

RF Safety Exhibit

Revision: 01

Date: 05 Jan 2001

Equipment: WaveCom TR2126 MMDS/MDS Transceiver

FCC ID: OPPTR2126

For radio transmitters in the 2.150 to 2.162 GHz band, paragraph 1.1310 limits maximum permissible exposure (MPE) to 1 mW/cm^2 for uncontrolled environments.

The maximum safe distance from the antenna at which MPE is met or exceeded is calculated from the equation relating field strength in V/m, transmit power in Watts, transmit antenna gain, and separation distance in meters:

Basis of calculations:

Safe Distance_{meters} for 1 mW/cm^2 MPE = $(P_{\text{Watts}} \times \text{Antenna Gain}_{\text{dBi}} \times 30)^{0.5} / 61.4 \text{ V/m}$

Transceiver Power		Antenna Gain	Safe Distance
(Watts)	(dBm)	(dBi)	(meters)
1	30	12	0.3551
1	30	18	0.7086
1	30	21	1.0009
1	30	24	1.4138

The TR2126 was designed for mounting on a pole with a 1.5" diameter. Secure the TR2126 unit to a pole as shown in Figure 2.2A in the "INSTALLATION AND OPERATION GUIDE FOR SYSTEM OPERATORS", with the F-connector on the bottom.

The following statement will be included in the users manual and on a label that will be attached to the transverter:

"CAUTION: To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 1.5 meters is required between this antenna and all persons."