



United States of America
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

Authorizing Official:

Official Mailing Address:

WMUZ RADIO, INC.
P.O. BOX 3003
BLUE BELL PA 19422

Son Nguyen
Supervisory Engineer
Audio Division
Media Bureau

Facility Id: 61679

Call Sign: WCHB

License File Number: BZ-20201015AAC

Grant Date: October 30, 2020

This license expires 3:00 a.m.
local time, October 01, 2028.

This supersedes authorization of same date to include daytime operating phase values. 11/5/2020

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

Name of Licensee: WMUZ RADIO, INC.

Station Location: ROYAL OAK, MI

Frequency (kHz): 1340

Station Class: C

Antenna Coordinates:

Day

Latitude: N 42 Deg 28 Min 10 Sec
Longitude: W 83 Deg 06 Min 54 Sec

Night

Latitude: N 42 Deg 28 Min 10 Sec
Longitude: W 83 Deg 06 Min 54 Sec

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

Nominal Power (kW): Day: 1.0 Night: 1.0

Antenna Input Power (kW): Day: 1.1 Night: 1.0

Antenna Mode: Day: DA Night: ND

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

Current (amperes): Day: 4.64 Night: 10

Resistance (ohms): Day: 50 Night: 10

Non-Directional Antenna: Night

Radiator Height: 125 meters; 201 deg

Theoretical Efficiency: 424.86 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1009850	
2	None	

Night:

Tower No.	ASRN	Overall Height (m)
1	1009850	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 265.54

Standard RMS (mV/m/km): Day: 279.01

Augmented RMS (mV/m/km):

Q Factor: Day:

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	201.0
2	0.4510	167.850	70.0000	347.000	0	90.0

* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2	-164.5	0.186

Antenna Monitor: Potomac Instruments 1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 Permittee/Licensee shall accept such interference as may be imposed by other existing 250 watt Class C stations in the event that they are subsequently authorized to increase power to 1000 watts.

Special operating conditions or restrictions:

- 2 Antenna system consists of two series-excited, vertical, radiators with a non-inductive limiting resistor inserted between the common point current ammeter and the DA coupling networks. Tower #1(S) is a tapered, self-supporting tower with an FM antenna mounted on top, and an auxiliary FM antenna with a remote pickup antenna is side-mounted at the 272 foot level, along with an amateur receiving antenna side-mounted at the 218 foot level. Tower #2(N) is uniform cross-section, guyed tower with an FM translator antenna (W296DY) mounted at the top of the tower. Ground System consists of 120 equally spaced, buried copper radials 56.1 m in length, except where limited to 21.34 m on the north property boundary, plus a 14.6 meter square copper ground screen about the base of each tower, or where intersecting radials are shortened and bonded to a 4" copper strap midway between towers.
- 3 DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:
67° - From intersection of John R. Road and E. Brickley, proceed east on E. Brickley to 701 E. Brickley, and point is located at intersection of sidewalk and drive, distance to transmitter is 1.61 km, and the maximum filed intensity is 100 mV/m.
347° - From intersection of Girard Avenue and N. Wilson Avenue, proceed south to 1906 N. Wilson Avenue, and point is located at junction of sidewalk and walk, distance to transmitter 4.12 km, and the maximum field intensity is 66.9 mV/m.

*** END OF AUTHORIZATION ***