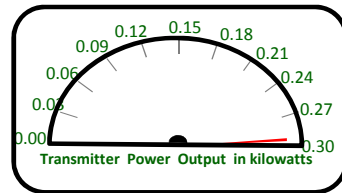
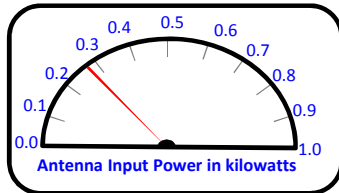


# TPO Calculation Summary

## Main Antenna Operation

**Call letters:** KRSF(FM)-STA  
**City of License:** Ridgecrest, CA  
**Frequency:** CH207B (89.3 MHz)  
**File No:** STA Pending  
**Facility ID:** 175757  
**Applicant:** Radio 74 Internationale



**Operating Effective Radiated Power (ERP):** 0.250 kW

**Antenna Make:** R.V.R.

**Antenna Model:** ACPO-2

**No of Elements:** Two (2)

**Antenna COR AGL:** 9.9 meters AGL

**Antenna COR AMSL:** 751.5 meters AMSL

**Max Input Power:** 1.0 kW

**Power Gain:** 0.99

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain:}$  -0.044 dB

**Calculated Antenna Input Power:** 0.253 kW

**Transmitter Make/Model:** T.B.D.

**Transmitter Rated Power:** 0.30 kW

### System Loss Info:

| Description                   | Component Make/Model                          | Length | Loss      |
|-------------------------------|---|--------|-----------|
| 1/2 Inch End Connector        | Generic (1 @0.02 dB each)                     |        | -0.020 dB |
| Main Antenna Feedline (Tower) | Andrew 1/2" LDF4-50A (Foam) (0.624 dB/100 ft) | 100 ft | -0.624 dB |
| 1/2 Inch End Connector        | Generic (1 @0.02 dB each)                     |        | -0.020 dB |

**TOTAL SYSTEM GAIN/LOSS:** -0.708 dB

$1 / [10^{(-0.708/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT:}$  0.294 kW