

TELEVISION BROADCAST
ENGINEERING DATA

Name of applicant

Rossmoyne Corporation

Purpose of authorization applied for: (Indicate by check mark)

If application is for a new station or for any of the changes numbered B through E, complete all paragraphs of this form; if change F is of a character which will change coverage or increase the overall height of the antenna structure more than 20 feet, answer all paragraphs, otherwise complete only paragraphs 2 and 3 and the appropriate other paragraphs; for changes G through I, complete only paragraph 2 and the appropriate other paragraphs; for change J, complete only paragraphs 2 and 16)

- A. Construct a new station
- B. Change effective radiated power or antenna height above average terrain
- C. Change transmitter location
- D. Change frequency
- E. Approval of site and antenna
- F. Change antenna system
- G. Change transmitter
- H. Install auxiliary or alternate main transmitter
- I. Other changes (specify)
- J. Change studio location

Modification of CP BPCT 966

2. Facilities requested

Frequency	Channel number
548 — 554 Mc.	27

Effective Radiated Power
(visual)In dbk: **18.92**
In kw: **78**Antenna height above average
terrain in feet. (Must agree
with height given in Para. 12
of this Section)**927**

3. (a) Antenna structure

Is the proposed construction in the immediate vicinity or does it serve to modify the construction of any standard broadcast station, FM broadcast station, television broadcast station, or other class of radio station? If "Yes", attach as Exhibit No. * complete engineering data thereon.

Yes No

Will proposed structure be constructed on the top of an existing structure? If "Yes", describe and give height above ground of existing structure.

Yes No

Overall height in feet above
ground. (Do not include the
height of any obstruction light-
ing which may be required.)**400**Overall height in feet
above mean sea level. (Do
not include the height of
any obstruction lighting
which may be required.)**1450**

Height of antenna radiation center in feet above mean sea level.

1427

(b) Antenna data

Visual

Make	Type No.
RCA	Special TFU24DM

Number of sections

16Power gain in db
**12.88 at
horizontal**

Aural (if separate)

Make
Not separate

Type No.

Number of sections

Power gain in db

Is directional antenna proposed? Yes No If "Yes", attach as Exhibit No. * **0.5° beam tilt**
complete engineering data thereon.

4. Transmitters

(a) Visual

Make	Type No.	Rated power
DuMont	15000	In dbk: 6.99 In kw: 5

(b) Aural

Make	Type No.	Rated power
DuMont	15000	In dbk: 4.771 In kw: 3

If the above transmitters are composite or of types for which data have not been filed with the F.C.C., attach as Exhibit No. a complete showing of transmitter details in accordance with the Commission's Rules. The showing should include schematic diagrams, makes and types of tubes, operating constants of the last radio stages, full details of frequency control, vestigial sideband filter (if used), multiplex networks and isolation networks. If changes are to be made in a licensed transmitter, include a schematic diagram and give full details of the changes.

(c) Describe in Exhibit No. _____ means which will be used for determining and maintaining power output of the transmitters to the values specified in this application.

5. Modulation monitors **No change-on file**

(a) Visual monitor or monitoring equipment

Make	Type No.

(b) Aural monitor

Make	Type No.

6. Frequency monitors

(a) Visual monitor

Make	Type No.	Accuracy

(b) Aural monitor

Make	Type No.	Accuracy

7. If the above monitors or monitoring equipment have not been approved by the F.C.C., include as Exhibit No. _____ a brief technical description of each.

8. Transmission line proposed to supply power to the antenna from the transmitter

(a) Visual

Make	Type No.	Description
RCA	NI-19089-1	Teflon Coaxial

Size (nominal inside transverse dimensions) in inches	Length in feet	Power loss in db for this length
3 1/8	400	0.95

***See Engineering Report**

ANTENNA AND SITE INFORMATION
(see instruction B
Section I)

Name of applicant

Rossmoyne Corporation

Address where applicant can be reached in person

WCMB, Harrisburg, Pa.

