

K254DP - Pasco, WA

FacID# 202331 -- 98.7MHz

Effective Radiated Power = 250W

Form 350 - Exhibit #2

TPO Calculation

<u>System Component</u>	<u>Length (ft)</u>	<u>Loss/100'</u>	<u>Gain/Loss</u>	<u>Units</u>
Antenna Kathrein-Scala CA2-FM/CP			1	dB
Transmission Line Commscope AVA5-50	120	-0.352	-0.42	dB
Kintronics Bandpass Filter FMBP600W4C			-1.50	dB
Additional transmission system losses			-0.15	dB
Total system gain (loss)			-1.07	dB
Required TPO to achieve ERP	TPO = 250W/(antilog(-1.07/10))		<u>320</u>	<u>W</u>