

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
AM BROADCAST STATION LICENSE

File No. : BZ-950427AC
FAC ID : 25105
Call Sign : WWRG-WTEM

LICENSEE:

Greater Washington Radio, Inc.

1. Community of License. . . : Washington, D.C.
 2. Transmitter location. : 6000 Ager Road
Chillum Township, MD
 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)
8121 Georgia Avenue
Silver Spring, MD
 5. Remote control location
8121 Georgia Avenue
Silver Spring, MD
- North Latitude. : 38° 57' 43"
West Longitude : 76° 58' 24"
6. Antenna and ground system:
Attached

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

8. Frequency. : 980 KHz

9. Nominal power (kW). : 50 Day 5.0 Night

Antenna input power (kW):
52.6 Day ☐ Non-directional antenna: current 32.45 amperes: resistance 50 ohms.
☒ Directional antenna :
5.4 Night ☐ Non-directional antenna: current 10.4 amperes: resistance 50 ohms.
☒ Directional antenna :

10. Hours of operation : Unlimited.

11. Conditions. :

9-12-96: This supersedes authorization as of same date to show Directional operation at night, correct the nighttime antenna base current ratio for Tower No. 1 and to correct the type of Antenna Monitor used. DFL

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 806 of the Communications Act of 1934, as amended.

JAV:rao

FEDERAL
COMMUNICATIONS
COMMISSION



¹ This license consists of this page and pages 2, 3 and 4
Dated:

FCC Form 353-A
June 1980

File No.: BZ-950427AC

Call Sign: WWRC
WTEM

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Three (3), vertical, series-excited, steel radiators. Tower #1(S) is guyed with a capacity top; tower #2(NW) and #3(NE) are tapered, self-supporting & insulated. Theoretical RMS: 2168.99 mV/m/km, day; 667.88 mV/m/km, night. Standard RMS: 2297.54 mV/m/km, day; Augmented RMS: 707.64 mV/m/km, night. Q factor: 70.71, day; 21.59, night. A remote pick-up antenna is sidemounted on #2(NW) tower.

Height above Insulators:

#1(S) = 121.9 m (143.5° + 32.5° TL)
#2(NW) and #3(NE) = 76.2 m (89.7°)

Overall Height: #1(S) = 125.1 m; #2 and #3 = 79.2 m

Spacing and Orientation: with tower #1(S) as reference, tower #2(NW) is spaced 90° on a bearing of 336° T and tower #3(NE) is spaced 157° on a bearing of 49.6° T.

Non-Directional Antenna: None Authorized.

Ground System consists of 120 equally spaced, buried copper radials with an average length of 109.9 meters, bonded to copper buses where they overlap. In addition a 15.2 x 15.2 meter ground screen has been installed.

2. THEORETICAL SPECIFICATIONS

Towers: #1(S) #2(NW) #3(NE)

Phasing: Night: 0° 135° -115°
Day: 0° --- 39°

Field Ratio: Night: 1.0 1.85 0.482
Day: 1.0 --- 1.558

3. OPERATING SPECIFICATIONS

Phase Indication*:

Night: -135° 0° 110°
Day: -39° --- 0°

Antenna Base

Current Ratio:

Night: 0.313 1.000 0.132
Day: 0.246 --- 1.00

Antenna Monitor Sample

Current Ratio:

Night: 0.550 1.000 0.175
Day: 0.850 --- 1.00

* As indicated by Potomac Instruments 1901 Antenna Monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

File No: BZ-950427AC

Call Sign: WARC
WTM

DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 23.5° True North. At the end of the driveway of the WARC transmitter site, turn right on Ager Road. Proceed 0.6 mile to Hamilton Street. Take a left on Hamilton Street 0.1 mile to Queens Chapel Road. Take left on Queens Chapel Road 1.0 mile. Bear left across East-West highway onto Adelphi Road. Proceed 2.7 miles on Adelphi Road to Metzert Road. Take a right on Metzert Road and drive 0.55 mile to driveway on right. Turn into the driveway and stay to the left (where driveway splits). Follow driveway 0.35 mile to maintenance shed area. Point is located next to driveway 80 feet north of the large tree next to the office shed. The field intensity measured at this point should not exceed 156 mV/m, Daytime.

Direction of 75.5° True North. At the end of the driveway of the WARC transmitter site, turn right on Ager Road. Proceed 0.6 mile to Hamilton Street. Take a left on Hamilton Street 0.1 mile to Queens Chapel Road. Take left on Queens Chapel Road 1.0 mile. Bear left across East-West highway onto Adelphi Road. Proceed 2.7 miles on Adelphi Road to Metzert Road. Take a right on Metzert Road 1.2 miles to Route 193. Take a left onto Route 193 (this becomes Greenbelt Road) 2.7 miles to entrance of Greenbelt Park on the right. Turn right into Greenbelt Park and proceed 0.1 mile to a split. Turn right at the split and drive 1.4 miles to a gate. Proceed 880 feet past the gate. Point is located on the east side of the road (on the left as you enter) in line with a significant ground depression on the same side of the road. The field intensity measured at this point should not exceed 66 mV/m, Daytime.

Direction of 26° True North. Beginning at the transmitter site (located at 6000 Ager Road), turn right out of the driveway, heading South on Ager road. Make a U-turn and proceed North on Ager Road to 23rd Avenue. Make a Right onto 23rd Avenue and continue East on 23rd Avenue until it intersects University Boulevard. Turn right onto University Boulevard and proceed 2.8 miles. Using the right hand exit, proceed North on Route 1 for 1.1 miles. Turn left onto Cherry Hill Road and proceed .7 miles to the South Farm entrance to the Beltsville USDA Agricultural Research Center. Proceed 0.4 miles to a single lane bridge. Bearing left, drive an additional 0.3 miles on Orchard Loop to the monitor point, marked by a pole in cement on the right hand side of the road. This point is 3.85 miles from stations No. 1 tower. The field intensity measured at this point should not exceed 16.7 mV/m, Nighttime.

File No: BZ-950427AC

Call Sign: ~~HWRC~~
WTEM

DESCRIPTION OF AND FIELD INTENSITY MEASURED AT MONITORING POINTS:

Direction of 276° True North. Beginning at the transmitter site (located at 600 Ager Road), turn right out the driveway, heading South on Ager road. Make a U-turn and proceed North on Ager Road until it merges with Route 410 (East-West Highway). Proceed West on Rt. 410 for 3.8 miles until reach Rt. 384 (Colesville Road). Turn left on Colesville Road and proceed 0.3 miles to 16th Street. Turn left onto 16th Street and proceed South on 16th Street for 2.0 miles to the exit for Military Road West. Proceed 0.45 miles on Military Road to the exit for Beach Drive. At the end of the exit ramp for Beach Drive is a stop sign. Turn left at this stop sign and drive 0.1 miles to another stop sign. Turn left onto Beach Drive and drive 0.65 miles to the monitor point located in the center of Picnic Grove #7. This is 4.1 miles from stations No. 1 tower. The field intensity measured at this point should not exceed 39.5 mV/m, Nighttime.