ENGINEERING EXHIBIT E-2

APPLICATION FOR STATION LICENSE CONSTRUCTION PERMIT BPH-920306MA<br>WKNB - Clarendon, PA<br>Kinzua Broadcasting Co., Inc. Clarendon, PA

September 8, 1995

Prepared for: Mr. W. Leroy Schneck Kinzua Broadcasting Co., Inc. 310 2nd Avenue Warren, PA 16365

## Carl E. Smith Consulting Engineers

## CONTENTS

Title Page

Contents

FCC Form 302-FM
Section I
Section II

## Engineering Affidavits

Roy P. Stype, III
Earl L. Miller

Engineering Statement

FCC Letter

## APPLICATION FOR FM

FOR MASS MEDIA BUREAU USE ONLY
(Please read instructions before completing this form.)

Section 1 - GENERAL INFORMATION

B. If No, select the appropriate box to indicate reason for fee exemption (see 47 CF.R. Section 1.1112 ) or reason a fee is not applicable and go io Question 3.
$\square$ Govermental Entity $\quad \square$ Noncommercial educational licensee $\quad \square$ Oiner (Please explain):
C. If item 2.A. is Yes, provide the following information:

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number listed in Column (B).
(A)
(1)
(A)

| FEE TYPE CODE |  |  |
| :---: | :---: | :---: |
| $M$ | $H$ | $R$ |

(B)

(C)

| FEE DUE FOR FEE TYPE CODE $\mathbb{I N}$ COLUMN (A) | For fic use oner |
| :---: | :---: |
| \$ 135.00 |  |

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code
(2)

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (2), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOUD EOUAL YOUR ENCLOSED REMITTANCE.

| TOTAL AMOUNT REMITTED |
| :--- |
| WITH THIS APPLICATION |$|$| $\$ 135.00$ |
| :--- |

> FOR FCC USE ON Y
3. (a) Has an adverse finding been made or an adverse final action laken by any court or adminisirative body with respect to the applicant or parties to the application in a civil or crminal proceeding, brought under the provisions of any law related to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements 10 another govermmental unit; or discrmination?
(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred 10 in (a) above?

If the answer to (a) and/or (b) above is Yes, allach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed, and a description of the current status or disposition of the matter.
4. For permittees of commercial FM stations only:

Has permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with


The APPLICANT hereby waives any clam 10 the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See 47 U.S.C. Section 304.)

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in the application.

## CERTIFICATIONS

5. By checking Yes, the applicant certifies that, in the case of an individual applicant, he or she is not
 subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 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 application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 CF.R. Section 1.2002(b).

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

| Name of Applicant | Signature |
| :--- | :--- |
| Kinzua Broadcasting Co., Inc. |  |
| Title | Date |

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT
IU.S. CODE, TITLE 18, SECTION 1001 ), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 3 12(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

FCC NOTICE TO INDIVIDUALS REOUIRED BY THE PRIVACY ACT

The solicitation of personal information requested in this application is authorized by the Communications act of 1934 , as amended. The commission will use the information provided in this form to determine whether grant of this application is in the public interest. In reaching that determination. or for law enforcement purposes, it may be necessary to refer personal information contained in inis form io another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided. processing of the application may be delayed or the application may be returned without action pursuant io the Commission's rules. Your response is required to obtain the requested authority.
the foregoing notice is required by the privacy $\triangle C T$ OF 1974, P.L. 93-579, DECEMBER 31. 1974. 5 U.S.C. SECTION 552a(eX3).

