

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 = 6,550 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.

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

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.

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

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

