

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL
(Nature of Service)

K K 2 X J M
(Call Sign)

XD MO
(Class of station)

S-2813-EX-97
(File number)

NAME Lawrence Behr Associates, Inc.

Greenville, NC - NL 35-36-58; WL 077-22-14

(Location of station)

Within 16 km of Greenville

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

Frequency (kHz)	Authorized Power (watts)	Emission Designator	Class of Station
650	400 (output)	6K00A3E/N0N	MO
1550	400 (output)	6K00A3E/N0N	MO

Purpose of Operation: Testing an antenna design for the US Army.

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

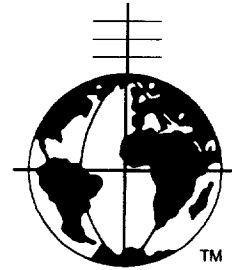
This authorization effective March 31, 1997 and
will expire 3:00 A.M. EST. September 30, 1997



S-2813-EX-97

210 W. Fourth Street
P.O. Box 8026
Greenville, NC 27835

Phone: 919-757-0279
FAX: 919-752-9155
12 February 1997



**Lawrence Behr
Associates, Inc.**

FCC Experimental Branch
Room 7322, Mail Stop 1300A4
2025 M Street, NW
Washington, DC 20554

Re: Experimental License KK2XJM

Gentlemen:

LBA technology, Inc. is the licensee of experimental station KK2XJM which authorizes the use of various frequencies in the AM broadcast band for testing of antenna designs at a maximum ERP of 10 watts within a 10 mile radius of Greenville, North Carolina.

LBA has a proposal pending to the US Army for a short transmitting antenna to be utilized in the AM broadcast band. The US Army desires tests on this antenna to be made with a transmitter output power of 400 watts. The antenna will be a top loaded folded unipole of a height of 50 feet also employing base loading for improved impedance matching.

We have performed an engineering analysis of 650 and 1550 kHz and do not believe that interference will be caused to any existing standard broadcast stations operating on these frequencies or adjacent channel frequencies. The expected radiation efficiency of the proposed antenna configuration with an input power of 400 watts is 193 mV/m at 1 kilometer for 1550 kHz and 59 mV/m at 1 kilometer for 650 kHz. The attached maps show the results of these studies. A STA authorizing such operation is hereby requested.

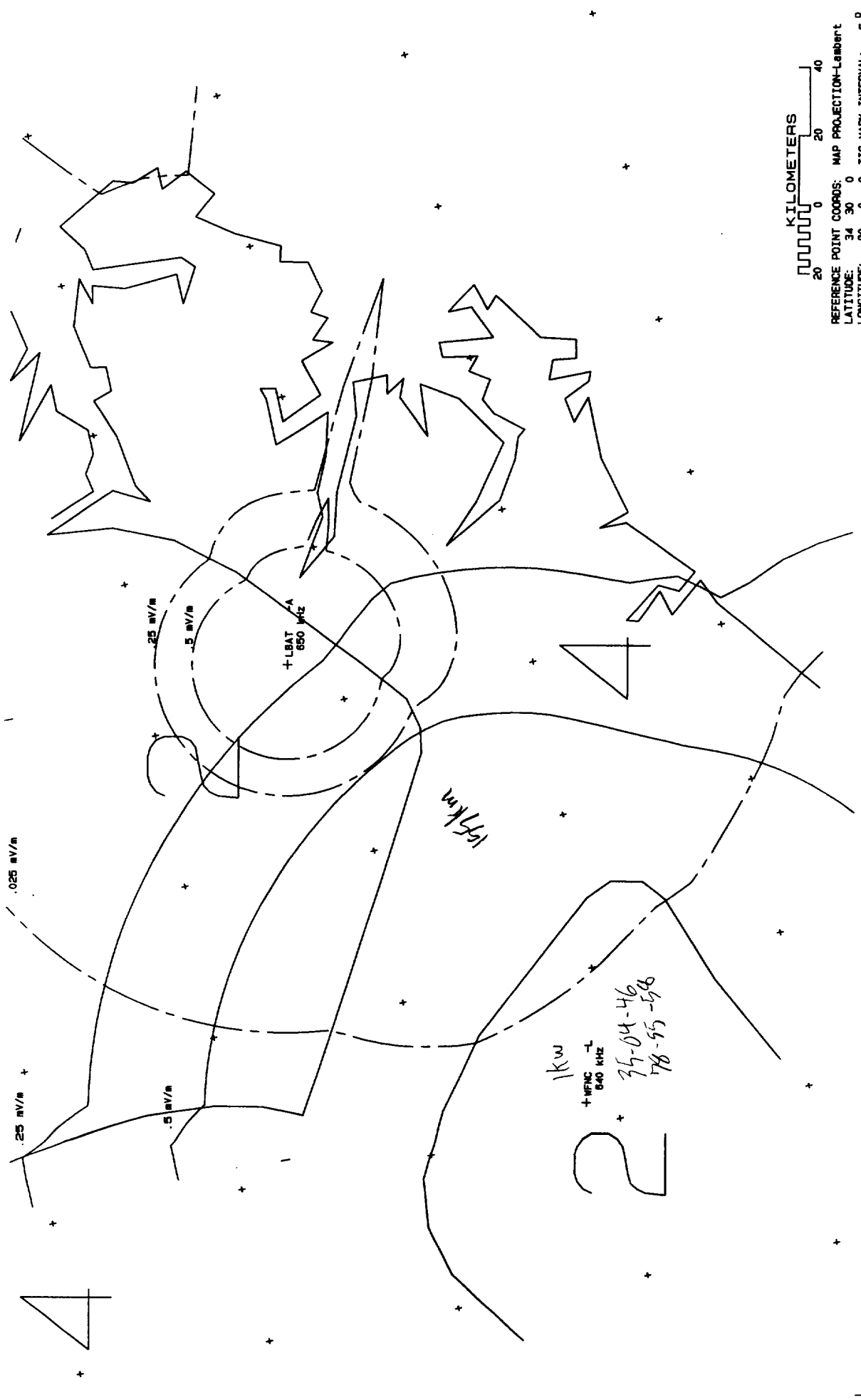
Although no interference is anticipated, tests will be suspended immediately should such interference be reported. All operations are planned for daylight hours only. It is requested that this STA be authorized as soon as possible and be valid for a 60 day period. A \$45.00 fee has been forwarded to Pittsburgh.

