

AIR GUN AND INTERIOR BALLISTICS SIMULATION TEST LABORATORY

LABORATORY INFORMATION FACT SHEET

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The Air Gun and Interior Ballistics Simulation Test Laboratory (Air Gun Lab) complex conducts interior ballistics simulation (set-back, setforward and spin) and evaluation of material during R&D, failure investigation, production and qualification programs.

TECHNOLOGY/FACILITY DESCRIPTION:

The Air Gun Lab houses multiple test rooms to test inert and explosively loaded hardware. Each room contains Air Gun equipment to recreate environments the commodity may

experience during launch. The facility is equipped with on-line data monitoring, acquisition and analysis computer systems. The technical staff can assist the scientific community in designing experiments and conducting investigations in natural and induced environmental phenomena in order to study their effects on mission items.



EQUIPMENT AND EXPERTISE AVAILABLE:

- Air Guns, Interior Ballistic, and High G Test of munitions services
- Laboratory contains three (3) Air guns:
 - 155 MM rifled Howitzer
 - 5 Inch smooth bore Naval Gun
 - 2 Inch smooth bore
- Segmented test rooms, coupled with its explosive allowance make it unique among other test facilities either within the Army community or commercially
- Likewise our ability to work on classified projects gives us an advantage over other laboratories
- Act as a focal point for physical evaluation and technical support involving Gun launch environments
- Support all PM Offices overseeing programs with Gun launch requirements for their products
- Laboratory personnel are conducting testing using simplest methods that encompass most requirements

- Technical reviews of specifications and test documentation
- Qualification testing conducted on various systems in support of PMs
- Support malfunction investigations of various commodities



