

APPLICATION FOR STATION LICENSE
RADIO POWER INC.
W297BU FM TRANSLATOR
CH 297D - 107.3 MHZ - 0.25 KW
WILKINSBURG, PENNSYLVANIA
August 2018

EXHIBIT A

W297BU Transmission System Calculations

Effective Radiated Power:	0.25 Kilowatt (Horizontal/Vertical)
Antenna:	SWR FMEC/2-PD-TA (2 Bay - full wave)
Gain	1.597
Transmission Line:	75.75 % Efficiency
Isocoupler:	Kintronic FMC-1.5-DIN Loss: 0.15 dB (typical) 96.6% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.214 Kilowatt (214 Watts)

Facilities Authorized:	Channel 297D - 107.3 MHz
Effective Radiated Power:	0.25 Kilowatt (H/V)
Geographic Coordinates:	North Latitude 40° 24' 47" West Longitude 79° 51' 14"
Antenna Center of Radiation:	Above Ground 90.0 meters Above MSL 425.0 meters
Antenna Structure Registration #:	1225839