

**RF CERTIFICATION
AND
STATEMENT**

The proposed WFSU-FM antenna will be energized such that it produces 0.20 kW ERP, vertical only polarization, from the center of radiation 18 meters above the **building rooftop**. The applicant proposes to employ a 1 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 Electromagnet 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 4.45 meters from the rooftop tower. At this location the value is 19.65 microwatts per square centimeter. Since the site is locked, (inaccessible to the public) this value amounts to 1.965 percent of the maximum for a "controlled" environment. In an uncontrolled environment, this amounts to 9.825 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 located on the same supporting structure as FM station WVFS. This facility operates with a center of radiation of 12 meters above rooftop and an ERP of 2.7 kW utilizing a 4 bay vertical polarized antenna system. From this height and power the highest calculated power density, WVFS contributes 58.633 percent, worst case, of the permissible OET 65 guidelines.

Combining the RF hazard of all both stations, the sum renders a total of 68.485 percent worst case (uncontrolled) hazard.

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

The applicant will post a sign on the building rooftop to warn of possible RF hazards.

Clyde Scott
EME Communications