Section 11807 of the FCC Rules, such that it may have a significant environmental impact (see instruction 11)? ☐ YES ☒ NO
If "YES", attach as EXHIBIT No. _____ an Environmental Assessment as required by Section 11811.

13. List below transmitting equipment to be installed (If experimental, so state):

MANUFACTURER	MODEL NUMBER	NO. OF UNITS
Globecom Systems, Inc.	GSI-3001	2

Is the equipment listed in Item 13 capable of station identification pursuant to Section 5152? ☒ YES ☐ NO

Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? ☐ YES ☒ NO

If "YES", give the following (see instruction 9):

(a) Overall height above ground to tip of antenna is _____ meters.

(b) Elevation of ground at antenna site above mean sea level is _____ meters.

(c) Distance to nearest aircraft landing area is _____ kilometers.

(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.

(e) Submit as EXHIBIT No. _____ a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.

13. Applicant is: (check only one box)

☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☒ CORPORATION

☐ OTHER (describe in space provided below)

17. Is applicant a foreign government or a representative of a foreign government? ☐ YES ☒ NO

18. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission? ☐ YES ☒ NO

If "YES", attach as EXHIBIT No. _____ a statement giving call sign of license or permit revoked and relate circumstances.

19. Will applicant be owner and operator of the station? ☒ YES ☐ NO

20. Give name, title, and telephone number (include area code), and Internet e-mail address (if applicable) of person who can best handle inquiries pertaining to this application.

Gerald A. Gutman, Vice President, 516-231-9800 ext. 231, ggutman@Globecommsystems.com

21. APPLICANT ANTI-DRUG ABUSE CERTIFICATION:

By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5801 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47 CFR 1.2002(b).

☒ YES ☐ NO

22. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.

EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM	EXHIBIT NUMBER	ITEM NO. OF FORM
1	10				

23 CERTIFICATION:

Attention: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of FCC Rule Parts 2 and 5 are on hand; and
- (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission:
 - (1) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
 - (2) that the applicant will be authorized to operate on any basis other than experimental, and
 - (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

APPLICANT CERTIFIES FURTHER THAT:

- (e) All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and
- (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

Signed and dated this 30TH day of January, 19 98

Name of Applicant Globecom Systems, Inc.
(must correspond with name given on page 1)

By Gerald A. Gutman Gerald A. Gutman
(print) (signature)

Title Vice President

Check appropriate classification:

- ☐ Individual applicant ☐ Member of applicant partnership
☐ Authorized employee ☒ Office of applicant corporation or association

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 LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974
 AND THE PAPERWORK REDUCTION ACT OF 1980

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specified by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered by the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.469 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

Public reporting burden for this collection of information is estimated to average four (4) hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington, DC 20554. DO NOT send completed applications to this address. Individuals are not required to respond to this collection unless it displays a currently valid OMB control number.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Exhibit I

Globecomm Systems Inc. Application
(Supplement to Question #10)

- (a) As a manufacturer of Inmarsat-B Land Mobile Earth Stations, Globecomm Systems Inc. is constantly developing and testing new applications for our customers. These include global wireless access using Inmarsat-B high speed data services to access corporate LANs, the internet, and other types of wide area networking applications from areas where alternative methods of access are not available. The equipment used includes the GSI-3001 Inmarsat-B MES, Cisco routers, ISDN terminal equipment, H.320 video conferencing systems and other types of network equipment.
- (b) The specific objectives sought to be accomplished include the verification of network optimization, configuration, and performance with specific emphasis on the impact of satellite delays on various protocols including TCP/IP and other IP based technology.
- (c) While a lot of work has been done using TCP/IP protocols over Ku and C-band systems, there has not been as much over mobile systems using high speed data rates of 64 Kbps and higher. IP protocols over satellite is a major area of interest for many corporate and government users and this will be a major focus of this development and test effort.