

SYSTEM POWER ANALYSIS

KYFE-LP

92.9 MHz.

City, State

TRANSMISSION SYSTEM:

VERTICAL RUN:

Type: RFS LCF114 1-1/4 in. Foam
Length: 150 feet
Attenuation: 0.2431 dB/100-feet
Loss this section: 0.365 dB

HORIZONTAL RUN:

Type: RFS LCF114 1-1/4 in. Foam
Length: 25 feet
Attenuation: 0.2431 dB/100 Feet
Loss this section: 0.061 dB

TOTAL TRANSMISSION SYSTEM:

Total Attenuation: 0.43 dB
Coax Efficiency: 90.67% %
Coax Power Rating: 13.67kW
*Coax Safety Factor: 21.85 dB *

OTHER LOSSES AND DERATING INFO:

Filter Loss: 1.00 dB
Connector Loss: 0.1 dB
Antenna Height AMSL: 0 Ft
Ambient Temperature: 68 °F
Derated for 1.3:1 VSWR 10.51 kW
Derated for Elevation 10.51 kW
Derated for Temperature 10.51 kW
Safety Amount (Derate-TPO) 10.42 kW **

STATION ERP:

kW: 0.038
dBk: -14.20

ANTENNA DETAIL

CP

Brand Nicom
Bays 1
Spacing 1

ANTENNA POWER GAIN:

Numeric: 0.470
dBd: -0.269

ANTENNA INPUT POWER:

kW: 0.081
dBk: -10.923

Total System Losses:

dBk: 1.525

TRANSMITTER POWER OUTPUT:

kW: 0.115
dBk: -9.398

Date: 27-Jan-2018