

FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM

DAH

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
FL	BPED -890412MJ N/M	NEW 88.3MHZ	BIBLE BROADCASTING NETWORK, INC. CONWAY FL	CP FOR NEW ED FM ON FREQUENCY 88.3 MHZ, #202; ERP 1.9 KW H&V; HAAT 300 METERS H&V 28 34 51 81 04 32

LICENSE EXPIRATION DATE \_\_\_\_\_

\_\_\_\_\_  
CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT( ) CONSTRUCTION DATES, START \_\_\_\_\_ END \_\_\_\_\_

CONTESTED ( ) UNCONTESTED ( )

APPROVED \_\_\_\_\_

\_\_\_\_\_  
FOR CHIEF, BROADCAST BUREAU

F.C.C.-WASHINGTON, D.C.

RECEIVED

APR 12 1989

LAW OFFICES

SMITHWICK & BELENDIUK, P.C.

Federal Communications Commission  
Office of the Secretary

2033 M STREET, N.W.

SUITE 207

WASHINGTON, D.C. 20036

TELEPHONE

(202) 785-2800

TELECOPIER

(202) 785-2804

April 12, 1989

APR 13 1989

Ms. Donna R. Searcy  
Secretary  
Federal Communications Commission  
1919 M Street, N.W.  
Washington, D.C. 20554

RE: Bible Broadcasting Network, Inc.  
Application for Construction Permit  
for a New Non-Commercial Educational FM Station  
Conway, Florida

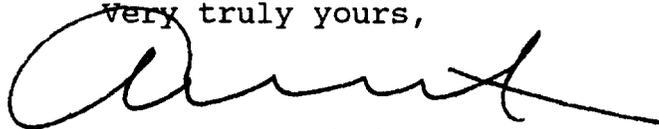
Dear Ms. Searcy:

Transmitted herewith, on behalf of Bible Broadcasting Network, Inc., are an original and two copies of an application on FCC Form 301 for construction permit for a new non-commercial educational FM station at Conway, Florida.

Since Bible Broadcasting Network, Inc., is a non-commercial educational entity, no filing fee is required.

If there are any questions with respect to this matter, please communicate with the undersigned.

Very truly yours,



Gary S. Smithwick  
Counsel for  
BIBLE BROADCASTING NETWORK, INC.

GSS/pn.B0405  
Enc.

cc: Conway Public File

88.3MHZ  
BPED -890412MJ NEW  
CONWAY FL  
BIBLE BROADCASTING NETWORK, INC.

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APR 14 1989

FBI EXAMINERS

BPED-890412 MJ  
For Commission Use Only  
File No.

**APPLICATION FOR CONSTRUCTION PERMIT FOR  
NONCOMMERCIAL EDUCATIONAL BROADCAST STATION**  
(Carefully read instructions before filling out Form—RETURN ONLY FORM TO FCC)

30/5-8-89

RECEIVED

APR 12 1989

Section I

General Information

1. Name of Applicant

Street Address  
Federal Communications Commission  
Office of the Secretary

BIBLE BROADCASTING NETWORK, INC.

P.O. Box 1818

City

State

ZIP Code

Telephone No.  
(Include Area Code)

Chesapeake

VA

23320-1818

(804) 547-9421

Send notices and communications to the following named person at the address below:

Name

Street Address

Gary S. Smithwick, Esquire  
SMITHWICK & BELENDIUK, P.C.

2033 M Street, N.W., Suite 207

City

State

ZIP Code

Telephone No.  
(Include Area Code)

Washington, D.C.

20036

(202) 785-2300

2. This application is for:  AM  FM  TV

(a) Channel No. or Frequency: 202 88.3

(b) Community of license:

City

State

CONWAY

FL

(c) Check one of the following boxes:

- Application for new station
- Major Change in Existing station; call sign: \_\_\_\_\_
- Minor Change in Existing station; call sign: \_\_\_\_\_
- Modification of Construction Permit; File No. of CP: \_\_\_\_\_
- Amendment to Pending Application; Reference Number (ARN): \_\_\_\_\_

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

YES  NO

If Yes, State:

Call letters:

Community of license:

City

State

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_

Entered  
5.4.89

Name of Applicant \_\_\_\_\_

1. (a) Applicant is: (Check one box below)

- a general partnership operating on a nonprofit basis
- a nonprofit corporation
- a limited partnership operating on a nonprofit basis
- Other (specify)
- a governmental or public educational agency or institution

If the applicant is an unincorporated association or a legal entity other than a partnership, nonprofit corporation, or a governmental or public educational agency or institution, describe in Exhibit No. \_\_\_\_ the nature of the applicant.

