

EXHIBIT 17, Subpart 1

RADIATION HAZARD FORMULA

Prop
Franklin, WI

This proposal has been evaluated with respect to the RF radiation exposure guidelines contained in OET Bulletin 65.

For the FM band, the power density may be computed from the formula:

$$S = \frac{(33.4) (F) (F) (P)}{(R) (R)}$$

where: S = Power Density

P = Total power in watts (Horizontal + Vertical)

R = Height of center of radiation in meters above ground minus 2

F = Relative field factor in the downward direction of interest (-60 to -90 degrees elevation) as supplied by the antenna manufacturer.

The antenna model is: Worst case

In this case P = 500 and R = 125 and F = 1

FCC General Population/

Uncontrolled Exposure limits permit up to 0.2 mW/sq cm exposure

at this frequency. Therefore at ground level, S = 0.0010688

mW/sq cm, or 0.53% of the allowable.

It is evident that no practical hazard should exist.