TPO DETERMINATION

CALL SIGN	**W237EX**	**KGHS INTL FALLS MN**			
FREQUENCY	**95.30**				
ERP WATTS	250		**-6.02**	**dBk**	
LINE MAKE/MODEL	Celltech 7/8 Foam				
LINE LENGTH	160.0				
LINE LOSS (dB)/100	0.34				
LINE LOSS dB TOTAL		**0.54**			
CONNECTORS QTY	4				
CONNECTOR LOSS (dB)	0.05				
CONNECTOR LOSS dB TOTAL		**0.20**			
ISCOUPLER	PHASTEK	**0.20**			
FILTER LOSS (dB)					
OTHER LOSS (dB)					
OTHER LOSS (dB)	Superflex Cables	**0.20**			
TOTAL LOSS (dB)		**1.14**			
LOSS FACTOR		**0.77**			
Antenna Make/Model	SWR FM1/2				
ANTENNA GAIN dB	-0.182				
ANTENNA POWER GAIN		**0.96**			
ANTENNA INPUT PWR	261		**-5.84**	**dBk**	
TPO WATTS	**339**		**-4.70**	**dBk**	
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This TPO Determination was performed by James R. Offerdahl, Chief Engineer for Offerdahl Broadcast Service, Inc. Offerdahl Broadcast Service, Inc. is a contract engineering firm providing engineering services to R&J Broadcasting, Inc. licensee of W237EX.

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