

DIGITAL FLASH-CUT APPLICATION
LAWRENCE F. LOESCH
W28CJ LPTV STATION
CH 28 - 554-560 MHZ - 0.275 kW
MANTEO, NORTH CAROLINA
June 2012

EXHIBIT C

Digital Transmission System Calculations

Effective Radiated Power:	
Horizontal	0.275 kilowatt
Antenna:	RF Technologies Corporation
	Model - LP-1900-12-WB-17-28
Horizontal gain (maximum):	Power gain 20.4
Transmission Line:	Andrew Corporation - LDF5-50A
(235 feet)	7/8 foam dielectric foam
	60.2% efficiency
Antenna filter :	Insertion loss 0.22 dB
	95.060% efficiency ¹
Required Transmitter Power Output	
To Reach Effective Radiated Power:	0.0236 kilowatt (23.6 watts)

1) The actual loss will be determined at installation and may result in a slight change of transmitter power output to maintain effective radiated power.