



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

Ann Gallagher
Senior Engineer
Audio Division
Media Bureau

Grant Date: November 18, 2011

Facility Id: 25083

Call Sign: WRDT

This license expires 3:00 a.m.
local time, October 01, 2012.

License File Number: BMML-20110811ACK

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 with Secondary nighttime

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

| | | | | | |
|------|---------|---------|------|---------|---------|
| Jan. | 8:00 AM | 5:30 PM | Jul. | 5:15 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 | 6:00 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 |

Callsign: WRDT

License No.: BMML-20110811ACK

Name of Licensee: WMUZ RADIO, INC.

Station Location: MONROE, MI

Frequency (kHz): 560

Station Class: D

Antenna Coordinates:

Day

Latitude: N 41 Deg 53 Min 28 Sec

Longitude: W 83 Deg 25 Min 39 Sec

Night

Latitude: N 42 Deg 27 Min 13 Sec

Longitude: W 83 Deg 09 Min 50 Sec

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

Nominal Power (kW): Day: 0.5 Night: 0.013

Antenna Input Power (kW): Day: 0.54 Night: 0.021

Antenna Mode: Day: DA Night: ND

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

Current (amperes): Day: 3.3 Night: 0.33

Resistance (ohms): Day: 50 Night: 190

Non-Directional Antenna: Night

Radiator Height: 302.6 meters; 203.4 deg

Theoretical Efficiency: 394.75 mV/m/kw at 1km

Antenna Registration Number(s):

Day:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1000331 | |
| 2 | 1000332 | |
| 3 | 1000333 | |
| 4 | 1000334 | |

Night:

| Tower No. | ASRN | Overall Height (m) |
|-----------|---------|--------------------|
| 1 | 1001506 | |

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 199.56

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 209.88

Q Factor: Day: 10

Theoretical Parameters:

Day Directional Antenna:

| Tower No. | Field Ratio | Phasing (Deg.) | Spacing (Deg.) | Orientation (Deg.) | Tower Ref Switch * | Height (Deg.) |
|-----------|-------------|----------------|----------------|--------------------|--------------------|---------------|
| 1 | 1.0000 | 47.800 | 0.0000 | 0.000 | 0 | TL/S |
| 2 | 1.2000 | 47.800 | 202.0000 | 283.000 | 0 | TL/S |
| 3 | 1.2000 | -47.800 | 90.0000 | 13.000 | 1 | TL/S |
| 4 | 1.0000 | -47.800 | 202.0000 | 103.000 | 1 | 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 | 84.0 | 21.00 | .00 | .00 |
| 2 | 84.0 | 21.00 | .00 | .00 |
| 3 | 84.0 | 21.00 | .00 | .00 |
| 4 | 84.0 | 21.00 | .00 | .00 |

Augmentation Parameters:

| Aug No. | Central Azimuth (Deg. T) | Span (Deg.) | Radiation at Central Azimuth (mV/m @ 1 km) |
|---------|--------------------------|-------------|--|
| 1 | 77.0 | 18.0 | 48.28 |
| 2 | 77.0 | 10.0 | 49.08 |
| 3 | 133.0 | 20.0 | 23.34 |
| 4 | 163.0 | 20.0 | 22.53 |
| 5 | 173.0 | 20.0 | 16.90 |
| 6 | 183.0 | 20.0 | 23.34 |
| 7 | 204.0 | 18.0 | 21.73 |
| 8 | 213.0 | 18.0 | 16.90 |
| 9 | 224.0 | 18.0 | 24.14 |
| 10 | 252.0 | 18.0 | 23.34 |
| 11 | 310.0 | 10.0 | 48.28 |

Day Directional Operation:

| Twr. No. | Phase (Deg.) | Antenna Monitor Sample Current Ratio |
|----------|--------------|--------------------------------------|
| 1 | -1.5 | 1.024 |
| 2 | 0 | 1 |
| 3 | -88.6 | 1.115 |
| 4 | -89.6 | 0.918 |

Antenna Monitor: POTOMAC INSTRUMENTS 1901

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site 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.
- 2 The nighttime antenna input current is 1.67 amperes as measured with 5 turns through the toroidal current transformer at the night tower base.
- 3 Ground system description:

Daytime: 120 equally spaced, buried, copper radials about the base of each tower, each 134.11 meters in length except where terminated by property boundaries or where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus 120 interspersed radials 30.5 meter in length about the base of each tower.

Nighttime: ground system consists of elevated radials at least 4.6 meters above ground and no longer than 115.8 meters in length.
- 4 The transmitting antenna for W260CB was side mounted on the nighttime tower.

Day tower 1 and 3 each support a 72-inch parabolic dish antenna at the 121.9 meter level; day tower 2 supports a 120-inch parabolic dish at the 121.9 meter level.
- 5 The licensee shall perform the measurements described in Section 73.155 at least once within every 24 month period.

*** END OF AUTHORIZATION ***