17. **MPE Calculations**

Base Station Transceiver MPE Calculation

		En	ter dat	ta only	<mark>in yell</mark> d	ow cells			
	Prediction of MPE limit at a given distance								
—	. (0 - (0	ET D. II.	. OF F	l'i' 07 0	4			
Equatio	n from page 1		E i Bullet	iin 65, E0	lition 97-0	1			
	$S = \frac{PG}{4\pi R}$	-							
	$S = \frac{1}{1 - D}$	$\frac{1}{2}$							
	$4\pi R$	-							
where:	S = power d	ensity							
WIIOIO.	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 an						10 011100	ор.о.а	
		10 1110							
Maximum peak output power at antenna input terminal:						20.00	(dBm)		
Maxim	Maximum peak output power at antenna input terminal:					100.000	(mW)		
		Antenna gain(typical):					(dBi)		
					enna gain:		(numeric)	
					distance:		(cm)		
MDE		Prediction frequency:					(MHz)	10)	
MPE limit fo	E limit for uncontrolled exposure at prediction frequency:					1	(mW/cm/	'2)	
	Pow	or don	eity at pr	odiction f	requency:	0.019894	(m\\\/cm/	131	
	Pow	ei deli	ιστιγ αι μι	c aicii0H I	requericy.	0.019694	(ITIVV/CITP	-2)	
	Maximum allowable antenna gain:					17.0	(dBi)		
					Janes Gann	77.0	(3.2.)		
	Margin of 0	Compli	iance at	20	cm =	17.0	dB		

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Prepared For: Eaton Corporation