

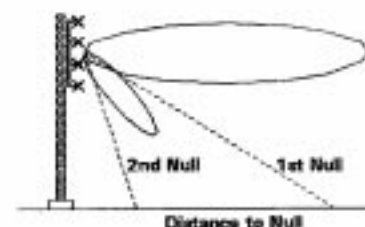
E-Slide RF System Calculations for EMF, Inc - KLVK 88.3 MHz - Coalinga, CA

Transmitter:

Transmitter Power Output (TPO)737 kW
 Recommended Transmitter is the Continental 814H, 1 kW Solid-State

Antenna:

Type of Antenna * 1-bay - End Fed - Full Wave
 Length of Antenna50 ft
 Effective Radiated Power (ERP) 1.4 kW
 Height of Top Bay (AGL) 85 ft
 Center of Radiation (AGL) 84.75 ft
 Antenna Power Gain (H & V) 2.26
 Antenna Field Gain (H & V) 1.5033
 Antenna Input Power619 kW
 Field Intensity (1kW @ 1 mile) 206.858 mV/m
 1st Null (no beam tilt) 90 Degrees 0 Miles



Null Fill, Beam Tilt, Pattern Studies, and Optimization are available. Null Fill and Beam Tilt will reduce power gain. Seek the advice of your consultant to help you determine if any of these are required.

Transmission Line:

Type of Line 1/2" Foam Cablewave #FLC12-50J
 Transmission line average power rating is 3.4 kW
 Total Length of Line 99.75 ft
 Length of Line on Tower 84.75 ft
 Distance to Transmitter 15 ft
 Line Loss at 88.3 MHz 0.6609 db/100 ft.
 Other Losses1 db
 Power Loss in System118 kW
 System Efficiency 83.961 %

Hangers:

Distance Between Hangers 3 ft
 Number of Hangers 29
 Number of Hanger Adapters 29
 Number of Hoist Grips 1

**Notice:**

Please confirm all data with your Technical Consultant. Suggestions provided only to aid you and your Consultant prepare appropriate FCC forms and plan for equipment needs.

Provided by Skip Bushell - Owner - Dayspring Communications

Tuesday, December 19, 2000 at 09:29pm