

Orbital ATK
21830 Atlantic Blvd.
Dulles, VA 20166

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

Re: Experimental license for Orbital ATK

Dear Sir or Madam:

Orbital ATK (Orbital) hereby requests an experimental license for the explicit purposes of integration and testing of commercial communications satellites at 1575.42, 1176.45, and 1800 MHz.

Due to the requested frequencies covering the L1 and L5 GPS frequency bands, a frequency coordination and interference analysis report of the test facility is attached to the application, which demonstrates the Orbital test site will operate satisfactorily with other licensed in-band and adjacent systems. This survey was originally performed to obtain STA File numbers 0683-EX-ST-2004, and STA 0243-EX-ST-2005. The Orbital test facility remains unchanged since the time of this survey. Please note that the Maximum Radiated Effective Power (ERP) used for the original testing was 10 W, and the ERP for the proposed testing is significantly less, at 1 W.

Approval of this experimental license will allow for timely verification of the L-band antenna system, as well as calibrations, subsystem, and system level testing of the payloads of each spacecraft. It must be stressed that Orbital strives to **eliminate** any stray emissions from its facility while testing satellites. Orbital performs all testing inside its facilities (metal buildings), shielded rooms, and/or anechoic chambers. Therefore, Orbital does not anticipate any additional coordination to be required. This license is needed in the event any stray radiation is transmitted into the local area. The parameters of the RF transmissions for this experimental license are provided in the application.

Please call me (703-948-8893) if you have any questions concerning this application. Thank you in advance for your prompt attention to this matter.

Sincerely,

A handwritten signature in dark ink, appearing to read "Jose Diaz", with a stylized flourish at the end.

Jose Diaz, Senior Engineer
Orbital ATK
RF Integration and Test Group