FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM LCJ

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

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
VA	BPED -911101MA N/M	NEW 103.5MHZ	JAMES MADISON U, BOARD OF VISITORS CROZET VA	CP FOR NEW FM EDUCATIONAL ON: FREQUENCY 103.5 MHZ., ERP: .27 KW (H&V), HAAT: 462 METERS (H&V) 37 57 00 78 43 38

LICENSE EXPIRATION DATE DN - 11/8/91

for Leon C. Dixon
CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT( ) CONSTRUCTION DATES, START _____ END _____

CONTESTED ( ) UNCONTESTED ( )

APPROVED _____

_____
FOR CHIEF, BROADCAST BUREAU

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

Form A-378
January 1980

RECEIVED

NOV - 1 1991

Federal Communications Commission
Office of the Secretary

ORIGINAL

DOW, LOHNES & ALBERTSON
ATTORNEYS AT LAW
1255 TWENTY-THIRD STREET
WASHINGTON, D. C. 20037

TELEPHONE (202) 857-2500

MARGARET L. MILLER
DIRECT DIAL NO.
857-2914

TELECOPIER (202) 857-2900
CABLE "DOWLA"
TELEX 425546

November 1, 1991

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

NOTE: EXEMPT FROM FILING FEES

Re: Application for New Noncommercial Educational Station on Channel 278A, Crozet, Virginia

Dear Ms. Searcy:

On behalf of James Madison University (JMU), we transmit herewith, in triplicate, on FCC Form 340, an application for a new noncommercial educational station on Channel 278A at Crozet, Virginia pursuant to the allocation of this channel to

Should any questions arise concerning this application, kindly contact this office.

Respectfully submitted,

Margaret L. Miller

MLM/cdh
Enclosures

Federal Communications Commission
Washington, D. C. 20554

FCC 340

Approved by OMB
3060-0034
Expires 4/30/92
See Page 23 for information regarding public burden estimate

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

For Commission Use Only
File No. BPED-911101MA

Section I - GENERAL INFORMATION

RECEIVED
NOV - 1 1991
Federal Communications Commission
Office of the Secretary

1. Name of Applicant			Send notices and communications to the following person at the address below:		
Board of Visitors of James Madison University			Name: Brenda Hankey, General Manager		
Street Address or P.O. Box: 800 South Main Street			Street Address or P.O. Box: 821 South Main Street		
City: Harrisonburg	State: VA	ZIP Code: 22807	City: Harrisonburg	State: VA	ZIP Code: 22807
Telephone No. (Include Area Code): (703) 568-6221			Telephone No. (Include Area Code): (703) 568-6221		

2. This application is for: [ ] AM [X] FM [ ] TV

(a) Channel No. or Frequency	(b) Principal Community	City	State
*278A		Crozet	VA

(c) Check one of the following boxes:

[X] Application for **NEW** station

[ ] **MAJOR** change in licensed facilities; call sign: _____

[ ] **MINOR** change in licensed facilities; call sign: _____

[ ] **MAJOR** modification of construction permit; call sign: _____

File No. of construction permit: _____

[ ] **MINOR** modification of construction permit; call sign: _____

File No. of construction permit: _____

[ ] **AMENDMENT** to pending application; application file number: _____

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 [X] No

If Yes, state:	Call letters	Community of License	State
	103.5MHZ		
	BPED	-911101MA NEW	
	CROZET	VA	
	BOARD OF VISITORS OF JAMES MADISON		

Section II - LEGAL QUALIFICATIONS

Name of Applicant

Board of Visitors of James Madison University

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

   [X] (a) governmental or public educational agency, board or institution

   [ ] (b) private nonprofit educational institution

   [ ] (c) Other *(specify)*

2. For applicants 1(c) only, describe in an Exhibit the nature and educational purposes of the applicant. — Exhibit No.

   N/A

3. For applicants 1(c) applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served. — Exhibit No.

   N/A

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program. — Exhibit No. A

   Applicant is a State University and Licensee of WMRA FM, Harrisonburg, VA, a non-commercial public radio station

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or 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 [X] No

   If Yes, provide particulars in an Exhibit. — Exhibit No.

CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

6. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction B to Section II.) — [ ] Yes [X] No

   (b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents? — [ ] Yes [X] No

   If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance. — Exhibit No.