(b) Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or any other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended.  YES  NO

If Yes, provide particulars as Exhibit No. \_\_\_\_ .

(c) Does the applicant certify that copies of all pertinent documents set out in (b) are in the public inspection file?  YES  NO

Describe in Exhibit No. \_\_\_\_ how the proposed station will be used for the advancement of an educational program. This does apply if applicant is applying for change in facilities.

**Citizenship And Other Statutory Requirements**

2. (a) Is the applicant in compliance with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and Foreign governments?  YES  NO

(b) Will any funds, credits, etc., for the construction, purchase or operation of the station be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents?  YES  NO

If yes, provide particulars as Exhibit No. \_\_\_\_ .

3. (a) Has an adverse finding been made, adverse final action taken or consent decree approved by any court or administrative body as to the applicant or any party to the application in any civil or criminal proceeding brought under the provisions of any law related to the following subjects: Any felony, antitrust, unfair competition, fraud, unfair labor practices or discrimination?  YES  NO

(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a)?  YES  NO

If the answer to (a) or (b) above is Yes, attach as Exhibit No. \_\_\_\_ , a full disclosure concerning the persons and matters involved, identifying the court or administrative body and the proceeding (by dates and file numbers), stating the facts upon which the proceeding was based or the nature of the offense committed, and disposition or current status of the matter.

Applicants are reminded that questions 4 through 5 of this Section must be completed as to all "parties to this application" as that term is defined in the instructions to Section II of this form.

Table I Parties To Application

4. Complete Table I with respect to all parties to this application.

(Note: If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification)

INSTRUCTIONS: If applicant is partnership, fill out columns (a), (b), and (d), stating as to each general or limited partner (including silent partners): (a) name and residence, (b) nature of partnership interest (i.e., general or limited), and (d) percent of ownership interest. If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificate or other ownership interest, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership or ownership interests or are subscribers to such interests. If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests, furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interest. If applicant is governmental or public educational agency or institution, fill out columns (a) and (c) as to all members of the governing board and chief executive.

Name and Residence Address(es)  (a)	Nature of Partnership Interest or Office Held  (b)	Director or Member of Governing Board		% of: Ownership (O) or Partnership (P) or Voting Stock (VS) or Membership (M)  (d)
		YES	NO	
		(c)		
Lowell L. Davey 4709 Regal Court Chesapeake, Virginia 23321	President	X		20% (M)
Georgeanna Davey 4709 Regal Court Chesapeake, Virginia 23321	Vice-President	X		20% (M)
Keith Wohlenhaus 4705 Regal Court Chesapeake, Virginia 23321	Secretary/ Treasurer	X		20% (M)
H. Ron White 4701 Regal Court Chesapeake, Virginia 23321		X		20% (M)
R. Lindsay Poteat 13 Stag Terrace Newport News, Virginia 23602		X		20% (M)

5. Has the applicant or any party to this application had any interest in:

- (a) a broadcast application which has been dismissed with prejudice by the Commission?  YES  NO
- (b) a broadcast application which has been denied by the Commission?  YES  NO
- (c) a broadcast station, the license of which has been revoked?  YES  NO
- (d) a broadcast application in any Commission proceeding which left unresolved character issues against that applicant?  YES  NO
- (e) If the answer to any of the questions above is Yes, attach Exhibit No. 1, stating the following information:
- (1) Name of party having such interest;
  - (2) Nature of interest or connection, giving dates;
  - (3) Call letters of stations or file number of application, or docket number;
  - (4) Location.

#### Ownership and Control

6. Are there any documents, instruments, contracts, or understandings relating to ownership or future ownership rights (including, but not limited to, non-voting stock interests, beneficial stock ownership interest) or control?  YES  NO
- If Yes, provide particulars as Exhibit No. \_\_\_\_ .
7. Do documents, instruments, agreements or understandings for the pledge of stock of a corporate applicant, as security for loans or contractual performance, provide that (a) voting rights will remain with the applicant, even in the event of default on the obligation; (b) in the event of default, there will be either a private or public sale of the stock; and (c) prior to the exercise of stockholder rights by the purchaser at such sale, the prior consent of the Commission [pursuant to 47 U.S.C. 310(d)] will be obtained?  YES  NO
- If No, attach as Exhibit No. \_\_\_\_ , a full explanation.