SECTION \| - TECHNICAL DATA

1. Select one for each item. This application is for a:
(a) $\square$ Request for program test authority
$X$ Station on automatic program test authority
(b) $X$ Commercial stationNoncommercial station
(c) $\square$ Directional antenna
SPECIAL OPERATING CONDITIONS MAY PROHIBIT AUTOMATIC PROGRAM TEST AUTHORITY
2. Call Sign: $\qquad$ WKNB
3. Frequency or channel: $\qquad$ 282

Class: $\qquad$ A

| City | Clarendon |
| :--- | :---: | | Siate |
| :---: |
| PA |

5. Select one that applies and enter the file number(s) on the appropriate line(s). This application:
(a) X covers a construction permit. Original file number: $\square$
as modified by: $\qquad$
as extended by: $\quad \mathrm{BAPH}-941107 \mathrm{GE}$
as replaced by: $\qquad$
(b) $\square$ modifies a license, file number: $\qquad$
6. Is this application being filed pursuant to MM Docket No. 88-375 (Class A Upgrade)? See Instructions.

If YES, attach the supplemental Exhibit to this application.

Exhibit No. N/A

IF YOU SELECTED 5(b), "MODIFIES A LICENSE," PROCEED TO ITEM 8.
7. Expiration date of construction permit:

| Month 2 | Day 22 | Year 96 |
| :---: | :---: | :---: |

THIS APPLICATION MUST BE ON FILE WITH THE COMMISSION BEFORE THE EXPIRATION DATE OF YOUR CONSTRUCTION PERMIT. SEE INSTRUCTIONS.

SECTION II - TECHNICAL DATA (Page 2)
8. Description of facilities authorized by the construction permit or license noted in them 5(a) or 5(b).

(b) Effective radiated power:

(d) Radiation center above ground:
(e) Radiation center above mean sea level:
(f) Antenna height above average terrain:

| - | kW | - | kW |
| :---: | :---: | :---: | :---: |
| 44 | meters | 44 | meters |
| 617 | meters | 617 | meters |
| 113 | meters | 113 | meters |

(g) Overall tower height above ground (including antenna, all other 68 meters appurtenances, and lighting, if any):
9. Description of facilities as constructed:

10. Are there any differences between the facilities described in them 8 and those in tem 9 ?
$\square$ Yes $\quad \mathrm{X}$ o
If Yes, you may not be able to use this form. see instructions.

Altach an Exhibit explaining in detail how these differences occurred.
Exhibit No. N/A
11. Attach an Exhibit that demonstrates compliance with the special operating conditions, terms, and obligations described in the construction permit.

Exhibit No. E-2
12. Antenna description:

| Make | Model Number | Number of Sections | Power Gain |
| :---: | :---: | :---: | :---: |
| Harris | FML-3E | 3 | 1.5588 |

If the antenna utilizes beam tilt, null fill, reduced spacing (less than one wavelength) between bays or the antenna is directional or $S p$ cialized, an Exhibit must be attached. SEE INSTRUCTIONS.

| Exhibit $N o$. |
| :--- |
| $N / A$ |

13. Transmission line system description:
(a) Transmission line:

| Make | Model Number | Length in Meters |
| :---: | :---: | :---: |
| Andrew | HJ7-50A | 55 meters |

(b) Percent efficiency of entire transmission line system: 91.6

If any losses are included in $13(b)$ other than the loss of the transmission line listed in $13(\mathrm{a})$,
attach an Exhibit detailing these additional losses. See instructions.
14. Transmitter power output (in kilowatts): $\qquad$ kW
see instructions to calculate tpo.
15. Operating constants:

| (a) D.C. plate current in last radio stage (amperes): | 1.14 |
| :---: | :---: |
| (b) Applied D.C. voltage in last radio stage (volis): | 3820 |
| (c) Efficiency of transmitter at operating power (percent): | 75.5 |
| (d) RF transmission line meter reading (percent): | 100 |

SEE INSTRUCTIONS TO CHECK OPERATING CONSTANTS.
16. Is the main studio within the $3.16 \mathrm{mv} / \mathrm{m}(70 \mathrm{dBu})$ field strength contour of the main facility?


