

Northrop Grumman Systems Corporation AMT Experimental Request

Northrop Grumman employs and tests OFDM radio systems manufactured by Persistent Systems for a number of current research and development efforts. The experimental license is requested to operate this equipment on aircraft while employing a mobile ground station. Current research includes air-to-ground data links employing cutting edge mesh routing techniques for the purpose of developing concepts related to employing mesh networks to meet national and military needs. The ability of Northrop Grumman to employ these systems within the aviation spectrum will enhance the public interest by permitting testing and delivery of products intended for U.S. Government customers.

The proposed operations in the 2360-2390 MHz band will employ a mobile ground station with transmitter output of 2 watts maximum into a 26.5 dBi antenna, resulting in a maximum ERP of 545 watts. Aircraft will employ transmitters with 2 watts output maximum to antennas with 6 dBi gain, resulting in a maximum ERP of 8 watts. Flights will be at an altitude not to exceed 17,000 feet (a) within 30 nmi of (a) 38-41-20 N, 75-21-30 W or (b) within 15 nmi of 39-32-53 N, 76-22-16 W. The ground unit will be located at the Sussex Airport in Georgetown, Delaware, for flights within either area.

These specifications have been coordinated with AFTRCC through April 30, 2015, see additional attachment to this application.

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