

APPLICATION FOR STATION LICENSE
GANNON UNIVERSITY
WERG (FM) RADIO STATION
CH 213A - 90.5 MHZ - 2.75 KW
ERIE, PENNSYLVANIA
August 2005

EXHIBIT A

WERG Transmission System Calculations

Effective Radiated Power:

Horizontal	2.75 kilowatts
Vertical	2.75 kilowatts

Antenna:	Electronics Research, Inc. LPX-2E Antenna 2 bay full wavelength
Horizontal gain	0.997

Transmission Line: (250 feet)	Andrew HJ7-50A 1 5/8 inch air dielectric 89.3% Efficiency
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Required Transmitter Power Output To Reach Effective Radiated Power:	3.09 kilowatts
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Facilities Authorized:	Channel 213A - 90.5 MHz
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Effective Radiated Power:	2.75 kilowatts (H/V)
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Geographic Coordinates:	North Latitude 42° 02' 34" West Longitude 80° 03' 57"
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Antenna Center of Radiation:	Above Ground 47.0 meters Above MSL 445.0 meters HAAT 114.0 meters
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Antenna Structure Registration #:	1001555
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