



### Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	<u>29.36</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>863</u>	(mW)
Antenna gain(typical):	<u>3.5</u>	(dBi)
Maximum antenna gain:	<u>2.239</u>	(numeric)
Prediction distance:	<u>30</u>	(cm)
Source Based Time Average Duty Cycle:	<u>25</u>	(%)*
Prediction frequency:	<u>1900</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<u>0.0427</u>	(mW/cm <sup>2</sup> )
Margin of Compliance:	13.7	

\* Duty cycle is source based time average and is based on GSM station class 6