7. (a) Has an adverse finding been made or an adverse final action taken by any court or administrative body as to the applicant or any party to this application in a civil or criminal proceeding brought under the provisions of any law related to the following:

   Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination? — [ ] Yes [X] No

   (b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above? — [X] Yes [ ] No

   If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning 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. — Exhibit No. B

PARTIES TO APPLICATION

8. Complete the following Table 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 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 interests. **If applicant is a governmental or public educational agency, board or institution,** fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es)	Office Held	Director or Member of Governing Board		% of: Ownership (O) or Voting Stock (VS) or Membership (M)
		YES	NO	
(a)	(b)	(c)		(d)
See Attached List, Exhibit L1				

EXHIBIT L1

BOARD OF VISITORS, JAMES MADISON UNIVERSITY

Alexander Berry, III 38 Countryside Lane Richmond, VA 23229	Vice-Rector	USA	bank vice-Pres.	Governor
Carol Eubank 12311 Shore View Drive Richmond, VA 23233	Visitor	USA	realtor	Governor
A-J Fischer James Madison University Harrisonburg, VA 22807	Visitor	USA	student	Governor
Peter T. Halpin 1417 Montague Drive Vienna, VA 22182	Visitor	USA	senior v-p, World Resources Co.	Governor
William C. Harris 1707 Hollinwood Dr. Alexandria, VA 22307	Visitor	USA	bank president	Governor
Penelope W. Kyle CSX Corporation P.O. Box C-32222 Richmond, VA 23261	Visitor	USA	vice-pres, CSX Corp.	Governor
Abbot Lambert 8317 Fulham Court Richmond, VA 23227	Visitor	USA	v-p, retail store	Governor
Robert LaRose 12700 Knollbrook Dr. Clifton, VA 22024	Visitor	USA	Pres., Universal Systems	Governor
John F. Malbon Papco Oil Company 4920 Southern Blvd. Virginia Beach, VA 23451	Visitor	USA	Papco Oil Co.	Governor
Diane D. McGlothlin P.O. Box 1280 Bristol, VA 24201	Visitor	USA	not employed	Governor
H. Daniel O'Donnell, II Rt. 11, Box 210 Harrisonburg, VA 22801	Rector	USA	retired	Governor

Sandra M. Rowe 1020 Baldwin Avenue Norfolk, VA 23507	Visitor	USA	newpaper editor	Governor
William A. Rule, Jr. P.O. Box 1 Iron Gate, VA 24448	Visitor	USA	unknown	Governor
Pete Scamardo 8302 Bernane Forrest Court McLean, VA 22102	Visitor	USA	pres., Centennial Oil	Governor
Deborah Tompkin-Lipscombe 13720 Penwith Court Chantilly, VA 22021	Visitor	USA	Dir. Community Affairs-VA Power	Governor
Robert M. Zulandi 10801 Melanie Court Oakton, VA 22124	Visitor	USA	senior v-p, Hadson Corporation	Governor

Section II - LEGAL QUALIFICATIONS (Page 3)

9. Does the applicant or any party to this application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?	[X] Yes	[ ] No
(b) a broadcast application which has been dismissed with prejudice by the Commission?	[ ] Yes	[X] No
(c) a broadcast application which has been denied by the Commission?	[ ] Yes	[X] No
(d) a broadcast station, the license of which has been revoked?	[ ] Yes	[X] No
(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?	[ ] Yes	[X] No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

Exhibit No. L-2
Below

(1) Name of party having interest;
(2) Nature of interest or connection, giving dates;
(3) Call letters of stations or file number of application or docket; and
(4) Location.

EXHIBIT L2:

The Board Of Visitors of James Madison University serves as licensee for two non-commercial, educational radio stations:

WMRA-FM Harrisonburg, VA. (1975-present)
WXJM-FM Harrisonburg, VA (1990-present)

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 Questions 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. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without additional funds. ☒ Yes ☐ No

SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No. A

NOTE: No program service statement need be filed where the proposed station's programming would be **wholly** "instructional" as that type of programming is defined in the Instructions to this Section.

SECTION VI – EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees? ☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII – CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580? ☒ 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 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 47 C.F.R. Section 1.65, 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 and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant	Title
Board of Visitors of James Madison University	Dr. Ronald Carrier, President
Signature	Date
Ronald S. Carrier	0-28-91

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, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information 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 authority.

Public reporting burden for this collection of information is estimated to vary from 76 to 80 hours with an average of 78 hours 04 minutes per response, including the time 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 estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

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.

