

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
KKCT (FM) RADIO STATION
CH 248C1 - 97.5 MHZ - 100.0 KW
BISMARCK, NORTH
May 2006

EXHIBIT A

KKCT Transmission System Calculations

Effective Radiated Power:	
Horizontal	100.0 kilowatts
Vertical	100.0 kilowatts
Antenna:	Electronics Research, Inc. FMH-10AC 10 bay full wavelength antenna
Horizontal gain	5.68 ¹
Transmission Line:	Dielectric DC-475-003
(272 feet)	4 inch air dielectric 96.0% efficiency
(265)	Andrew HJ11-50 4 inch air dielectric 93.5% efficiency
ERI two stations combiner:	Insertion Loss 0.312 db
Band Pass - Tee type	93.068% ²
Required Transmitter Power Output To Reach Effective Radiated Power:	21.07 kilowatts

Facilities Authorized:	Channel 248C1 - 97.5 MHz
Effective Radiated Power:	100.0 kilowatts (H/V)
Geographic Coordinates:	North Latitude 46° 35' 24" West Longitude 100° 47' 46"
Antenna Center of Radiation:	Above Ground 160 meters Above MSL 835 meters HAAT 255 meters
Antenna Structure Registration #:	1040570

-
- 1) This is due to KKCT sharing the antenna with KACL.
- 2) From BLH-931105KB.