

**MODIFY BLH-19890419KB**  
**CUMULUS LICENSING LLC**  
**WMXS (FM) RADIO STATION**  
**CH 277C - 103.3 MHZ - 100.0 KW**  
**MONTGOMERY, ALABAMA**  
**March 2007**

**EXHIBIT B**

**WMXS Transmission System Calculations**

Effective Radiated Power:	
Horizontal/Vertical	100.0 kilowatt
Antenna:	Shively 6014-8/3 8 bay full wavelength spaced antenna
Horizontal gain	4.04
Transmission Line:	Shively 1413-1X <sup>1</sup>
(1,350 feet)	4 1/8 rigid inch Air Dielectric 81.45% Efficiency
Power Divider:	Shively Power Divider: Insertion Loss : 0.05 dB 98.85% Efficiency
Antenna Combiner:	Shively Balanced Combiner Insertion Loss : 0.28 dB 94.406% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	32.565 kilowatts

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1) The output of the combiner is fed into a two way power divider, into two separate runs of 4 inch transmission line. Each line feeds half of the eight bay antenna system.

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**EXHIBIT B (continued)**

**WMXS Transmission System Calculations**

Facilities Authorized:	Channel 277C - 103.3 MHZ
Effective Radiated Power:	100.0 kilowatt (H/V)
Geographic Coordinates:	North Latitude 32° 24' 13" <sup>2</sup> West Longitude 86° 11' 47"
Antenna Center of Radiation:	Above Ground 342.0 meters Above MSL 397.0 meters HAAT 334.0 meters
Antenna Structure Registration #:	1042484

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2) Based on corrected coordinates.