

**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 <sup>1</sup>
Transmission Line:	Dielectric EHT
(835 feet)	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

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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

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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).