

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

File No. : BZ-940420AA
FAC ID 71660
Call Sign : WCHS

LICENSEE: West Virginia Radio Corporation of Charleston

1. Community of License . . . : Charleston, WV
2. Transmitter location : 7.5 mi. west of center
of Charleston, WV
North Latitude : 38° 21' 51"
West Longitude : 81° 46' 05"

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)
1111 Virginia Street South
East, Charleston, WV
5. Remote control location
1111 Virginia Street South
East, Charleston, WV

6. Antenna and ground system:
Attached

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: 1, 3, 12 & 21.

8. Frequency : 580 kHz

9. Nominal power (kW) : 5.0 Day 5.0 Night

Antenna input power (kW) :
5.0 Day Non-directional antenna : current 8.84 amperes: resistance 64 ohms.
 Directional antenna :
5.4 Night Non-directional antenna : current 10.4 amperes: resistance 50 ohms.
 Directional antenna :

10. Hours of operation : Unlimited Time. (See BR 715.)

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
October 1, 1995

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.
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 control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

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¹ This license consists of this page and pages 2 & 3

Dated: AUG 31 1994

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1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Four (4) uniform cross-section, guyed, series excited vertical radiators. A high frequency antenna is side-mounted near the top of the SC(#2) tower. An FM antenna is side mounted on tower #3. Theoretical RMS: 638.909 mV/m at 1 km. Augmented RMS: 674.962 mV/m at 1 km. Q = 38.939.(night)

Height above Insulators: 129.57 (90°)

Overall Height: 130.49 m

Spacing and Orientation: Spaced 129.57 m (90°) on a line bearing 119.25° true.

Non-Directional Antenna: SE(#1) used daytime.

Ground System consists of 130 #10 Bare copper radials equally spaced about the base of each tower buried 6-8 inches. An expanded copper mesh ground screen 48 x 49 feet is placed about the base of each tower. Overlapping radials are shortened and bonded to copper strap. All tower ground systems interconnected with copper strap.

2. **THEORETICAL SPECIFICATIONS**

Towers:	SE(#1)	SC(#2)	NC(#3)	NW(#4)
Phasing:	0°	153.918°	-43.909°	98.433°
Field Ratio:	1.00	1.398	1.205	0.486

3. **OPERATING SPECIFICATIONS**

Phase Indication*:	SE(#1)	SC(#2)	NC(#3)	NW(#4)
Night:	152.5°	0°	161°	80°
Antenna Base Current Ratio:				
Night:	0.635	1.0	0.788	0.413
Antenna Monitor Sample Current Ratio:				
Night:	0.87	1.0	0.95	0.86

* As indicated by Potomac Instruments AM-19 (204) Antenna Monitor.
 Antenna sampling system approved under Section 73.68 (b) of the Rules.

DESCRIPTION OF AND FIELD INTENSITY OF MONITORING POINT:

Direction of 58° True North. From transmitter, proceed east on U.S. 60 to the eastbound entrance of I-64 at Maccorkle Avenue. At the junction of I-64 - I-77, Proceed north on I-77 to the Eden's Fork exit. Turn left and go 2.2 miles to state route 21. Turn right and go .6 miles to Wesley Chapel. Monitor point is in pull-off area on east side of the road across from Wesley Chapel. Distance from antenna 6.25 miles. The field intensity measured at this point should not exceed 7.5 mV/m, Night.

Direction of 180° True North. From monitor point #1, return to I-77 south bound to I-64 west bound to Oakwood Road exit. Proceed south on U.S. 119 to Childress Road exit. Turn right, proceed 1.4 miles south on state route 214 to monitor point. Monitor point is near a cliff face on east side of road. Distance from antenna 4.84 miles. The field intensity measured at this point should not exceed 8 mV/m, Night.

Direction of 250° True North. From monitor point #2 proceed south on state route 214 approximately .9 mile to Greenview road. Turn right proceed approximately 3.5 miles to end of the road. Turn left .4 miles to Dry Ridge Road. Turn right on Dry Ridge Road go approximately 1.4 miles to Mt. Tabor Church. Monitoring point is on north side of road near southeast corner of Mt. Tabor Church. Distance from antenna 2.62 miles. The field intensity measured at this point should not exceed 17 mV/m, Night.

Direction of 300° True North. From point #3 continue north on Dry Ridge Road to Third Street. Turn right, go to U.S. 60. Turn right on U.S. 60 and proceed to Custer Street at Grace Baptist Church. Turn right, go one block to Harrison Avenue. Turn left go 1 1/2 Block to first Assembly of God. Monitor point is in center of Church Parking Lot. Distance from antenna 2.86 miles. The field intensity measured at this point should not exceed 48.7 mV/m, Night.

Distance of 352° True North. From point #4 proceed west on U.S. 60 to the St. Albans Bridge. Cross the bridge to state Route 25. Proceed east on State Route 25 to I-64 Westbound. Proceed on I-64 west to Cross Lanes exit. Turn right to the conjunction of State Route 62. Go south on state Route 62 approximately .8 miles to 5010 Washington Street west monitor point is in the driveway. Distance from antenna 3.8 miles. The field intensity measured at this point should not exceed 13.9 mV/m, Night.