

CUSTOM ELECTRICAL DATA

ELECTRICAL CHARACTERISTICS:

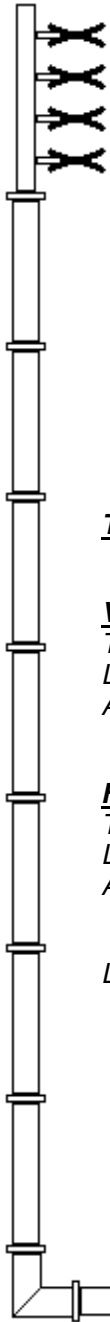
CHANNEL:		214
FREQUENCY:		90.7 MHz
POWER GAIN:	Cir Pol:	5.6000 (7.4819 dBd)
ELECTRICAL BEAM TILT:		CUSTOMER DEFINED
FIRST NULL FILL:		CUSTOMER DEFINED
SECOND NULL FILL:		CUSTOMER DEFINED
INPUT POWER REQUIRED:		17.857 kW Average Power
INPUT TYPE:		Contact ERI

Preliminary, subject to final design and review.

FM Broadcast Antenna System Power Analysis

Channel 214

Harris 10 Bay CP Omni



ERP: **Hor or Ver Pol:**
 kW: 100.00
 dBk: 20.00

POWER GAIN:
 Ratio: 5.60
 dBd: 7.48

TRANSMISSION LINE:

VERTICAL RUN:

Type: HJ8-50B
 Length, ft: 350 ft.
 Attenuation, dB/100 ft: 0.135 dB/100 ft.

HORIZONTAL RUN:

Type: HJ8-50B
 Length, ft: 0 ft.
 Attenuation, dB/100 ft: 0.135 dB/100 ft.

Line Efficiency: 89.71 %

ANTENNA INPUT:

kW: 17.86
 dBk: 12.52

LINE LOSS:

kW: 2.05
 dB: 0.47

Circulator Loss

kW: 0.00
 dB: 0.00

Filter Loss

kW: 0.00
 dB: 0.00

Isol Trans Loss

kW: 0.00
 dB: 0.00

Transmitter Power

kW: 19.91
 dBk: 12.99

Preliminary, subject to final design and review.