

## **RF CERTIFICATION AND STATEMENT**

The proposed antenna system will be energized such that it produces 0.250 kW ERP, from the center of radiation of 115 meters above ground. The applicant will employ two (2) 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 87.2 meters from the tower. At this location the value is 0.20083 Microwatts per square centimeter. Since the tower site is fenced with a locked gate, (inaccessible to the public) this value amounts to 0.0201 percent of the maximum for a "controlled" environment. In an uncontrolled environment, this amounts to 0.1004 percent of maximum. This proposal is in full compliance with all applicable FCC rules. These calculations were performed using the V-Soft Communications RFHaz program.

The proposed antenna system will be co-located on the same supporting structure as AM station WKAV. WKAV is a non-directional facility that employs a shunt fed "folded-unipole" antenna system with a grounded tower base. The overall height of the supporting structure is 121 (121.7) meters AGL. The height of the folded wire system is estimated to extend no higher the 55 meters AGL. This height is far below the below 115 meters of the proposed antenna system. No change to the base impedance of the AM antenna system is expected with the proposed changes to the W231AD antenna system.

Pursuant to section 1.1307(b) of the Commissions rules, The power density contribution of co-located and nearby broadcast facilities are not required to be calculated as the proposed translator's density is less than five (5) percent of the guideline values.

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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