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W249BI TPO Calculation

Transmitter power output: **348 watts TPO**

Antenna Power Gain Multiplier = 0.994

Antenna efficiency = **99.4%**

Feedline = 307 feet of Andrew LDF7-50 1-5/8" foam line,

LDF7-50 Line Loss at 94.3 mhz = .2013 db/100ft

Total coax loss = 0.618db

Line efficiency = **84.7%**

Additional loss (Kintronic filter) = 0.59db

Additional loss efficiency = **85.45%**

$348 \text{ watts} \times 0.994 \times 0.847 \times 0.8545 = 250$

250 watts ERP

-Chris Hall

Owner/Operator Reel Audio Broadcast Engineering, Inc.