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant
Board of Visitors of
James Madison University

Call letters *(if issued)*

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: _____

Purpose of Application: *(check appropriate box(es))*

☒ Construct a new (main) facility See Ex #E1

☐ Construct a new auxiliary facility

☐ Modify existing construction permit for main facility

☐ Modify existing construction permit for auxiliary facility

☐ Modify licensed main facility

☐ Modify licensed auxiliary facility

purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

☐ Antenna supporting-structure height

☐ Effective radiated power

☐ Antenna height above average terrain

☐ Frequency

☐ Antenna location

☐ Class

☐ Main Studio location

☐ Other *(Summarize briefly)*

File Number(s) _____

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
278	Crozet	Albemarle	VA

Class *(check only one box below)*

☒ A ☐ B1 ☐ B ☐ C3

☐ C2 ☐ C1 ☐ C ☐ D

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

Peak, Castle Rock Mountain, 4 km SSE Batesville (Albemarle County)

10. Is a directional antenna proposed? ☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No. N/A

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? ☐ Yes ☒ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No. E3

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. E4

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. E5

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. E6

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 2,526.3 sq. km. Population 132,249

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. N/A

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) 100 %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

17. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.:_____)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313).*

Source of terrain data: *(check only one box below)*

[X] Linearly interpolated 30-second database [ ] 7.5 minute topographic map

(Source: N.G.D.C.)

[ ] Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	*	*
45	*	*
90	*	*
135	*	*
180	*	*
225	*	*
270	*	*
315	*	*

* See Ex. #E1, Pg #3

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? [ ] Yes [X] No

If Yes, attach as an Exhibit 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.

Exhibit No. N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. *The engineering study must include the following:*

Exhibit No. N/A

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers 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.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525? ☐ Yes ☒ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No. N/A

25. 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 an Exhibit information required in 1/. *(Except for Class D (secondary) proposals.)*

Exhibit No. E7

26. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No. N/A

If No, explain briefly why not. Note: Existing tower
See Ex # E8 for R.F. statement

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)* Douglas L. Vernier	Relationship to Applicant *(e.g., Consulting Engineer)* Technical Consultant
Signature Douglas L. Vernier	Address *(Include ZIP Code)* 1600 Picturesque Dr. Cedar Falls, IA 50613
Date October, 14, 1991	Telephone No. *(Include Area Code)* (319) 266-8402

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ☒ No

If Yes, attach as an Exhibit 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. Exhibit No. N/A

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), 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 an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Exhibit No. N/A

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) 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.
(e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) 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.
(g) A scale of kilometers 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.
(h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference).* Exhibit No. *

* See Ex # E7

23.(a) Is the proposed operation on Channel 218, 219, or 220? ☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? ☐ Yes ☐ No

N/A

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223. Exhibit No. N/A

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Exhibit No. N/A

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

Certification of Site Availability

1. The Applicant certifies that it has reasonable assurance in good faith that the site or structure proposed in Item 2, section V-B, FCC form 340, as the location of it's transmitting antenna, will be available to the applicant for the applicants intended purpose.

YES X NO ____

If no, explain fully:

2. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.

Name of persons contacted Henry Childs Telephone (804)823-4405

Person Contacted (check One):

Owner X Owners agent ____ Other (specify) ____

Applicants Signature [signature]

Date 10-25-91

FCC Form 340
Board of Visitors of James
Madison University
Application for Channel 278A

EXHIBIT A

The applicant, the Board of Visitors of James Madison University, is a public educational institution. As part of its responsibility for providing educational services, the University provides noncommercial educational radio service to areas which include the area to be served by the facility proposed in this application. Furthermore, the proposed station will provide a public radio service to 3,297 persons not now able to receive such coverage. Educational programs, including those produced by National Public Radio, will be received by a total of 16,919 new listeners.

The Board of Visitors of James Madison University program policies for this proposed station will be to respond to community needs and to comply with all program related requirements of the Communications Act and the FCC's rules and policies. The planned programming service will rebroadcast the programming of public radio Station WMRA-FM, licensed to the Board of Visitors of James Madison University. WMRA offers indepth local, national and international news, classical music, and bluegrass (a form of music indigenous to the area to be served by the proposed station).

WMRA would cover the Crozet area in its news and public affairs programming as well as offering coverage of cultural events in the area in and around Crozet. Furthermore, WMRA would broadcast public service announcements concerning events in the Crozet area daily. We would also conduct an ascertainment study to determine programming needs for the community. Specific program related information is contained in Exhibit E-3, request for waiver of Section 73.1125.

