

RF CERTIFICATION AND STATEMENT

The proposed antenna system will be energized such that it produces 13.3 kW ERP, from the center of radiation of 159 meters above ground. The applicant will employ a 2 bay Shivley Labs 68102-2R-DIR directional 1.0λ 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 104.4 meters from the tower and two (2) meters above ground. At this location the value is 4.606 Microwatts per square centimeter. Since the tower site is fenced with a locked gate, (inaccessible to the public) this value amounts to 0.4606 percent of the maximum for a "controlled" environment. In an uncontrolled environment, a value of 1.142 percent of the maximum amount. This proposal is in full compliance with all applicable FCC rules. These calculations were performed using the V-Soft Communications RFHaz3 program.

The proposed antenna system will be co-located on the same supporting structure as FM stations WAHR, WYFD, and W251AC.

WAHR operates at 178 m AGL with an ERP of 100 Kw. The worst case exposure for WAHR is 7.370 percent of the maximum allowed.

WYFD operates at 113 m AGL with an ERP of 19.0 Kw. The worst case exposure for WAHR is 3.372 percent of the maximum allowed.

The combined worst case for all stations is 11.884 percent of the maximum allowed, therefore this proposal is in full compliance with the FCC rules regarding RF exposure to humans.

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 work is completed.

Regarding compliance with the nationwide programmatic agreement and NHPA Section 106 for tower co-location, the applicant has been informed by the FCC staff that compliance with the agreement is not required when: 1) the supporting structure was constructed prior to March 16, 2001; and 2) no new tower construction is proposed; and 3) the tower is not being substantially altered. Specifically, compliance is NOT necessary where an antenna and feed line are being attached to an existing structure. There is no change to the existing structure or antenna systems proposed with this action.

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Shively 6800 series-Typ 6 , 2 Bays, Spac= 1, H=13.3 kW, V=13.3 kW, 159 M AG