If NO, attach an Exhibit pursuant to the instructions.
17. Location of Main Studio: (P.O. BOXES ARE UNACCEPTABLE)

| Street Address or Location Description |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
|  | 310 Second Avenue |  |  |  |
| City | Warren | County |  |  |

18. Location(s) of Remote Conirol Point(s):
(3)

Street Address or Location Description

310 Second Avenue

| City | Warren | Sounty |  |
| :--- | :--- | :--- | :--- |

(b)


If there are additional remole control points, attach an Exhibit which describes their locations.
Exhibit No. N/A
19. Location of Antenna Site:

Sireel Adoress or Location Description

512 Mohawk Avenue, Ext.

| City | Warren | County Warren |
| :---: | :--- | :--- |

## 20. CERTFICATION OF PREPARER

I certify thet 1 represent the applicant in the capacity indicated below and that I have examined the foregoing statement of ierhnical information and that it is true to the best of my knowledge and belief.

| Name (please print or type) <br> Earl L. Miller | signature (check appropriate box below) |
| :---: | :--- |
| Address (include ZIP Code) |  |
| 2324 N. Cleveland-Massillon Road |  |
| Bath, OH 44210 | Date |
|  | Telephone No. (include Area Code) $216 / 659-4440$ |

Technical Director
Registered Professional Engineer

Chief Operator
X Technical Consultant
$\square$ Oiner (specify)

## FCC NOTICE TO INDIVIDUALS REOUIRED BY THE PAPERWORK REDUCTION ACT

Public reporting burden for this collection of information is estmated to average 4 hours per response. This estimate includes the ime for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estmate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent 10 the Federal Communications Commission, Information Resources Branch, Room 416, Paperwork Reduction Project, Washington, D.C. 20554, and 10 the Office of Nanagement and Budget, Paperwork Reduction Project (3060-0506), Washington, D.C. 20503.

Th. FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 19,1980 , 44 U.S.C. 3507.

## ENGINEERING AFFIDAVIT

State of Ohio
County of Summit )
) ss:

Roy P. Stype, III, being duly sworn, deposes and states that he is a graduate Electrical Engineer, a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting Engineers" located at 2324 North Cleveland-Massillon Road in the Township of Bath, County of Summit, State of Ohio, and that the Firm has been retained by Kinzua Broadcasting Co., Inc. to prepare the attached "Engineering Exhibit E-2."

The deponent states that the Exhibit was prepared by him or under his direction and is true of his own knowledge, except as to statements made on information and belief and as to such statements, he believes them to be true.


Subscribed and sworn to before me on September 8, 1995.


## ENGINEERING AFFIDAVIT

State of Ohio )
County of Summit

Earl L. Miller, being duly sworn, deposes and states that he is a qualified and experienced Communications Consulting Engineer whose works are a matter of record with the Federal Communications Commission and that he is a member of the Firm of "Carl E. Smith Consulting Engineers" located at 2324 North ClevelandMassillon Road in the Township of Bath, County of Summit, State of Ohio, and that the Firm has been retained by Kinzua Broadcasting Co., Inc. to prepare the attached "Engineering Exhibit E-2."

The deponent states that the Exhibit was prepared by him or under his direction and is true of his own knowledge, except as to statements made on information and belief and as to such statements, he believes them to be true.


Earl L. Miller

Subscribed and sworn to before me on September 8, 1995.


Notary Public
/SEAL/

## ENGINEERING STATEMENT

This engineering exhibit is prepared on behalf of the Kinzua Broadcasting Co., Inc., permittee of construction permit BPH-920306MA for new FM station WKNB Clarendon, Pennsylvania. It supports an application for a station license following the completion of the construction authorized by this construction permit.

This construction permit authorized WKNB to construct facilities to operate on FM Channel 295A (106.9 MHz). The Report and Order in MM Docket 92-173, released on February 5, 1993, however, modified this construction permit to specify operation on Channel 282A ( 104.3 MHz ), to accommodate the allotment of Channel 295B1 to Lakewood, New York. Pursuant to this ordered modification, the WKNB operating facilities have been constructed on Channel 282A, as reported in Paragraph 3 on Page 3 of FCC Form 302-FM.

