MPE / Health Hazard

Requirement:

According to CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

MPE / Health Hazard Separation Distance:

The minimum separation distance calculated following FCC OET Bulletin 65 is calculated as follows, where S is power density,

The power density at 20 cm is computed to be:

Max Po/EIRP (dBm) = 0.0 dBm = 1 mW $S(mW/cm^2) = EIRP(mW)/(4 R(cm)^2) = 1/(4 20^2) = 0.0002 mW/cm^2$ Rmin (cm) = SQRT (EIRP(mW)/(4 Slim(mW/cm^2)) = SQRT(1/(4 1^2)) = 0.28 cm