

APPLICATION FOR STATION LICENSE
DONNA I. TAYLOR
W272DM FM TRANSLATOR STATION
CH 272D - 102.3 MHZ - 0.25 KW
GRIFFIN, GEORGIA
December 2016

EXHIBIT A

W272DM Transmission System Calculations

Effective Radiated Power:	0.25 Kilowatt (Horizontal/Vertical)
Antenna:	Jampro JLLP-1 (DA) Single bay full wavelength antenna
Power Gain	0.745
Transmission Line: (200 feet / 61 meters)	Andres LDF5-50A 7/8 inch foam dielectric 63.6 % Efficiency
Isocoupler:	Kintronic FMC 7.5 0.1 dB Loss 97.7 % Efficiency
Transmission Line: (330 feet / 100.6 meters)	Cell Flex LCF78-50 7/8 inch foam dielectric 76.5 % efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.449 Kilowatt (449 Watts)

Facilities Authorized:	Channel 272D - 102.3 MHz
Effective Radiated Power:	0.25 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 33° 14' 24" West Longitude 84° 14' 55"
Antenna Center of Radiation:	Above Ground 91.0 meters Above MSL 354.0 meters
Antenna Structure Registration #:	1018281