

MODIFY BLH-19890331KC
CUMULUS LICENSING LLC
WHHY-FM RADIO STATION
CH 270C0 - 101.9 MHZ - 100.0 KW
MONTGOMERY, ALABAMA
March 2007

EXHIBIT B

WHHY-FM Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	100.0 kilowatt
Antenna:	Shively 6014-8/3
	8 bay full wavelength spaced antenna
Horizontal gain	4.11
Transmission Line:	Shively 1413-1X ¹
(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
	94.186% Efficiency
Required Transmitter Power Output	
To Reach Effective Radiated Power:	32.085 kilowatts

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)

WLWI-FM Transmission System Calculations

Facilities Authorized:	Channel 270C0 - 101.9 MHZ
Effective Radiated Power:	100.0 kilowatt (H/V)
Geographic Coordinates:	North Latitude 32° 24' 13" ² 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

2) Based on corrected coordinates.