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### TPO Worksheet

<b>Station</b>	W234CK		
<b>Location</b>	Casey, IL		
<b>Frequency</b>	94.7		
Antenna Make	PSI		
Antenna Model	FML-1		
Antenna Gain(Power)	0.46		
Antenna Gain(dB)		-3.37242	dB
Coax Make	Andrews		
Coax Model	LDF5-50A		
Coax Length (ft.)	144		feet
Loss/100'(dB) this frequency	0.3529		dB
Additional Loss (Isocoupler, connectors)	0.4		dB
dB Loss this length		0.908176	dB
Power Loss this Length		0.123259	kW
Line %efficiency		81.13017	%
ERP(kW)	0.25		kW
ERP (dBK)		-6.0206	dBK
Antenna Input Power Required		0.543478	kW
<b>TPO Required</b>		<b>0.669884</b>	<b>kW</b>
ERP(dBK)+Line loss(dB)-Antenna Gain(dBK)		-1.74	dBK
<b>TPO Required (Alternative Calculations)</b>			
Antenna Input Power/Line Eff *100		0.669884	kW
ERP/Antenna Gain/Line Eff*100		0.669884	kW
<b>CFR-47 73.212 rounded TPO Value</b>		<b>670</b>	<b>Watts</b>