



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

Real Presence Radio
503 7th Street North
Suite 101
Fargo ND 58102

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 56811

Call Sign: KQAQ

License File Number: BML-20180410ABD

Grant Date: August 30, 2018

This license expires 3:00 a.m.
local time, April 01, 2021.

Convert the status from commercial to non-commercial.educational

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

Callsign: KQAO

License No.: BML-20180410ABD

Name of Licensee: Real Presence Radio

Station Location: AUSTIN, MN

Frequency (kHz): 970

Station Class: B

Antenna Coordinates:

Day

Latitude: N 43 Deg 42 Min 27 Sec

Longitude: W 92 Deg 56 Min 45 Sec

Night

Latitude: N 43 Deg 42 Min 27 Sec

Longitude: W 92 Deg 56 Min 45 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: 0.5

Antenna Input Power (kW): Day: 5.4 Night: 0.54

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 10.4 Night: 3.29

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1024270	
2	1024271	
3	1024272	
4	1024273	

Night:

Tower No.	ASRN	Overall Height (m)
1	1024270	
2	1024271	
3	1024272	
4	1024273	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 630.86 Night: 209.21

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 665.83 Night: 221.56

Q Factor: Day: Night:

Theoretical Parameters:

Day 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	85.0
2	1.0000	-9.000	192.0000	131.000	0	85.0
3	1.0000	103.000	420.0000	225.000	1	85.0
4	1.0000	112.000	420.0000	225.000	0	85.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	92.0	13.0	72.42
2	113.5	17.0	120.70
3	122.0	10.0	32.19
4	140.0	16.0	37.01
5	150.0	20.0	64.37
6	162.0	10.0	354.06
7	185.0	10.0	960.25
8	197.5	25.0	762.20
9	220.0	14.0	185.07
10	227.0	12.0	144.84
11	233.0	12.0	193.12
12	279.0	10.0	177.03
13	284.0	10.0	72.42
14	289.5	11.0	125.53
15	300.5	11.0	120.70
16	306.0	11.0	64.37
17	313.5	15.0	209.21
18	337.0	10.0	64.37
19	342.0	10.0	120.70
20	359.0	12.0	72.42

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	85.0
2	1.0000	-9.000	192.0000	131.000	0	85.0
3	1.0000	103.000	420.0000	225.000	1	85.0
4	1.0000	112.000	420.0000	225.000	0	85.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	92.0	13.0	25.44
2	105.0	13.0	63.81
3	113.5	17.0	42.41
4	122.0	10.0	16.09
5	127.0	10.0	16.09
6	132.0	10.0	16.09
7	140.0	16.0	16.09
8	151.0	22.0	32.19
9	185.0	23.0	313.69
10	206.0	42.0	162.69
11	227.0	31.0	57.94
12	242.5	31.0	134.20
13	258.0	12.0	185.07
14	264.0	12.0	169.34
15	284.0	11.0	17.70
16	284.0	10.0	35.41
17	289.5	11.0	42.41
18	295.0	11.0	51.50
19	300.5	11.0	42.41
20	306.0	11.0	28.95
21	313.5	15.0	59.55
22	329.0	16.0	73.37
23	337.0	10.0	32.46
24	342.0	10.0	46.99
25	359.0	12.0	17.70
26	359.0	10.0	35.41

Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 -9.6	1.088
3 86.6	0.947
4 111.8	0.925

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Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 -9.6	1.088
3 86.6	0.947
4 111.8	0.925

Antenna Monitor: POTOMAC INSTRUMENTS AM-1901

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
92	6.23	15.5
132	6.74	9
185	5.1	160.3
227	3.67	41.1
295	7.4	19.6
321	7.8	30
347	4.51	34.1

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
92	6.23	4.9
132	6.74	2.85
185	5.1	50.7
227	3.67	13
295	7.4	6.2
321	7.8	9.8
347	4.51	10.8

Special operating conditions or restrictions:

1 Location of Monitoring Points:

Direction of 92 degrees true North. Proceed East from the transmitter site drive, on County Road 16. 1.85 miles to A "T" Intersection. Turn south and proceed 0.5 mile to a gravel road going east. Proceed east 2 miles to highway 56. Proceed north on highway 56 0.16 mile. The monitor point is located by a post at the east edge of the highway.

Direction of 132 degrees true North. Proceed East from the transmitter site drive on County Road 16, 1.85 miles to A "T" intersection. Turn south and proceed 1.95 miles to the monitor point location. The monitor point is located at the crest of a hill near a post on the East side of the road. The point is number 721 on the radial.

Direction of 185 degrees true North. Proceed East from transmitter drive 0.3 mile to intersection with gravel road going South. Proceed South 2.5 miles to U.S. Hwy. 16. Proceed West 1.45 miles to U.S. Hwy. 218. Proceed South 0.25 mile to Ellis Avenue. Proceed East 0.5 mile to road parallel to the west edge of Ellis Junior High School. Proceed South 0.1 mile, then East 0.5 mile to driveway leading to school loading dock. The measuring location is at the North edge of the street at center of the driveway.

2 Direction of 227 degrees true North. Proceed easterly from transmitter drive on County Hwy. 16, 0.98 mile to old Mill Road, bearing Northwest. Follow this road 0.67 mile to a Tee intersection at Lansing Town Hall, County Road 25. Proceed South 0.68 mile then West 0.5 mile to Hwy. 218. Proceed South on Hwy. 218, 0.85 mile to a driveway into a cemetery on the East. The measuring location is on the west edge of the drive at the top of the "Y" by a sprinkling faucet.

Direction of 295 degrees true North. Proceed Easterly from transmitter drive on County Hwy. 16 0.98 mile to Old Mill Road, bearing Northwest. Follow this road 0.67 mile to a Tee Intersection at Lansing Town Hall, County Road 25. Proceed south 0.68 mile then west 0.5 mile to Hwy. 218. Proceed North on Hwy. 218 2.75 miles to a gravel road going west (Lansing Fire Number 65) Proceed west 2.1 miles to Tee Intersecting going north. Proceed north 0.23 mile to a farm drive on the west. The measuring location is on the West edge of the road, at the north edge of the woods, even with a fence line going West.

Direction of 321 degrees true North. Proceed Easterly from transmitter drive on County hwy. 16, 0.98 mile to Old Mill Road, bearing Northwest. Follow the road 0.67 mile to a Tee intersection at Lansing Town Hall, County Road 25. Proceed South 0.68 mile then West 0.5 mile to Hwy. 218. Proceed north on Hwy. 218, 4.55 miles to Hwy. 251. Proceed West on Hwy. 251, 0.8 mile to measuring location. The measuring location is on the South edge of the pavement even with the ninth metal fence post East of the first set of double wooden fence posts East of the AC line at driveway further West.

3 Direction of 347 degrees true North. Proceed East from transmitter drive 0.3 mile to intersection with road going North. Proceed North 2.55 miles to Tee intersection with Lansing Road. Proceed 0.95 miles west of this intersection to measuring location. The measuring location is on the North edge of the pavement, South of large tree, 17 guard rail posts East of West end of guard rail.

Special operating conditions or restrictions:

- 4 Ground system consists of 120 equally spaced, buried copper radials about the base of each tower 68.6 m in length except where intersecting radials are shortened bonded plus 120 interspersed radials 30.5 m in length about the base of each tower.
- 5 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 ***