

File NO. BZ-851223BB

Call Sign: WOKG

Date:

DA-

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two (2) vertical, guyed, series-excited, steel radiators of uniform cross section. Theo. RMS: 204.7 mV/m/km; aug. RMS: 218.14 mV/m/km; Q=6.

Height above Insulators: 56.4 m (106°)

Overall Height: SE(#1) 58.8 m; NW (#2) 57.3 m

Spacing and Orientation: Towers spaced 96.6 m (182°) on a line bearing of 295° True.

Non-Directional Antenna: None used

Ground System consists of 120 equally spaced, buried copper radials 47.8 m in length & a 7.3 m by 7.3 m ground screen about the base of each tower.

2. THEORETICAL SPECIFICATIONS

	Tower #1(SE)	Towers #2(NW)
Phasing:	0°	40.8°
Field Ratio:	1.0	0.58

3. OPERATING SPECIFICATIONS

Phase Indication*:	0°	36.5°
Antenna Base Current Ratio:	1.0	0.623
Antenna Monitor Sample Current Ratio:	1.0	0.925

* As indicated by Potomac Instruments AM-19 (204)

Antenna sampling system approved under Section 73.68(b) rules

DIRECTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 116° true North. From transmitter proceed 0.77 miles east on Lane West Road to Highland Avenue, turn south on Highland Avenue 0.20 miles to Burnette East, turn east on Burnette 0.71 miles to South Main Street Extension, turn south on South Main Street 0.70 miles to drive of C. A. Finney residence, turn east into drive 300 feet to point midway between two large trees. Distance from transmitter site is 1.88 miles. The field intensity measured at this point should not exceed 35 mv/m.

Direction of 256° true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west on Hewitt Gifford Road 0.59 miles to entrance of SS. Peter and Paul Cemetery, turn south into cemetery to point 100 feet beyond rear of circle drive at edge of cemetery. Distance from transmitter site is 1.09 miles. The field intensity measured at this point should not exceed 36.65 mV/m.

Direction of 296° true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west 0.69 miles to Palmyra Road, turn northeast 0.66 miles to pipeline right-of-way beside house at 3140 Palmyra Road, point is 50 feet west of road on pipeline right-of-way north of driveway. Distance from transmitter site is 1.05 miles. The field intensity measured at this point should not exceed 65 mv/m.

Direction of 336° true North. From transmitter proceed 0.10 miles west to old Route 45, turn southwest 0.45 miles to Hewitt Gifford Road, turn west 0.69 miles to Palmyra Road, turn northeast 1.39 miles to house at 2401 Palmyra Road, point is in front yard 25 feet southeast of road and even with north edge of house. Distance from transmitter site is 1.11 miles. The field intensity measured at this point should not exceed 29 mv/m.