

APPLICATION FOR STATION LICENSE
CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.
W273CA FM TRANSLATOR
CH 273D – 102.5 MHZ - 0.25 KW
ORLANDO, FLORIDA
October 18, 2012

EXHIBIT A
W273CA Transmission System Calculations

Effective Radiated Power: 0.25 kilowatt (horizontal/vertical)

Antenna: Dielectric (SPX) DCR-M4C50 Four bay circularly polarized – half-waved spaced.

Power Gain 1.2

Transmission Line: Andrew Corporation LDF7-50A (558 feet 170 meters) 1 and 5/8 inch foam dielectric 76.3% Efficiency, with the 1.5 db triplexer loss, 54.0% Efficiency Total.

Triplexer: Shively Labs Model 2930 3/3 - 1.5 db loss per port.

Required Transmitter Power Output
To Reach Effective Radiated Power: 0.386 kilowatt (386 watts)

Facilities Authorized: Channel 273D – 102.5 MHz

Effective Radiated Power: 0.25 kilowatt (H/V)

Geographic Coordinates: North Latitude 28/ 36' 20"
West Longitude 81/ 25' 05"

Antenna Center of Radiation: Above Ground 140.0 meters
Above MSL 169.0 meters

Antenna Structure Registration #: 1244200