

APPLICATION FOR STATION LICENSE
DOUBLE O SOUTH CAROLINA CORPORATION
WWNU RADIO STATION
AUXILIARY ANTENNA SYSTEM
CH 221C3 - 92.1 MHZ - 1.2 KW
IRMO, SOUTH CAROLINA
May 2009

EXHIBIT A

WWNU Auxiliary Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	1.20 kilowatts
Antenna:	Dielectric Communications - DCRH-2-HW
	2 bay half wavelength spaced antenna
Horizontal gain	0.7
Transmission Line:	Cablewave HCC158-50
(117 feet)	1 5/8 inch air
	94.8% Efficiency
Required Transmitter Power Output	
To Reach Effective Radiated Power:	1.808 kilowatts

Facilities Authorized:	Channel 221C3 - 92.1 MHz
Effective Radiated Power:	1.20 kilowatts (H/V)
Geographic Coordinates:	North Latitude 34° 00' 04"
	West Longitude 81° 02' 05"
Antenna Center of Radiation:	Above Ground 115.0 meters
	Above MSL 247.0 meters
	HAAT 133.0 meters
Antenna Structure Registration #:	1244488