

## **Transmitter Power Output (TPO) & Special Operation Conditions**

### **Transmitter Power Output:**

The ERI Model LPX-3E-HW 3 bay half wave antenna has a power gain of 1.012

The 106 ft. of Andrew HJ7-50A 1-5/8" Air Dielectric Coax has a loss of 0.2185 db.

The 88 inches of Andrew 1-5/8" Rigid Coax has a loss of 0.014 db.

The 1-5/8" gas pass EIA flange has an insertion loss of 0.05 db.

The 1-5/8" gas stop EIA flange has an insertion loss of 0.05 db.

The 1-5/8" field coupling has an insertion loss of 0.05 db.

The antenna end fed 1 5-8" EIA hard line flange has an insertion loss of 0.05 db.

The combined coax/connector losses are 0.4325 db for an overall line efficiency of 90.53 percent.

6,000 watts divided by 1.012 divided by 0.9053 = 6,549 watts TPO.

### **Special Operating Conditions:**

The permittee/licensee in coordination with other users of the site will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Warning signs which describe the radiofrequency electromagnetic field hazard have been posted on the roof and the access point to the roof. Access to the roof is highly restricted and cannot be accessed without prior authorization and coordination with the building owner. See the attached photos and narrative.

An ERI Model LPX-3E-HW 3 by half wave end fed antenna has been installed as specified in the construction permit.

The permittee/licensee acknowledges and accepts Section 73.215 contour protection as requested in the minor modification application.

## **Warning Signs**

Signs are posted in the transmitter area which is located on the top floor of the building immediately below the rooftop and adjacent to the stairs which are the only access the rooftop. Signs are posted on the rooftop in clear view upon reaching the rooftop from the stairway. Signs are also clearly posted on the tower itself.

## Signage in transmitter area



## Signage on wall in transmitter area



## Signage on wall in transmitter area



## View of transmitter and equipment rack with signs



# Door to lower rooftop area



## Signs at top of ladder to upper rooftop level



## Signage on tower

