

APPLICATION FOR STATION LICENSE
NM LICENSING LLC
WAVF RADIO STATION
CH 269C1 - 101.7 MHZ - 100.0 KW
HANAHAN, SOUTH CAROLINA
September 2008

EXHIBIT A

WAVF Transmission System Calculations

Effective Radiated Power: Horizontal/Vertical	100.0 kilowatts
Antenna:	Electronics Research, Inc. SHPX-10AC6-SP 10 bay full wavelength spaced
Horizontal gain	4.882 ¹
Transmission Line: (835 feet)	Dielectric EHT 4 1/16 inch air dielectric rigid 0.556 db 87.983% Efficiency
Transmitter combiner:	ERI - Branch Combiner - 973-3 Insertion loss : 0.1582 db 96.423% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	24.14 kilowatts

Facilities Authorized:	Channel 269C1 - 101.7 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 238.0 meters
Antenna Structure Registration #:	1024868

1) The gain is slightly different that of a standard ten bay, due to the fact that the antenna is being shared by other stations and the gain value differs from frequency to frequency. A vertical elevation pattern of the antenna is included within Exhibit B (page 15).