



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

LEIGHTON RADIO HOLDINGS, INC.
P.O. BOX 1458
619 WEST ST. GERMAIN ST.
ST. CLOUD MN 56301

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 21400

Call Sign: KBRF

License File Number: BMML-20171221AFK

Grant Date: **SEP 20 2018**
This license expires 3:00 a.m.
local time, April 01, 2021.

This license covers Permit No.: BP-20171127ACH

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.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:
Local Standard Time (Non-Advanced)

Jan.	8:00 AM	5:00 PM	Jul.	4:45 AM	8:15 PM
Feb.	7:30 AM	5:45 PM	Aug.	5:15 AM	7:30 PM
Mar.	6:45 AM	6:30 PM	Sep.	6:00 AM	6:45 PM
Apr.	5:45 AM	7:15 PM	Oct.	6:45 AM	5:45 PM
May	4:45 AM	7:45 PM	Nov.	7:30 AM	4:45 PM
Jun.	4:30 AM	8:15 PM	Dec.	8:00 AM	4:45 PM

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Name of Licensee: LEIGHTON RADIO HOLDINGS, INC.

Station Location: FERGUS FALLS, MN

Frequency (kHz): 1250

Station Class: B

Antenna Coordinates:

Day

Latitude: N 46 Deg 16 Min 24 Sec

Longitude: W 96 Deg 02 Min 44 Sec

Night

Latitude: N 46 Deg 16 Min 27 Sec

Longitude: W 96 Deg 02 Min 46 Sec

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

Nominal Power (kW): Day: 5.0 Night: 2.2

Antenna Input Power (kW): Day: 5.0 Night: 2.373

Antenna Mode: Day: ND Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 3.3 Night: 6.89

Resistance (ohms): Day: 460 Night: 50

Non-Directional Antenna: Day

Radiator Height: 85.9 meters; 128.9 deg

Theoretical Efficiency: 332 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
3	1024481	

Night:

Tower No.	ASRN	Overall Height (m)
1	1024482	
2	1024483	
3	1024481	

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DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Night: 484.41
 Standard RMS (mV/m/km): Night: 508.87
 Augmented RMS (mV/m/km):
 Q Factor: Night:

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	151.6
2	0.9230	-39.500	120.5000	319.500	0	146.1
3	1.0080	-24.200	160.5000	149.500	0	128.9

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	24.6	0.744
2	-20.2	0.933
3	0	1

Antenna Monitor: POTOMAC INSTRUMENTS AM-19 (204)

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 Ground system consists of 120 equally spaced, buried, copper radials, 60 meters in length except where shortened and bonded to a transverse strap between towers.
- 2 The permittee/licensee 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.

*** END OF AUTHORIZATION ***