

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION

File No.: BS-2011

Call Sign: W A J R

STANDARD BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, <sup>1</sup>the LICENSEE

WEST VIRGINIA RADIO CORPORATION

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcastin for the term ending 3 a.m. Local Time October 1, 1981

The licensee shall use and operate said apparatus only in accordance with the following terms:

- On a frequency of 1440 kHz.
- With nominal power of 500 watts nighttime and 5 kilo watts daytime,  
with antenna input power of 540 watts - directional  Common Point current 3.22 ampere  
antenna nighttime .....  Common Point resistance 52 ohm  
and antenna input power of 5.4 kilo watts - directional  Common Point current 10.2 ampere  
antenna daytime .....  Common Point resistance 52 ohm

- Hours of operation: Unlimited  
Average hours of sunrise and sunset:  
Jan. 7:45am to 5:15pm; Feb. 7:15am to 6:00pm;  
Mar. 6:30am to 6:30pm; Apr. 5:45am to 7:00pm;  
May 5:00am to 7:30pm; June 4:45am to 7:45pm;  
July 5:00am to 7:45pm; Aug. 5:30am to 7:15pm;  
Sep. 6:00am to 6:30pm; Oct. 6:30am to 5:45pm;  
Nov. 7:00am to 5:00pm; Dec. 7:30am to 5:00pm;  
Eastern Standard Time (non-advanced)

- With the station located at: Morgantown, West Virginia
- With the main studio located at: South side of Hwy. 7, approximately 1 mile east of center Morgantown, West Virginia

6. Remote control point: Main Studio

7. Transmitter location: North Latitude: 39 ° 40 ' 34 ''  
Osage-Bethel Road, Approximately 1 mi. West Longitude: 80 ° 00 ' 12 ''  
south of Bethel, West Virginia

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: 1, 3, 11 & 21.

9. Transmitter(s): Type accepted

10. Conditions:

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that if 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 public interest, convenience, or necessity to the full extent of the privilege 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 license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall 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.

<sup>1</sup>This license consists of this page and pages 2 & 3

dt Dated July 9, 1979

FEDERAL  
COMMUNICATIONS  
COMMISSION



File No.: BS-2011

Call Sign: WAJR

Date: 7-9-79

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- 2

No. and Type of Elements: Four (4) uniform cross-section, guyed, series excited vertical steel radiators. FM antenna side-mounted near the top of the #1 (NW) tower.

Height above Insulators: 200' (105.5°)

Overall Height: 204'

Spacing and Orientation: Towers #1(NW), #2(C) & #3(SE) are used for nighttime operation and are on a line bearing 134° true with a spacing of 170.8' (90°) between adjacent towers. Towers #2(C) and #4(S) used daytime and are spaced 246.6' (130°) on a line bearing 183° true.

Non-Directional Antenna: None used.

Ground System consists of 120 equally spaced buried copper radials 200' in length except where limited by property lines, plus 120-50' interspaced radials about the base of each tower. Also a 24'x 24' ground screen at the base of each tower. Intersecting radials bonded.

2. THEORETICAL SPECIFICATIONS

	Tower	#1(NW)	#2(C)	#3(SE)	#4(S)
Phasing:	Night	0°	+202.9°	+45.6°	-60°
	Day	-	0°	-	-
Field Ratio:	Night	1.0	1.31	1.0	-
	Day	-	1.0	-	0.8

3. OPERATING SPECIFICATIONS

Phase Indication\*:

Night	145°	0°	102°	-
Day	-	0°	-	146.6°

Antenna Base

Current Ratio:

Night	0.870	1.0	0.843	-
Day	-	1.0	-	0.738

Antenna Monitor

Sample Current Ratio:

Night	0.86	1.0	0.84	-
Day	-	1.0	-	0.738

\*As indicated by Potomac Instruments AM-19(204) antenna monitor.

Field intensity measuring equipment shall be available at all times and the field intensity at each of the monitoring points shall be measured at least once every thirty days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of  $3^{\circ}$  true North. From transmitter proceed north on Bethel Road 0.85 mile to point where Bethel Road makes sharp right turn and another dirt road intersects from left. Continue east on Bethel Road 0.37 mile to Bethel Church. Monitor point is in church yard 7 paces from west fence in line with front fence. The air distance is 0.98 mi. The field intensity measured at this point should not exceed 126 mv/m, Day.

Direction of  $25^{\circ}$  true North. From Monitor Point  $3^{\circ}$ , continue down Bethel Road 0.40 mile to east fence line of two farm houses. Monitor point is on left edge (north) of road by 5' wooden post painted "WAJR-FCC #2". The air distance is 0.78 mi. The field intensity measured at this point should not exceed 116.0 mv/m, Day.

Direction of  $206^{\circ}$  true North. From transmitter proceed South on Bethel Road to Route 92. Turn left (SE) on Route 92. Proceed 0.4 mile and turn right (South) at the I-79 entrance road. Continue past all entrance ramps to a total distance of 1.1 miles from the Route 92 turnoff. Monitor point 3 is on left edge of road, 100 feet beyond (South) of where culvert crosses under road on left side, and is marked "3". The air distance is 1.79 mile. The field intensity measured at this point should not exceed 14 mv/m Night.

Direction of  $314^{\circ}$  true North. From Monitor Point  $206^{\circ}$ , return to Route 92, turn left (west) and proceed 5.03 miles to 300' short of Junction with Route 19. Monitor point is on right edge (east) of Route 92, 30 feet past "Junction 19" sign and directly opposite 5' wooden post mounted on top of bank and painted "WAJR-FCC #4". The air distance is 3.70 miles. The field intensity measured at this point should not exceed 7.0 mv/m, Night.

Direction of  $349^{\circ}$  true North. From transmitter proceed north on Bethel Road 0.85 mile to point where Bethel Road makes sharp right turn and another dirt road intersects from left. Continue east on Bethel Road 0.15 mile. Monitor point is on right edge (south) of road by 5' wooden post painted "WAJR-FCC #5". The air distance is 0.98 mile. The field intensity measured at this point should not exceed 27.0 mv/m, Night.

During operation by remote control, remote indications of antenna base current for each tower, and common point current shall be read and entered in the operating log at least once each half-hour. The indications at the transmitter, of the common point current, base currents, phase monitor sample loop (remote base meter) currents and phase indications shall be read and entered in the operating log once each day for each pattern. These readings must be made within two hours after the commencement of operation with the directional antennae by remote control.