

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
KBYZ (FM) RADIO STATION
CH 243C1 - 96.5 MHZ - 100.0 KW
BISMARCK, NORTH DAKOTA
May 2006

EXHIBIT A

KBYZ Transmission System Calculations

Effective Radiated Power:

Horizontal

100.0 kilowatts

Vertical

100.0 kilowatts

Antenna:

Harris/Electronics Research, Inc.
FMH-10C

10 bay full wavelength antenna

Horizontal gain

5.68

Transmission Line:
(675 feet)

Andrew HJ11-50
4 inch air dielectric
84.2% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

20.91 kilowatts

Facilities Authorized:

Channel 243C1 - 96.5 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 199 meters

Above MSL 873 meters

HAAT 294 meters

Antenna Structure Registration #:

1040570