

EXHIBIT 16, Subpart 1

RADIATION HAZARD FORMULA

W237BI

Weatherly, PA

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: Scala CA5-150H All Horizontal

In this case P = 250 and R = 5 and F = 0.235

FCC General Population/

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

at this frequency. Therefore at ground level, S = 0.01844515

mW/sq cm, or 9.22% of the allowable.

It is evident that no practical hazard should exist.