

## **FCC form 442, Question 7, Experimentation Description**

Ref. file # 0254-EX-PL-2006

Orbital Sciences Corporation is under various contracts to design, build, test, deliver and launch launch vehicles with resident GPS receivers. Orbital is required to verify nominal operation of these GPS receivers, which are a part of a vehicle resident GPS system, by conducting the appropriate tests in the Chandler, AZ facility. Because of the nature of these tests, they must be conducted inside the building, where attenuation from the building decreases the GPS satellite signal level below the receiver threshold level. Thus a GPS booster station is required to increase the signal level enough so that the GPS receivers can acquire the GPS satellite signal.