Exhibit #7, Output Power Calculation
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The TPO of 7.28 kW was calculated as follows:

93.3 meters of Andrew HJ8-50 3" Heliax was employed. According to the manufacturer, this line has 0.433 dB loss per 100 meters, giving a total line loss of 0.403 dB for a calculated efficiency of 91.1%.

Based on the manufacturer's specifications, the maximum power gain of the installed Collins 37CP 4-bay antenna is 2.05. Therefore, this antenna requires an input of 7.28 kW to produce 13.6 kW ERP. The transmitter output power is calculated below.

TPO = 13.6 kW [ERP] / (0.911 [Line efficiency] * 2.05 [Antenna gain]) =7.28 kW

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