

FCC MAIL SECTION

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AUDIO SERVICES

DISPATCHED BY

Wesley A. Sizemore
Interference Office
National Radio Astronomy Observatory
Post Office Box 2
Green Bank, West Virginia 24944-0002

May 11, 1992

Dear Mr. Sizemore,

Per the requirements of FCC 73.1030, CFR 47, please find enclosed an instant application for a new, non-commercial FM broadcast station to be located in Crozet, Virginia. This application is being filed today with the Federal Communications Commission, Washington, D.C.

If you need additional information, please contact us at the address below.

Sincerely,

Peter Robinson

Peter Robinson
CESCI
Route 2 Box 343
Afton, Virginia 22920
(804)361-2155

**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.

Section I - GENERAL INFORMATION

1. Name of Applicant Community Educational Service Council, Inc.		
Street Address or P.O. Box Rt. 2 Box 343		
City Afton	State VA	ZIP Code 22920
Telephone No. (Include Area Code) (804) 361-2155		

Send notices and communications to the following person at the address below:		
Name Peter Robinson		
Street Address or P.O. Box Rt. 2 Box 343		
City Afton	State VA	ZIP Code 22920
Telephone No. (Include Area Code) (804) 361-2155		

2. This application is for: AM FM TV

(a) Channel No. or Frequency *278A

(b) Principal Community	City	State
	Crozet	VA

(c) Check one of the following boxes:

- 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 No

If Yes, state:	Call letters	Community of License	
		City	State

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.

Please Refer to the attached list

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

COMMUNITY EDUCATIONAL SERVICE COUNCIL, INC.

1992 Board of Directors

John R. Ewbank
1150 Woods Road
Southampton, PA. 18966
(215)357-3977

Rita Jane Leasure
CESCI Vice-President
Route 3 Box 230
Lexington, VA. 24450
(703)463-1070

Marjorie Ewbank
1150 Woods Road
Southampton, PA. 18966
(215)357-3977

Faith Morgan
CESCI President
P.O. Box 222
Occidental, CA. 95465
(707)874-2826

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 ~~subject of research or university or an association from a state, county, municipality, or other political~~ Yes No

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 del: 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 <i>Community Educational Service Council, Inc.</i>	Title <i>Treasurer</i>
Signature <i>Peter R. Robinson</i>	Date <i>5-9-92</i>

**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.

EXHIBIT L1

COMMUNITY EDUCATIONAL SERVICE COUNCIL, INC.

Purposes and Goals .

The common theme behind CESCI's purposes is the creation and sustenance of community. As stated in our by-laws, we do this primarily in four ways:

- 1) Provide educational services for communities and cooperative undertakings of an economic, religious, or social nature.
- 2) Provide communication services and facilities among intentional communities and related groups, as well as the general public.
- 3) Promote experimental projects in various phases of community living which comprise a high degree of common endeavor.
- 4) Receive and administer assets and contributions for such purposes.

Since 1988, CESCI has been headquartered in Nelson County, Virginia, moving here from the Philadelphia, Pennsylvania area where we are incorporated. The recent board meeting of CESCI, which was held on May 1st and 2nd, 1992 near Asheville, North Carolina, marked our 40th anniversary and provided a forum for an in depth discussion of future endeavors. All communities thrive on certain essential elements including education, communication, and cooperation. Starting an educational, community radio station which would serve Crozet, Albemarle and Nelson counties is a natural outgrowth of our past activities and is the next step in our goal of encouraging community. The proposal to apply for the license was unanimously endorsed by the board.

EXHIBIT A

The applicant, Community Educational Service Council, Incorporated, (CESCI), is a non-profit, educational organization, located in Nelson County, Virginia. The educational nature of the programming service the applicant is proposing is consistent with CESCI's past record of rural community education efforts. The applicant plans to provide a non-commercial, community-oriented service, designed to meet the educational needs of the residents within the coverage area. The local studio and transmitter will provide programming for 132,249 people within the signal's reach, offering an educational program service. Because CESCI has been a Nelson county organization for 5 years, and has a forty-year history of community service, it is uniquely qualified to provide a local educational service with knowledge of the communities to be served.

