

## Transmitter Power Output Calculation

### Translator W269EE

Channel 269D – 101.7 MHz

0.250 kW ERP (DA) – 410.1 m COR AMSL

Salisbury, North Carolina

January 2023

Given:

Effective Radiated Power: 0.250 kW

Antenna Gain (Multiplier): 0.796

Transmission Line Efficiency: 69.58%

Calculation:

0.250 kW Effective Radiated Power  $\div$  0.796 Antenna Gain = 0.31407 kW Antenna Input Power

0.31407 kW Antenna Input Power  $\div$  0.6958 Transmission Line Efficiency = 0.451 kW Transmitter Power Output\*

\* 0.451 kW rounds to 0.450 kW per §73.212(a)