

Memorandum**Information, Science, & Technology
Microwave Sensors**

L-Code: 290
Ext: 4-2904

TO: File

FROM: Rexford M. Morey

DATE: March 7, 2000

SUBJECT: Pulse Desensitization Factor for 5.8 GHz Rangefinder

Measurement was made at 1meter with calibrated antenna attached directly to the HP Amplifier.

Calculation for the emission at 5.830 GHz:

STEP		
1	Scope reading in dBuV	66.5 dBuV
2	HP amplifier gain	-30 dB
3	Distance correction (1 m to 3m)	-10.5 dB
4	Antenna correction	+35.5 dB
5	Cable correction	0.0 dB
6	Pulse desensitization	+46 dB
7	TOTAL	107.5 dBuV/m
8	FCC 15 limit	94 dBuV/m
9	Low duty cycle credit	+20dB
10	Total FCC 15 limit	114 dBuV/m
11	Margin	-6.5 dB

RMM

University of California



**Lawrence Livermore
National Laboratory**