





File No.: BR-4410  
BZ- 9755

Call Sign: WRCN

Date: 1-30-79

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- D

No. and Type of Elements: Two uniform cross section, guyed series excited steel towers. FM antenna side mounted near top of the South (#2) tower.

Height above Insulators: 157' (90°)

Overall Height: 160'

Spacing and Orientation: Spaced 104.66' (60°) between towers on a line bearing 305° true.

Non-Directional Antenna: None used.  
Ground System consists of 120-157' equally spaced buried copper radials at the base of each tower with intersecting radials bonded together midway between towers.

2. THEORETICAL SPECIFICATIONS

	<u>North (#1)</u>	<u>South (#2)</u>
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Phasing: 137.6° 0°

Field Ratio: 0.776 1.0

3. OPERATING SPECIFICATIONS

Phase Indication\*: 127° 0°

Antenna Base

Current Ratio\*: 0.92 1.00

Antenna Monitor

Sample Current Ratio: 0.94 1.00

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



Field 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 seven days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 260° true North. From transmitter site proceed west on Flanders Road to the traffic circle, then onto Woodhull Avenue and proceed 0.4 mile to lighting pole #9, located in front of 65 Woodhull Avenue. Monitoring point is about 20 feet east of the pole in the center of the street. The field intensity measured at this point should not exceed 8.0 mV/m.

Direction of 305° true North. From transmitter site proceed west on Flanders Road to the traffic circle, then north on Peconic Avenue to Main Street, then east to Roanoke Avenue. North on Roanoke Avenue then west on Lincoln Avenue to Hallett Avenue intersection. Monitoring point is on southwest corner of Lincoln and Hallett. The field intensity measured at this point should not exceed 11.0 mV/m.