

**APPLICATION FOR STATION LICENSE**  
**CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.**  
**W292DZ FM TRANSLATOR**  
**CH 292D – 106.3 MHZ - 0.215 KW**  
**ORLANDO, FLORIDA**  
**October 18, 2012**

**EXHIBIT A**  
**W292DZ Transmission System Calculations**

Effective Radiated Power: 0.215 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 75.8% Efficiency, with the 1.5 db triplexer loss, 53.7% Efficiency Total.

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

Required Transmitter Power Output  
To Reach Effective Radiated Power: 0.334 kilowatt (334 watts)

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Facilities Authorized: Channel 292D – 106.3 MHz

Effective Radiated Power: 0.215 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