

Mike Johnson Broadcast Technology

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Transmitter Power Output Calculations

Call Sign:	KMUZ
Community:	Turner, OR
Date:	10/26/2011
Site description:	Wipper Hill
Frequency:	88.5MHz
Transmission line:	Andrew LDF5-50A
Length:	93ft
Loss:	0.317dB; 92.8% efficiency
Power dissipated in line:	3.48W
Other loss components	6' RG-213 jumper with N & BNC connectors
Loss due to above:	0.164dB; 96.4% efficiency
Power dissipated in jumper:	1.62W
Antenna:	Shively 6810-1-DA
Bays:	1
Antenna power gain:	0.740
System ERP:	32W
Transmitter Output:	48.3W