If there are any questions about this matter, please contact the undersigned.

Sincerely,

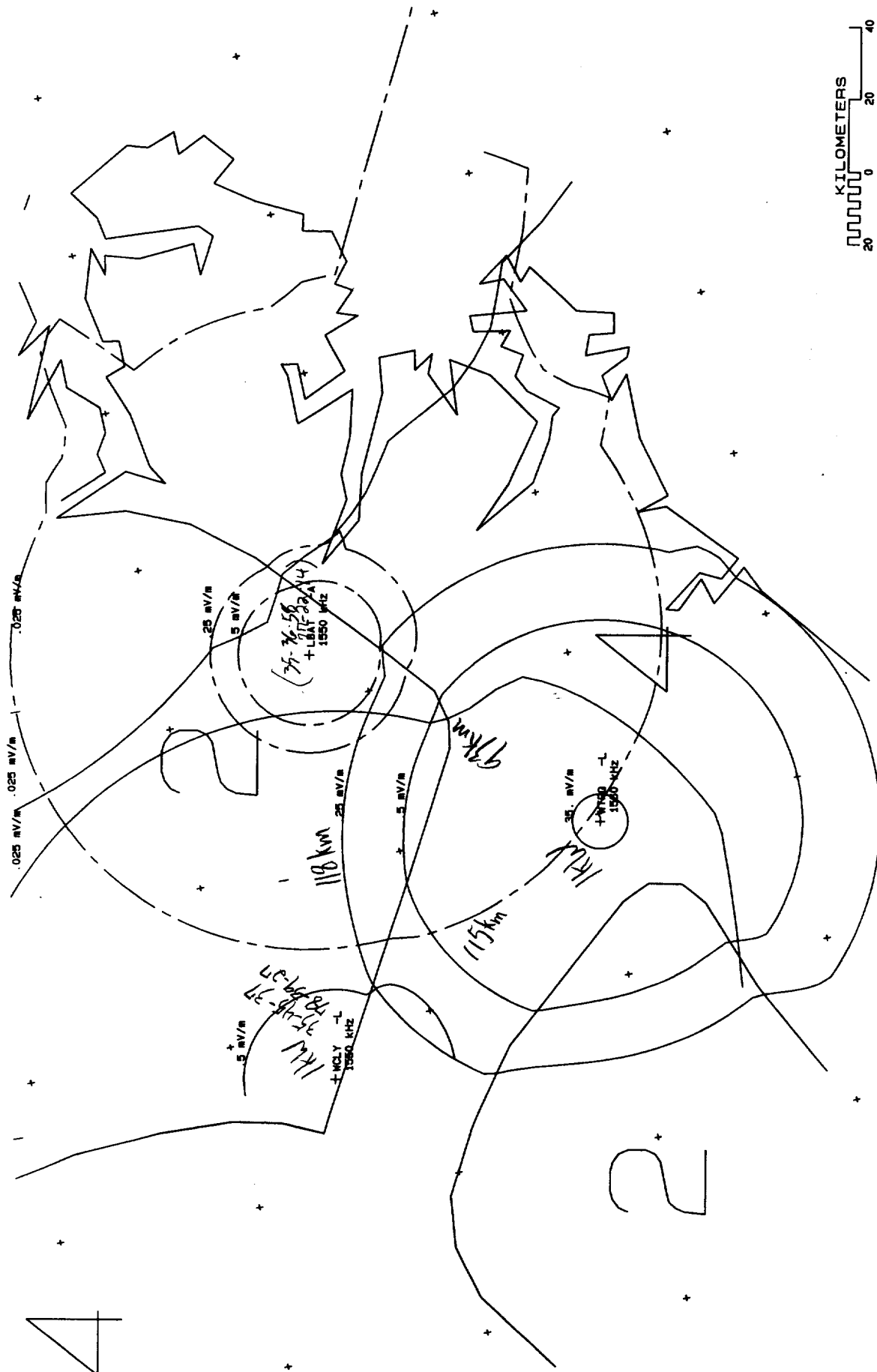
Raymond E. Rohrer, P.E.
Consulting Engineer

