

APPLICATION FOR STATION LICENSE
APEX BROADCASTING, INC.
WCSQ RADIO STATION
CH 223C1 - 92.5 MHZ - 100.0 KW
MONCKS CORNER, SOUTH CAROLINA

EXHIBIT A

WCSQ Transmission System Calculations

Effective Radiated Power:

Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts

Antennas:

Electronics Research, Inc. SHPX-10AC6
10 bay full wavelength
5.473¹

Horizontal gain

Transmission Line:
(826 feet)

Dielectric Communications EHT
4 1/8" rigid air dielectric
87.2% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

20.95 kilowatts

Facilities Authorized:

Channel 223C1 - 92.5 MHz

Effective Radiated Power:

100.0 kilowatts (H/V)

Geographic Coordinates:

North Latitude	32° 49' 04"
West Longitude	79° 50' 08"

Antenna Center of Radiation:

Above Ground	235.0 meters
Above MSL	239.0 meters
HAAT	237.0 meters

FCC Tower Registration Number

1024868

1) The WCSQ antenna is designed for multi-frequency operation. As such, the power gain on the antenna for 92.5 MHz is 5.473 as detailed on Exhibit A1.