

DETAILED DESCRIPTION OF ANTENNA INSTALLED AND CALCULATIONS ON TPO.

The engineering portion of the application (BPFT-20181102AAL) along with the granted CP was submitted to PSI Propagation Systems, Inc. to design and manufacture a directional antenna that would meet the FCC specifications.

The manufactured antenna was tested and optimized to specific tower in which it was to be mounted (ROHN55G), as it is declared by PSI in the Order Confirmation included as Exhibit A-2. The antenna was installed according to manufacturer's specifications including PSI determined azimuth to produce CP directional pattern.

The TPO calculated to produce the ERP specified in the CP is: 763 watts.

CALCULATIONS:

INSERTION LOSS OF ISOCOIL = 1.22 db

ANTENNA GAIN: -1.87 db

475 ft. of 7/8 Helix Cable employed with a loss of 0.37 db/100ft.

**Tpo: 763 watts (0.763 Kw) to produce an ERP of 0.25 kw.**

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