



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

UNIVERSITY OF NORTHWESTERN - ST. PAUL  
3003 SNELLING AVE N.  
ST. PAUL MN 55133

Dale E. Bickel  
Senior Engineer  
Audio Division  
Media Bureau

Facility Id: 83448

Call Sign: WCBW-FM

License File Number: BLED-20010827AAM

This License Covers Permit No.: BPED-19960924MA

Grant Date: September 07, 2001

This license expires 3:00 a.m.  
local time, December 01, 2004.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Callsign: WCBW-FM

License No.: BLED-20010827AAM

Name of Licensee: UNIVERSITY OF NORTHWESTERN - ST. PAUL

Station Location: IL-EAST ST. LOUIS

Frequency (MHz): 89.7

Channel: 209

Class: A

Hours of Operation: Unlimited

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

Transmitter output power: .200 kW

Antenna type: Directional

Description: SWR FMEC/1-DA

Antenna Coordinates: North Latitude: 38 deg 37 min 53 sec

West Longitude: 90 deg 12 min 09 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	.250	.250
Height of radiation center above ground (Meters):	46	46
Height of radiation center above mean sea level (Meters):	195	195
Height of radiation center above average terrain (Meters):	57	57

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 53 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 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 construction permit BPED-19960924MA. .

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

0.25 kilowatts.

Principal minima and their associated field strength limits:

240 to 280 degrees True: 19.5 watts

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