

APPLICATION FOR STATION LICENSE
UNITY BROADCASTING, INC.
WLCS (FM) RADIO STATION
CH 252A - 98.3 MHZ - 1.6 KW
NORTH MUSKEGON, MICHIGAN
February 2003

EXHIBIT A

WLCS Transmission System Calculations

Effective Radiated Power:	
Horizontal	1.60 kilowatts
Vertical	1.60 kilowatts
Antennas:	Electronics Research, Inc. LPX-3AE
	3bay full wavelength
Horizontal gain	1.5588
Transmission Line:	Andrew HJ7-50A
(471feet)	1 5/8 inch air dielectric
	80.1% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	1.28 kilowatts

Facilities authorized:	Channel 252A - 98.3 MHz
Effective Radiated Power:	1.60 kilowatts (H/V)
Geographic Coordinates:	North Latitude 43° 18' 50"
	West Longitude 86° 09' 17"
Antenna Center of Radiation:	Above Ground 141.0 meters
	Above MSL 341.0 meters
	HAAT 139.0 meters
FCC Tower Registration Number:	1231051