

Globe Wireless
550 Pilgrim Drive
Foster City, CA 94401
Phone 650-372-2650
Fax 650-372-2656

Fax

To: TONY SERAFINI From: Peter Kierans
Fax: 1-202 418 1918 Pages: _____
Phone: _____ Date: _____
Re: _____ CC: _____

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:

Re Email

Tony Original KQ2XVT licence
info. attached.

If you prefer, I can prepare a
completely new package.

I am leaving for Singapore today by
you can get me via email &
mobile 16508670469

Peter Kierans
I ho

1 MEYN ROAD, HALF MOON BAY, CA 94019

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

KQ2XVJ

(Call Sign)

XD FX, MO

(Class of Station)

4455-EX-PL-94

(File Number)

NAME GLOBE WIRELESSSee Below

(Location of Station)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications.

Frequency	Class	Emission	Authorized
	Stn	Designator	Power watts

See Attached Page 3

Station Location:

- (1) PEARL RIVER, (ST TAMMANY) LA - NL 30-22-12; WL 089-47-26
MOBILE: Within 161KM of PEARL RIVER
- (2) PALO ALTO, (SANTA CLARA) CA - NL 37-26-44; WL 122-06-44
MOBILE: Within 161KM of PALO ALTO
- (3) MELBOURNE, FL
Area Of Operation: WITHIN 161 KM RADIUS OF MELBOURNE
- (4) URBANA, IL
Area Of Operation: WITHIN 161 KM RADIUS OF URBANA
- (5) HI
Area Of Operation: WITHIN 161 KM RADIUS OF THE ISLAND OF MOLOKAI
- (6) US
Area Of Operation: SELECTED VESSELS IN THE PACIFIC AND ATLANTIC OCEAN AREAS.

This authorization effective April 11, 1995 and
will expire 3:00 A.M. EST April 1, 1997

**FEDERAL
COMMUNICATIONS
COMMISSION**



GLOBE WIRELESS

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Operation: In accordance with Sec. 5.202(c) & (g) of the
Commission's Rules.

Special Conditions:

(1) In lieu of frequency tolerance, the occupied bandwidth of the
emission shall not extend beyond the band limits set forth above.

(2) Licensee is only authorized those NBDP and facsimile channels
licensed under Part 80.363 of the FCC Rules.

GLOBE WIRELESS

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	Frequency	Class	Emission	Authorized
		Stn	Designator	Power watts
	KHz			
(1)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)
		FX	2K50J2D	1K (ERP)
		FX	300HF1B	5K (ERP)
		FX	400HJ2D	5K (ERP)
(2)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)
		FX	2K50J2D	1K (ERP)
		FX	300HF1B	5K (ERP)
		FX	400HJ2D	5K (ERP)
(3)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)
(4)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)
(5)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)
(6)	2000.00000-			
	30000.00000	MO	2K50J2D	150W (ERP)
		MO	300HF1B	150W (ERP)
		MO	400HJ2D	150W (ERP)

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:

(1) State LA County ST TAMMANY City or Town PEARL RIVER
 (2) CA SANTA CLARA PALO ALTO
 Number and street (or other indication of location)
 (1) CHRIS KENNEDY RD
 (2) 2601 E. BAYSHORE RD.

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

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

North Latitude
 (1) 30° 22' 12"
 (2) 37 26 44

West Longitude
089° 47' 26"
122 06 44

5(e). Enter geographical coordinates of the approximate center of proposed area of operation (mobile applications)

North Latitude
 " " " " " "
 West Longitude
SEE EXHIBIT (B)

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 _____

(b) Orientation in horizontal plane _____ (c) Orientation in vertical plane _____

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. (C) 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.

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 1.1307 of the FCC Rules, such that it may have significant environmental impact?

☐ YES ☒ NO

If you answer "YES", submit an Environmental Assessment required by Section 1.1301.

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

MANUFACTURER

TYPE

NO. OF UNITS

FIXED STATIONS: EXISTING FCC APPROVED EQUIPMENT

MOBILE STATIONS: FCC TYPE APPROVED EQUIPMENT ONLY.

14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 8.152? ☒ 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.

16. 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. PETER KIERANS, COMMUNICATIONS MANAGER, 1-800-876-7236/1416784

OR CRAIG MCCARTNEY, MARKETING DIRECTOR, 1-800-876-7234/14153678232

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 5301 of the Anti-Drug Abuse Act of 1986, 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
(A)	4				
(B)	5(d)				
(C)	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 15th day of August, 19 94

Name of Applicant KFS WORLD COMMUNICATIONS

(must correspond with name given on page 1)

By PETER P. KIERANS (print) [Signature] (signature)

Title COMMUNICATIONS 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 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 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, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-611, DECEMBER 11, 1980, 44 U.S.C. 3507.

FCC FORM 442
EXPERIMENTAL APPLICATION

FROM:

KFS World Communications

Date: 1994-Aug. 15

EXHIBIT (A)

Frequency:

All licensed NBDP channels and facsimile frequencies
{CFR47, 80.363 (2)}

Power:

Palo alto Radio/KFS & Slidell Radio/WNU

NBDP frequencies : 5 Kw

Facsimile frequencies: 1 Kw

All Mobiles

All frequencies & modes: 150 Watts

Emission & bandwidth:

	Emission	Bandwidth
NBDP Frequencies	F1B	300 Hz
	J2DEN (Clover)	400 Hz
Facsimile Freqs.	J2DEN	2.5 Khz

NOTE:

This application and it's purpose has been discussed with George Dillon of the Special Services Branch, FCC.

KFS World Comm.(contd.)

EXHIBIT (B)

The following mobile locations are required:

- (1) Within 100 miles of Palo Alto, CA
- (2) Within 100 miles of Pearl River, LA
- (3) Within 100 miles of Melbourne, FL.
- (4) Within 100 miles of Urbana, Il.
- (5) On or within 100 miles of the Island of Molokai, Hi.
- (6) A selected number of vessels in the Pacific and Atlantic ocean areas.

EXHIBIT (C)

(a) Mobile stations at the sites listed will use FCC type approved 150W transceivers to communicate with Palo Alto Radio/KFS and Slidell Radio/WNU. Modems manufactured by Hal Communications of Urbana, Il., will be used by the mobiles and the fixed stations to communicate using:

F1B (TOR) on NBDP channels

400HJ2DEN on NBDP channels

2K5HJ2DEN On facsimile frequencies.

The hardware and software involved is designed in such a way that it's use will not in any way interfere with the ability of mobiles using traditional F1B technology and modems to access the communications system. KFS World Communications developed software will be used in conjunction with Hal modems to automatically determine and select the optimum working frequency under varying conditions.

(b) Test objectives are: to confirm the above (equal access), measure the actual throughput under various propagation and link conditions, determine the effectiveness of all of the software routines under practical conditions and to confirm that all FCC requirements are being met under practical operating conditions.

(c) We are confident that these tests will confirm that the use of this new technology and software can very greatly contribute to improved spectrum efficiency on HF frequencies and will also greatly improve the attractiveness, competitiveness and efficiency of HF marine communications.