FCC Form 340
Board of Visitors of James
Madison University
Application for Channel 278

EXHIBIT B

Discrimination Complaints

There have been no final actions, and currently are no pending claims, of discrimination involving Station WMRA-FM or Station WXJM-FM, both licensed to the applicant. There may have been such actions and presently may be complaints of discrimination pending against the Board of Visitors of James Madison University. The applicant submits that most state educational institutions would find themselves subject to discrimination claims, and as these claims do not in any way involve the operations of WMRA-FM, these claims should have no bearing on qualifications relevant to this application.

The files detailing these actions are maintained at James Madison University in the Office of Affirmative Action, and are available upon request.

Doug Vernier
Broadcast Consultant
1600 Picturesque Drive
Cedar Falls, Iowa 50613
319-266-8402

EXHIBIT #E1
ENGINEERING STATEMENT

Concerning the Application of
James madison University
to construction a new educational FM station
at Crozet, Virginia

October, 1991

Channel 278 .27 kW

This engineering statement supports the application by James Madison University of Harrisonburg, Virginia to construction a new non-commercial educational FM station to serve Crozet, Virginia. This application proposes to use the educational channel allocated by the Commission in the MM Docket No. 90-644 to Crozet.

Under the instant proposal, the type approved FM transmitter generates an output power of .296 kilowatts. The proposed 7/8", foam, Cablewave, copper transmission line, (FCC78-50J) has an efficiency for its 30.5 meter length (100') of 91.6 percent. Therefore, the proposed FML-2E, two bay, circularly polarized, antenna has at its input .27 kilowatts of power. The antenna has a power gain of .9971 in both planes resulting in an effective radiated power of .27 kW.

Exhibit # E2 is a vertical sketch showing the proposed side-mounted antenna and the existing tower.

Exhibit # E3 is an exhibit prepared by the licensee reflecting its desire to operate its studio outside of the 70 dBu service area.

Exhibit # E4 is an exhibit describing the possible effects of intermodulation and blanketing.

Exhibit # E5 is full scale section of a 7 1/2 minute, 1:24,000, U.S. Geological Survey topographic quadrangle map (Covesville, Virginia) showing the exact transmitter location. Page # 2 of this exhibit is a photo-reduction of the entire map.

Exhibit # E6 is a U.S.G.S. digital line graph map showing the proposed 1 mV/m F(50-50) contour and the radials used to determine the antenna height above average terrain. The area within the 1 mV/m contour has been determined to be 2,526.3 sq km. The population within 1 mV/m contour was determined to be 132,249-

people by using the 1990 digital population data available from PL 94-171. The contours on the map were determined using 360 terrain elevation radials drawn from the N.G.D.C. 30 second point terrain elevation database. Distance to signal contours were determined using the Commission's own TVFMINT program to extract F(50-50) and F(50-10) signal distances from the tables found in Sec 73.333 of the Commission's rules.

Exhibit # E7 is an FM channel study, reflecting compliance by the applicant to the requirements of Sec. 73.207 of the Commission's Rules and Regulations. It should be noted that all minimum spacing requirements are met by the instant proposal except for the relationship with the application filed by Oscar Haynes for a class

TERRAIN AND CONTOUR DATA
James Madison University
Crozet, VA
CH 278

ERP = .27 kW
FM - 2-6 Tables

Azimuth	Ave. Elev. 3 to 16 km	Effective Antenna Height	ERP	F(50-50) Distance to 60 dBu Contour	F(50-50) Distance to 70 dBu Contour

James Madison University

Certification

This certifies that James Madison University has notified the National Radio Astronomy Observatory at Green Bank, West Virginia of the filing with the Commission of its application to use channel 278, 103.5 MHz, to serve Crozet, Virginia.

Brenda Hankey

Brendy Hankey, Mgr.
WMRA (FM)
James Madison University

Date: 10/25/91

A F F I D A V I T

COUNTY OF BLACK HAWK)
- SS.:
STATE OF IOWA)

DOUGLAS L. VERNIER, being duly sworn upon oath, deposes and says:

That he studied engineering at the University of Michigan and that he has received degrees from the University in Radio and Television Communication. That he has been active in broadcast consulting for over 18 years;

That he has held a Federal Communications Commission First Class Radiotelephone License continually since 1964. In 1985 this license was reissued by the Commission as a lifetime General Radiotelephone license no. PG-16-16464;

That he is certified as a Professional Broadcast Engineer # 50258 by the Society of Broadcast Engineers, Indianapolis, Indiana.

That his qualifications are a matter of record with the Federal Communications Commission;

That he has been retained by James Madison University of Harrisonburg, Virginia and has developed the engineering showings appended hereto;

That he has prepared these engineering showings, the technical information contained in same and the facts stated within are true