**United States of America**

# FEDERAL COMMUNICATIONS COMMISSION

# FM BROADCAST STATION CONSTRUCTION PERMIT

Authorizing Official:

Official Mailing Address:

EASTERN MICHIGAN UNIVERSITY
426 KING HALL
YPSILANTI MI 48197

Dale E. Bickel
Senior Engineer
Audio Division
Media Bureau

Facility ID: 18311

Call Sign: WEMU

Permit File Number: BMPED-19900330IA

Grant Date: April 23, 1991

The authority granted herein has no effect on the expiration date of the underlying construction permit.

This permit modifies permit No.: BPED-870317KC
as extended by permit No.: BMPED-900516JT

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Commission rules which became effective on February 16, 1999, have a bearing on this construction permit. See Report & Order, Streamlining of Mass Media Applications, MM Docket No. 98-43, 13 FCC RCD 23056, Para. 77-90 (November 25, 1998); 63 Fed. Reg. 70039 (December 18, 1998). Pursuant to these rules, this construction permit will be subject to automatic forfeiture unless construction is complete and an application for license to cover is filed prior to expiration. See Section 73.3598.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.

Callsign: WEMU Permit No.: BMPED-19900330IA

Name of Permittee: EASTERN MICHIGAN UNIVERSITY

Station Location: MI-YPSILANTI

Frequency (MHz): 89.1

Channel: 206

Class: B1

Hours of Operation: Unlimited

Transmitter: Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Transmitter output power: As required to achieve authorized ERP.

Antenna type: Directional

Antenna Coordinates: North Latitude: 42 deg 15 min 48 sec

West Longitude: 83 deg 37 min 34 sec

| | Horizontally Polarized Antenna | Vertically Polarized Antenna |
|---|---|---|
| Effective radiated power in the Horizontal Plane (kW): | 15.5 | 15.5 |
| Height of radiation center above ground (Meters): | 91 | 91 |
| Height of radiation center above mean sea level (Meters): | 331 | 331 |
| Height of radiation center above average terrain (Meters): | 88 | 88 |

Antenna structure registration number: 1040217

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

1 Prior to construction of the tower authorized herein, permittee shall notify AM Station(s) listed below so that, if necessary, the AM station(s) may determine operating power by the indirect method and request temporary authority from the Commission in Washington, D.C. to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station(s). Both prior to construction of the tower and subsequent to the installation of all appurtenances thereon, a partial proof of performance, as defined by Section 73.154(a) of the Commission's Rules, shall be conducted to establish that the AM array has not been adversely affected and, prior to or simultaneous with the filing of the application for license to cover this permit, the results submitted to the Commission.
(Revised March 14, 1983)
WWCM, WSDS

Special operating conditions or restrictions:

2 BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances.
Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.

3 BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit an affidavit from a licensed surveyor to establish that the directional antenna has been oriented at the proper azimuth.

4 4. The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this constuction permit.

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A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:

15.5 kilowatts.

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Principal minima and their associated field strength limits:

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60 through 80 degrees True: 0.50 kilowatts

*** END OF AUTHORIZATION ***