

MODIFY BMLH-20011204AAN
CUMULUS LICENSING LLC
KBAT (FM) RADIO STATION
CH 260C1 - 99.9 MHZ - 100.0 KW
MONAHANS, TEXAS
May 2006

EXHIBIT A

KBAT Transmission System Calculations

Effective Radiated Power:	
Horizontal	100.0 kilowatts (tilted beam)
Vertical	100.0 kilowatts (tilted beam)
Antenna:	Electronics Research, Inc. FMH-10AC
Horizontal gain	10 bay full wavelength antenna 5.640 ²
Transmission Line:	Andrew Corp. HJ8-50B
(460 feet)	3 inch air dielectric 86.2% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	20.57 kilowatts
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Facilities Authorized:	Channel 260C1 - 99.9 MHz
Effective Radiated Power:	100.0 kilowatts (H/V) (Tilted beam)
Geographic Coordinates:	North Latitude 31° 45' 40" West Longitude 102° 31' 28"
Antenna Center of Radiation:	Above Ground 140.0 meters Above MSL 1,081.0 meters HAAT 175.0 meters
Antenna Structure Registration #:	1041628

2) This is the maximum antenna gain in the tilted beam based on Exhibit B from Electronics Research, Inc.