

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
W273AR FM TRANSLATOR
CH 273D - 102.5 MHZ - 0.250 KW
PAW PAW, MICHIGAN
August 2011

EXHIBIT A

W273AR Transmission System Calculations

Effective Radiated Power: 0.250 kilowatt (horizontal/vertical)

Antenna: Shively Labs 6813-1
One bay circularly polarized
Power Gain 0.46

Transmission Line: Andrew Corporation HJ5-50A
(418 feet) 7/8 inch air dielectric
69.7% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 0.779 kilowatt (779.0 watts)

Facilities Authorized: Channel 273D - 102.5 MHz

Effective Radiated Power: 0.250 kilowatt (H/V)

Geographic Coordinates: North Latitude 42° 18' 23"
West Longitude 85° 39' 25"

Antenna Center of Radiation: Above Ground 113.0 meters
Above MSL 412.0 meters

Antenna Structure Registration #: 1012375