

Raytheon IIS  
Renewal Application WG2XWR  
File No: 0292-EX-RR-2014

### **Explanation of Experiment**

Raytheon Intelligence, Information and Services (Raytheon IIS) is seeking to renew this license to continue research and development that began under the Raytheon IDS division in 2013.

The research being conducted under this license is part of a series of experiments being conducted to see if advances in command and control radio systems, combined with microwave backhaul can be linked with advanced surveillance radar to service a number of purposes of Raytheon's federal customers, including developing an advanced border protection technology package.

#### **Summary of Experiment:**

- Spectrum Needed: 17.740 – 18.748 GHz
- Power level: 50 W ERP
- Areas of operation: remote location outside of Las Cruces, New Mexico and New Mexico State University

#### **Spectrum Use:**

This frequency band has been used for testing of new radar surveillance technologies. Additional research and development is necessary to advance the radar technology so that it can be reviewed by federal customers.

#### **Stop Buzzer Point of Contact:**

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#### **Conclusion:**

Raytheon is seeking to renew, for 24 months, its experimental license WG2XWH so that it can continue its work developing advanced systems that will integrate high quality radar surveillance, broadband backhaul, and advanced command and control.

For more information about this application please contact Brian R. Kavalor, Spectrum Manager, Raytheon IIS, 317-517-9989, [brian\\_r\\_kavalor@raytheon.com](mailto:brian_r_kavalor@raytheon.com) or Anne L. Cortez, Washington Federal Strategies, 520-360-0925 or [alc@conspicinternational.com](mailto:alc@conspicinternational.com).