

EXHIBIT #16

R.F. EMISSION COMPLIANCE STATEMENT

Minnesota Public Radio
K297AH
Winona, Minnesota

May 2004

The proposed one-bay, circularly polarized antenna will be energized such that it produces 0.075 kW ERP in both the horizontal and vertical fields from a center of radiation of 122 meters above ground. Based on the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, the proposed facility is predicted to produce a worst-case maximum R.F. non-ionization radiation level at a position six feet above the tower base (head level - based on the C.O.R. of 122 meters above ground minus 2 meters) of 3.48 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). This figure is without regard for the antenna's vertical elevation field value toward the nadir, which will cause a reduction in the predicted "worst case" calculations. $3.48 \mu\text{W}/\text{cm}^2$ is 0.348 percent of the maximum standard value for the frequency in use for a controlled area and 1.74 percent of the maximum for an uncontrolled area. There is one other source of RF emissions on the tower. KHME transmits 5 kW ERP (directional) from a height of 137 meters above ground. Using the same "worst case" calculations, the contribution of KHME to the R.F. non-ionization radiation level at head height is $18.332 \mu\text{W}/\text{cm}^2$, 1.833 percent of maximum for controlled areas and 9.17 percent of the maximum for uncontrolled areas.

Since "worst case" calculations were used, and since it is well known that the actual RF power density level is considerably reduced at vertical angles toward the nadir the applicant is confident that there will be no exposure at the transmitter site greater than the maximum.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission. A sign will be posted warning workers of the antenna, with a phone number to contact someone to reduce or terminate power.

Consequently, it appears that the proposed FM station will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.