

APPLICATION FOR STATION LICENSE
CUMBERLAND BROADCASTING COMPANY
W276DQ FM TRANSLATOR STATION
CH 276D - 103.1 MHZ - 0.155 KW
CUMBERLAND, MARYLAND
June 2018

EXHIBIT A

W276DQ Transmission System Calculations

Effective Radiated Power: 0.155 Kilowatt (Horizontal/Vertical)

Antenna: Nicom BKG-77 (2 Bay/half wave)
Gain 0.70

Transmission Line: Andrew LDF4-50A
(80 feet / 24.4 meters) 1/2 inch foam dielectric
98.6 % Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 0.225 Kilowatt (225 Watts)

Facilities Authorized: Channel 276D - 103.1 MHz

Effective Radiated Power: 0.155 Kilowatt (H/V)

Geographic Coordinates: North Latitude 39° 40' 28"
West Longitude 78° 46' 45"

Antenna Center of Radiation: Above Ground 15.0 meters
Above MSL 505.0 meters

Antenna Structure Registration #: N/A