

Special Operating Conditions and Transmitter Power Output

Special Operating Conditions:

The permittee/licensee in coordination with other users of the site agrees to 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 antenna is mounted on the co-located WPET(AM) and WEAL(AM). The antenna radiator is an insulated wire skirt mounted around the tower. The guy wires are insulated. The W278AM antenna is mounted above the top of the wire skirt radiator. The W278AM antenna installation will not affect the antenna impedance of WPET(AM) or WEAL(AM).

Transmitter Power Output:

The Nicom BKG77 2 bay 0.85 wave length antenna has a power gain of 0.9.

The 286 ft. of RFS Cellflex LCF78-50JFNA 7/8 inch foam coaxial cable and 10.6 ft. of RFS Cellflex LCF12-50JFN ½ inch foam Coax jumper have a combined loss of 1.075 dB.

The Shively Model BR(4)F-04 (3)F-04 combiner has an insertion loss of 1.19 dB. The total transmission line system loss is 2.265 dB for an overall line efficiency of 59.361 percent.

The permittee/licensee was unable to schedule a qualified engineer to complete the spurious harmonics report prior to filing the license ap. That report will be submitted as an amendment as soon as it is available.

$250 \text{ watts} \div 0.9 \div 0.59361 = 467.9 \text{ watts TPO.}$