

**RF CERTIFICATION**  
**AND STATEMENT.**

The proposed W233AQ antenna will be energized such that it produces 0.05 kW Max ERP, vertical and horizontal polarization, from the center of radiation of 26 meters above ground. The applicant will employ a single bay antenna system. Based on the formulas expressed in OET bulletin No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" published by the Federal Communications Commission's Office of Engineering and applying a combination of the element and array pattern as defined in E.P.A study PB85-245868 (**"Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services"**). The highest calculated power density can be found at a distance of 8.09 meters from the tower. At this location the value is 2.934 microwatts per square centimeter. Since the tower is fenced with a locked gate (inaccessible to the public) this value amounts to 0.2934 percent of the maximum for a "controlled" environment. In an uncontrolled environment, this amounts to 1.467 percent of maximum. This proposal is in full compliance with all applicable FCC rules.

The proposed antenna system will be located on the same supporting structure as FM station WTNT-FM. This facility operates with a center of radiation of 242 meters AGL and an ERP of 100 kW utilizing a 10 bay circular polarized  $1.0\lambda$  antenna system. From this height and power the highest calculated power density, WTNT-FM contributes 2.933 percent, worst case, of the permissible OET 65 guidelines.

Combining the RF hazard of all both stations, the sum renders a total of 4.400 percent worst case (uncontrolled) hazard.

Should work be required on the supporting structure where exposure would be greater than the maximum allowed, the applicant would lower power or cease operation until the works is completed.

Clyde Scott, Jr.  
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