

## Large Systems Complex (Area 1-125)



**Description:** Area 1-125 consists of three large rocket stands and necessary support structures and equipment. Stand 1C is configured with a six-axis system for measuring thrust from a solid rocket motor of up to 1.6 million pounds in the x-axis (vertical) and 200,000 pounds in the y-axis (horizontal). Stand 1D is capable of thrust measurement up to 1.5 million pounds of thrust, with

four degrees of freedom and hydraulic calibration. Stand 1E, originally with the same characteristics of Stand 1D, is the location of the National Hover Test Facility (NHTF). The NHTF consists of a high bay hover and flight volume with adjacent control room, a target test stand, a vehicle integration facility with clean room, and areas for loading, servicing, and decontaminating propellants from test vehicles. The facility contains independent propellant storage and handling capabilities, computer controlled mirrored satellite tracking pedestal for location and tracking satellite targets, and stand-alone telemetry systems.

### **Purpose:**

Full scale research on launch vehicle solid rocket motor systems and liquid rocket engine systems.

Research includes full duration testing at ground level.

Test firings of complete integrated engine systems and complete full up missiles in a vertical nozzle down orientation.

### **Products:**

Production testing of the Saturn V F-1 engine, the H-1 engine and, most recently, research and development for the Titan IV Solid Motor Upgrade.

Strategic Defense Treaty compliance activities, research and development on strategic defense kill vehicles.

### **Availability:**

U.S. Government agency use, DoD contractors and dual use/defense conversion use-limited on an as available basis.

Contact POC for additional information.