

**Engineering Exhibit For
Herbert M. Hope
W266DT
Sauk Rapids, Minnesota
March 2020**

W262DT Transmitter Power Output Calculation

Frequency = 101.1 MHz

ERP = 250 watts

Antenna gain = 0.994

310 feet 7/8" foam Heliac = 0.7591

KTL Isolation Coil = 0.9091

KTL combiner = 0.8511 (-0.70 dB)

30 feet 1/2" foam Heliac = 0.9528

TPO = $250 / 0.994 / 0.7591 / 0.9091 / 0.8511 / 0.9528 = \underline{\underline{449 \text{ watts}}}$