

APPLICATION FOR STATION LICENSE
CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.
W292DZ FM TRANSLATOR
CH 292D - 106.3 MHZ - 0.25 KW (DA)
ORLANDO, FLORIDA
April 2012

EXHIBIT A

W292DZ Transmission System Calculations

Effective Radiated Power:	0.25 kilowatt (horizontal/vertical)
Antenna:	Samco SAM-159FM One horizontally polarized and one vertically polarized yagi antenna Oriented at 135° true
Power Gain ¹	3.981
Transmission Line: (290 feet)	Andrew LDF50-50A 1/2 inch foam dielectric 62.4% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1006 kilowatt (100.6 watts)

Facilities Authorized:	Channel 292D - 106.3 MHz
Effective Radiated Power:	0.25 kilowatt (H/V)
Geographic Coordinates:	North Latitude 28° 43' 39" West Longitude 81° 36' 18"
Antenna Center of Radiation:	Above Ground 84.0 meters Above MSL 109.0 meters
Antenna Structure Registration #:	1032130

1) Power is fed to a 3 dB splitter then into the individual antenna systems. This is the overall gain.