

Radiotechniques

402 Tenth Ave. • PO Box 367 • Haddon Heights, NJ 08035-0367

Exhibit 16

Non-Ionizing Radiation Analysis W200AA

September 2002

A study of the possible hazard from Non-Ionizing radiation was conducted for the site. The antenna for W220AA will be mounted on a pole on the flat roof of a multi-story building. There are no buildings of higher elevation in the immediate vicinity. W220AA is the only radiator on the roof.

To determine the potential exposure from a given antenna one must enter the EIRP and the distance from the antenna to the person exposed into the following equation:

$$S = 0.64 \frac{EIRP}{\pi R^2} = 1049.6 \frac{ERP}{\pi R^2}$$

The translator antenna will be mounted on a pole approximately 6 meters above the roof of the building with the center of radiation approximately 5 meters above the roof. The maximum ERP of the antenna is 0.17 kW, Vertically polarized only. Assuming a person is two meters tall, a part of the person could potentially come within three meters of the antenna.

$$S = 1049.6 * \frac{170Watts + 0Watts}{\pi * 300cm^2} = 0.63mW / cm^2$$

This value is less than the maximum limit for Occupational/Controlled maximum permissible exposure. The rooftop is accessible only by a door which will be locked and placarded and accessible only to authorized personnel. This is a "controlled environment" as contemplated in ANSI C95.1-1991. The area on the roof which could possibly produce exposures in excess of 0.2 mW/cm² will be marked on the roof.

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Since the maximum field intensity produced by this proposal in any public place is diminishingly small, then there is no possibility of causing NonIonizing Radiation in a public place that would exceed limitations or exacerbate an existing situation.

Protection of workers maintaining the antenna will be accomplished by turning off the transmitter whenever workers climb the pole or lower the antenna causing them to enter a potential hazard area. The lease document for the building will provide for a cooperative reduction of power or cessation of transmissions for any future radio users of the building to provide for protection of workers to exposure from radio frequency electromagnetic radiation.