The service will include programming designed to address the educational needs of the residents of Crozet, Virginia, and surrounding communities. The educational programming will draw on the resources of the University of Virginia, offering a regular lecture series with visiting professors. It will also provide programming based on the activities of the University of Virginia's Women's Center, with taped and live lectures by visiting authors and scholars on issues concerning women. The station will bring educational programming to residents in Nelson and Albemarle counties who are often too far from the major metropolitan areas to take advantage of resources. (See exhibit A1 for a detailed program description).

CESCI believes the public will be best served by a local educational station with studios in the city of license. The local nature of the service will fill a need not currently being met by other stations covering the proposed broadcast area. The station will offer in-depth local news, public affairs, and educational programs designed to bring information about events pertinent to Crozet, and Nelson and Albemarle counties. There will be a regular newscast, as well as numerous topical public affairs programs covering local events and concerns. The news and educational programming will be done by staff and volunteers drawn from the local listening area. The station plans to broadcast election coverage, city council meetings, and provide other live coverage of civic events concerning citizens in the listening area. Regularly scheduled public service announcements will provide residents with information on important events.

As a central component to its programming service, the station will provide training in broadcast technique to local residents. A regular course in radio production will be offered to all interested volunteers on a regular basis. This will insure the quality of the programming presented by community volunteers, while giving them skills in the broadcasting field.

The station will also broadcast a wide variety of cultural programs, including live Jazz and Folk music concerts from the Live Arts Cultural Center, and the Prism Coffeehouse in Charlottesville. The main musical offering will be centered on music indigenous to Virginia, which includes traditional and bluegrass music, blues and country music. A variety of musical forms will be represented to reflect the diverse interests of the listening population. The cultural portion of the program will draw on the variety of music festivals, poetry readings, and arts events happening in the Crozet, Charlottesville, and surrounding areas.

To most effectively serve the population, the station will conduct regular programming surveys designed to ascertain the needs of the listening public. The station will conduct town-hall style meetings to gauge local response to programming, as well as solicit comments at local events.

EXHIBIT A1:
PROGRAMMING DESCRIPTION

PUBLIC AFFAIRS / EDUCATIONAL

Women at the Center: : Lecture series featuring nationally reknown women authors, musicians, scholars on issues concerning women. Recorded at the University of Virginia's women's center.

University of Virginia Visiting Lecturers series: : The best of visiting professors speaking on educational topics ranging from medical breakthroughs to human communication.

Dial Direct: This weekly call-in show will center around local issues with a different guest each week. Topics will include local zoning issues, health care, transportation, and education.

Virginia Traditions: Weekly short features on local and state history, folkways, and culture. Presented in conjunction with the Virginia Foundation for the Humanities' Folklife Program.

Albemarle/Nelson county supervisor's meetings: : Regular coverage of decisions/issues. election coverage:Live

Our Town: Weekly roundup of events in the following town's and communities: Crozet, White Hall, Free Union, Browns Cove, Millington, Critzers Shop, Charlottesville, Batesville, Redhill, Covesville, Esmont, Nelliesford, Lovingson, Faber, Old Dominion, and Rockfish. Each week spokespersons from several towns will report the local news and events. This might include weddings, elections, festivals, floods, etc. women's issues/information program

The Truck Patch: Weekly call-in talk show on small farm and gardening techniques. Callers will have their questions answered by a guest gardening expert from the local area.

The Home School Program: :Information for the large number of home school children and their parents in Nelson county and surrounding rural areas.

We will also include weather/emergency information/ Crozet, Albemarle/Nelson Co./school closings

LOCAL NEWS

There will be two local daily newscasts, covering Crozet, Charlottesville, and Albemarle and Nelson county news. These newscasts will be 15 minutes each and occur in the 8am and 6pm hours. Special live coverage of elections, emergencies, and important events will occur when needed.

