



File NO.:

Call Sign:

Date:

**1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

DA-

**No. and Type of Elements:** Three (3) series excited, guyed, uniform cross section vertical radiators. Theoretical RMS: 124.09 mV/m night; Standard RMS: 130.2 mV/m

**Height above Insulators:** 212.9' (60°) for all three towers.

**Overall Height:** 218.9' for all three towers.

**Spacing and Orientation:** Towers form a triangle. Tower #1 is the reference tower. Tower #2(NE) on line bearing 16.09° T is spaced 102.7° apart. Tower #3(NW) on line bearing 293.78° T is spaced 167.84° apart.

**Non-Directional Antenna:** SW(#1) theoretical efficiency 175.5 mV/m/kW.

**Ground System consists of** 120-300' copper radials plus 120-50' copper radials about base of each tower. Radials are shortened and bonded to transverse copper straps between towers.

**2. THEORETICAL SPECIFICATIONS**

	TOWER	SW(#1)	NE(#2)	NW(#3)
Phasing:	Night	0°	99.5°	67.27°
Field Ratio:	Night	1.0	1.396	0.536

**3. OPERATING SPECIFICATIONS**

Phase Indication*:	Night	-100.5°	0°	-34°
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**Antenna Base**

Current Ratio:	Night	0.717	1.00	0.335
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**Antenna Monitor Sample**

Current Ratio:	Night	0.71	1.00	0.36
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\* As indicated by Potomac Instruments AM-19(204)

EXEMPTIONS AS LISTED IN SECTION 73.68(b) OF THE RULES WILL APPLY DURING PROPER OPERATION OF APPROVED SAMPLING SYSTEM.

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 OF AND FIELD STRENGTH OF MONITORING POINTS:

Direction of 27.5° True North. Leave transmitter site on Parkland Road for 0.21 mile and turn left (1st left) on Cormier and go for 0.42 mile to "T" at Gloria Switch. Turn right on Gloria Switch and proceed 1.81 miles to Junction of Route 167. Enter 167 to the right (north) and proceed 1.75 miles to Route 726 North turn-off. (726 North is east side service road along 167). Take 726 North for 0.95 mile (overpass ahead); turns right before overpass to the overpass road (do not go over the overpass) continue right on 726 (north). At 6.12 miles there is a "T", turn right and proceed on 726 for 0.78 mile to the point. The point is on the north side of the road, opposite an old building foundation in the field and the west edge of pipe in the ditch. The spot is further identified as being 75' west of the first pole east of a house located west of the point and on the south side of the road. (Pole #080). This is point #27 on Radial 27.5 degrees and the DA-N measured 1.3 mV/m. The point is located 5.19 miles from the transmitter site. The field intensity measured at this point should not exceed 1.5 mV/m.

Direction of 68° True North. Leave transmitter site on Parklane Road for 0.21 mile and turn left (1st left) on Cormier proceed for 0.42 mile to "T" at Gloria Switch. Turn right on Gloria Switch and proceed 1.81 miles to Junction of Route 167 to the right (north) and proceed 1.75 miles to Route 726 North turn-off. (726 North is East side service road along 167). Take 726 North for 0.95 mile (overpass ahead); 726 turns right before overpass to the overpass road, continue right on 726 (north), at 6.12 miles there is a "T", turn right proceeding 2.90 miles on 726 towards Route 31, passing Monitor Point #1 enroute. At Route 31 turn right (south) proceed 2.9 miles to a road to the right. (On the left on 31 is a long white fence) (you would have passed Route 354, 1.45 miles after leaving junction of Routes 726 and 31). Turn right (west) and proceed 1.70 miles to Monitor Point #2. (1.25 miles after turning on this road there is a sharp turn left then one right and later a curve left then right over a culvert past and old house on the right) the Point is located approximately 100' past house on north edge of the road. This is point #23 on Radial 68 degrees and the DA-N measured 0.31 mV/m. This point is located 5.93 miles from the transmitter. The field intensity measured at this point should not exceed 0.62 mV/m.

Direction of 309° True North. Leave the transmitter site on Parklane Road for 0.21 mile and turn left (1st left) on Cormier proceed for 0.42 mile to "T" at Gloria Switch. Turn right (west) on Gloria Switch and proceed to Junction of Route 167. Enter 167 to the right (north) and proceed 1.75 miles to Route 726 turn-off. (726 North is east side service road along 167). Take 726 North for 0.95 mile (overpass ahead); 726 turns right before overpass to the overpass road. At this junction turn left proceeding 0.35 mile over the overpass. The point is on the outside of the curve after leaving the overpass (west side) and is in line with the south edge of a coulee on the inside of the curve and the outside of the curve at the pavement edge. This is point #21 on Radial 309 degrees. The  $DA_N$  measured 13 mV/m. This point is located 3.77 miles from the transmitter site. The field intensity measured at this point should not exceed 14.2 mV/m.

BC-208

CP. FILE NO. BP-801017AD

FILE NO. BL-820405AH

June 1980

SPECS. FOR DIRECTIONAL OPERATION OF KJCB, Lafayette, Louisiana

FREQ: 770 kHz Nominal Power: 500 W, 1 kW-LS, DA-N, U

Antenna Input Power: 540 Watts night  
1000 watts Day

Date:

DA-N

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Antenna Monitor Sample

Current Ratio:	Night	0.71	1.00	0.36
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The field strength in mV/m measured at the described monitoring points is not to exceed the following values:

27.5° true	-	1.5 mV/m
68° true	-	0.62mV/m
309° true	-	14.2 mV/m