



Federal Communications Commission
Washington, D.C. 20554

JUN 13 1997

Gary C Yokum
Account Manager
IWL Communications, Inc.
4311 FM 2351
Friendswood, Texas 77546

Reference: Experimental Application File No: S-1608-EX-94
Signature Date: July 11, 1994

Dear Mr. Yokum:

This is in reference to our letter dated March 13, 1997, requesting additional information regarding your application for an experimental license. To date, we have not received a response to our inquiry.

Please be advised that in accordance with Section 5.60(b) of the Commission's Rules, the above referenced application has been dismissed without prejudice.

Sincerely,

A handwritten signature in cursive script, reading "Paul L. Marrangoni", is positioned above the printed name and title.

Paul L. Marrangoni
Chief, Experimental Licensing Branch



Federal Communications Commission
Washington, D.C. 20554

MAR 13 1997

Gary C. Yokum
Account Manager
IWL Communications, Inc.
4311 FM 2351
Friendswood, TX 77546

RE: Experimental Application File No: S-1608-EX-94
Signature Date: July 11, 1994

Dear Mr. Yokum:

The above referenced application has been pending with the FCC for a considerable period awaiting approval from the International Bureau of the FCC granting COMSAT authority to service the Inmarsat equipment listed in your application. To date we have been unable to obtain the necessary clearance, hence the delay in granting the license.

If you have received a letter issued to Comsat Mobile Communications, giving them permission to serve the Inmarsat equipment in your application, please send us a copy and we will resume processing your application. If you have not received such a letter, and the requirement for this operation still exists, please contact Comsat to obtain a copy of approval from the FCC to serve these terminal(s). In either case and in view of the long pendency of your application, please indicate to me in writing, whether or not you wish to continue to prosecute your application.

Please submit the requested information to the FCC, 2000 M St., N.W., Suite 230, Washington, D.C. 20554, Attn: OET/NTDD/ELB, MS 1300E1, Ms. Peggy Fowler. Failure to respond within 30 days will result in the dismissal of your application in accordance with Section 5.60(b) of the Commission's Rules.

Sincerely,

Paul L. Marrangoni
Chief
Experimental Licensing Branch

FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

APPROVED BY OMB
3060-0065
Expires 12/31/95

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) IWL COMMUNICATIONS, INC. 4311 FM 2351 FRIENDSWOOD, TEXAS 77546	DO NOT WRITE IN THIS BLOCK File No. S-1608-EX-94 ✓
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2(a). Application for (check only one box)

2(b). For Modification indicate below:

☒ New station ☐ Modification of existing authorization

File No. Call Sign

Application for modification indicate whether change is an addition or replacement of (check all that apply)

☐ FREQUENCY ☐ EMISSION ☐ POWER ☐ LOCATION

☐ OTHER PARTICULARS (describe below or in attached EXHIBIT No. _____)

4. Particulars of Operation (see instruction below)

Frequency (state whether MHz or MHz)	POWER			EMISSION	MODULATING SIGNAL	NECESSARY BANDWIDTH (kHz)
(A)	(B)	(C)	(D)	(E)	(F)	(G)
1626.5 to	25W	34dBW	Peak	20KG1W	0- OPSK	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).
- (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 4. (G)

BANDWIDTHS ARE ESTABLISHED BY THE INTERNATIONAL MARITIME
SATELLITE ORGANIZATION FOR USE IN THE INMARSAT
SYSTEM OF SATELLITE COMMUNICATIONS.

5(a). Proposed location of transmitter and transmitting antenna (check only one box)

☐ FIXED/BASE☒ MOBILE☐ BASE AND MOBILE

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

State

County

City or Town

Number and street (or other indication of location)

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

WITHIN THE U.S. FOR DEMONSTRATION OF OPERATION. FOR USE AROUND THE WORLD BY CUSTOMERS WHO HAVE OBTAINED PERMISSION FOR USE BY THE PTT OF THE LOCAL GOVT.

5(c). Enter geographical coordinates exact to the nearest second

North Latitude

West Longitude

North Latitude

West Longitude

°

°

29-45-00

95-02-00

6. Is a directional antenna (other than radar) used?

If "YES", give the following information:

☒ YES☐ NO(a) Width of beam in degrees at the half-power point 15 DEGREES(b) Orientation in horizontal plane MANUALLY POINTED

(c) Orientation in vertical plane

MANUALLY POINTED

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.

