



File NO.: BL-851017AB

Call Sign: KAPE

Date:

DA-D

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two guyed uniform cross-section towers and one tapered self-supporting tower. All elements are series-excited vertical steel radiators. All elements effectively employ 40' of toploading. Theo. RMS: 447.42 mV/m/km. Std. RMS: 470.02 mV/m/km.

Height above Insulators: 120' (65° + 25°t1)

Overall Height: 123'

Spacing and Orientation: From reference tower #1(C), tower #2(E) is spaced 90° on a bearing 82° T and tower #3(W) is spaced 90° on a bearing 262° T.

Non-Directional Antenna: None used

Ground system: Consists of 120-166' equally spaced, copper wire radials 30' x 30' ground screens at the base of each tower.

2. THEORETICAL SPECIFICATIONS

	Tower #1(C)	#2(E)	#3(W)
Phasing:	Day 0°	105°	-105°
Field Ratio	Day 1.005	0.500	0.500

3. OPERATING SPECIFICATIONS

Phase Indications*:	Day	0°	98°	-94°
Antenna Base	Day	1.00	0.554	0.500

Antenna Monitor Sample	Day	1.00	0.93	0.96
Current Ratio:	Day	1.00	0.93	0.96

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

ANTENNA SAMPLING SYSTEM APPROVED UNDER SECTION 73.68(b) OF THE RULES.

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 appropriate record kept of all measurements so made.

DESCRIPTION AND FIELD STRENGTH OF MONITORING POINTS:

Direction of  $48.5^\circ$  true North. From the transmitter proceed 1 block to Martin Luther King Avenue and turn right. Proceed 1 block to Upland Road and turn left. Proceed 1 mile to IH 10 and turn right. Proceed 3.45 mi. to Foster Road and turn left. Proceed 0.6 mi. to monitoring point which is on the east side of Foster Road adjacement to a small tree and an angle iron stake at the fence line. The field intensity measured at this point should not exceed 2.5 mV/m.

Direction of  $115.5^\circ$  true North. From the studio-transmitter building proceed 0.05 miles north on Hein to Martin Luther King and turn right. Proceed 0/05 miles to Upland Road and turn left. Proceed 1.05 miles to IH 10 service road and turn right. Proceed 1.6 miles to IH 410 West service road and turn right. Proceed 2.3 miles to US Highway 87. Make a U turn under IH 410 and proceed 0.3 miles on the east service road to point. The point is adjacement to a one way sign on the west side of the road opposite a metal gate which is located on the east side of the service road. The field intensity measured at this point should not exceed 1.3 mV/m.