STATEWIDE

Virginia roundup: Regular ten minute features on current events in Virginia produced by news staff.

State assembly news updates

State election coverage

EXHIBIT A1: PROGRAMMING DESCRIPTION, Pg. 2

FROM NATIONAL SOURCES

Horizons: Half-hour documentaries on American cultures, including minority and women's issues.

Living on Earth: Weekly national environmental news program covering issues in-depth.

Crossroads: Half-hour news magazine featuring minority issues and news.

Southways: Half-hour weekly documentary series on Southern regional news and culture.

VARIETY

The Good Morning Show: This will be the centerpiece of morning programming. The program will be a variety of news, features, commentary, and music, presented in a fast-paced, humorous format. There will be a regular Albemarle/Nelson Counties newsbreak at 8am that will last 15 minutes, after which the regular program will resume. The music will be acoustic in nature, offering an alternative to the straight

EXHIBIT A2, Pg 1
FCC form 340, Community Educational Service Council, Inc.

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

5



5

SATURDAY

SUNDAY

5am			5am
6	A CLASSICAL OFFERING		6
7	Classical Music		7
8			8
9	KIDTOWN U.S.A.	SUNRISE MAGAZINE	9
10			10
11		SANDY'S	11
12		Live Performance Radio	12
1	GRISTLE AND HAMMOCK		1
2	Celtic and American Traditional Music	BACK FORTY BLUEGRASS	2
3			3
4			4
5	HORIZONS	FRONT PORCH STORIES	5
6	PICK OF THE WEEK	BLUES BREAK	6
7	Live in-studio performances by local musicians	Poets in Residence	7
8		Women at the Center	8
9	SATURDAY NIGHT FISH FRY	NEW AGE MUSIC	9
10	Rhythm and Blues and	OLD TIME RADIO THEA-	10
11			11
12			12

EXHIBIT A2 / Pg. 2

FCC Form 340

Community Educational

Service Council, Inc.

Application for Channel 278A

WEEKEND PROGRAM SCHEDULE

Site Availability Certification

Community Educational Service Council, Inc. hereby 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 intended purposes stated herein.

Because Community Educational Service Council, Inc. has no ownership interest in the proposed site and structure, the applicant certifies that it has obtained reasonable assurance from the owner possessing control of the site and structure.

The owner of the proposed site is: Henry Childs; His telephone number is: (804)823-4405;

Signature of Applicant: Peter R. Robinson

Date: 5-9-92

CONFIDENTIAL - SECURITY INFORMATION

ENGINEERING STATEMENT
ON BEHALF OF
COMMUNITY EDUCATIONAL SERVICE COUNCIL, INC.
NEW EDUCATIONAL FM STATION
CH273-A 103.5 MHz 0.270 kW 462 METERS
CROZET, VIRGINIA

FIGURES INDEX

FIGURE 1 FM SPACING STUDY
FIGURE 2 TRANSMITTER SITE LOCATION MAP
FIGURE 2A SUPPLEMENTAL SITE LOCATION MAP
FIGURE 3 ANTENNA SKETCH
FIGURE 4 ELEVATION AND CONTOUR DATA
FIGURE 5 COVERAGE CONTOUR MAP

PREPARED BY:

BROADCAST TECHNICAL, INC.
NEW ORLEANS, LOUISIANA

May, 1992

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

Name of Applicant

Community Educational Service Council, Inc.

Call letters (if issued)

Not 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))

- | | |
|--|---|
| <input checked="" type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxiliary facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary facility |
| <input type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxiliary facility |

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

- | | |
|---|--|
| <input type="checkbox"/> Antenna supporting-structure height | <input type="checkbox"/> Effective radiated power |
| <input type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency |
| <input type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location | <input type="checkbox"/> Other (Summarize briefly) |

File Number(s) _____

1. Allocation:

Channel No.	Principal community to be served:		
278	City Crozet	County Albemarle	State 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 of Castle Rock Mountain, 4 km S.S.E. of Batesville, Albemarle County, Virginia

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array.

Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	37°	57'	00"	Longitude	78°	43'	38"
----------	-----	-----	-----	-----------	-----	-----	-----

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)?

Yes No

If Yes, give call letter(s) or file number(s) or both.

WXWT927, File No. 9106029946

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

N.A.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? Yes No

If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "
---	--

5. Has the FAA been notified of the proposed construction? Yes No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. See Exhibit E, Engineering Statement for discussion

Exhibit No.
D.N.A.

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	<u>Bundoran</u>	<u>4.0 km</u>	<u>70°</u>
(b)	_____	_____	_____

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 723.6 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 30.5 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 754.1 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 21 meters (

21 meters (

(2) above mean sea level [(aX1) + (bX1)] 744.6 meters (

744.6 meters (

(3) above average terrain 462 meters (

462 meters (

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.
E

9. Effective Radiated Power:

(a) ERP in the horizontal plane 0.27 kw (H^M) 0.27 kw (V^M)

(b) Is beam tilt proposed? Yes No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.
D.N.A.

_____ kw (H^M) _____ kw (V^M)

*Polarization

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

Exhibit No. D.N.A.

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.
D.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.
D.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.
E

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

(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.
D.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.

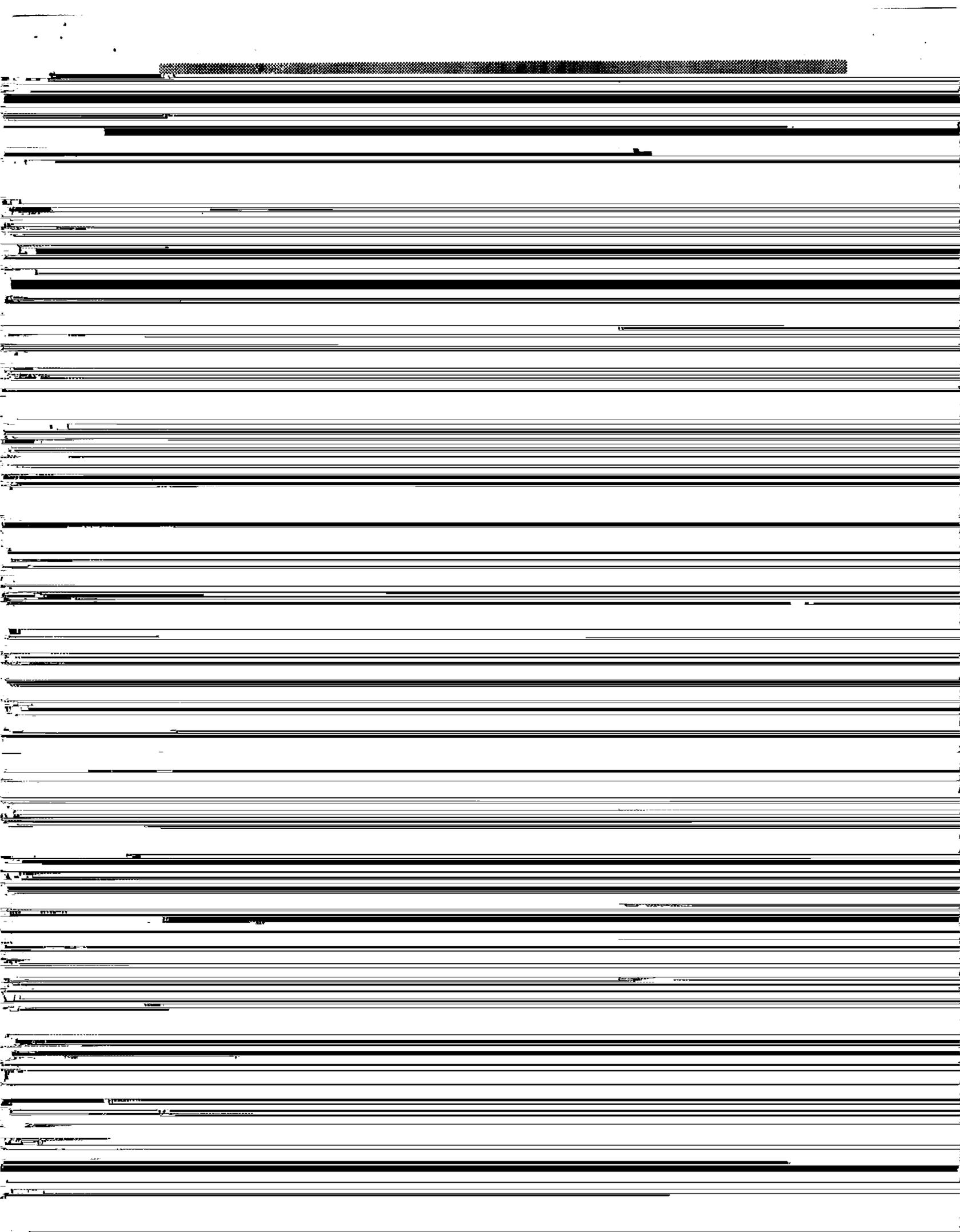
Exhibit No.
D.N.A.