If any such documents are executed, they will comply.

**Section III****Financial Qualifications**

Note: If this application is for a change in an operating facility, **DO NOT** fill out this section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration?  YES  NO
2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision?  YES  NO

**NOTE:** If either 1 or 2 is answered "Yes", your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration no further action on your part is required. If you rely on funds from a source specified in Question 2, you must advise the F.C.C. when the funds are committed or appropriated. This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. Except as indicated in Questions Numbered 1 and 2 above, the applicant certifies that:
- (a) It has a reasonable assurance of present commitments from each donor, from each party agreeing to furnish capital, from each bank, financial institution or others agreeing to lend funds, and from each equipment supplier agreeing to extend credit:  YES  NO
- (b) It can and will meet all contractual requirements as to collateral, guarantees, and capital investments or donations:  YES  NO
- (c) It has determined that a reasonable assurance exists that all such sources (excluding banks, financial institutions, and equipment manufacturers) have sufficient net liquid assets to meet these commitments.  YES  NO
4. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or available from committed sources to construct and operate the requested facilities for three months without additional funds.  YES  NO

**Section IV****Program Service Statement**

For AM, FM and TV Applications

Attach as Exhibit No. 2, the applicant's purpose and objective in establishing the proposed station and a statement of proposed program policies. If applicant already has such information on file, indicate file number and detail changes, if any.

**Section VI**

**Equal Employment Opportunity Program**

1. Does the applicant propose to employ five or more fulltime employees?  YES  NO

If the answer is Yes, the applicant must include an EEO program called for in the separate 5 Point Model EEO Program [FCC Form 396 (A)].

**Section VII**

**Certification**

1. Has or will the applicant comply with the public notice requirement of Section 73.3580 of the Commission's Rules?  YES  NO

The APPLICANT hereby waives any claim to the use of any particular frequency 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 Section 304 of the Communications Act of 1934, as amended.)

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

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with Section 1.65 of the Commission's Rules, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT.  
U.S. CODE, TITLE 18, Section 1001.**

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.

Signed and dated this 4th day of April, 1984.  
BIBLE BROADCASTING NETWORK, INC. [Signature]  
Name of Applicant Signature  
President  
Title

**FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT  
AND THE PAPERWORK REDUCTION ACT**

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, accountants, engineers, and application examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information requested is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested Permit.

**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 1**

Bible Broadcasting Network, Inc., was an applicant for a new noncommercial educational FM station at Wilmington, North Carolina. It was dismissed by the FCC after BBN did not continue to prosecute it.

**EXHIBIT 2**  
**PROPOSED PROGRAMMING**

Applicant proposes to serve Conway, Florida, and its surrounding areas through programming designed to meet the needs of the area.

Applicant intends to present news and other programming which would be responsible to the concerns of its audiences. In this regard, Applicant will take such steps as are necessary to familiarize itself with the issues confronting its proposed service area.

To address community issues, Applicant contemplates the broadcast, on a regular basis, of both long-form and short-form programs, as well as public service announcements and editorials.

Applicant plans to broadcast regular newscasts and to subscribe to at least one national domestic newswire service. A significant portion of Applicant's news will concern local and regional matters.

Applicant will adhere to the Fairness Doctrine (if applicable) and will pre-empt regular programming, if necessary, to present programming which, in Applicant's judgment, is of greater public interest. To the extent necessary, Applicant proposes to broadcast, on a sustaining basis, programming designed to address controversial issues of public importance.

Applicant will also meet its obligations with respect to broadcasts by legally qualified candidates for public office, pursuant to Sections 312(A)(7) and 315 of the Communications Act of 1934, as amended, and the Commission's Rules and policies.

Name of Applicant Bible Broadcasting Network

1 Purpose of authorization applied for:

Construct a new station

Install Auxiliary system

Change:  Effective radiated power

Frequency

Antenna height above average terrain

Transmitter location

Studio location outside community of license

Other (Summarize briefly the nature of the changes proposed.)

2. Community of license:

State Florida

City or Town Conway

3. Facilities requested:

Frequency Channel No.

