

**Engineering Exhibit For  
Covenant Network  
W275CI  
St. Charles, Missouri  
April 2020**

**W275CI Transmitter Power Output Calculation**

Frequency = 102.9 MHz

ERP = 250 watts

Antenna gain = 0.7224

555 feet 7/8" foam Heliac = 0.6080

6 feet 1/2" foam Heliac = 0.9840

TPO =  $250 / 0.7224 / 0.6080 / 0.9840 =$  **578 watts**

**Special Operating Condition Responses**

Construction permit BPFT-20180613AAG contains three special operating conditions, all of which are met and do not require specific responses.