Federal Communications Commission

FM BROADCAST STATION CONSTRUCTION PERMIT

Permittee INTERLOCHEN CENTER FOR THE ARTS PO Box 199 INTERLOCHEN, MI, 49643 Call SignFacility IDWHBP172716

File Number	This Permit Modifies License File No.	
0000240304	BLED-20171005AAD	
Filing Date	Grant Date	Expiration Date
03/04/2024	03/29/2024	36 months after the grant date

Community of License	*	Frequency (MHz)	Station Channel	Station Class
City: Harbor Springs State: MI		90.1	211	C3
Hours of Operation: Unlimited	RA		A	
Facility Type: Noncommercial Ec	ducatio	nal		

Transmitter Certified for Compliance. See Sections 73.1660, 73.1665	Transmitter Output Power As required to achieve authorized ERP.
and 73.1670 of the Commission's Rules.	
Antenna Type	Antenna Coordinates (NAD 83)
Directional	Latitude 45-30-5.2 N
	Longitude 85-1-48.9 W
Major Lobe Directions	
Not Applicable	

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective Radiated Power in the Horizontal Plane (kW)	1.2	1.2

Height of Radiation Center Above Ground (meters)	159	159
Height of Radiation Center Above Mean Sea Level (meters)	533	533
Height of Radiation Center Above Average Terrain (meters)	300	300

Antenna Structure Registration Number	Overall Height of Antenna Structure Above Ground (meters)
1000703	See the registration for this antenna structure.

Obstruction Marking and Lighting Specifications for Antenna Structure

See the registration for this antenna structure.

Special Operating Conditions or Restrictions

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.

- 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 of the proposed supporting structure, including all appurtenances. The proof-of-performance may also be accomplished using computer modeling, assuming it satisfies all of the requirements of 47 C.F.R. Section 73.316. (See 47 C.F.R. Section 73.316(c)(2)(iv)). 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.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the
 installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include
 a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and
 list the qualifica- tions of the certifying engineer.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee must submit a certification executed by a
 licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth(s)
 specified in the directional antenna proof of performance. This certification must include a description of the
 method used by the surveyor to determine the azimuth(s) of the installed directional antenna system and the
 accuracy of that determination.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage provisions of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. Section 73.316(c)(2)(ix)(B)).
- 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 construction permit. A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power: 1.2 kilowatts. Principal minima and their associated field strength limits: 170 – 190 degrees True: 0.038 kilowatts.

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 (See Section 73.875).

Pursuant to Section 73.3598, this Construction Permit will be subject to automatic forfeiture unless construction is complete and application for license is filed prior to expiration.

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

