Nemko

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:	33,00	(dBm)
Maximum peak output power at antenna input terminal:	1995,262315	(mW)
Antenna gain(maximum):	14,9	(dBi)
Maximum antenna gain:	30,90295433	(numeric)
Time Averaging:	100	(%)
Prediction distance:	100	(cm)
Prediction frequency:	728	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0,485	(mW/cm^2)
Power density at prediction frequency:	0,490671	(mW/cm^2)
Margin of compliance:	0,0	(dB)
This equates to:	4,906707122	W/m^2

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:	33,00	(dBm)
Maximum peak output power at antenna input terminal:	1995,262315	(mW)
Antenna gain(maximum):	18	(dBi)
Maximum antenna gain:	63,09573445	(numeric)
Time Averaging:	100	(%)
Prediction distance:	100	(cm)
Prediction frequency:	2360	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1,000	(mW/cm^2)
Power density at prediction frequency:	1,001821	(mW/cm^2)
Margin of compliance:	0,0	(dB)
This equates to:	10,01821011	W/m^2