

Prediction of MPE limit at a given distance		
Equation from page 18 of OET Bulletin 65, Edition 97-01		
$S=PG/(4\pi R^2)$		
where:	S = power density	
	P = power input to the antenna	
	G = power gain of the antenna	
	R = distance to the center of radiation of the antenna	
Valid for frequencies from 100 to 300.000 MHz		
Output Power:	<u>44.00</u> (dBm)	
Output Power:	<u>25.1</u> (W)	
Antenna gain:	<u>6.00</u> (dBi)	
Antenna gain:	4.0 (numeric)	
Distance:	200 (cm)	
Frequency:	<u>157.425</u> (MHz)	
MPE limit-uncontrolled:	2.00 (W/m ²)	OET 65C page 26
MPE limit controlled:	10.00 (W/m ²)	OET 65C page 26
Uncontrolled Exposure:		
Power density:	1.99 (W/m ²)	
Maximum allowable antenna gain:	6.02 (dBi)	
Margin of Compliance:	0.02 (dB)	
Controlled Exposure:		
Power density:	1.99 (W/m ²)	
Maximum allowable antenna gain:	13.01 (dBi)	
Margin of Compliance:	7.01 (dB)	
The above calculations are based on measured output power into the artificial antenna		