

APPLICATION FOR STATION LICENSE
POSITIVE ALTERNATIVE RADIO, INC.
WJYJ (FM) RADIO STATION
CH 213B - 90.5 MHZ - 26.0 KW
FREDERICKSBURG, VIRGINIA
March 2012

EXHIBIT A

WJYJ Transmission System Calculations

Effective Radiated Power:	26.0 kilowatts (horizontal/vertical)
Antenna:	Jampro Antennas, Inc. JMPC-5R 5 bay full wavelength spaced antenna
Horizontal gain	2.7 horizontal
Transmission Line: (435 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 82.1% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	11.7 kilowatts

Facilities Authorized:	Channel 213B - 90.5 MHZ
Effective Radiated Power:	26.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 37° 57' 56" West Longitude 77° 22' 19"
Antenna Center of Radiation:	Above Ground 131.0 meters Above MSL 175.0 meters HAAT 125.0 meters
Antenna Structure Registration #:	1057531