

Radiotechniques

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Environmental Statement
WHLM, Bloomsburg, PA
Exhibit 17
Amended February 2002

- 1) WHLM will operate on 930 kHz with 1 kW, ND daytime using one tower.
- 2) Areas which have electromagnetic field intensities in excess of ANSI or FCC standards for general exposure will be protected by fences and marked by signs indicating the exposure potential. These areas may be established using the methods outlined in FCC bulletin OET-65.
- 3) Utilizing the data from OET-65 Supplement A Section 1 Tables 1 and 2 is an accepted method of determining the areas where the MPE is not exceeded. The instructions state that interpolation may be used between the graphs and for power.
- 4) Tower 1 is 0.186 Wavelength tall, and is toploaded, which will reduce the nearfield at the base. Not taking this into account, and using the table values, the predicted distance for compliance with the FCC limits for this tower is 1.9 meters.
- 5) At the base of each tower there will be a locked fence erected that will be at least 1.9 meters at its closest approach to tower 1. The fences will have posted signs alerting those that approach of the potential for excessive electromagnetic radiation exposure by entering the enclosed area.
- 6) Restrictions on the station power that may be employed while workers are climbing on towers using conventional work gloves were analyzed in the context of *Induced Body Currents and Hot AM Tower Climbing: Assessing Human Exposure to ANSI Radiofrequency Protection Guide*, 1991, Richard A. Tell. The tower is approximately .186 Wavelength with .056 Wavelength of toploading. This approximates .25 Wavelength in current distribution, which corresponds to 618 Watts for SAR=8W/kg at this frequency according to Table 8. Based upon this, the power will be limited to 500 Watts or less when climbing the tower in daytime mode, and there will no restrictions on tower climbing when operating in low power night mode, since the induced currents in this mode are far below the SAR limits.
- 7) There are no other radio stations in the vicinity of the proposed antenna location.