

Technical Statement

WQUE-FM, New Orleans, LA (FID 11915)

Radio Frequency Radiation Study and Statement

The facility was evaluated in terms of potential radio frequency radiation exposure at ground level and was found not to be eligible to use OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation" evaluation methodology. An alternative methodology has been used.

A recently completed "site survey" for WQUE-FM was conducted with the 4 FM radio facilities that used the Dielectric master antenna, as well as the 8 additional non-exempt radiators located on the support structure, operating at nominal power - found that the maximum RF Exposure level measured was 0.66% of the Occupational/Controlled Exposure limit outside of the facility fencing, and a maximum of 0.73% inside the facility fencing.

It is expected that the addition of WYLD-FM to the master antenna has not caused a change in these measured values that has resulted in non-compliance.

It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Engineering Exhibit

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RF Radiation Compliance

Although WQUE-FM is not eligible to use the “RF Exposure Worksheet”, the facility does comply with the FCC established guidelines regarding exposure to RF electromagnetic fields as described in OET Bulletin 65 Edition 97-01. The alternate method for showing compliance is described below.

Facilities:

WQUE-FM utilizes a 10-bay, Dielectric model TAV-10FMB Antenna in common with 3 other FM stations. The antenna is mounted on a 319 meter, guyed tower with a Center of Radiation of 300 meters above ground level. WTKL(FM), WEZB(FM) and WLMG(FM) also utilize the common antenna. All four FM stations operate with a maximum ERP (H & V) of 100 kW. This is also a common site with WHNO(TV), WHNO-DT, WPXL(TV), WPXL-DT, K59DG, K66FW WLPN-LP and WWNO(FM) which all utilize separate antennas mounted on the same tower. There are no other FM, AM or TV stations located within 1.0 kilometer of the WQUE-FM tower site.

General Population/Uncontrolled Exposure:

To determine the level of RF exposure, measurements were made on January 17, 2004 in all accessible areas at the transmitter site and surrounding areas. A Narda survey meter model 8718B with an A874-2D probe was utilized. The probe is calibrated in percent of limit for Controlled Exposure for frequencies ranging from 300KHz to 3.0 GHz. The “Max Hold” setting was used to record the highest levels measured. Measurements were made at 2 meters above the ground while walking the entire area at the site and in the adjacent areas out to a distance of 300 meters from the tower base. The maximum RF exposure level measured was 0.66 % of the Occupational/Controlled Exposure limit, which occurs at a distance of 100 meters from the tower base, and drops off as the distance from the tower is increased. This is below the 20% limit for General Population/Uncontrolled Exposure. Therefore, WQUE-FM does comply with OET Bulletin 65 Edition 97-01 with regard to General Population/Uncontrolled Exposure.

Occupational/Controlled Exposure:

Using the measurement methods described above, measurements were also taken inside the transmitter building and inside the fence that surrounds the tower. The maximum RF Exposure level measured inside the transmitter building was 1.24 % of the Occupational/Controlled Exposure Limit. The maximum RF Exposure level measured inside the fence and around the base of the tower was 0.73 % of the Exposure Limit. A security fence that is securely locked surrounds the WQUE-FM tower and RF Radiation warning signs are posted at appropriate intervals along the fence. WQUE-FM in coordination with other users of the site, reduces power or ceases operations as necessary to protect persons having access to the site, tower or antenna from RF Exposure in excess of FCC guidelines. Therefore, WQUE-FM also complies with OET Bulletin 65 Edition 97-01 with regard to Occupational/Controlled Exposure.



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