

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

**Transmitter Power Output Calculation**

**Given:**

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

**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.**

<b>Bromo Communications, Inc.</b>
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