

**NEW 260D, PRESCOTT, AZ****EXHIBIT 16 - RFR STUDY**

Formula (7) from Section II of OET 65:

$$S = (2.56) (EIRP) / (4) (\pi) (R)^2$$

where:

S = Highest power density (mW/cm<sup>2</sup>) at ground level

R = Distance from center antenna to ground in cm,

EIRP = 1.64 times ERP relative to dipole in mW,

Power is calculated at worst case conditions

MAX S = 1.0 mW/cm<sup>2</sup> for FM station between 88 and 108 MHz

ERP = (horizontal and vertical added times field factor<sup>2</sup>.)

Station: NEW 260D with antenna up 6 meters and ERP 0.01 kW,  
horizontal polarization only (yagi).

$$S = \frac{(2.56) (1.64) (1000) (10) (1.000)^2}{(4) (3.14) (600)^2}$$

S = 0.009 mW/cm<sup>2</sup>, 0.9 % of Controlled Exposure allowed.

S = 0.009 mW/cm<sup>2</sup>, 4.5 % of Uncontrolled Exposure allowed.