

MODIFY BDCCDTL-20061023AHQ
THOMAS B. DANIELS
WJNI-LP LPTV STATION
CH 31 - 572-578 MHZ - 15.0 KW (DA)
NORTH CHARLESTON, SOUTH CAROLINA
May 2010

EXHIBIT C

WJNI-LP-D Transmission System Calculations

Effective Radiated Power: Horizontal	15.0 kilowatts (maximum)
Antenna:	Aldena - ATU Panel array Three around panel, five bays Model ATU-08-07-420
Horizontal gain (maximum):	Power gain 20.464 (13.11 dB)
Transmission Line: (290 feet)	Andrew Corporation HJ8-50 3 inch air dielectric 76.7% efficiency
Combiner insertion loss:	Manufacturer to be determined 0.350 dB insertion loss 92.257% efficiency
Additional system losses:	Jumpers, splitters, etc. 0.428 dB loss 90.615% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	1.143 kilowatts