

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

File No. : BZ-900103AA
Call Sign : WMPS

LICENSEE: Von A. Harshman, Trustee

1. Community of License: Millington, TN
2. Transmitter location: 6960 Bucknell Road
Millington, TN
North latitude: 35° 18' 56"
West longitude: 89° 55' 23"
6. Antenna and ground system: Attached

3. Transmitter(s): Type Accepted. (See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)
4. Main Studio location: (See Section 73.1125)
6960 Bucknell Road
Millington, TN
5. Remote control location:
6960 Bucknell Road
Millington, TN

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: None required

8. Frequency: 1380 kHz

9. Nominal power (kW): 2.5 Day 1.0 Night

Antenna input power (kW):

2.7 Day

Non-directional antenna:

Directional antenna : current 7.35 amperes; resistance 50.0 ohms.

1.08 Night

Non-directional antenna:

Directional antenna : current 4.65 amperes; resistance 50.0 ohms.

10. Hours of operation: Specified in BP-821110AU

11. Conditions: —

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,¹ the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time August 1, 1996.

The Commission reserves the right during said license period of terminating this license or making effective any change, 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 the 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.

The license is issued on the licensee's representation that the statements contained in the 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, as amended. 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, as amended.

¹ This license consists of this page and pages 2, 3, & 4. KN:y1
Dated:

FEDERAL
COMMUNICATIONS
COMMISSION



JAN 19 1990

MMB-353-A

FILE NO. BZ-900103AA

CALL LETTERS WMPS

DATE:

1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Five(5) vertical, guyed, series-excited, steel radiators uniform cross-section. Day: RMS Theo: 445.79 mV/m at 1 km; RMS Std = 468.35 mV/m at 1 km. Night: RMS Theo. 302.4 mV/m at 1 km; RMS Std: 317.67 mV/m at 1 km.

Height above Insulators: All five towers: 54.3 m (90°).

Overall Height: All five towers: 54.9 m.

Spacing and Orientation: Nighttime operation: four towers form a parallelogram. Tower #1 is the reference tower. Tower #2 is spaced 185° on a line bearing 280° true. Tower #3 is spaced 166.3° on a line bearing 305.6° true. Tower #4 is spaced 80° on a line bearing 36° true. Daytime operation: Tower #4 & #5 are used. Tower #5 is spaced 126° from tower #4 on a line bearing 249° true.

Non-Directional Antenna: None used.

Ground System consists 120 - 54.9 m copper radials plus 120 - 15.2 m radials about the base of each tower. Radials are shortened and bonded to copper straps midway between elements.

2. **THEORETICAL SPECIFICATIONS**

Phasing:	Towers	SE(1)	SW(2)	NW(3)	NE(4)	SC(5)
	Night	0°	23°	148.4°	125.4°	--
	Day	--	--	--	0°	55°

Field Ratio:	Night	1.00	.88	.845	.96	--
	Day	--	--	--	1.00	.333

3. **OPERATING SPECIFICATIONS**

Phase Indication: *	Night	0°	26°	146°	120°	--
	Day	--	--	--	-55°	0°
Antenna Base	Night	1.00	0.833	0.867	0.933	--
Current Ratio:	Day	--	--	--	0.368	1.00
Phase Monitor	Night	1.00	0.880	0.850	0.950	--
Sample Current Ratio:	Day	--	--	--	0.390	1.00

* As indicated by Gorman-Redlick CM(239) antenna monitor.
Antenna sampling system approved under Section 73.68(b) of the Rules.

DESCRIPTION OF AND FIELD STRENGTH OF MONITORING POINTS:

Direction of 242° True North

From the South gate of the transmitter site, proceed South .1 mile on Bucknell Road to the curve, then .7 mile west on Crenshaw Road to U.S. Hwy. 51. Turn southwest on Hwy. 51 and proceed 1.1 miles to the Cascade Motel. Point is at the north entrance to the motel property. This is point number 11 of the survey and is 1.75 miles from the array. The field intensity measured at this point should not exceed 58.43 mV/m daytime.

Direction of 256° True North

From the South gate of the transmitter site, proceed south .1 mile on Bucknell Road to the curve, then .7 mile west on Crenshaw Road to U.S. Hwy. 51. Turn southwest on Hwy. 51 and proceed .35 mile to Sykes Road. Point is near southeast corner of Hwy. 51 and Sykes Road, across Hwy. 51 from Memorial Garden Cemetary and 50 feet northeast of a natural gas distribution installation. This is point number 7 of the survey and it is 1.1 miles from the array. The field intensity measured at this point should not exceed 111 mV/m daytime.

Direction of 83° True North

From the North gate of the transmitter site, proceed north on Bucknell Road .7 mile to Big Creek Church Road, then east 1.75 miles on Big Creek Church Road to Cold Springs Street. Point is at SE corner of Big Creek Church Road and Cold Springs Street. This is point number 111 of the survey and is 1.55 miles from the array. The field intensity measured at this point should not exceed 4.34 mV/m Nighttime.

Direction of 248° True North

From the North gate of the transmitter site, proceed north .7 mile to Big Creek Church Road, then west on Big Creek Church Road .1 mile to U.S. Hwy 51. Turn southwest on Hwy. 51 and travel 1.8 miles to Wortham Road. Turn west on Wortham Road and proceed .6 mile to Old Millington Road; turn south on Old Millington Road and proceed .4 mile to 6460 Old Millington Road. Point is at farm gate on west side of road. This is point number 14 of the survey and it is 2.3 miles from the array. The field intensity measured at this point should not exceed 13.8 mVm Nighttime.

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Direction of 312.5° True North

From the North gate of the transmitter site, proceed north .7 mile to Big Creek Church Road, then west on Big Creek Church Road .1 mile to U.S. Hwy. 51. Turn northeast on Hwy. 51; proceed 1.75 miles to Shelby Road. Turn west on Shelby Road and proceed 2.8 miles to Shake Rag Road; turn south on Shake Rag Road and go .8 mile. Point is at fire plug #3-5, across from mobil home. This is point number 21 of the survey and it is 2.45 miles from the array. The field intensity measured at this point should not exceed 5.78 mV/m Nighttime.

Direction of 349° True North

From the North gate of the transmitter site, proceed north .7 mile on Bucknell Road to Big Creek Church Road, then turn west on Big Creek Church Road and go .1 mile to U.S. Hwy. 51. Turn northeast on Hwy. 51; travel 1.75 miles north to Shelby Road. Turn west on Shelby Road and proceed 1.6 miles to Julie Cv. Point is at southwest corner of Shelby Road and Julie Cv. This is point number 16 and it is 2.4 miles from the array. The field intensity measured at this point should not exceed 4.0 mV/m Nighttime.