Class (Check one below)

88.3 MHz 202

A  B  B1  
 C  C1  C2  D

4. Geographic coordinates of antenna (to nearest second)

North Latitude 28<sup>o</sup> 34' 51"

West Longitude 81<sup>o</sup> 04' 32"

5. Effective radiated power:

Polarization

Horizontal Plane

Maximum (Beam tilt only)

Horizontal 1.9 kW

-- kW

Vertical 1.9 kW

-- kW

6. Height in meters of antenna radiation center:

Above Average terrain (HAAT)

Above Mean Sea Level

Above Ground

Horizontal 300 meters 309 meters 289 meters

Vertical 300 meters 309 meters 289 meters

7. Is a directional antenna being proposed?

YES  NO

If Yes, attach as Exhibit No. \_\_\_\_\_ an engineering statement with all data specified in Section 73.316(d) of the Commission's Rules.

8. Transmitter location: State Florida County Orange  
 City or Town Bithlo Street Address (or other identification) 4 km NE of Bithlo, 1.05 km S. of St. Rd. 420

9. Overall height of complete structure above ground, including all appurtenances and lighting (if any, see Part 17). 490 meters

10. Attach as Exhibit No. E1 map(s) (Sectional Aeronautical charts or equivalent) of the area proposed to be served and shown thereon:

- (a) Proposed transmitter location and the radials along which the profile graphs have been prepared;
- (b) The 1mV/m predicted contour;
- (c) Area (sq. mi.) and population (latest census) within 1 mV/m contour;
- (d) Scale of miles or kilometers (kilometers if available).

11. Attach as Exhibit No. DNA map (Sectional Aeronautical charts where obtainable) showing the present and proposed 1 mV/m (60 dbu) contours.

Enter the following from Exhibit above: Gain Area \_\_\_\_\_ sq. mi.  
 Loss Area \_\_\_\_\_ sq. mi.

Percent change (gain area plus loss area as percentage of present area) \_\_\_\_\_ %.  
 If 50% or more this constitutes a major change. Indicate in question 2(e), Section I, accordingly.

12. If the main studio will not be within the boundaries of the principal community to be served, attach as Exhibit No. DNA a justification pursuant to Section 73.1125(f) of the Commission's Rules.

13. Attach as Exhibit No. E-5 map(s) (7.5 minute U.S. Geographic Survey topographic quadrangles if available) of the proposed antenna location showing the following information:

- (a) Proposed transmitter location accurately plotted with the latitude, the longitude lines clearly marked and showing a scale of statute kilometers.
- (b) Transmitter location and call letters of all AM broadcast stations within 2 miles of the proposed antenna location.

14. If there are any FM or TV stations within 200 feet of proposed antenna or non-broadcast radio stations (except amateur and citizens band), or established commercial and government receiving stations in the general vicinity which may be adversely affected by the proposed operation, attach as Exhibit No. A the expected effect, a description of remedial steps that may be pursued if necessary, and a statement from the applicant accepting full responsibility for the elimination of any objectionable effect on existing stations.

15. Tabulation of Terrain Data. (Calculated in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules utilizing 7.5 minute topographic maps, if available.)

Radial bearing (degrees true)	Height of antenna, radiation center above average elevation of radial (3-16 kilometers) Meters	Predicted Distance	
		To the 1 mV/m contour	Kilometers
0°	305		36.2
45°	307		36.3
90°	307		36.3
135°	299		35.7
180°	292		35.5
225°	295		35.7
270°	294		35.6
315°	297		35.8

#### Allocation Studies

(See Subpart C of Part 73 of the Commission's Rules and Regulations)

16. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?  
 Yes  No
- If Yes, attach as Exhibit No. \_\_\_\_ a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.
17. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No. \_\_\_\_ information required in 1/.
18. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as Exhibit No. 6 a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:
- The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
  - Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
  - Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
  - Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
  - Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
  - When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
  - A scale of miles and properly labeled longitude and latitude lines, shown across the entire (Exhibit(s)). Sufficient lines should be shown so that the location of the sites may be verified.
  - The name of the map(s) used in the exhibit(s).

1/ A showing that the proposed operation meets the minimum distance separation requirements. If any separations are proposed that are less than the applicable minimum separation requirements plus 15 kilometers, include these stations. Also include existing stations, proposed stations, and cities which appear in the Table of Assignments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

19. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?  Yes  No  
If Yes, attach as Exhibit No. \_\_\_\_ a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.

