

**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)

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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