

RF Statement for 2012 License Renewal
WYTE (FM) – Marshfield, WI
WGLX-FM – Wisconsin Rapids, WI
WHTQ (FM) - Whiting, WI

WYTE (FM), WGLX-FM and WHTQ (FM) are co-located at a transmitter site on Yellowstone Road north of Milladore, WI. This site was constructed following the last license renewal, indicating a material change in ground level RF density. Both individual and combined RF density is calculated.

WYTE (FM)

WYTE (FCC ID 24444) operates on FM Channel 293C1 (106.5 MHz) with effective radiated power (ERP) of 100 KW (H & V). WYTE utilizes a 10-bay ERI Rototiller-style FM antenna with approximately 1.0 wavelength inter-bay spacing, combined with WGLX-FM. The WYTE center of radiation (COR) is 230 meters AGL.

Using the modified OET Bulletin 65 and Supplement A calculations, with vertical pattern data supplied by the FM antenna's manufacturer, the peak power density of WYTE occurs 56 meters from the tower base, with 6.49 microwatts per square centimeter, or 0.65% of the recommended limit of 1000 microwatts per centimeter squared in the controlled environment, and 3.25% in the non controlled environment.

WGLX-FM

WGLX-FM (FCC ID 73054) operates on FM Channel 277 (103.3 MHz) with 65 KW ERP in both vertical and horizontal polarization. WGLX-FM utilizes a 10-bay ERI Rototiller-style FM antenna with approximately 1.0 wavelength inter-bay spacing, combined with WYTE. The WGLX-FM center of radiation (COR) is 230 meters AGL.

Using the modified OET Bulletin 65 and Supplement A calculations, with vertical pattern data supplied by the FM antenna's manufacturer, the peak power density of WGLX-FM occurs 56 meters from the tower base, with 4.22 microwatts per square centimeter, or 0.422% of the recommended limit of 1000 microwatts per centimeter squared in the controlled environment, and 2.11% in the non controlled environment.

WHTQ (FM)

WHTQ (FM) (FCC ID 60004) operates on FM Channel 244 (96.7 MHz) with 26.5 KW ERP in both vertical and horizontal polarization. WHTQ (FM) utilizes a 6-bay ERI Rototiller-style FM antenna with 1.0 wavelength inter-bay spacing. The WHTQ (FM) center of radiation (COR) is 193 meters AGL.

Using the modified OET Bulletin 65 and Supplement A calculations, with vertical pattern data supplied by the FM antenna's manufacturer, the peak power density of WHTQ (FM) occurs 61 meters from the tower base, with 3.245 microwatts per square centimeter, or 0.32% of the recommended limit of 1000 microwatts per centimeter squared in the controlled environment, and 1.62% in the non controlled environment.

The individual and combined RF density is well within ANSI recommended limits.