20. With regard to station separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as Exhibit No. 6 information required in 1 (separation requirements involving intermediate frequency [i.f.] interference).

21. Is the proposed operation on Channel 218, 219 or 220?  Yes  No  
If Yes, attach as Exhibit No. \_\_\_\_ information required in 1 regarding separation requirements with respect to stations on Channels 221, 222, and 223.

22. Is the proposed station for a channel in the range from Channel 201 to 221 (88.1-91.9 MHz) and the proposed antenna location within the Grade B contour of a channel 6 television station or sufficiently near the Grade B contour that a question of interference to channel 6 may be raised?  Yes  No  
If Yes, attach as Exhibit No. 7 a map showing the Grade B contour of the television station and the proposed antenna location. Also include discussion of the possibility of interference to the Channel 6 station and the steps proposed to remedy any interference which may occur.

23. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?  Yes  No  
If Yes, attach as Exhibit No. \_\_\_\_ information required in 1 (Except for class D [secondary] proposals.)

24. If the proposed antenna location is in or near a populated area, attach Exhibit No. A a discussion of blanketing and the steps proposed to remedy any interference which may occur.

25. Environmental Statement, See Part I, Subpart 1 of the Commission's Rules.

Would a Commission grant of this application be a major action as defined by Section 1.1305 of the Commission's Rules?  Yes  No

If Yes, attach as Exhibit No. \_\_\_\_ a narrative statement in accordance with Section 1.1311 of the Commission's Rules.

If No, explain briefly. Tower is EXISTING

This application meets the requirements of OST Bulletin No. 65 and is categorically excluded from environmental processing pursuant to Section 1.1306 of the Commission's Rules; specifically, because it does not (1) involve a site location specified under Section 1.1307(a) (1)-(5); (2) involve high intensity lighting under Section 1.1307(a) (6); or, (3) result in human exposure to radio frequency radiation in excess of the applicable safety standards specified in Section 1.1307(b) of the Commission's Rules.

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

E. Harold Munn, Jr. & Associates, Inc.  
E. Harold Munn, Jr., President

March 27, 1989

Date

  
Name

Signature (check appropriate box below)

Box 220, Coldwater, Mi. 49037

Address (include ZIP Code)

(517) 278-7339

Telephone No. (include Area Code)

- Technical Director
- Technical Consultant
- Registered Professional Engineer
- Other (Specify)
- Chief Operator

Name of Applicant **Bible Broadcasting Network** Call Sign **NEW** Station Location **Conway, Florida**

Purpose of Application (Put "X" in appropriate box) Facilities Requested  
**Ch.202, 88.3 MHz, 1.9 kW ERP**  
 New antenna construction  
 Alteration of existing antenna structure  
 Change in location

1. Location of Antenna:  
 State **Florida** County **Orange** City or Town **Bithlo**

Exact antenna location (street address). If outside city limits, give name of nearest town and distance and direction of antenna from town.  
**4 km NE of Bithlo, 1.05 km S. of St.Rd.420**  
**EXISTING SITE FOR WSTF, WSSP, WHTQ, WRBW(TV)**

Geographical coordinates (to nearest second). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude **28 34 51** West Longitude **81 04 32**

2. Is the proposed site the same transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission?  YES  NO

If Yes, give call sign: **WSTF, WSSP, WHTQ, WRBW(TV), various land mobile**

3. Has the FAA been notified of proposed construction?  YES  NO  
 If Yes, give date and office where notice was filed.

**NOT REQUIRED NO HEIGHT CHANGE**

4. List all landing areas within 5 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.

**DNA**

Landing Area	Distance	Direction
(a) _____	_____	_____
(b) _____	_____	_____
(c) _____	_____	_____

5. Attach as Exhibit No. 3 a description of the antenna system, including whether tower(s) are self-supporting or guyed. If a directional antenna, give spacing and orientation of towers.

