

APPLICATION FOR STATION LICENSE
COMMONWEALTH BROADCASTING, L.L.C.
WPYA (FM) RADIO STATION
CH 291A - 106.1 MHZ - 1.7 KW
POQUOSON, VIRGINIA
March 2004

EXHIBIT A

WPYA Transmission System Calculations

Effective Radiated Power:

Horizontal	1.7 kilowatts
Vertical	1.7 kilowatts

Antenna:

Shively Labs
6814-2-SS
2 bay half wavelength
0.7

Horizontal power gain

Transmission Line:
(661 feet)

Cablewave HCC 158-50
1 5/8 inch air dielectric
72.3% Efficiency

AM Isocoupler:

Kintronics FMC-7A
Insertion loss : 0.1836 dB
Efficiency: 95.86 %

Required Transmitter Power Output
To Reach Effective Radiated Power:

3.504 kilowatts

Facilities Authorized:

Channel 291A - 106.1 MHz

Effective Radiated Power:

1.7 kilowatts (H/V)

Geographic Coordinates:

North Latitude	37° 04' 24"
West Longitude	76° 17' 33"

Antenna Center of Radiation:

Above Ground	151.0 meters
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Above MSL	153.0 meters
HAAT	153.0 meters

Antenna Structure Registration #:	1035308
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