

EXHIBIT 6: RF Hazard Information Per Sec. 1.1307

(revised 5 June 2000)

For transmitters operating in the 2.150 - 2.162 GHz frequency range, paragraph 1.1310 limits maximum permissible exposure (MPE) to 1 mW/cm² for uncontrolled environments.

The maximum 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:

$$E, \text{V/m} = (\sqrt{30 \cdot P \cdot G})/d$$

$$\text{Power density, mW/m}^2 = E^2/3770$$

$$E \text{ for MPE } 1 \text{ mW/m}^2 = 61.4 \text{ V/m}$$

The TranSystem transmitter will be used with one of the following antennas, described in the user manual:

2.12 dBi short dipole antenna

12 dBi corner reflector

15 dBi "Backfire" parabolic antenna

18 dBi yagi

Calculated MPE distances from power into antenna:

Exposure, mW/cm²: 1.0

P, dBm	G, dBi	Safe Distance, cm
25.8	2.1	7.0
25.8	12.0	21.9
25.8	15.0	30.9
25.8	18.0	43.7

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$E, \text{ V/m} = (P_{\text{watts}} \cdot G_{\text{gain}} \cdot 30)^{.5}/d, \text{ meters}$$

$$d = ((P_{\text{watts}} \cdot G \cdot 30)/3770 \cdot S)^{.5}$$

$$P_{\text{watts}} \cdot G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}})/10}$$

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 44 cm is required between this antenna and all persons.

The label is placed on the side of the TSI unit on a silver label with 14 point black type.