

**APPLICATION FOR STATION LICENSE**  
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**W56EC LPTV TELEVISION STATION**  
**CH 56Z - 11.5 KW**  
**MANTEO, NORTH CAROLINA**  
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**EXHIBIT A**

**W56EC Transmission System Calculations**

Effective Radiated Power:	
Horizontal	11.5 kilowatts (main beam)
Antenna:	RF Technologies Corporation
	LP-1900-12-WB-56
Horizontal Gain	20.4
Transmission Line:	Andrew LDF5-50A
(235 feet)	7/8 inch foam dielectric
	55.5% Efficiency
Required Transmitter Power Output	
To Reach Effective Radiated Power:	1.015 kilowatts

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Facilities Authorized:	Channel 56Z (722-728 MHz)
Effective Radiated Power:	11.5 kilowatts (H)
Geographic Coordinates:	North Latitude   35° 51' 52"
	West Longitude   75° 39' 01"
Antenna Center of Radiation:	Above Ground   70.0 meters
	Above MSL       71.0 meters
Antenna Structure Registration #:	1203259