This Section is submitted to the Regional Airspace Subcommittee of the Air Coordinating Committee for clearance in connection with obstructions to air traffic. It is necessary that all the data called for be supplied. Previously and separately filed data must not be incorporated by reference.

Attorney

McKenna & Wilkinson

Address

1028 Conn. Ave. NW, Washington, D. C.

Consulting Engineer

FRANK H. McINTOSH

Address

Wyatt Bldg., Washington, D. C.

Class of station

Television

Facilities requested

Channel 27

1. Location of antenna

State

Penn

County

CumberlandCity or Town **near****Harrisburg**

Exact antenna location (street address) (If outside city limits, give distance and direction from, and name of nearest town)

Blue Mountain**0.7 mi. NW of Summerdale**

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

North latitude

40° 18' 58"

West longitude

76° 56' 57"

3. Designation, distance, and bearing to center line of nearest established airway within 5 miles

Red 3, 2.5 mi, 212° T *Fig. 6

4. List all landing areas within 10 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.

	Landing Area	Distance	Direction
(a)			
(b)	* (see attached sheet)		
(c)			

5. Description of antenna system (If directional, give spacing and orientation of towers).

Type **RCA TPU 24 DM**Description of tower(s) **Vertical steel**

Self-supporting	Guyed			Tubular (Pole)				
	Yes	No	Yes	No	Yes	No		
Tower (height figures should not include obstruction lighting)			#1	#2	#3	#4	#5	#6
Height of radiating elements			46.5					
Overall height above ground			400					
Overall height above mean sea level			1450					

If a combination of Standard, FM, or TV operation is proposed on the same multi-element array (either existing or proposed) submit as Exhibit No. * a horizontal plan for the proposed antenna system, giving heights of the elements above ground and showing their orientation and spacing in feet. Clearly indicate if any towers are existing. **Fig. 8**

Submit as Exhibit No. * a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant features. Clearly indicate existing portions, noting painting and lighting. **Fig. 7**

Is the proposed antenna system designed so that obstruction lights may be installed and maintained at the uppermost point(s)?

Yes No

6. Is the proposed site the same or immediately adjoining the transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission? Yes No

Date **October 29, 1953**

If the answer is "Yes", give

Call letters

WTPA

File numbers

BMPCT 1057

Signature of Engineer preparing data

***See Engineering Report**

United States of America
Federal Communications Commission

APPLICATION FOR AUTHORITY TO CONSTRUCT A NEW BROADCAST
STATION OR MAKE CHANGES IN AN EXISTING BROADCAST STATION
(Revised 8-6-52)

Name and post office address of applicant (See Instruction D)

Rossmoyne Corporation
228 N. Court Street
Harrisburg, Pennsylvania

INSTRUCTIONS

A. This form is to be used in applying for authority to construct a new AM (standard), commercial FM (frequency modulation), or commercial television broadcast station, or to make changes in existing commercial broadcast stations. This form consists of this part, Section I, and the following sections:

- Section II, Legal Qualifications of Broadcast Applicant
- Section III, Financial Qualifications of Broadcast Applicant
- Section IV, Statement of Program Service of Broadcast Applicant
- Section V-A, Standard Broadcast Engineering Data
- Section V-B, FM Broadcast Engineering Data
- Section V-C, Television Broadcast Engineering Data
- Section V-G, Antenna and Site Information

B. Prepare three copies of this form and all exhibits. Swear to one copy of Section I. Prepare two additional copies (a total of five) of Section V-G and associated exhibits. File all the above with Federal Communications Commission, Washington 25, D. C.

C. Number exhibits serially in the space provided in the body of the form and list each exhibit in the space provided on page 2 of this Section. Show date of preparation of each exhibit, antenna pattern, and map, and show date when each photograph was taken.

