

**APPLICATION FOR STATION LICENSE**  
**SOUTHERN COMMUNICATIONS CORPORATION**  
**W266AZ FM TRANSLATOR STATION**  
**CH 266D - 101.1 MHZ - 0.250 KW**  
**BECKLEY, WEST VIRGINIA**  
**June 2010**

**EXHIBIT A**

**W266AZ Transmission System Calculations**

Effective Radiated Power: 0.250 kilowatt (horizontal/vertical)

Antenna: Nicom BKG88-1  
1 bay full wave spaced antenna  
Power Gain 0.47

Transmission Line: Andrew Corporation LDF5-50A  
(225 feet) 7/8 inch foam dielectric  
82.5% Efficiency

Required Transmitter Power Output  
To Reach Effective Radiated Power: 0.6447 kilowatt (644.7 watts)

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Facilities Authorized: Channel 266D - 101.1 MHz

Effective Radiated Power: 0.250 kilowatt (H/V)

Geographic Coordinates: North Latitude 37° 43' 26"  
West Longitude 81° 11' 08"

Antenna Center of Radiation: Above Ground 59.0 meters  
Above MSL 865.0 meters

Antenna Structure Registration #: N/A