

## **Radiofrequency Electromagnetic Field Analysis And Compliance with Section 106**

Alpha Media Licensee, LLC seeks to modify the license of WXYX, Channel 261C2, Rincon, GA, Facility ID 54805, by upgrading its class to C1 and relocating its transmitting site to an existing tower at 32-09-28N ~ 80-59-28W (NAD 27). The tower Registration Number is 1252033.

The proposed antenna is a side mounted ERI model SHPX-10AC 10-bay full wave antenna with its center of radiation at 137.2 meters AGL. The station will operate with 75 kW ERP at 142 meters HAAT. According to Note 1, § 1.1306, the Commission has indicated that the use of existing transmitting locations is environmentally preferable. WXYX is relocating to an existing tower and is therefore exempt from a Section 106 SHPO/THPO review.

The proposed operation was evaluated for human exposure to RF energy using procedures outlined in the FCC's OET Bulletin 65. The maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 14.12  $\mu\text{W}/\text{cm}^2$ , which is 7.05 percent of the general population/uncontrolled maximum permitted exposure limit.

Radio station WLFS, 220C3, Port Wentworth, Georgia (Facility ID #85801) also operates from this tower. This station operates from an antenna with a center of radiation 99.1 meters above ground level with a Shively 6810-6-DA 6 bay full wave antenna at 23.5 kW. Using FM Model with a "Ring-and-Stub" antenna type, the predicted power density for WLFS is 96.45  $\mu\text{W}/\text{cm}^2$ , which is 48.23% of the uncontrolled limit.

Call Letters	Channel/Class	Polarity	Antenna AGL	ERP	% of Uncontrolled Limit
WLFS	220C3	H&V	99.1 Meters	23.5 kW	48.23
WXYX	261C1	H&V	137.2 Meters	75 kW	7.06

Total of ANSI "Uncontrolled" value 55.29%

The applicant will insure that signs are posted in the vicinity of the tower warning of potential radio frequency hazards at the site. The applicant will cooperate with other user(s) of the tower to reduce power or discontinue operation, as necessary, to limit human exposure to levels less than specified by the Federal Communications Commission when anyone is required to climb the tower for inspection or maintenance.