*Dropped off copy to James
Bottle, MMB 3/14/97*



KILOMETERS
 0 20 40

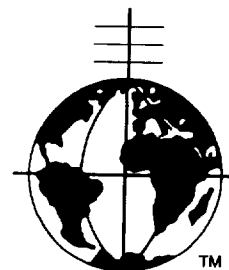
REFERENCE POINT COORDS: MAP PROJECTION-Lambert
 LATITUDE: 34 30 0
 LONGITUDE: 80 0 0 TIC MARK INTERVAL: .5 °



KILOMETERS
0 20 40
REFERENCE POINT COORDS: MAP PROJECTION-Lambert
LATITUDE: 34 30 0
LONGITUDE: 80 0 0
TIC MARK INTERVAL: .5 0

210 W. Fourth Street
P.O. Box 8026
Greenville, NC 27835

Phone: 919-757-0279
FAX: 919-752-9155



*Lawrence Behr
Associates, Inc.*

September 11, 1997

Mr. Douglas A. Young
FCC Experimental Branch
2000 M Street, NW, Suite 230
Mail Stop 1300-E1
Washington, DC 20554

In re: Experimental License KK2XJM, file number **S-2813-EX-97**

Dear Mr. Young:

I am sending \$45.00 to the Pittsburgh lockbox to cover the fee for application S-2813-EX-97. Copies of the fee form and check are attached.

This is in accord with our conversation today. Since you have no record of it and payment has not cleared our bank, we fear the payment has been lost.

Thank you for your help in this matter.

If there are any questions about this matter, please contact me.

Sincerely,

Kathryn G. Tesh
Technical Consultant

enclosure

cc. FCC lockbox, Pittsburgh PA

From: Douglas Young
To: A8.A8.JBURTLE
Date: 3/21/97 10:43am
Subject: Experimental STA Request

Any word or guidance yet on the experimental STA request for Lawrence Behr Associates, Inc. that I dropped off at your office last week?

Doug Young
OET Experimental Licensing Branch

From: James Burtle
To: J4.J4.DYOUNG
Date: 3/26/97 8:26am
Subject: STA status

The STA that you sent over for our review should be finished next week. Son Nguyen is the supervisor over that review and Hong Chow is the engineer. Please feel free to make direct inquiries to them.

Jim Burtle

From: James Burtle
To: J4.J4.DYOUNG
Date: 3/28/97 11:47am
Subject: STA is OK

Doug

The experimental STA that we were looking at for you is OK to grant.

Jim Burtle



FAX COVER SHEET

Page 1 of 2 pages

DATE: March 31, 1997

FROM: Douglas A. Young 1300 - C1
FEDERAL COMMUNICATIONS COMMISSION
Experimental Licensing Branch
2000 M Street, Suite 230
Washington, DC 20554

PHONE: (202) 418-2440

FAX: (202) 418-1918

TO: Mr. Raymond E. Rohrer
NAME

Lawrence Behr Associates, Inc.
COMPANY

(919) 757 - 0279
PHONE

(919) 752 - 9155
FAX

Mr. Rohrer:

Here is a copy of Lawrence Behr Associates, Inc.'s STA for station KK2XJM, File Number S-2813-EX-97. The original license will be mailed upon receipt of the original application.

Doug Young