

APPLICATION FOR STATION LICENSE
LEIGHTON ENTERPRISES, INC.
KYCK (FM) RADIO STATION
CH 246C1 - 97.1 MHZ - 100.0 KW
CROOKSTON, MINNESOTA
March 2006

EXHIBIT A

KYCK Transmission System Calculations

Effective Radiated Power:	
Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts
Antenna:	Harris/ERI FMH-8E/SHP-8AE 8 bay full wavelength spaced
Horizontal gain	4.4872
Transmission Line:	Cablewave Systems HCC300-50
(369 feet)	3 inch air dielectric 89.9% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	24.789 kilowatts

Facilities Authorized:	Channel 246C1 - 97.1 MHz
Effective Radiated Power:	100.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 47° 49' 20" West Longitude 96° 49' 13"
Antenna Center of Radiation:	Above Ground 111.0 meters Above MSL 369.0 meters HAAT 113.0 meters
Antenna Structure Registration #:	1062816