

**PROXY AVIATION SYSTEMS
12850 Middlebrook Road
Germantown, MD 20874**

May 23, 2008

Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir or Madam,

Proxy Aviation Systems ("Proxy") hereby requests an expedited grant of an experimental Special Temporary Authority ("STA") to cover intermittent fixed/base and airborne mobile experimental testing on frequencies in the L and S Bands, in Maryland, from June 1, 2008 until November 30, 2008. Proxy Aviation Systems requires the STA in order to test an Enerdyne Enerlinks II Datalink in a proprietary configuration as part of a non-contractual test activity project to develop innovative systems for the U.S. military and other customers.

The proposed fixed/base and airborne mobile experimental operations will be located at and around the following three locations:

- Montgomery County Airpark (Montgomery County), Maryland (Lat/Lon: 077-09-57.6000W/39-10-06.0000N; Elevation 164.29 meters); and
- Frederick Municipal Airport (Frederick County), Maryland (Lat/Lon: 077-22-27.5000W/39-25-03.3000N; Elevation 92.35 meters); and
- Ocean City Municipal Airport (Worcester County), Maryland (Lat/Lon: 075-07-26.3000W/38-18-37.6000N; Elevation 3.35 meters)

The fixed/base operations will be located at the airports and will utilize an Enerdyne Enerlinks II Datalink and 18 dBm directional 2-Axis, steerable, tracking antenna with a height of 5.9 meters. The transmissions will be at a frequency centered at 2360 MHz, with a peak output power of 20 Watts and a peak Effective Radiated Power (ERP) of 796 Watts. The modulation will be FSK, and the Emission Designator will be 8M00F7W.

The airborne mobile operations will be located within a 185 kilometer radius of the fixed/base location, flying at a maximum altitude of 15000' AGL, and will utilize an Enerdyne Enerlinks II Datalink and a 5 dBm omnidirectional antenna mounted on a Proxy Aviation Systems SkyRaider aircraft (KARI Firefly based). The transmissions will be at a frequency centered at 1730 MHz, with a peak output power of 20 Watts and a

peak Effective Radiated Power (ERP) of 120 Watts. The modulation will be FSK, and the Emission Designator will be 8M00F7W.

If necessary, Proxy will coordinate with any government or non-government incumbents prior to commencing transmissions at 1730 and 2380 MHz in order to prevent harmful interference to their operations. In addition, while Proxy requests herein specific frequencies at 1730 and 2380 MHz, Proxy is open to using any frequency in the 1710 to 1850 MHz range for airborne mobile operations and any frequency in the 2200 to 2400 MHz range for fixed/base operations.

This request is based on a prior experimental STA granted by the FCC to Northrop Grumman Systems Corporation ("NGSC") for testing in Colorado using the same equipment on their platform. The FCC File Number for that activity is 0459-EX-ST-2007 and call sign is WD9XBZ.

Attached to the ETA submission are copies of both the STA and Form DD1494 submitted to NMSC dated 28 April 2006, as well as the AFTRCC coordination letter dated 22 May 2008.

I certify that I am an authorized employee of Proxy Aviation Systems.

Respectfully submitted,

Proxy Aviation Systems

By: \s\ Larry J. Belella

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