Tower		#1	#2	#3	#4	#5	#6
Overall height above ground (include obstruction lighting)	meters	490					
	feet	1609					
Overall height above mean sea level (include obstruction lighting)	meters	510					
	feet	1674					

- 6. Attach as Exhibit No. 3 a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet and meters for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

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

E. Harold Munn, Jr. & Associates, Inc.  
 E. Harold Munn, Jr., President

\_\_\_\_\_  
 Name  
  
 Signature (Check appropriate box below)

Box 220  
 \_\_\_\_\_  
 Address (include ZIP Code)

Coldwater, Mi. 49036  
 \_\_\_\_\_

(517) 278-7339  
 \_\_\_\_\_  
 Telephone No. (Include Area Code)

Technical Director

Registered Professional Engineer

Other (specify)

Technical Consultant

Chief Operator

orig  
sign

# ENGINEERING REPORT

NEW FM BROADCAST STATION  
for  
CONWAY, FLORIDA

March 1989

PREPARED BY:

E. HAROLD MUNN, JR. &  
ASSOCIATES, INC.

ONE HUNDRED AIRPORT ROAD

COLDWATER, MICHIGAN

(517) 278-7339

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8. Exhibit E-4 - Tabulation of Operating Specifications
9. Exhibit E-5 - Portion of Topographic Map Showing Site
10. Exhibit E-5A - Portion of Aero Chart Showing Site
11. Exhibit E-6 - Allocation Study
12. Exhibit E-7 - Study Concerning Television Channel 6

CERTIFICATION OF CONSULTANT

The firm of E. Harold Munn, Jr. & Associates, Inc., Broadcast Engineering Consultants, with offices at 100 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.

The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

E. HAROLD MUNN, JR. & ASSOCIATES, INC.

March 27, 1989

By   
E. Harold Munn, Jr., President

100 Airport Drive, Box 220  
Coldwater, Michigan 49036

(517) 278-7339

## DISCUSSION

This firm has been retained to prepare the required engineering report in support of an application for a new Educational FM Broadcast station. The proposed community of license is Conway, Florida

It has been determined that FM Channel 202, 88.3 MHz, may be used in the vicinity, meeting the requirements of the rules concerning no overlap with existing facilities, as specified in 47 C.F.R. 73.509.

The data concerning the allocation for the use of Channel 202 is found in Exhibit E-6 in this report. The data in that exhibit includes a tabulation of the spacing to existing facilities, and a map showing the fact that there will be no overlap to existing facilities.

This application is mutually exclusive with ARN-881207MA, which requests the use of Channel 202 at Union Park, Florida.

The facility, operating as proposed in this application, will provide 1.0 mV/m service to the entire community of license. The 1.0 mV/m contour has been calculated, and is plotted as Exhibit E-1 of this report.

The applicant has obtained permission to mount the Channel 202 antenna on an existing tower. There will be no increase in the height of the structure, thus, no FAA notification is required. This proposal is a minor environmental action, and is excluded from environmental processing pursuant to Section 1.1306 of the rules.

The proposed transmitter site is within the affected radius of a Channel 6 television station. Thus, consideration has been given to the protection from interference of the service area of Channel 6. The Channel 6 station involved is WCPX-TV, Orlando, Florida. The Channel 6 protection is discussed in Exhibit E-7 of this report. This application has been coordinated with WCPX-TV, and permission has been obtained from WCPX-TV for the filing of this application at the site specified.

The remainder of the data contained in this report provides the information for FCC Form 340, Section V-B and V-G.

This proposal has been evaluated for compliance with FCC Guidelines concerning human exposure to radiofrequency radiation. The standards employed are outlined in OST Bulletin No.65, October, 1985.

As the proposed FM antenna will be mounted on an existing tower, which supports several operating Class C FM stations, and, in addition, there is a construction permit outstanding for the installation of a Channel 65 television transmitting antenna, in accordance with the FCC guidelines, special studies have been done.

In accordance with Sec. 4.1 of Appendix A of OST Bulletin No.65, the individual limit fractions have been determined, and the results added. The sum of the individual limits does not exceed unity, thus, the facilities as operating and proposed, are in full compliance with the Rules of the Commission.

The results are tabulated as follows. In all cases, the peak field was used in the calculation, including the effect of ground reflections. The calculations indicated that the maximum fields would be experienced about 100 meters from the base of the tower. The fields calculated to exist at that point are those employed in the study detailed.

<u>STATION</u>	<u>FIELD</u>	<u>DECIMAL PORTION OF UNITY</u>
WRBW(TV)	0.018 A/m	0.072
WSTF,WSSP, WHTQ(FM)	0.0395 A/m	0.250
Prop. Ch.202(FM)	0.00358 A/m	<u>0.022</u>
	Total	0.344

Thus, the addition of the proposed Channel 202 FM facility to the existing tower will not produce a field at any point on the ground in excess of the ANSI guidelines.

