

OUT-OF-CORE DISPLACEMENT APPLICATION
LAWRENCE F. LOESCH
W56EC LPTV STATION
CH 24Z - 530-536 MHZ - 0.15 KW (DA)
MANTEO, NORTH CAROLINA
July 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 10.715 (10.3 dB)
Transmission Line: (90 feet)	Andrew Corporation LDF5-50A 7/8 inch foam dielectric 82.7% efficiency
Transmitter filter:	Communications and Energy Corp. Insertion loss: 0.6 dB 87.096% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.0148 kilowatt (14.8 watts)