



FIRE CONTROL FABRICATION, ASSEMBLY AND SYSTEM/VEHICLE INTEGRATION FACILITY

LABORATORY INFORMATION FACT SHEET

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The Fire Control Fabrication, Assembly and System Vehicle Integration High Bay Facility is capable of accommodating a broad array of weapon systems for system-level integration and testing of fire control components and subsystems.

TECHNOLOGY/FACILITY DESCRIPTION:

The facility has a floor area of 11,400 square feet with a 50 ft. high ceiling and a 35 ton overhead crane. The facility is accessible by the various weapon systems through a 24 ft. wide by 14 ft. high overhead door. It

is equipped with outdoor radio antennas mounted on the building's rooftop that facilitate communicating with the M577 FDC and various weapon systems throughout the arsenal area to support navigation and other system-level testing. The System Integration Laboratories (SILs), containing a full complement of electrical instrumentation for system interfacing, monitoring and data acquisition during testing, are adjacent to the high bay on both sides. A single rooftop mounted GPS antenna provides a GPS signal that is networked and re-radiated throughout the laboratory, providing GPS capability in the SILs and High Bay area. The hardware and software systems undergoing integration, debugging and testing are typically developed in-house as a new capability or a performance upgrade for a specific system. The facility contains shop tools, overhead lifts and cranes and is heated for year-round, all season work. Systems currently using the facility include the M1064 Mortar Carrier, M577 Fire Direction Center, M777 Lightweight Howitzer and M119 Towed Artillery Systems and the M109A6 Paladin Self-Propelled Howitzer.



EQUIPMENT AND EXPERTISE AVAILABLE:

- M95/M96 Mortar Fire Control System - Heavy (MFCS-H)
- M32 Lightweight Handheld Mortar Ballistic Computer (LHMBBC)
- M150/M151 Dismounted 120 MM Mortar Fire Control System
- M152 Portable Excalibur Fire Control System
- Outdoor radio antennas
- Rooftop mounted GPS antenna
- Shop tools
- Overhead lifts
- Cranes
- M1064 Mortar Carrier
- M577 Fire Direction Center
- Fox NBC Defense Vehicle
- M777 Lightweight Howitzer and M119 Towed Artillery Systems
- M109A7 (PIM) 155mm Self-Propelled Howitzer
- M109A6 Paladin Self-Propelled Howitzer
- Fire Control Research & Development
- Systems Integration Testing
- Formal Qualification Testing
- HW Prototype Testing
- Weapon Fire Control Alignment & Boresighting