

APPLICATION FOR STATION LICENSE
CMP KC LICENSING, LLC
KHJK RADIO STATION
NEW FM AUXILIARY ANTENNA SYSTEM
CH 279C - 103.7 MHZ - 100.0 KW
LA PORTE, TEXAS
October 2008

EXHIBIT A

KHJK Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	100.0 kilowatts (H/V) (in tilted beam) 94.86 kilowatts (H/V) at radio horizon
Antenna:	Dielectric DCRM-10B9T75P
Horizontal gain	10 bay 0.9 wavelength spaced antenna 5.1
Transmission Line:	Dielectric EHT
(1,869 feet)	4 1/16 inch air dielectric - rigid 74.7% Efficiency
Analog/Digital Combiner:	Insertion loss 0.47835 dB
(High level injection)	89.571% Efficiency
Coaxial switch:	Insertion loss 0.10 dB
	97.72% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	29.988 kilowatts

Facilities Authorized:	Channel 279C - 103.7 MHz
Effective Radiated Power:	100.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 29° 56' 09" West Longitude 94° 30' 39"
Antenna Center of Radiation:	Above Ground 552.0 meters Above MSL 564.0 meters HAAT 555.0 meters
Antenna Structure Registration #:	1242072