

AMEND BLH-20060523ADM  
CUMULUS LICENSING LLC  
KBYZ (FM) RADIO STATION  
CH 243C1 - 96.5 MHZ - 100.0 KW  
BISMARCK, NORTH DAKOTA  
June 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:

(610 feet)

Andrew HJ11-50

4 inch air dielectric

85.6% efficiency

ERI Bandpass filter :

Insertion loss: 0.3775 dB

91.675% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

22.435 kilowatts

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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