



# Blue Origin

## **EXHIBIT #1:**

To

Blue Origin, LLC

Application for New Experimental Radio Station Authorization (FCC Form 442)

Dated 15 May 2007

Related to GPS Repeaters

Additional Information:

### **(6) DESCRIPTION OF RESEARCH PROJECT**

- (a) Blue Origin is a aerospace research and development company developing commercial launch vehicle technology. Blue Origin is developing a series of space-launch vehicles beyond the next 5 years. Blue Origin's main assembly and test facilities are in Kent, Washington; flight-test facilities are in a sparsely-populated desert area in Culberson County (North of the small town of Van Horn), Texas. Blue Origin is currently conducting flight testing of a vehicle at this facility, and plans to flight test a series of vehicles to be assembled and tested in Kent, Washington and flight tested in Texas.
- (b) The desired FCC license applies to Global Position Service (GPS) re-radiation or repeater equipment, for use in testing position-computation equipment in aerial vehicles that are being built by Blue Origin. These vehicles will be tested and operated at Blue Origin's private facilities in Kent, Washington and near Van Horn, Texas. In both locations, Blue Origin plans to test the vehicles' on-board GPS sensors during vehicle assembly, while the vehicle and vehicle components are indoors and therefore unable to receive satellite GPS signals. The equipment is needed to generate the GPS signals that can be received by the vehicle components while indoors at various stages of assembly and test.
- (c) No GPS re-radiation transmitters currently exist at Blue Origin's indoor facilities.

### **(8) LENGTH OF TIME THAT WILL BE REQUIRED TO COMPLETE THE PROGRAM OF EXPERIMENTATION:**

Blue Origin is developing a series of launch vehicles. Extensive development testing, assembly testing and flight testing is planned for multiple vehicles for more than a 5-year period (see #6, above). Blue Origin plans to use the GPS equipment over the course of the 5-year period following receipt of the license sought in this application. These launch vehicles require extensive indoor testing over the 5-year period.

### **(12) TYPE OF APPLICANT:**

Blue Origin, LLC is a limited liability company formed under the laws of the State of Washington.