

**APPLICATION FOR STATION LICENSE**  
**CUMULUS LICENSING LLC**  
**WTYB RADIO STATION**  
**CH 280C2 - 103.9 MHZ - 50.0 KW**  
**BLUFFTON, SOUTH CAROLINA**  
**August 2011**

**EXHIBIT A**

**WTYB Transmission System Calculations**

Effective Radiated Power:	
Horizontal	50.0 kilowatts
Vertical	50.0 kilowatts
Antenna:	Dielectric Communications DCRM-6EFE83P 6 bay 0.83 wavelength spaced <sup>1</sup>
Horizontal gain	2.87
Transmission Line:	Dielectric FL-77
(320 feet)	3 1/8 inch air dielectric 91.3% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	19.082 kilowatts

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Facilities Authorized:	Channel 280C2 - 103.9 MHz
Effective Radiated Power:	50.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 32° 03' 33" West Longitude 81° 00' 57"
Antenna Center of Radiation:	Above Ground 103.0 meters Above MSL 106.0 meters HAAT 105.0 meters
Antenna Structure Registration #:	1052722

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1) See Exhibit B for a vertical elevation pattern of the WTYB antenna.