This construction permit contains a condition requiring that impedance measurements be conducted on the antenna system of WNAE(AM) - Warren, Pennsylvania, following the installation of the WKNB antenna system, and that the results of these measurements be submitted to the FCC as part of an application for direct measurement of power for WNAE. These antenna base impedance measurements were conducted on August 30, 1995, and are detailed in an application for direct measurement of power for WNAE, which is being filed concurrently with the attached application for station license.

This construction permit also contains a condition indicating that the automatic program test provisions of Section 73.1620 of the FCC Rules do not apply in this situation and requiring that a certification be submitted as a part of this application docu-
menting that a fence, with appropriate warning signs, has been constructed to restrict access to any area within 5.2 meters of the tower base to prevent exposure to excessive levels of nonionizing radiation, before program tests will be authorized. This condition, however, contains a provision permitting documentation of compliance to be submitted prior to the filing of a license application, permitting this condition to be eliminated and automatic program tests to be authorized. The documentation required to comply with this condition was submitted to the FCC on August 30, 1995. Attached to this application is a copy of a responsive letter from the FCC eliminating this condition and permitting WKNB to conduct program tests pursuant to the automatic program test provisions of Section 73.1620 of the FCC Rules.

Based upon the above information, the WKNB operating facilities are in full compliance with construction permit BPH-920306MA, as modified by the Report and Order in MM Docket 92-173, and the station has commenced program tests.

# Federal Communications Commission <br> Washingron, D.C. 20554 

In repty refer to:
180083-DEB
September 7, 1885

Mr. W. LeRoy Schneck, President<br>Kinzua Broadcasting Company, Inc. 310 Socond Avenue<br>Warren, PA 16365

In re: WKNB, Clarendon, PA
Kinzua Broadcasting Co., Inc.
BPH-920305MA

Dear Mr. Schneck:

Through your attorney's lettr dated August 30 , 1955 , you have requested thet WKNB (formerly WOVU) be permitted to commence automatic program test operations pursuant to construction perm/t BPH-920306MA. You have demonstrated that the fence enclosing the tower structure comples with the minimum distance required by the special operating condition on construction permilt BPH-920308MA.

Accordingly, automatio program test authority for WKNB pursuant to construction permit BPH920306MA IS HEREBY REINSTATED. WKNB may commence operations on Channel 282A $(104.3 \mathrm{MHz})$ pursuant to 47 CFR $\$ 73.1620$ of the Commission's rules at such time it is ready.' A license applleation on FCC Form 302-FM must be submitted (with the appropriate

[^0]filing fee) to cover this construction permit withln 10 days of cornmencing program test operations. Please include a copy of this letter with the Form 302-FM application to document compliance with the fence condition.


Dale E. Blckel<br>Suparvisory Electronics Enginear Audio Services Division<br>Mass Media Bureau

cc: Borsari \& Paxon

United States of America

## FEDERAL COMMUNICATIONS COMMISSION FM BROADCAST STATION LICENSE

```
Official Mailing Address:
---------------------------------
KINZUA BROADCASTING CO., INC
310 SECOND AVE
WARREN, PA 16365
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Call Sign: WKNB


Grant Date: JUL 311997
This license expires 3:00 a.m. local time, August 01, 1998

License File No.: BLH-970112KA

This license covers Permit No.: BPH-920306MA
as last extended by Permit No.: BMPH-970424JC

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 set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Name of Licensee:

KINZUA BROADCASTING CO., INC.

Station Location:

PA-CLARENDON

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Frequency (MHz): 104.3
Channel: 282
Class: A
Hours of Operation: Unlimited
Main Studio Address:
    PA-310 SECOND AVENUE, WARREN
Transmitter location (address or description):
    PA-512 MOHAWK AVENUE, EXT., WARREN
Remote Control Point Address:
    PA - 310 SECOND AVENUE, WARREN
Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670
            of the Commission's Rules.
Transmitter output power: 3.3 kW
Antenna type: (directional or non-directional): Non-Directional
    Description: HARRIS FML-3E, 3 SECTIONS
Antenna Coordinates: North Latitude : 41 48 50
                West Longitude : 79 10 4
                Horizontally Vertically
                    Polarized Polarized
                Antenna Antenna
Effective radiated power in the
    Horizontal Plane (kW).........: 4.7 4.7
Height of radiation center above
    ground (Meters)...............: 44
                                    4 4
Height of radiation center above
    mean sea level (Meters).......: 617 617
Height of radiation center above
    average terrain (Meters).......: }11
                                    1 1 3
Antenna structure registration number: none
Overall height of antenna structure above ground
        (including obstruction lighting if any): 68 Meters
```

