

APPLICATION FOR STATION LICENSE
WDAS LICENSE LIMITED PARTNERSHIP
WRDW-FM (AUX) RADIO STATION
CH 243B - 96.5 MHZ - 5.0 KW
PHILADELPHIA, PENNSYLVANIA
September 2005

EXHIBIT A

WRDW-FM Auxiliary Transmission System Calculations

Effective Radiated Power:

Horizontal	5.0 kilowatts
Vertical	5.0 kilowatts

Antenna:

	Electronics Research
	SHPX-4AC-SP
	4 bay full wavelength
Horizontal gain	2.134

Transmission Line:
(647 feet)

Cablewave
3 1/8 inch rigid
86.7% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

2.702 kilowatts

Facilities Authorized:

Channel 243B - 96.5 MHz

Effective Radiated Power:

5.0 kilowatt (H/V)

Geographic Coordinates:

North Latitude	40° 02' 19"
West Longitude	75° 14' 14"

Antenna Center of Radiation:

Above Ground	152.0 meters
Above MSL	228.0 meters
HAAT	164.0 meters

Antenna Structure Registration #:

1026755