

# MicroLight DH500 FCC Experimental License Request

## 1 Purpose of Operation

Raytheon Network Centric Systems (NCS) has been developing a communications system that can be used without infrastructure; this is especially essential during a disaster (example Katrina). The Raytheon Micro Light DH500 Technology each mobile unit act as a repeater or tower to route call through the network, this action is transparent to the user. We are planning to conduct testing and demonstrations during 2008/2009 with the various public safety agencies and public utilities companies. "Micro Light DH500 provides an ad hoc networking solution suited to the dynamic operations carried out by infantry soldiers engaged in close combat situations today."

- Raytheon Micro Light Technology:
  - File Number: 0128-EX-PL-2008
  - Class of Station: MO
  - Station Locations: MOBILE
  - Effective: TBD
  - Expiration: TBD

By its application, Micro Light sought authority to operate four different states this will allow testing the various types of terrain and topology. (i) Conduct technical demonstrations and testing of service in the various states and evaluate performance is in accordance with design specifications; (ii) demonstrate performance of the systems to prospective purchasers; and (iii) perform limited market studies. (iv) We are seeking to use non-government spectrum allocation for this experimental testing for First Responders this will include electrical and power companies. (v) This technology was design with monitoring capability for school safety also.

We are willing to modify the requested spectrum if that is necessary, we just need 30 MHz of spectrum for this test; if necessary the spectrum can be broken up in 5 MHz sections