



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

Authorizing Official:

Official Mailing Address:

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WINONA STATE UNIVERSITY  
P.O. BOX 5838  
WINONA MN 55987

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Arthur E. Doak  
Senior Engineer  
Audio Division  
Media Bureau

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Facility Id: 72955

Call Sign: KQAL

License File Number: BLED-19891030KB

This license covers Permit No.: BPED-880509ML

Grant Date: August 13, 1990

This license expires 3:00 a.m.  
local time, April 01, 1997.

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.

Name of Licensee: WINONA STATE UNIVERSITY

Station Location: MN-WINONA

Frequency (MHz): 89.5

Channel: 208

Class: C3

Hours of Operation: Unlimited

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

Transmitter output power:

Antenna type: Directional

Description: ODD ODD880509ML

Antenna Coordinates: North Latitude: 44 deg 01 min 52 sec  
 West Longitude: 91 deg 38 min 31 sec

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the Horizontal Plane (kW):	1.80	1.80
Height of radiation center above ground (Meters):	110	110
Height of radiation center above mean sea level (Meters):	476	476
Height of radiation center above average terrain (Meters):	191	191

Antenna structure registration number: Not Required

Overall height of antenna structure above ground: 123 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:

- Neither the horizontally nor vertically polarized radiation component shall exceed the following value at any azimuth.  
 1.80 KW

Special operating conditions or restrictions:

- 2 Each component shall be restricted to the following values at the azimuths specified below.  
0.185 KW AT 124 DEGREES  
1.00 KW AT 190 DEGREES  
0.580 KW AT 70 DEGREES
  
- 3 In addition, neither radiation component shall increase at a rate exceeding 0.2 dB per degree from the azimuths of restricted radiation specified above nor exceed a maximum-to-minimum ratio of 15 dB. The rms of the vertically polarized radiation pattern shall not exceed that of the horizontally polarized radiation pattern.
  
- 4 6. THE VERTICAL RADIATION MUST BE NO GREATER THAN THE HORIZONTAL RADIATION AT ANY AZIMUTH.

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