

## SECTION V-B

FM ENGINEERING DATA

Name of applicant

MARIETTA COLLEGE

FOR COMMISSION USE ONLY

File No.

1. Purpose of authorization applied for:  Construct a new station  Make changes in authorized Radio station

(a) If this is not for a new station, summarize briefly the nature of the changes proposed.

1. Change operating frequency
2. Change location of transmitter & add remote control
3. Install new antenna system

(b) If this is an application (or amendment thereto) to make changes in an existing station or to amend application for a new station is the change being made to one of the following?

(1) Frequency

(2) Station location

(3) Class

 Yes  No

(c) If Yes, this constitutes a major change, Question 3(a) on page 1 of Section I of this form should be answered accordingly.

## 2. Facilities requested

Frequency	Transmitter power output
98.5Mhz	.01kw

## Proposed transmitter location

State	County	City
Ohio	Washington	Marietta

## Street address (or other identification)

Dudley Avenue Jr. High School Hill

## 4. Proposed location of main studio

State	County
Ohio	Washington

City or town	Street address
Marietta	211 Fifth St. (Andrews Hall)

## Other studios proposed

## 5. Transmitter

Make	Type No.	Rated power
Gates	BFE 10B	.01kw

(If the above-transmitter has not been accepted for licensing by the F.C.C., attach as Exhibit No. a complete showing of transmitter details. Showing should include schematic diagram and full details of frequency control. If changes are to be made in licensed transmitter include schematic diagram and give full details of frequency change.)

## 6. Transmission line proposed to supply power to the antenna from the transmitter

Make	Type No.	Description
Andrew	LDF4-50	Foam-Heliac

Size (nominal transverse dimension)	Length	Rated efficiency for this length
0.5 inches	120 ft.	82 %

## 7a. Antenna Structure

Is the proposed construction in the immediate vicinity or does it serve to modify the construction of any AM, FM or TV broadcast station or other class of radio station?

If Yes, attach as Exhibit No.

See engineering narrative Exhibit V-B-1 complete engineering data thereon.

 Yes  No

Attach as Exhibit No. VB-2 a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant features.

Overall height above ground (without obstruction lighting)	Height of antenna radiation center above mean sea level
200 ft.	Horizontal 871 ft. Vertical 871 ft.

## Geographical coordinates of antenna (to nearest second)

North Latitude	39° 25' 07"
West Longitude	81° 26' 32"

## 7b. Antenna Data

Make	Type No. or description
Phelps-Dodge	ECFM-1

Antenna power gain	No. of Sections
Horizontal .43 Vertical .43	Horizontal 1 Vertical 1

Is horizontal polarization proposed?

 Yes No

Is directional antenna proposed?

 Yes No

If No, attach as Exhibit No. complete engineering data on the antenna and the effective radiated power proposed.

(Circular polarization)

If Yes, attach as Exhibit No.

complete engineering data thereon.