D. The name of the applicant stated in Section I hereof shall be the exact corporate name, if a corporation; if a partnership, the names of all partners and the name under which the partnership does business; if an unincorporated association, the name of an executive officer, his office; and the name of the association. In other Sections of the form the name need be only sufficient for identification of the applicant.

E. Information called for by this application which is already on file with the Commission (except that called for in Section V-G) need not be refiled in this application provided (1) the information is now on file in another application or FCC form filed by or on behalf of this applicant; (2) the information is identified fully by reference to the file number (if any), the FCC form number, and the filing date of the application or other form containing the information and the page of paragraph referred to, and (3) after making the reference, the applicant states: "No change since date of filing." Any such reference will be considered to incorporate into this application all information, confidential or otherwise, contained in the application or other form referred to. The incorporated application or other form will thereafter, in its entirety, be open to the public.

F. This application must be executed by applicant, if an individual; by a partner of applicant, if a partnership; by an officer of applicant, if a corporation or association; or by attorney of applicant only under conditions shown in Section 1.303, Rules Relating to Organization and Practice and Procedure, in which event satisfactory evidence of disability of applicant or his absence from the Continental United States and authority of attorney to act must be submitted with application.

G. Before filling out this application, the applicant should familiarize himself with the Communications Act of 1934, as amended, Parts 1, 2, 3 and 17 of the Commission's Rules and Regulations and the Standards of Good Engineering Practice.

H. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT APPLICABLE, SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE APPLICATIONS MAY BE RETURNED WITHOUT CONSIDERATION.

Send notices and communications to the following-named person at the post office address indicated

Edgar T. Shepard, Jr. *
(above address)

1. Requested facilities

Frequency	Channel No.	Power in kilowatts		Minimum hours operation daily
		Night	Day	
548-				
554 mc	27	184	184	6

Hours of operation

Unlimited	<input checked="" type="checkbox"/>	Sharing with (Specify Stations)	Other (Specify)
Daytime only	<input type="checkbox"/>		
Limited	<input type="checkbox"/>		

Type of station (as Standard, FM, Television)

Television

Location of main studio

City	State
Harrisburg,	Pennsylvania

2. If authority to make changes in an existing station is requested

a. Present facilities

Frequency	Call	Channel No.	Power in kilowatts		Minimum hours operation daily
			Night	Day	
548-	WCMB-				
554 mc	TV	27	77.6	77.6	6

Hours of operation

Unlimited	<input checked="" type="checkbox"/>	Sharing with (Specify Stations)	Other (Specify)
Daytime only	<input type="checkbox"/>		
Limited	<input type="checkbox"/>		

Location of main studio

City	State
Harrisburg	Pennsylvania

b. If this application is for changes in an existing authorization, complete Section I and any other sections necessary to show all substantial changes in information filed with the Commission in prior applications or reports. In the spaces below check Sections submitted herewith and as to Sections not submitted herewith refer to the prior application or report containing the requested information in accordance with Instruction E. (If contemplated expenditures are less than \$1,000, do not complete Section III. Section IV not required for applications for minor changes not involving change in power, change in frequency, change in hours of operation, or moving from city to city.)

Section No. Para. No. Reference (File or Form No. and Date)

- Section I See BPCT-966
- Section III
- Section II See BPCT-966
- Section V

Have there been any substantial changes in the information incorporated in this application by reference in this paragraph? Yes No

3. If this application is contingent on the grant of another pending application, state name of other applicant and file number of other application.

Not applicable

The applicant hereby waives any claim to the use of any particular frequency or of the ether 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).

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.

All the statements made in the application and attached exhibits are considered material representations, and all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

The applicant, or the undersigned on the applicant's behalf, states that he has endeavored to supply full and correct information as to all matters which are relevant to this application and that he has done so as to all matters within his own knowledge.

Dated this 5th day of August, 1954

ROSSMOYNE CORPORATION

(Name of Applicant)

By /s/ Edgar T. Shepard, Jr.

