

APPLICATION FOR STATION LICENSE
WXTU LICENSE LIMITED PARTNERSHIP
WXTU RADIO STATION - AUXILIARY FACILITY
CH 223B - 92.5 MHZ - 2.9 KW
PHILADELPHIA, PENNSYLVANIA
October 2007

EXHIBIT A

WXTU Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	2.9 kilowatts
Antenna:	Electronics Research, Inc. 1087-4CP 4 bay full wavelength spaced antenna
Horizontal gain	1.699
Analog to digital coupling loss:	Antenna cross coupling 0.0113 dB 99.74% Efficiency
Transmission Line:	Myat
(1,120 feet)	4 1/16 inch air dielectric rigid 0.7939 dB 83.293% Efficiency
Transmission Line:	Myat
(75.6 feet)	1 5/8 inch air dielectric rigid 0.1381 dB 96.87% Efficiency
Transmitter combiner:	ERI - Constant Impedance 970 Insertion loss : 0.809 dB 83.004% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	2.555 kilowatts ¹

1) The TPO calculated by ERI (2.546 kW) differs slightly from the TPO calculated herein. This difference is due to ERI using the 2.89 kW ERP in the Form 301 application for its calculations. However, the Commission rounded the ERP to 2.9 kW when it issued the WXTU CP and the calculations in this instant application are based on that power.

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EXHIBIT A (continued)

Facilities Authorized:	Channel 223B - 92.5 MHz
Effective Radiated Power:	2.9 kilowatts (H/V)
Geographic Coordinates:	North Latitude 40° 02' 30" West Longitude 75° 14' 11"
Antenna Center of Radiation:	Above Ground 314.0 meters Above MSL 403.0 meters HAAT 338.0 meters
Antenna Structure Registration #:	1231524