

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
KMJJ-FM RADIO STATION
CH 259C2 - 99.7 MHZ - 23.5 KW
SHREVEPORT, LOUISIANA
August 2010

EXHIBIT A

KMJJ-FM Transmission System Calculations

Effective Radiated Power: Horizontal/Vertical	23.5 kilowatts
Antenna:	Dielectric Communications Model DCRM-8-75 8 bay 0.75 wavelength spaced
Horizontal gain:	3.73 ¹
Transmission Line: (505 feet)	Dielectric Communications 4 inch flexible air dielectric cable 89.5% Efficiency
Transmitter combiner:	Dielectric Three station combiner w/ additional bandpass filter Total insertion loss : 0.32 db 92.897% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	7.577 kilowatts

Facilities Authorized:	Channel 259C2 - 99.7 MHz
Effective Radiated Power:	23.5 kilowatts (H/V)
Geographic Coordinates:	North Latitude 32° 29' 36" West Longitude 93° 45' 55"
Antenna Center of Radiation:	Above Ground 143.0 meters Above MSL 216.0 meters HAAT 163.0 meters
Antenna Structure Registration #:	1209322

1) The gain of the Dielectric eight bay, 0.75 wavelength spaced antenna is different for each of the three stations sharing the antenna. Attached as Exhibit A1 is a vertical plane relative field pattern from Dielectric for KMJJ-FM.



Proposal Number **79389**
Date **15-Jul-04**
Call Letters **KMJJ**
Location **Shreveport, LA**
Customer **Cumulus**
Antenna Type **DCRM8BP**
Drawing # **16**

ELEVATION PATTERN

RMS Gain at Main Lobe **3.73 (5.72 dB)** Beam Tilt **0.00 deg**
Per Polarization
Calculated / Measured **Calculated** Frequency **99.70 MHz**

