

Amended Description of Experimental Program

Northrop Grumman Defense Mission Systems, Inc. ("NGDMS") and Northrop Grumman Systems Corporation ("NGSC") are both wholly-owned subsidiaries of Northrop Grumman Corporation. From this point forward, NGDMS, rather than NGSC, is the applicant of this amended application for an experimental radio station license under File No. 0400-EX-PL-2005. NGDMS requests an experimental radio license, under this amended application, in order to test Battleground Airborne Communications Node ("BACN") equipment for the U.S. Air Force pursuant to Contract No. H94003-04-D-0005-0002.

The proposed experimental radio station license will cover airborne mobile and fixed/base ground operations at and around the following three locations:

- Melbourne (Brevard County), Florida (NAD 83 coordinates: NL 28-06-00, WL078-40-00). The airborne mobile area of operation will be within 33 km of the center point of the coordinates listed above, with a maximum altitude of 13,716 meters.
- Marine Corp Air Station Miramar (San Diego County), California (NAD-83 coordinates: NL 32-51-39 and WL 117-08-41). The airborne mobile area of operation will be within 33 km of the center point of the coordinates listed above, with a maximum altitude of 13,716 meters.
- Nellis Air Force Base (Clark County), Nevada (NAD-83 coordinates: NL 36-14-56 and WL 114-57-37). The airborne mobile area of operation will be within 33 km of the center point of the coordinates listed above, with a maximum altitude of 13,716 meters.

The proposed airborne mobile experimental facilities will utilize AetherComm model SSPA X-Band transmitters operating omnidirectional antennas at 10.290 GHz, with a maximum ERP of 100.0W and a data rate of 11.5MB. The emission designator will be 21M4G1D, and the bandwidth will not to exceed 40MHz..

The proposed fixed/base ground facilities will consist of transportable antennas, positioned on a rooftop of buildings, or elsewhere, and will transmit at 9.850 GHz into a 10-degree beamwidth Rozendahl circular horn tracking the airborne test beds, operating with a maximum ERP of 1,000W and a data rate of 11.5 MB. The emission designator will be 800KG1D, and bandwidth will not exceed 2.0 MHz.

NGDMS requests expedited processing of the application for a new experimental license, and a license term of no less than 2 years.