

APPLICATION FOR STATION LICENSE
VERO BEACH BROADCASTERS, LLC
W289CF FM TRANSLATOR
CH 289D - 105.7 MHZ - 0.25 KW
VERO BEACH, FLORIDA
May 2016

EXHIBIT A

W289CF Transmission System Calculations

Effective Radiated Power:	0.25 Kilowatt (Horizontal/Vertical)
Antenna:	BEXT / TFC1K-N Two bay 0.85 wavelength spaced antenna
Power Gain	0.9354
Transmission Line: (170 feet / 51.8 meters)	Eupen ED450 1/2 inch foam dielectric 0.661 dB loss/100 ft 1.124 dB loss/170 ft
Connectors	Eupen NM50V78M (2) 0.01 dB loss/Connector 1.144 dB Total Loss 76.9 % Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.348 Kilowatt (348 watts)

Facilities Authorized:	Channel 289D - 105.7 MHz
Effective Radiated Power:	0.25 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 27° 37' 12" West Longitude 80° 25' 01"
Geographic Coordinates Corrected:	North Latitude 27° 37' 12" West Longitude 80° 25' 04"
Antenna Center of Radiation:	Above Ground 49.0 meters Above MSL 57.0 meters
Antenna Center of Radiation (as built): (see surveyor FAA 1-A Certification)	Above Ground 48.0 meters Above MSL 55.0 meters
Antenna Structure Registration #:	1239136