



The GHSS is a diagnostic system that is used for fault detection and fault isolation of the M1A1 tank engine and transmission systems. The fuel cart assembly contains the fuel and delivery system to operate the M1A1 turbine engine and transmission while it is in the M1 Tank. The Control Panel is used to start, operate and perform diagnostic tests on the entire FUPP.

First Article Testing (FAT)

The physical size and weight of the GHSS required SSI to coordinate transportation, testing and observation at multiple testing laboratories. Testing was performed at locations in Michigan and California. SSI created and obtained Government approval of the FAT test plan, and procedures. Additionally, the company designed and manufactured the special performance test equipment used during the initial testing (FAT) and production phase of the program. The special test equipment included.

- Fuel Supply and Flow Calibration System for Fuel Supply and the Battery cart
- Calibration and Functional Test Module for Fuel Supply and Battery Cart
- Calibration and Functional Test Module for Power Control Panel
- Circuit Test System and Harness Set for the Power Control Panel

Performance testing before, during and after exposure of the GHSS to the operating environments was performed using the special electrical, electronic, and fuel delivery test equipment designed and qualified by SSI. Testing was witnessed by representatives of the US Government.

