



## **ENVIRONMENTAL AND RADIO FREQUENCY SAFETY**

The licensee of WFLI-TV is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WFLI-TV antenna, and is committed to reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

The predicted emissions of WFLI-TV operating on channel 23 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WFLI-TV, which will operate on television Channel 23 (524-530 MHz), the MPE is 351.33 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an “uncontrolled” environment and 1756.67  $\mu\text{W}/\text{cm}^2$  in a “controlled” environment. The proposed WFLI-TV facility will operate with a maximum ERP of 550 kW from an elliptically polarized directional transmitting antenna with a centerline height of 57 meters above ground level (AGL). Considering a very conservative vertical plane relative field factor of 0.16, the WFLI-TV facility is predicted to produce a power density at two meters above ground level of 334.931  $\mu\text{W}/\text{cm}^2$ , which is 95.33% of the FCC guideline value for an “uncontrolled” environment, and 19.07% of the FCC’s guideline value for “controlled” environments. Only three full-power DTV stations are to be located on WTVC’s tower, however, there are two FM stations located on other towers that are within the relevant proximity of 315 meters. Access to the transmitting site is restricted to authorized personnel and is appropriately marked with RFR warning signs. A site protocol is in effect to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure.