



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST STATION CONSTRUCTION PERMIT**

Authorizing Official:

Official Mailing Address:

STATE OF WISCONSIN - EDUCATIONAL COMMUNICAT  
3319 W. BELTLINE HWY.  
MADISON WI 53713

Dale E. Bickel  
Senior Engineer  
Audio Division  
Media Bureau

Facility ID: 63078

Call Sign: WHWC

Permit File Number: BMPED-19960829IA

Grant Date: December 13, 1996

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

This Permit Modifies Permit No.:BPH-920302IH  
Last Extended by Permit No.:BMPH-960118JA

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.

Name of Permittee: STATE OF WISCONSIN - EDUCATIONAL COMMUNICATIONS BOARD

Station Location: WI-MENOMONIE

Frequency (MHz): 88.3

Channel: 202

Class: C

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: 45 deg 02 min 47 sec  
West Longitude: 91 deg 51 min 42 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	98	98
Maximum effective radiated power (kW):	100	100
Height of radiation center above ground (Meters):	327	327
Height of radiation center above mean sea level (Meters):	625	625
Height of radiation center above average terrain (Meters):	319	319

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 366 Meters

Obstruction marking and lighting specifications for antenna structure:

It is to be expressly understood that the issuance of these specifications is in no way to be considered as precluding additional or modified marking or lighting as may hereafter be required under the provisions of Section 303(q) of the Communications Act of 1934, as amended.

None Required

## Special operating conditions or restrictions:

- 1 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.
- 2 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.
- 3 .  
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 in this construction permit.  
.  
A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:  
.  
100.0 kilowatts.  
.  
Principal minima of the composite radiation pattern corresponds to an effective radiated power of:  
.  
.  
20.0 kilowatts  
.  
which extends clockwise from 260 degrees T to 265 degrees T.
- 4 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

\*\*\* END OF AUTHORIZATION \*\*\*