

APPLICATION FOR STATION LICENSE
GREAT LAKES RADIO, INC.
WFXD (FM) RADIO STATION
CH 277C1 - 103.3 MHZ - 100.0 KW
MARQUETTE, MICHIGAN
December 2001

EXHIBIT A

WFXD Transmission System Calculations

Effective Radiated Power:

Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts

Antenna:

	Electronics Research SHP-10AC
	10 bay full wavelength
Horizontal gain	5.68

Transmission Line:
(620 feet)

Andrew HJ8-50B
3 inch air dielectric
81.5% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

21.598 kilowatts

Facilities Authorized:

Channel 277C1 - 103.3 MHz

Effective Radiated Power:

100.0 kilowatts (H/V)

Geographic Coordinates:

North Latitude 46° 36' 14"
West Longitude 87° 37' 15"

Antenna Center of Radiation:

Above Ground	185.0 meters
Above MSL	667.0 meters
HAAT	286.0 meters

FCC Tower Registration Number:

1230855