### METHODOLOGY FOR FM RADIATION STUDY

The EPA has developed a computer model which serves as a general means of estimating the power densities in the vicinity of typical FM broadcast stations. As is typical of such models, this frequently results in a "worst case" type of determination, as contrasted with lesser amounts of radiation which may actually be determined to exist by taking of field strength measurements. The EPA model considers the following variable factors:

- (1) Effective radiated power
- (2) Radiation center height above ground
- (3) Polarization of the transmitted signal
- (4) Type of antenna (generic)
- (5) Number of sections (elements or bays) in the array

This particular model is discussed by Gailey and Tell in EPA Report No. 520/6-85-011, April, 1985.

This model makes use of the element and array pattern product and takes into account ground reflections. It is considered to be a reasonable approach for determining the upper bounds of field intensity near transmitting towers on which FM facilities are located.

Calculations are normally made at 2 meters above the ground. Total ERP is used--adding of the vertical and horizontal components. The FCC's OST Report No. 65 provides tables listing the estimates of antenna heights required for compliance with "worst case" situations. (See Table 1.) Reasonable predictions may be made from use of those data. More specific calculations are made by computer, extrapolating the basic data, and providing a printout graphical presentation of the data.

In the case of joint use of a tower by TV and FM stations, the fractional contributions are summed. If the sum of all such fractional contributions is less than unity (1.0), it is concluded that there is no problem of exceeding the ANSI guidelines.

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#### References:

1. P. C. Gailey & R. A. Tell. "An Engineering Assessment of the Potential Impact of Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services," U. S. Environmental Protection Agency, April, 1985.
2. Federal Communications Commission, OST Bulletin No. 65, "Evaluating Compliance with FCC-Specified Guidelines for Evaluating Human Exposure to Radiofrequency Radiation," by Robert F. Cleveland, October, 1985.
3. Kraus, J. D. "Antennas," McGraw-Edison Book Co., NYC, 1950

Frequency: 88.3000 MHz

PROPOSED SERVICE CALCULATIONS

p.4

Antenna elevation (AMSL): 309 Meters

AZIMUTH	AVERAGE ELEVATION 2 TO 10 MILES	ANTENNA HEIGHT ABOVE AVERAGE TERRAIN	DEPRESSION ANGLE TO RADIO HORIZON	EFFECTIVE RADIATED POWER	DISTANCES TO CONTOURS		
					CITY GRADE (60 dBu)	URBAN (** dBu)	RURAL ( 0 dBu)
N .0 E	4 M	305 M	.48 Degs	2.78 dBk	36.2 km	.0 km	.0 km
45.0	2	307	.49	2.78	36.3	.0	.0
90.0	2	307	.49	2.78	36.3	.0	.0
135.0	10	299	.48	2.78	35.9	.0	.0
146.5	13	296	.48	2.78	35.7	.0	.0
180.0	17	292	.47	2.78	35.5	.0	.0
225.0	14	295	.48	2.78	35.7	.0	.0
250.0	15	294	.48	2.78	35.6	.0	.0
270.0	15	294	.48	2.78	35.6	.0	.0
315.0	12	297	.48	2.78	35.8	.0	.0
326.0	11	298	.48	2.78	35.9	.0	.0

Average  
of 8  
Standard  
Radials

9 M      300 M

EXHIBIT "A"

The proposed transmitter is located within 10 km of existing or proposed FM and/or TV transmitters. This applicant does not believe that any adverse effects on the operation of any existing or proposed facility would result from a grant of this application. The frequency separations, and the physical distance between the facilities should preclude any effects.

In the event such harmful effects are noted, including but not limited to receiver-induced or other types of modulation, the applicant accepts full responsibility for the elimination of any objectionable interference to facilities in existence or authorized or to radio receivers in use prior to grant of this application.

The applicant will take such engineering steps as may be required to satisfy complaints including, but not limited to, the installation of filters, traps, or other devices.

The applicant will comply with the provisions of 47 C.F.R. Sec. 73.318. The proposed transmitter is so located that there is some resident population within the predicted "blanketing" contour, as defined in 47 C.F.R. Section 73.318. While the number of persons potentially affected is minimal, the applicant agrees that full compliance with the procedures and requirements of 73.318(b) and (d) will be attained.