(b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required. 6 MONTHS

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?

☐ YES☐ NO

If you answer "YES", submit an Environmental Assessment required by Section 11811

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

MANUFACTURER

TYPE

NO. OF UNITS

VIASAT TECHNOLOGY
CORPORATION

MODEL "LYNXX"

14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152? ☒ YES ☐ NO
15. 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.

Applicant is: (check only one box)

- ☐ INDIVIDUAL ☐ ASSOCIATION ☐ PARTNERSHIP ☒ CORPORATION
- ☐ OTHER (describe 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) of person who can best handle inquiries pertaining to this application.
- GARY C. YOKUM ACCOUNT MANAGER 713-482-0289

21. APPLICANT ANTI-DRUG ABUSE CERTIFICATION:

By checking "YES", the applicant certifies that, in the case of an individual applicant, he or she is not subject to denial of federal benefits, that includes FCC benefits, pursuant to Section 5601 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862, or, in the case of a non-individual applicant (e.g. corporation, partnership, or other unincorporated association), no party to the applicant is subject to a denial of federal benefits, that includes FCC benefits, pursuant to that section. For the definition of "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:

- (a) 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 11th day of JULY, 19 94

Name of Applicant IWL COMMUNICATIONS, INC.

(must correspond with name given on page 1)

By GARY C. YOKUM

(print)

(signature)

Title ACCOUNT MANAGER

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 specifically by Section 608 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 the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, PL 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, PL 96-341, DECEMBER 11, 1980, 44 U.S.C. 3507.



EXHIBIT 1

FCC FORM 442
SUBMITTED BY
IWL COMMUNICATIONS, INC.

IWL Communications, Inc. will perform testing of the ViaSat Technology Corp model "Lynxx" (202) INMARSAT-B portable satellite terminal in the Friendswood, TX facility during late July to December 1994.

This testing will be in conjunction with new equipment installations at the COMSAT Land Earth Station at Southbury, CT and Santa Paula, CA that will provide high-speed data (HSD) capabilities and services for worldwide users. COMSAT is the U.S. Signatory to INMARSAT, London. This HSD service at 64 Kbps will provide remote capabilities of video conferencing, multiplexing and computer-to-computer data transmissions.

In addition, this testing will be performed as a Beta test case representing ViaSat Technology Corporation for operation of the "Lynxx" terminal over the HSD channels. These Beta tests will also act as a pilot test to Exxon Company, U.S.A., Inc. to use this system as a quick response communications package for worldwide emergency situations.

FEDERAL COMMUNICATIONS COMMISSION
FEE PROCESSING FORM



FCC/MELLON JUL 13 1994

Please read instructions on back of this form before completing it. Section I MUST be completed. If you are applying for concurrent actions which require you to list more than one Fee Type Code, you must also complete Section II. This form must accompany all payments. Only one Fee Processing Form may be submitted per application or filing. Please type or print legibly. All required blocks must be completed or application/filing will be returned without action.

SECTION I

APPLICANT NAME (Last, first, middle initial)

IWL COMMUNICATIONS, INC.

MAILING ADDRESS (Line 1) (Maximum 35 characters - refer to Instruction (2) on reverse of form)

4311 FM 2351

MAILING ADDRESS (Line 2) (if required) (Maximum 35 characters)

CITY

FRIENDSWOOD

STATE OR COUNTRY (if foreign address)

TEXAS

ZIP CODE

77546

CALL SIGN OR OTHER FCC IDENTIFIER (if applicable)

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in FCC Fee Filing Guides. Enter in Column (B) the Fee Multiple, if applicable. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number entered in Column (B), if any.

(A)	(B)	(C)								
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY							
(1) <table border="1"><tr><td>E</td><td>A</td><td>E</td></tr></table>	E	A	E	<table border="1"><tr><td></td><td></td><td></td><td>1</td></tr></table>				1	\$ 35.00	
E	A	E								
			1							

SECTION II

— To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)								
FEE TYPE CODE	FEE MULTIPLE (if required)	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY							
(2) <table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>					\$	
(3) <table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>					\$	
(4) <table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>					\$	
(5) <table border="1"><tr><td></td><td></td><td></td></tr></table>				<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>					\$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (5), AND ENTER THE TOTAL HERE.
THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING
\$ 35.00

FOR FCC USE ONLY
35.00