

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
WTYB (FM) RADIO STATION
CH 280C2 - 103.9 MHZ - 15.0 KW
TYBEE ISLAND, GEORGIA
October 2006

EXHIBIT A

WTYB Auxiliary Transmission System Calculations

Effective Radiated Power:	
Horizontal	15.0 kilowatts
Vertical	15.0 kilowatts
Antenna:	Dielectric Communications HDRH-4BR83
Horizontal gain	4 bay 0.83 wavelength spaced 1.92 ¹
Transmission Line:	Dielectric FL-55
(339 feet)	2 1/4 inch air dielectric 85.6% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	9.126 kilowatts

Facilities Authorized:	Channel 280C2 - 103.9 MHz
Effective Radiated Power:	15.0 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

1) See Exhibit B for vertical elevation pattern and tabulation of antenna system.