

APPLICATION FOR STATION LICENSE
HINDLIN BROADCASTING, LLC
W277DF FM TRANSLATOR STATION
CH 277D - 103.3 MHZ - 0.25 KW
NORFOLK, VIRGINIA
June 2017

EXHIBIT A

W277DF Transmission System Calculations

Effective Radiated Power:	0.25 Kilowatt (Horizontal/Vertical)
Antenna:	Shively 6812B Four bay full wavelength antenna
Power Gain	2.09
Transmission Line: (551 feet / 168 meters)	LCF78-50JA 7/8 inch air dielectric 61.2% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.195 Kilowatt (195 Watts)

Facilities Authorized:	Channel 277D - 103.3 MHz
Effective Radiated Power:	0.25 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 36° 49' 44" West Longitude 76° 12' 26"
Antenna Center of Radiation:	Above Ground 119.0 meters Above MSL 120.0 meters
Antenna Structure Registration #:	1017885