

OUT-OF-CORE DISPLACEMENT APPLICATION
LAWRENCE F. LOESCH
W59EE LPTV STATION
CH 30Z - 566-572 MHZ - 0.115 KW (DA)
MANTEO, NORTH CAROLINA
August 2011

EXHIBIT C

Displacement LPTV Proposed Transmission System Calculations

Effective Radiated Power:	
Horizontal	0.115 kilowatt (peak)
Antenna:	Nicom Antenna Model BKU4-5
Horizontal gain (maximum):	Power gain 11.22 (10.5 dB)
Transmission Line:	Andrew Corporation LDF5-50A
(90 feet)	7/8 inch foam dielectric 82.1% efficiency
Transmitter filter:	Communications and Energy Corp. Insertion loss: 0.6 dB 87.096% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.0143 kilowatt (14.3 watts)