President
Title

Subscribed and sworn to

before me this 5 day of August, 1954 /s/ Sheila A. Kelly
Notary Public

SEAL

(Notary public's seal must be affixed where the law of jurisdiction requires, otherwise state that law does not require seal.)

My commission expires October 31, 1958

If applicant is represented by legal or engineering counsel, state name and post office address: Legal McKenna & Wilkinson, 1735 DeSales St., Washington 6, D. C.; Engineering, Frank H. McIntosh, 777 - 14th Street, N.W., Washington 5, D. C.

EXHIBITS furnished as required by this form:

Exhibit No.	Section and Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official title
	III	Edgar T. Shepard, Jr.	President
	V	Frank H. McIntosh	Consulting Engineer

SECTION III INFORMATION

This is an application by Rossmoyne Corporation, permittee of television station WCMB-TV, Harrisburg, Pennsylvania (Channel 27) to increase power and to change transmitting and studio equipment.

WCMB-TV is changing from a DuMont 5 kw transmitter and related equipment to a General Electric 12 kw transmitter and related equipment. The changes are being made for the following reasons:

a. Operating experiences of other UHF stations have shown that transmitter powers of 10 kilowatts or greater are needed.

b. WCMB-TV has been able to enter into a favorable contract with General Electric Company to acquire the transmitter formerly utilized by UHF television station WKLO-TV, Louisville, Kentucky, which suspended operations.

The application for construction permit of WCMB-TV granted by the Commission (File No. BPCT-966, Docket No. 10279) called for total equipment and construction cost of \$244,041.91. (Initial Decision, released June 15, 1953, Docket No. 10279, paragraph 36, p. 26.) Because the equipment is being purchased from General Electric at a price lower than it was originally proposed to purchase from the DuMont Company (occasioned primarily by a reduction of \$43,000 for the price of transmitter), the new total costs of construction are estimated at \$217,782, i.e., \$26,259.91 less than originally estimated.

For this reason, applicant is not submitting detailed revised Section III information.

Applicant has already completed construction of the studio and transmitter buildings at an overall cost less than initially predicted in the application for construction permit. While the savings in equipment cost and building cost may make it unnecessary for applicant to utilize the complete financing plan proposed in the application for construction permit, at the present time no final decision has been reached to modify those plans. The original financing plans are described in paragraphs 37-39 of the aforesaid Initial Decision. The credit terms extended by the General Electric Company are also more favorable than those proposed by DuMont. The General Electric credit terms are as follows:

A 20% payment at time contract is accepted by the Company. The balance or 80% of the total contract price will be payable over a four year

**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO BROADCAST STATION CONSTRUCTION PERMIT

TELEVISION STL BROADCAST STATION
(Class of station)

Subject to the provisions of the Communications Act of 1934, subsequent acts, treaties, and all regulations heretofore or hereafter made thereunder, and further subject to the conditions set forth in this permit, authority is hereby granted to the grantee,

ROSSMOYNE CORPORATION

to construct a radio broadcast station in accordance with the following specifications:

1. (a) Location of transmitter:

State Penna. County Dauphin City or town Harrisburg

Street and number 228 N. Court Street

N. latitude: Degrees 40, minutes 15, seconds 42

W. longitude: Degrees 76, minutes 53, seconds 5

Commercial TV

(b) ~~Relay~~ ~~Portable~~ ~~Mobile~~ ~~standard~~ broadcast station with which it is to be operated:

WCMB-TV, Harrisburg, Pa.

2. Location of main studio:

State _____ County _____ City or town _____

Street and number _____

3. Description of transmitting apparatus:

1 MANUFACTURER	2 TYPE	3 SERIAL NO.	4 RATED POWER (WATT)
Raytheon Mfg. Co.	KTR-100	--	0.1

Antenna System: Raytheon parabolic antenna mounted in fourth floor of studio building.
Overall height above ground 40 feet.
Direction of radiation of main lobe 318° true.

4. Date of required commencement of construction December 22, 1954

5. Date of required completion of construction June 22, 1955