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of section 303 (q) of the Communications Act of 1934, as amended.

PARAGRAPH 01.0, FCC FORM 715 (OCTOBER 1985):
Antenna structures shall be painted throughout their height with alternate bands of aviation surface orange and white, terminating with aviation surface orange bands at both top and bottom. The width of the bands shall be equal and approximately one-seventh the height of the structure, provided however, that the bands shall not be more than 100 feet nor less than 1 and $1 / 2$ feet in width. All towers shall be cleaned and repainted as often as necessary to maintain good visibility.

PARAGRAPH 03.0, FCC FORM 715 (APRIL 1985):
There shall be installed at the top of the structure one $300 \mathrm{~m} / \mathrm{m}$ electric code beacon equipped with two 620-or 700 -watt lamps (PS-40, Code Beacon type), both lamps to burn simultaneously, and equipped with aviation red color filters. Where a rod or other construction of not more than 20 feet in height and incapable of supporting this beacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from aircraft at any normal angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of at least one of the beacons from aircraft at any normal angle of approach. The beacons shall be equipped with a flashing mechanism producing not more than 40 flashes per minute nor less than 12 flashes per minute with a period of darkness equal to approximately one-half of the luminous period.

PARAGRAPH 11.0, FCC FORM 715 (APRIL 1985):
At the approximate mid point of the over-all height of the tower there shall be installed at least two 116-or 125 -watt lamps (A21/TS) enclosed in aviation red obstruction light globes. Each light shall be mounted so as to insure unobstructed visibility of a least one light at each level from aircraft at any normal angle of approach.

PARAGRAPH 21.0, FCC FORM 715 (APRIL 1985):
All lighting shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 58 foot candles.

Special operating conditions or restrictions:

1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency radiation in excess of FCC guidelines.
```
*** END OF AUTHORIZATION ***
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[^0]:    ${ }^{1}$ WKNB's construction permit specified Channel 295A ( 106.8 mHz ), but was conditioned upon the outcome of MM Docket 92-173. Since the grant of that construction permit, the chanmel for that Clarondon, PA allotment was changed to Channel 282A (104.3 MHz) by the Report and Order in MM Docket 92-173, 8 FCC Rod 774, 58 Fed. Reg. 15289 (1993), This docket is now final. Consequently, WKNB cannot operate on the old channel. While no construction permit has been granted for WKNB for the new channel, wo note that the site coordinates specfied in the construction permit are fully spaced on Channel 282A pursuant to 47 CFR § 73.207. Therefore, we will permit WKNB to commence operations on Channel 282A with the facilities apecified in the construction permit, and to specity Channel 282A in its Heense application.
    (WKNB should be aware that since the allotment reference coordinates for Chennel 282A are located 3.5 km from the permit coordinates, the permit coordlnates are not currently protected on Channal 282A from encroaching applications by other stations. Any such applications will be processed on a first come / first served bssis. Consequently, it is In the interest of WKNE to fle its Form 302-FM application or a minor change application on Form 301 as soon as possible, to protect the permit coordinates on Channel 282A.)

