

FM System Loss Summary

Call Letters: W238CX
 Parent Call Letters: WFIN
 City of License: Findlay, Ohio
 Frequency: 95.5 MHz
 File No. BNPFT-20171201AGF
 Facility ID: 201116
 Applicant: Blanchard River Broadcasting Company, Inc.

Licensed ERP: 250 Watts
 Antenna Make: ERI
 Antenna Model: 100A-2F
 Number of Bays: 2 Bays
 Antenna COR AGL: 47.00 Meters 154.16 Feet
 Antenna COR AMSL: 291.00 Meters 954.48 Feet
 Max. Power Input: 2.00 kW
 Power Gain Factor: -0.9

Power Gain in dB: -0.4576 dB
 Transmitter Make and Model: Gates Air Flexiva FAX 300

$$TPO = 1/(10^{(-Loss/10)}/ERP)$$

System Loss:

Description	Medium	Component Make/Model	Loss - dB/100'	Length (ft)	Device Loss (dB)	Total Loss
Main coax	COAX*	Commscope/Andrew AVA5-50 7/8"	-0.3540	164		-0.580560
	COAX*					0.000000
	COAX*					0.000000
	COAX*					0.000000
Connector		Commscope A5DF-D 7/8" DIN female			-0.05	-0.050000
Connector		Commscope A5DM-D 7/8" DIN male			-0.05	-0.050000
Adapter		RF Industries P2RFD-1650-SS male-male DIN			-0.01	-0.010000
Adapter		RF Industries RFD1652-2 Female-Male 90°			-0.01	-0.010000
Adapter		RF Industries RFD1652-2 Female-Male 90°			-0.01	-0.010000
						0.000000

* These fields have formulas dedicated to calculate coax loss per foot.

Total Loss -1.168160 dB
 TPO (raw) 327.1568 Watts
 TPO 330 Watts