

**Translator W292FQ  
106.3 mHz – 250 Watts – 348 M AMSL  
Douglas, GA  
January 2020**

**Transmitter Power Output Calculation**

<b>Given:</b>	
<b>ERP:</b>	<b>250 Watts</b>
<b>Antenna Gain</b>	
<b>SWR FM-1 4-bay</b>	<b>2.044 (multiplier)</b>
<b>Transmission Line loss</b>	
<b>870 feet of RFS LCF 158 50 JA</b>	<b>66.07%</b>
<b>Filter</b>	<b>75.86%</b>

250 Watts divided by the antenna gain of 2.044 = an antenna input of 122.309 Watts.

122.309 Watts divided by the transmission line efficiency of .6607 = 185.1206 Watts.

185.1206 Watts divided by the filter efficiency of .7586 = 244.02 Watts

244.02 Watts rounds to 245 Watts per Section 73.212 of the Commission's Rules.

**Bromo Communications, Inc.**