

**MODIFICATION OF LICENSE APPLICATION**  
**RE-LICENSE FORMER MAIN AS AUXILIARY**  
**WWGP BROADCASTING CORPORATION**  
**WFJA (FM) RADIO STATION**  
**CH 288A - 105.5 MHZ - 0.55 KW**  
**SANFORD, NORTH CAROLINA**  
**February 2009**

**EXHIBIT B**

**WFJA Transmission System Calculations**

Effective Radiated Power:	
Horizontal/Vertical	0.550 kilowatt
Antenna:	Jampro Antennas JLCP-3R Three bay full wavelength spaced antenna
Horizontal gain	1.5
Transmission Line:	Cablewave HCC 158-50
(576 feet)	1 5/8 inch air dielectric 75.4% efficiency
AM Isocoupler:	Insertion loss: 0.2 dB 95.499% efficiency
Transmission line accessories:	Miscellaneous elbows, rigid line & patch bay. Insertion loss: 0.1 dB 97.724% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.521 kilowatt (521 watts)

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**EXHIBIT B (continued)**

Facilities Authorized:	Channel 288A - 105.5 MHz
Effective Radiated Power:	0.550 kilowatt (H/V)
Geographic Coordinates: <sup>2</sup>	North Latitude 35° 26' 26" West Longitude 79° 18' 53"
Antenna Center of Radiation:	Above Ground 69.0 meters Above MSL 220.0 meters HAAT 115.0 meters
Antenna Structure Registration #:	1002870

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2) Based on corrected coordinates.