

Federal Communications Commission

FM BROADCAST STATION CONSTRUCTION PERMIT

Permittee

GATEWAY CREATIVE BROADCASTING,
INC.

13358 MANCHESTER ROAD, SUITE 100
DES PERES, MO, 63131

Call Sign

KXBS

Facility ID

4948

File Number 0000215760	This Permit Modifies License File No. BLH-20121203AQQ	
Filing Date 12/07/2023	Grant Date 12/11/2023	Expiration Date 36 months after the grant date

Community of License City: BETHALTO State: IL	Frequency (MHz) 95.5	Station Channel 238	Station Class C3
Hours of Operation: Unlimited			
Facility Type: Commercial			

Transmitter Certified for Compliance. 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 (NAD 83) Latitude 38-39-8.0 N Longitude 90-17-3.0 W
Major Lobe Directions Not Applicable	

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective Radiated Power in the Horizontal Plane (kW)	10.5	10.5

Height of Radiation Center Above Ground (meters)	160	160
Height of Radiation Center Above Mean Sea Level (meters)	309	309
Height of Radiation Center Above Average Terrain (meters)	154	154

Antenna Structure Registration Number 1004577	Overall Height of Antenna Structure Above Ground (meters) 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.

- ***** This is a Section 73.215 contour protection grant as requested by this applicant *****
- The permittee has specified the use of an EPA Type 3 (Opposed U Dipole), 6 section, 0.5 wavelength spaced antenna to demonstrate compliance with the FCC radiofrequency electromagnetic field exposure guidelines. If any other type or size of antenna is to be used with the facilities authorized herein, THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 WILL NOT APPLY. In this case, a FORMAL REQUEST FOR PROGRAM TEST AUTHORITY must be filed with the FCC Schedule 302-FM, Application for License, BEFORE program tests will be authorized. This request must include a revised RF field showing to demonstrate continued compliance with the FCC guidelines.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must 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. 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 must 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, the 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 affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit must include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.
- BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage requirements of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. § 73.316(c)(2)(ix)(B)).
- The RMS of the composite measured relative field horizontal plane directional antenna pattern must encompass at least 85% of the RMS of the composite relative field horizontal plane directional antenna pattern authorized by this construction permit.
- 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: 10.5 kilowatts. Principal minima and their associated field strength limits: 170 to 180 degrees True (clockwise): 2.56 kilowatts; 240 degrees True: 5.38 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 83.875).

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.

