

PF/KXLC/License X  
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United States of America

FEDERAL COMMUNICATIONS COMMISSION

JUL 7 1992

FM BROADCAST STATION LICENSE MINNESOTA PUBLIC RADIO



Official Mailing Address:

MINNESOTA PUBLIC RADIO  
45 EAST 7TH STREET  
ST. PAUL, MN 55101

Authorizing Official:

*Robert D. Greenberg*  
Robert D. Greenberg  
Supervisory Engineer, FM Branch  
Audio Services Division  
Mass Media Bureau

Grant Date: JUN 24 1992

Call sign: KXLC

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

License File No.: BLED-911204KC

This license covers Permit No.: BPED-880816MI  
as modified by Permit No.: BMPED-901010IG

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:

MINNESOTA PUBLIC RADIO

Station Location:

MN-LA CRESCENT

Frequency (MHz): 91.1

Channel: 216

Class: A

Hours of Operation: Unlimited

Main Studio Address:

MN-1000 TSCHUMPER RIDGE ROAD, LA CRESCENT

Transmitter location (address or description):

MN-1000 TSCHUMPER RIDGE ROAD, LA CRESCENT.

Remote control point address:

MN-NONE

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

Transmitter output power (kW): .410

Antenna type: (directional or non-directional): Non-directional

Desc: CELWAVE ECFM-2, TWO SECTIONS, CIRCULARLY POLARIZED SIDE-MOUNTED ON A UNIFORM CROSS-SECTION GUYED STEEL TOWER.

Antenna coordinates: North Latitude: 43 48 16.0  
West Longitude: 91 22 18.0

	Horizontally Polarized Antenna	Vertically Polarized Antenna
Effective radiated power in the horizontal plane (kW) . . . . . :	0.23	0.23
Height of radiation center above ground (meters) . . . . . :	152.0	152.0
Height of radiation center above mean sea level (meters) . . . . . :	522.0	522.0

Height of radiation center above  
average terrain (meters) . . . . . : 257.0 257.0

Overall height of antenna structure above ground (including obstruction  
lighting, if any) . . . . . : 206.0 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.

Paragraph A, FCC Form 715-A (Nov. 1983):

There shall be installed at the top of the antenna structure a white  
capacitor discharge omnidirectional light which conforms to FAA/DOD  
Specification L-856, High Intensity Obstruction Lighting Systems. This  
light shall be mounted on the highest point of the structure. If the  
antenna or other appurtenance at its highest point is incapable of  
supporting the omnidirectional light, one or more such lights shall be  
installed on a suitable adjacent support with the lights mounted not  
more than 20 feet below the tip of the appurtenance. The lights shall  
be positioned so as to permit unobstructed viewing of at least one  
light from aircraft at any normal angle of approach. The light  
unit(s) shall emit a beam with a peak intensity around its periphery  
of approximately 20,000 candelas during daytime and twilight, and  
approximately 4,000 candelas at night.

Paragraph B, FCC Form 715-A (Nov. 1983):

There shall be installed at the top of the skeletal or other main  
support structure three or more high intensity light units which con-  
form to FAA/DOD Specification L-856 High Intensity Obstruction  
Lighting Systems. The complement of units shall emit a white high  
intensity light and produce an effective intensity of not less than  
200,000 candelas (daytime) uniformly about the antenna structure in  
the horizontal plane. The effective intensity shall be reduced  
to approximately 20,000 candelas at twilight, and to approximately  
4,000 candelas at night. The light units shall be mounted in a manner  
to ensure unobstructed viewing from aircraft at any normal angle of  
approach, so that the effective intensity of the full beam is not im-  
paired by any structural member of the skeletal framework. The units  
will normally be adjusted so that the center of the beam is in the  
horizontal plane.

Paragraph C, FCC Form 715-A (Nov. 1983):

At the approximate one-half level of the skeletal tower there shall be installed three or more high intensity light units which conform to FAA/DOD Specification L-856 High Intensity Obstruction Lighting Systems. The complement of units shall emit a white high intensity light and produce an effective intensity of not less than 200,000 candelas (daytime) uniformly about the antenna structure in the horizontal plane. The effective intensity shall be reduced to approximately 20,000 candelas at twilight, and to approximately 4,000 candelas at night. The light units shall be mounted in a manner to ensure unobstructed viewing from aircraft at any normal angle of approach, so that the effective intensity of the full beam is not impaired by any structural member of the skeletal framework. The normal angular adjustment of the beam centers above the horizontal shall be two degrees.

Paragraph H, FCC Form 715-A (Nov. 1983):

All lights shall be synchronized to flash simultaneously at 40 pulses per minute. The light system shall be equipped with a light sensitive control device which shall face the north sky and cause the intensity steps to change automatically when the north sky illumination on a vertical surface is as follows:

1. Day to Twilight: Shall not occur before the illumination drops to 60 footcandles, but shall occur before it drops to 30 footcandles.
2. Twilight to Night: Shall not occur before the illumination drops to 5 footcandles, but shall occur before it drops to 2 footcandles.
3. Night to Day: The intensity changes listed in 1. and 2. above shall be reversed in transitioning from the night to day modes.

Paragraph 3.0, FCC Form 715 (March 1978):

There shall be installed at the top of the structure one 300 m/m electric code beacon equipped with two 620- or 700-watt lamps (PS-40, Code Beacon type), both lamps to burn simultaneously, and equipped with aviation red color filters. Where a rod or other construction of not more than 20 feet in height and incapable of supporting this beacon is mounted on top of the structure and it is determined that this additional construction does not permit unobstructed visibility of the code beacon from aircraft at any normal angle of approach, there shall be installed two such beacons positioned so as to insure unobstructed visibility of at least one of the beacons from aircraft at any normal angle of approach. The beacons shall be equipped with a flashing mechanism producing not more than 40 flashes per minute nor less than 12 flashes per minute with a period of darkness equal to approximately one-half of the luminous period.

Paragraph 5.0, FCC Form 715 (March 1978):

At approximately two-fifths of the over-all height of the tower one similar flashing 300 m/m electric code beacon shall be installed in such position within the tower proper that the structural members will not impair the visibility of this beacon from aircraft at any normal angle of approach. In the event this beacon cannot be installed in a manner to insure unobstructed visibility of it from aircraft at any normal angle of approach, there shall be installed two such beacons. Each beacon shall be mounted on the outside of diagonally opposite corners or opposite sides of the tower at the prescribed height.

Paragraph 14.0, FCC Form 715 (March 1978):

On levels at approximately four-fifths, three-fifths and one-fifth of the over-all height of the tower, at least one 116- or 125-watt lamp (A21/TS) enclosed in an aviation red obstruction light globe shall be installed on each outside corner of the structure.

Paragraph 21.0, FCC Form 715 (March 1978):

All lighting shall burn continuously or shall be controlled by a light sensitive device adjusted so that the lights will be turned on at a north sky light intensity level of about 35 foot candles and turned off at a north sky light intensity level of about 58 foot candles.

Obstruction marking in accordance with paragraphs A,B,C,H of FCC Form 715A (DAY) and paragraphs 3,5,14,21 of FCC Form 715 (NIGHT).