

227 Central Avenue  
Metuchen, NJ 08840-1242  
(732) 494-6400 Phone  
(732) 494-6401 Fax

## **Merrill Weiss Group** LLC

---

*Consultants in Electronic Media Technology / Management*

### **Technical Statement for Construction Permit Minor Modification:**

**WPXI, LLC  
Station WPXI, Facility ID 73910  
Channel 23  
Pittsburgh, PA**

### **Modification of Construction Permit in File No. 0000025328**

#### ***Introduction***

This Technical Statement provides supplemental technical data and information associated with an application for a Minor Modification of the FCC Construction Permit (CP) for Minor Modification of a Licensed Facility associated with the Commission's Broadcast Television Spectrum Repack, in File Number 0000025328 granted on July 27, 2017 and expiring on August 2, 2019. The current application for modification of the WPXI facilities on Channel 23 in Pittsburgh, PA is for the purposes of changing the antenna manufacturer and model number and converting the station's antenna and radiated signal from Horizontal Polarization to Elliptical Polarization. The antenna will remain non-directional with no change in its ERP. Consequently, no pattern plots are needed. With the same pattern and power, there will be no change in the station's contribution to the interference environment, and no new interference analyses (which only consider the horizontally polarized component of any radiated signals) will be required. As a result, only the local effects around the transmitter site of the added power in the vertical plane need to be considered, as described below.

#### ***Environmental Impact/Radio Frequency Radiation***

The addition of power in the vertical plane to create an elliptically polarized signal will alter the calculation of predicted Radio Frequency Radiation (RFR) made and filed with the Commission in the initial WPXI repack CP application. Accordingly, the percentage of the Maximum Permissible Exposure (MPE) due to RFR has been recalculated using the sum of the horizontal plane and vertical plane power levels, and the results are reported in the file < Environmental Impact - Radio Frequency Radiation - WPXI Pittsburgh - 500kW 248.8mAGL 30% Vpol v3.pdf>, which has been uploaded to the LMS record for this application. It is the only supplemental documentation accompanying the current application.