

WXPR AUXILIARY STATION POWER CALCULATIONS

10 KW ERP

4 bay antenna

Dielectric HDR-H4

Antenna gain	2.1 power gain (PG)	3.2 dB	
Line loss/100 m	0.65		
Line length, loss (LL)	107 m	-0.7 dB	0.85
Circulator loss (CL)		-0.1 dB	0.98
TPO			05.7 KW

$5.7 \text{ kW} * 2.1 \text{ PG} * .85 \text{ LL} * .98 \text{ CL} = 9.97 \text{ kW}$ (rounds to 10 kW)