

AMEND BXLED-20100610ABW
NEW AUXILIARY ANTENNA SYSTEM
THE UNIVERSITY OF SOUTH CAROLINA
WUSC-FM RADIO STATION
CH 213A - 90.5 MHZ - 0.24 KW
COLUMBIA, SOUTH CAROLINA
June 2010

EXHIBIT A

WUSC-FM Auxiliary Transmission System Calculations

Effective Radiated Power:

0.24 kilowatt (H/V)

Antenna:

ERI 100A-2HW

2 bay half wavelength spaced

Horizontal gain

0.632

Transmission Line:
(308 feet)

Andrew Corporation LDF4-50A
½ inch foam
63.1% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

0.602 kilowatt (602 watts)

Facilities Authorized:

Channel 213A - 90.5 MHz

Effective Radiated Power:

0.24 kilowatt (H/V)

Geographic Coordinates:

North Latitude 33° 59' 47"

West Longitude 81° 01' 39"

Antenna Center of Radiation:

Above Ground 26.0 meters

Above MSL 121.0 meters

HAAT 52.0 meters

Antenna Structure Registration #:

1273982