Maximum Permissible Exposure (MPE) Requirement

Applicant: Controlled Entry Distributors, Inc. dBa Community Controls   Job Number / NEX # 289874
Model No.: RCOO900

This document was prepared in by Nemko-CCL on behalf of the applicant using data collected during testing and information provided by the applicant. The maximum power density requirements for the General Public (Uncontrolled Environtment) listed in FCC Part 1.1310 were used. The power density is calculated using the following equation.

$$P_d = \frac{P_t \, G^* \, \text{-}}{4\pi r^2}$$

P_d = power density in watts
P_t = transmit power in milliwatts
G = numeric antenna gain
r = distance between body and transmitter in centimeters
* $P_t \, G$ = EIRP

The calculated power density of the EUT listed in this application is calculated below. This calculation was made with the duty cycle set to 100% even though the actual duty cycle is lower.

The transmitter is installed where a minimum separation distance of 20 cm is maintained.

Compliance is met as shown below.

Max Transmit Power EIRP (mW):	1.90E+00		
Operating Frequency (MHz):	912.9		
Min Operating Distance (cm):	20	Duty Cycle (%):	100
Power Density (mW/cm^2):		3.78E-04	
Limit (mW/cm^2):		6.09E-01	
Delta:		-6.08E-01	