

**APPLICATION FOR STATION LICENSE**  
**CAPSTAR TX LIMITED PARTNERSHIP**  
**W266BC FM TRANSLATOR STATION**  
**CH 266D - 101.1 MHZ - 0.250 KW**  
**TUPELO, MISSISSIPPI**  
**September 2007**

**EXHIBIT A**

**W266BC Transmission System Calculations**

|   |   |
|---|---|
| Effective Radiated Power:   |   |
| Horizontal  | 0.250 kilowatt  |
| Vertical  | 0.250 kilowatt  |
| Antenna:  | Scala Electronics CA5-FM-CP-RM<br>5 element circularly polarized yagi antenna |
| Antenna System Power Gain   | 3.981   |
| Transmission Line:  | Andrew LDF4-50A   |
| (300 feet)  | 7/8 inch foam dielectric<br>77.4% Efficiency                                  |
| Other Losses:   | Scala Starpoint<br>0.8 dB insertion loss<br>83.176% Efficiency                |
|   | Kintronics Isocoupler<br>0.2 dB insertion loss<br>95.499% Efficiency          |
| Required Transmitter Power Output<br>To Reach Effective Radiated Power: | 0.10214 kilowatt (102.1 watts)  |

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|                              |  |
|------------------------------|--|
| Facilities Authorized:       | Channel 266D - 101.1 MHz   |
| Effective Radiated Power:    | 0.250 kilowatt (H/V)   |
| Geographic Coordinates:      | North Latitude     34° 15' 19"<br>West Longitude     88° 41' 46" |
| Antenna Center of Radiation: | Above Ground     46.0 meters<br>Above MSL        125.0 meters    |