

**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

Required Transmitter Power Output  
To Reach Effective Radiated Power:

3.09 kilowatts

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Facilities Authorized:

Channel 213A - 90.5 MHz

Effective Radiated Power:

2.75 kilowatts (H/V)

Geographic Coordinates:

North Latitude	42° 02' 34"
West Longitude	80° 03' 57"

Antenna Center of Radiation:

Above Ground	47.0 meters
Above MSL	445.0 meters
HAAT	114.0 meters

Antenna Structure Registration #:

1001555