

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 5 element circularly polarized yagi antenna
Antenna System Power Gain	3.981

Transmission Line: (300 feet)	Andrew LDF4-50A 7/8 inch foam dielectric 77.4% Efficiency
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Other Losses:	Scala Starpoint 0.8 dB insertion loss 83.176% Efficiency
	Kintronics Isocoupler 0.2 dB insertion loss 95.499% Efficiency

Required Transmitter Power Output To Reach Effective Radiated Power:	0.10214 kilowatt (102.1 watts)
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Facilities Authorized:	Channel 266D - 101.1 MHz
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Effective Radiated Power:	0.250 kilowatt (H/V)
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Geographic Coordinates:	North Latitude 34° 15' 19"
	West Longitude 88° 41' 46"

Antenna Center of Radiation:	Above Ground 46.0 meters
	Above MSL 125.0 meters