

MODIFY BLH-20040317ACB
COMMONWEALTH BROADCASTING, LLC
WNRJ (FM) RADIO STATION
CH 291A - 106.1 MHZ - 2.6 KW
POQUSON, VIRGINIA
June 2007

EXHIBIT A

WNRJ Transmission System Calculations

Effective Radiated Power: Horizontal/Vertical	2.6 kilowatts
Antenna:	Shively Labs 6814-4-HW 4 bay half wavelength antenna
Horizontal gain:	1.31
Transmission Line: (471 feet)	Andrew Corp. HJ8-50B 3 inch air dielectric 85.4% efficiency
Transmission Line: (183 feet)	Cablewave HCC158-50 1 5/8 inch air dielectric 91.4% efficiency
AM Isocoupler:	Kintronics FMC-20 Insertion loss : 0.20 dB 95.499 % efficiency
Misc connectors & switches:	Insertion loss : 0.20 dB 95.499 % efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.788 kilowatts

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EXHIBIT A (Continued)

Facilities Authorized:	Channel 291A - 106.1 MHz
Effective Radiated Power:	2.6 kilowatts (H/V)
Geographic Coordinates:	North Latitude 37° 04' 24" West Longitude 76° 17' 33"
Antenna Center of Radiation:	Above Ground 151.0 meters Above MSL 153.0 meters HAAT 153.0 meters
Antenna Structure Registration #:	1035308