



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

CATHOLIC RADIO NETWORK, INC.
1400 NE 42ND TERRACE
KANSAS CITY MO 64116

Son Nguyen
Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 14620

Call Sign: KEXS

License File Number: BMML-20171012AFP

Grant Date: **JAN 19 2018**

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

This license covers permit no.: BP-20170516AAD

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: Daytime

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

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

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Name of Licensee: CATHOLIC RADIO NETWORK, INC.

Station Location: EXCELSIOR SPRINGS, MO

Frequency (kHz): 1090

Station Class: D

Antenna Coordinates:

Day

Latitude: N 39 Deg 17 Min 39 Sec

Longitude: W 94 Deg 15 Min 37 Sec

Critical

Latitude: N 39 Deg 17 Min 39 Sec

Longitude: W 94 Deg 15 Min 37 Sec

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

Nominal Power (kW): Day: 10.0

Critical: 4.0

Antenna Input Power (kW): Day: 10.5

Critical: 4.324

Antenna Mode: Day: DA

Critical: DA

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

Current (amperes): Day: 14.51

Critical: 9.3

Resistance (ohms): Day: 50

Critical: 50

Antenna Registration Number(s):

Day:

Tower No. ASRN

1 None 57.3

2 None 57.3

3 None 57.3

Critical:

Tower No. ASRN

1 None 57.3

2 None 57.3

3 None 57.3

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1047 Critical: 662.1

Standard RMS (mV/m/km): Day: 1100 Critical: 695.8

Augmented RMS (mV/m/km):

Q Factor: Day: Critical:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.6100	144.000	0.0000	0.000	0	TL/S
2	1.0000	0.000	95.0000	248.000	0	TL/S
3	0.5700	190.000	190.0000	248.000	0	TL/S

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	A	B	C	D
1	72.2	10.00	.00	.00
2	72.2	10.00	.00	.00
3	72.2	10.00	.00	.00

Theoretical Parameters:

Critical Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.6100	144.000	0.0000	0.000	0	TL/S
2	1.0000	0.000	95.0000	248.000	0	TL/S
3	0.5700	190.000	190.0000	248.000	0	TL/S

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Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

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1	72.2	10.00	.00	.00
2	72.2	10.00	.00	.00
3	72.2	10.00	.00	.00

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	142	0.651

1 142 0.651

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Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
2 0	1
3 -172.6	0.568

Critical Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 142	0.651
2 0	1
3 -172.6	0.568

Antenna Monitor: POTOMAC INSTRUEMTN 1901-3

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The licensee shall perform the measurements described in Section 73.155 at least once within each 24-month period.

*** END OF AUTHORIZATION ***