

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

October 20, 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 extension of an existing experimental Special Temporary Authority ("STA") callsign WD9XJF, to cover intermittent fixed/base and airborne mobile experimental testing on frequencies in the S Band, in Maryland, for 180 days after the current ESTA expiration date of 1 December 2008. Proxy Aviation Systems requires the STA to continue testing of the Enerdyne Enerlinks II Datalink, and a Pacific Microwave Research DTS-200 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 remain 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 up to 4600 meters); and
- Frederick Municipal Airport (Frederick County), Maryland (Lat/Lon: 077-22-27.5000W/39-25-03.3000N; Elevation up to 4600 meters); and
- Ocean City Municipal Airport (Worcester County), Maryland (Lat/Lon: 075-07-26.3000W/38-18-37.6000N; Elevation up to 4600 meters)

The fixed/base operations will be located at the airports and will continue to 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 continue to be at a frequency centered at 2380 MHz, with a peak output power of 20 Watts and a peak Effective Radiated Power (ERP) of 796 Watts. The modulation continues to be FSK, and the Emission Designator will remain 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 Pacific Microwave Research DT-200S Datalink and a 5 dBm omnidirectional antenna mounted on a Proxy Aviation Systems SkyRaider aircraft (KARI Firefly based). The

transmissions will be a single 8 MHz channel between 2200 MHz and 2500 MHz, with a peak output power of 10 Watts and a peak Effective Radiated Power (ERP) of 40 Watts. The modulation will be FSK, and the Emission Designator will be 8M00F7W.

Proxy will continue to coordinate with any government or non-government incumbents prior to commencing transmissions in the requested areas of the S-band in order to prevent harmful interference to their operations. Proxy is open to using any pair of frequencies in the 2200 - 2500 MHz range for airborne mobile and fixed base operations.

This request is based on a prior experimental STA granted by the FCC to Proxy Aviation Systems, File Number 0278-EX-ST-2008 and call sign is WD9XJF.

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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