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WQTL TPO Calculation

WQTL TPO CALCULATION:

Transmitter power output : **225 watts TPO**

Antenna = Nicom BKG77-2, power gain = .99

Feedline = 560 feet of Cablewave LCF158-50A

Average Line Loss at 106.1 mhz = .2071 db/100ft

Average Line Efficiency = 76.7%

$225 \text{ watts} \times 0.767 = 172.6 \text{ watts}$

Antenna input power after coax loss = 172.6 watts

$172.6 \text{ watts} \times .99 \text{ (antenna gain multiplier)} = \mathbf{170 \text{ watts ERP}}$

-Chris Hall

Owner/Operator Reel Audio Broadcast Engineering, Inc.

A handwritten signature in black ink, appearing to read "Chris Hall", is written over a light gray rectangular background.