

Environmental Assessment – Seeker Program operations 15.7-17.8 GHz

WG2XMV Experimental Renewal Application 0087-EX-CR-2017

Raytheon is seeking authorization to increase the power of its experimental operations under call sign WG2XMV. The renewal request, file number 0087-EX-CR-2017, operates at an operational power that requires Raytheon to file this Environmental Assessment to provide information in accordance with Part 1, Subpart I of the Commission’s Rules. The details are set forth below.

47 C.F.R. § 1.1307 (a)

No environmental assessment is required under this provision of the Commission’s Rules, because the transmitters to be used in this experimentation will be installed inside existing buildings on the Raytheon campus.

47 C. F. R. § 1.1307 (b)

The calculations below define the minimum safe working distance for both occupational and general public, which are based on the maximum permissible exposure limits of 5 mW/cm² and 1 mW/cm² respectively for the transmitted frequency.

Transmitter Details

Peak EIRP (mW)	23442000
Max Duty Cycle	0.33
Average ERP (mW)	805860

Calculated Safe Distances

	Occupational	General Public
Minimum Safe Distance (cm)	113.3	253.3
Minimum Safe Distance (ft)	3.7	8.3

Raytheon has defined a controlled area around the transmitters of four (4) feet, to protect the occupational workers.

Operations are limited to the controlled area, and only authorized occupational workers have access to the area of operation. Raytheon has posted signs and conducted training to ensure that all occupational workers stay in compliance with the controls required.

For additional information, please contact either Tom Fagan, 520-794-0227 or tjfagan@raytheon.com, or Anne Cortez, 520-360-0925 or alc@conspecinternational.com.