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.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

(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.

Exhibit No. D.N.A.



ELEVATION AND CONTOUR DATA

The average elevations from three to sixteen kilometers from the proposed site along the eight required radials were determined using a computer method in accordance with the procedures specified in Section 73.312(d) using the 30 Second Point Data File of the National Geophysical Data Center.

Figure 4 is a tabulation of average elevations, effective antenna heights and distances to the 60 dBu and 70 dBu coverage contours. The contour data of Figure 4

The general analysis was done by making certain assumptions, then calculating the power density at ground level and finding the percentage of the allowable level. These various contributing percentages were added to get the final percentage of allowable radiation.

It was assumed that if the final percentage was less than 100%, then the addition of the proposed Crozet FM operation operation to the site would present no radiation hazard. As will be demonstrated, the proposed facility constitutes 4.09% of the allowable limit at ground level. Whereas the co-located communication facilities contribution of non-ionizing radiation is negligible, it is believed that the addition of the proposed Crozet FM operation operation to the site would present no radiation hazard.

The area around the base of the proposed antenna tower will be fenced to prevent access to the tower structure when the FM operation is broadcasting. In the event that workers need to enter the restricted area or climb the tower structure, applicant certifies that it will cease operations for the entire period of potential exposure to workers and will only resume operation after verification that all personnel are clear of the restricted area and out of the vicinity of the tower structure.

The following assumptions were made for the analysis of the FM stations at the site:

1. All facilities within 1 km. are considered to be at the same site as the proposed site.
2. All FM stations were considered to be circularly polarized.
3. Worst case downward radiation was used.
4. S, the power density at ground level was calculated using the following formula:

Where:

$$S = \frac{(0.64) (1.64) (\text{Power}) (1000)}{(\Pi)(\text{Distance})^2}$$

S = Power Density at ground level in milliwatts/square centimeter

$\Pi = 3.1416$

Power = total power in watts

D = distance from base of tower to center of radiation in cm.

$(x)^2$ = to the second power (squared)

Table A gives the results of the analysis and clearly demonstrates that the addition of the proposed Crozet FM operation operation to the site does not pose a radiation hazard

TABLE A

Station	Height (meters)	Power (kilowatts)	"S" (mw/sq.cm)	"S" Limit (mw/sq.cm)	Percentage of Limit (%)
Proposed	21.0	0.540	.04090987	1.000	4.091
TOTAL					4.091

AERONAUTICAL AND ENVIRONMENTAL IMPACT CONSIDERATIONS

The proposed antenna installation would utilize an existing tower structure 30.5 meters overall height above ground. No increase in height or modification of the tower structure is proposed or anticipated by the applicant.

In accordance with 47 CFR 17.14(a), the proposed antenna installation would be completely shielded by the existing tower structure on which it will be mounted. Therefore, it is believed that it is evident beyond all reasonable doubt that the FM