

# Educational Media Foundation

Exhibit B

1425 North Market Boulevard ♦ Sacramento California ♦ 95834

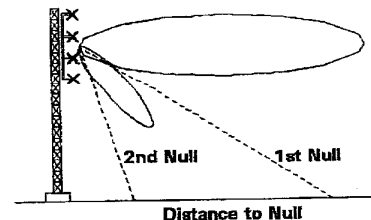
## E-Slide RF System Calculations for EMF, Inc - KHRI 90.7 MHz - Hollister, CA

### Transmitter:

Transmitter Power Output (TPO) ..... 298 kW  
Recommended Transmitter is the Continental 813A, 500 Watt Solid-State

### Antenna:

Type of Antenna ..... \* 1-bay - End Fed - Full Wave  
Length of Antenna ..... 50 ft  
Effective Radiated Power (ERP) ..... .1 kW  
Height of Top Bay (AGL) ..... 75 ft  
Center of Radiation (AGL) ..... 74.75 ft  
Antenna Power Gain (H & V) ..... .43  
Antenna Field Gain (H & V) ..... .6557  
Antenna Input Power ..... .233 kW  
Field Intensity (1kW @ 1 mile) ..... 90.230 mV/m  
1st Null (no beam tilt) ..... 90 Degrees 0 Miles



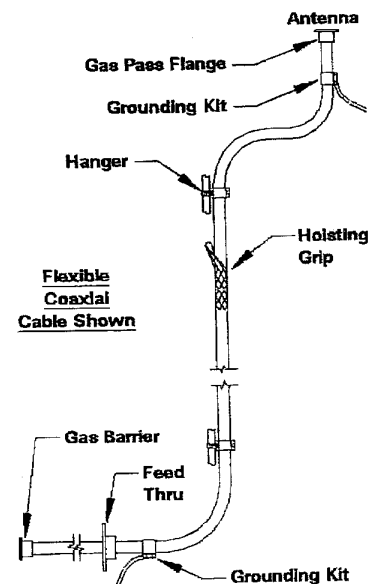
*Null Fill, Beam Tilt, Pattern Studies, and Optimization are available. Null Fill and Beam Tilt will reduce power gain. Seek the advice of your consultant to help you determine if any of these are required.*

### Transmission Line:

Type of Line ..... 1/2" Foam Cablewave #FLC12-50J  
Transmission line average power rating is 3.4 kW  
Total Length of Line ..... 144.75 ft  
Length of Line on Tower ..... 74.75 ft  
Distance to Transmitter ..... 70 ft  
Line Loss at 90.7 MHz ..... 0.6681 db/100 ft.  
Other Losses ..... .1 db  
Power Loss in System ..... .065 kW  
System Efficiency ..... 78.215 %

### Hangers:

Distance Between Hangers ..... 3 ft  
Number of Hangers ..... 25  
Number of Hanger Adapters ..... 25  
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 09:38pm