

Orbital Sciences Corporation
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 Sciences Corporation

Dear Sir or Madam:

Orbital Sciences Corporation (Orbital) hereby requests an experimental license for the explicit purposes of integration and testing of commercial communications satellites in the Ka-band. Orbital's previous approach has been to apply for licenses that cover only small portions of the Fixed Satellite communications bands already set aside by the FCC in Title 47, Section 2.106 of the Code. These license applications are generated as each satellite frequency plan is released, which may be only a few months before testing is scheduled to commence at our facilities. With production growing at record-setting pace and the FCC's backlog fluctuating over the past few years, it seems appropriate to take a new approach that benefits both Orbital's manufacturing process and the FCC's resource allocation process. Orbital therefore proposes the attached wideband license, to cover all current and future Ka-band commercial communications satellite testing at our Dulles campus. The goal is for this license to be easily renewable every three years barring no changes are made to the Frequency Allocation Tables.

Approval of this experimental license will allow for timely verification of the command, control, and telemetry sub-system, as well as the audio/video communications 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 (703-948-8751) if you have any questions concerning this application. Thank you in advance for your prompt attention to this matter.

Sincerely,



Pete Collis, P.E.

Orbital Sciences Corporation
RF Integration and Test Group