Application for Experimental License

This application for Northrop Grumman Systems Corporation (NGSC) is to perform verification testing of the AN/TPS-80 G/ATOR system IFF Interrogator in conjunction with FCC experimental license WH2XRS (FAA Co-ordinations NGT150054 and NG T160002) for transmission of AN/UPX-44 interrogations. Only SIF modes 1 and 2 will be used for ground functional evaluation. Transmit power will be limited to 0.031 microwatts ERP. NGSC will use the test set directional antenna (1 dBi gain) for RF 1090 MHz transmission testing.

The tests will use the AN/USM-719 Radar Test Set. Operations of the test set will be in accordance with its operators manual: EE120-AG-OMP-010, Operational and Organizational – Level Maintenance Instructions, prepared by the Naval Air Warfare Center, Patuxent River NAS, MD. Section WP 004 04, System Operation – IFF Interrogator Testing, describes the test set up that NGSC will follow, to include the need to coordinate with local ATC. Mode 2 code will be obtained from the local ATCT facility prior to tests.

This work is being performed pursuant to a contract with the U.S. Navy/USMC, Contract Number M67854-07-C-2027. Contract USGOV POC is: Major Chris Stephenson, Program Executive Office – Land Systems. Contact: chris.stephenson@usmc.mil or Christopher.Stephens@usmc.smil.mil. (W) 703-784-0620 (no voicemail); (M) 703-798-3138.

This request has been coordinated by the FAA through May 31, 2018, NG T160120. A copy of the coordination email follows.

The NG T number is NG T160120 for transmitting AN/USM-719 to test AN/UPX-44 interrogator for the AN/TPS-80 G/ATOR radar system.

The following conditions are applied for radiating AN/USM-719 ramp tester at Hanover MD.

1. Only Mode 1 and 2 radiation test are allowed for ground functional evaluation.
2. No Mode 3A,C 4,5,or S allowed.
3. Mode 2 code must be obtained from local ATCT facility prior test.
4. The assignment will be expired 31 May 2018.

Sincerely
Thomas Ahn (AJW-1C2)
FAA Spectrum Assignment and Engineering
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