

Exhibit 7 - WUGN TPO Calculation

WUGN
Midland, MI
Family Life Broadcasting, Inc.
99.7 MHz

Antenna Make/Model: ERI SHPX-7AC No. of Elements: 7
Antenna COR AGL: 309 meters AGL
Power Gain: 3.8935

System losses:

Transition connector 4in	0.010 dB
flanged Elbow 90d Generic (4@0.01 dB each)	0.040 dB
Coax Switch Dielectric 3in 50000 series	0.100 dB

Total loss calculation	.150 dB
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Antenna Power Gain	3.8935
Antenna Field Gain:	1.9732
Ant. Fl @ 1 mi./1kW	271.512 mV/m
Antenna Input Power	25.684 kW
Line Attenuation / 100 ft.	.1141 dB
Power Loss In Coax	9.356 kW
TPO	35.040 kW

April 30, 2013