

Northrop Grumman Innovation Systems
Alliant Techsystems Operations LLC.
4700 Nathan Lane
Plymouth, MN 55442

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

Dear Sir or Madam:

Northrop Grumman Innovation Systems' Alliant Techsystems Operations hereby requests an experimental license for the explicit purpose of integration and testing of medium caliber projectiles in the 11.7-11.8GHz band.

Approval of this experimental license will allow for timely verification of the command, control, and telemetry sub-systems. It must be stressed that Northrop Grumman strives to eliminate any stray emissions from its facilities while testing. Testing will be performed at Northrop Grumman's outdoor weapons range in Elk River, MN. Due to the rural location of the facility Northrop Grumman does not anticipate any additional coordination to be required. The parameters of the RF transmissions for this experimental license are provided in the application.

Please call me (763-744-5272) if you have any questions concerning this application. Thank you in advance for your prompt attention to this matter.

Sincerely,

Mark Turpin, Sr. Principal Electrical Engineer
Northrop Grumman Innovation Systems
Armament Systems