

**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 Heliax = 0.7591

KTL Isolation Coil = 0.9091

KTL combiner = 0.8511 (-0.70 dB)

30 feet 1/2" foam Heliax = 0.9528

TPO =  $250 / 0.994 / 0.7591 / 0.9091 / 0.8511 / 0.9528 =$  **449 watts**