

APPLICATION FOR STATION LICENSE
GOLDEN ISLES BROADCASTING, LLC
WRJY FM RADIO STATION
CH 281A - 104.1 MHZ - 3.9 KW
BRUNSWICK, GEORGIA
October 2015

EXHIBIT A

WRJY Transmission System Calculations

Effective Radiated Power:	3.9 kilowatts (H/V)
Antenna:	Shively - 6017-3 3 bay full wavelength antenna
Power gain:	1.584 (Horizontal & Vertical)
Transmission Line: (400 feet)	Cablewave HCC 300-50J 3 inch air dielectric 88.48% efficiency
Combiner:	Shively 32734 2530-3A-06-04-16 3 Station Branched Combiner 0.7266 dB Loss 84.606% efficiency
RF Switch:	Myat 0.1 dB Loss 97.724% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	3.36 kilowatts

Corrected Facility:	Channel 281A - 93.7 MHz
Effective Radiated Power:	3.9 kilowatts (H/V)
Geographic Coordinates:	North Latitude 34° 26' 21" West Longitude 79° 29' 43"
Antenna Center of Radiation:	Above Ground 122.0 meters Above MSL 127.0 meters HAAT 125.0 meters
Antenna Structure Registration:	1002863