

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
WWW-FM RADIO STATION
CH 275B - 102.9 MHZ - 50.0 KW (DA)
ANN ARBOR, MICHIGAN
April 2011

EXHIBIT A

WWW-FM Transmission System Calculations

Effective Radiated Power:	50.0 kilowatts (Horizontal/Vertical)
Antenna:	ERI MP-4C-DA 4 bay full wavelength spaced
Horizontal gain	3.123
Transmission Line: (384 feet)	Andrew Corporation HJ8-50A 3 inch air dielectric 88.2% Efficiency
Transmission Line: (15 feet)	Dielectric 3 inch air dielectric - rigid 99.6% Efficiency
Coaxial switch:	4 port switch 0.1 dB insertion loss 97.724% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	18.649 kilowatts

Facilities Authorized:	Channel 275B - 102.9 MHz
Effective Radiated Power:	50.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 42° 14' 46" West Longitude 83° 50' 58"
Antenna Center of Radiation:	Above Ground 116.0 meters Above MSL 406.0 meters HAAT 134.0 meters
Antenna Structure Registration #:	1275265