

TPO Calculation Summary

Call letters: W237BW (formerly W236BK)
City of License: Forest Hills, MI
Frequency: CH237D – 95.3 MHz
CP File No.: BPFT-20100914AAM
Facility ID: 147568
Applicant: WYGR, LLC

Operating Effective Radiated Power (ERP): 0.25 kW

ANTENNA INFO

Antenna Make: Kathrein Scala
Antenna Model: HDCA-10
No of Elements: One (1)
Power Gain: 8.91
 $\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } 9.500 \text{ dB}$

FEEDLINE INFO

<u>Feedline Description</u>	<u>Feedline Make/Model</u>	<u>Length</u>	<u>Loss</u>
Antenna To Transmitter	Andrew LDF4-50A or equivalent	50 ft	-0.323 dB
			dB
			dB
			dB
			dB

ADDITIONAL SYSTEM LOSS(S)

<u>Component Description</u>	<u>Component Make/Model</u>	
Type N End Connectors	Generic (2@0.02 dB each)	-0.040 dB
		dB
		dB
		dB

TOTAL SYSTEM GAIN/LOSS: 9.137 dB
 $1 / [10^{(9.137 \text{ dB}/10)} / \text{ERP}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.030 \text{ kW}$