

Engineering Exhibit

WNOE-FM New Orleans, LA (FID#58394)

RF Radiation Compliance

Facilities:

WNOE-FM operates with an Effective Radiated Power (ERP) of 100 kW (H & V), utilizing a 12-bay, 0.75 wavelengths spaced Dielectric model DCRM-12BCC75P antenna. The Antenna is mounted on a 320 meter, guyed tower with a Center of Radiation of 304 meters above ground level.

Prediction Method:

The FCC's version of the FM computer model (version 2.1) as referenced in "Supplement A Edition 97-01 to OET Bulletin 65 Edition 97-01" was used to determine the RF power density at various distances from the tower used by WNOE-FM to a maximum distance of 1000 meters from the base of the tower. This distance was deemed sufficient since the power density decays to extremely small levels beyond this distance. Figure 1 shows the power density computed by the FM computer model for WNOE-FM. The maximum predicted RF power density of 0.14 $\mu\text{W}/\text{cm}^2$ occurs at a distance of 201 meters from the base of the tower.

Compliance:

The maximum predicted RF exposure level of 0.14 $\mu\text{W}/\text{cm}^2$ at a distance of 201 meters from the base of the tower is 0.70 % of the General Population/Uncontrolled Exposure limit of 0.2 mW/cm^2 . Therefore, WNOE-FM is categorically excluded from environmental processing for purposes of RF compliance, pursuant to Section 1.1307(b)(3)(ii), because the emissions from the WNOE-FM transmitter and antenna system result in a power density at ground level that is less than 5% of the applicable power density exposure limit for protection of workers and the general public. A security fence that is securely locked surrounds the WNOE-FM tower and RF Radiation warning signs are posted at appropriate intervals along the fence. WNOE-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.



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Figure 1

