Prediction of MPE limit at a given distance:

Equation from page 18 of OET Bulleting 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 in the idrection 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:	18	dBm
Maximum peak output power at antenna input terminal (linear):	63.0957	
Max Antenna Gain:	27	dBi
Max antenna Gain (linear):	501.187	
Prediction distance:	200	cm
Prediction frequency:	5800	MHz
MPE limit for uncontrolled exposure at prediction freq:	1	mW/cm^2
Power density S at prediction frequency:	.06279	mW/cm^2
Maximum allowable antenna gain:	39.02	dBi

PRODUCT SPECIFICATION 710-9733 REV 1

PRODUCT: AD5800-27-D

ELECTRICAL SPECIFICATIONS:

Gain:	27 dBi each polarization
Polarization:	Linear
E-Plane Beamwidth:	>5 degrees
H-Plane Beamwidth:	>5 degrees
Bandwidth:	150 MHz (VSWR<2.0:1)
Center Frequency:	5.775 GHz
Front/Back Ratio:	>20 dB
Cross Polararization:	>20 dB

MECHANICAL SPECIFICATIONS:

Feed Package:	White ABS weatherproof with powdercoated steel back plate
Feed Connectors:	Two Reverse Polarity SMA female bulkhead
Dish Dimensions:	24.5” wide x 27” high x 18” deep without mounting bracket

Mounting Provisions:	Bracket included for mounting to 2 3/8” Diam. mast
Cable:	Two 36” RG142 with SMA-Reverse Polarity terminations on both ends

ENGINEERING:	**MARKETING:**
DATE:	**DATE:**