

Arthur Doak

From: James Price [sterling@catt.com]
Sent: Tuesday, April 05, 2011 12:31 PM
To: Arthur Doak
Subject: WNEE Patterson, GA TPO

Hi Mr. Doak,

As I looked over SWR's calculation for WNEE Patterson, GA I noticed they did not use the correct length of transmission line or counted in the connectors. I have provided you with my calculations for your review.

Transmitter Output:	2.8421 KW
connectors -.2 dB	-127.92 Watts
Transmission Line:	Andrew HJ7-50A, 1-5/8 Inch
Length Of Line:	325 Feet
Loss in dB/100 Ft. At 88.1 mHz:	0.197 dB
Line Efficiency At 88.1 mHz:	86.32%
Max. Average Power Rating of Line:	15.16 KW
Power Dissipated In Line:	371.36 Watts
Power At Input To Antenna:	2.3428 KW
Antenna Make/Model:	SWR FMI3/4
Number of Bays:	Four
Max. Antenna Input Power Rating:	6 KW
Antenna Power Gain:	2.561
System E. R. P.:	6 KW

If you have any further questions please feel free to contact me and i'll be happy to help.

Thank you,

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