

Stores System Tester

As a part of BAE Systems reconfigurable family of ruggedized flightline testers, the Stores System Test (SST) provides the warfighter with the demonstrated capabilities in an extremely portable package (two-person lift, one-person portable).

The Stores System Tester (SST) harnesses the power of virtual instrumentation in a flightline rugged system. Using enhanced commercial instrumentation software, the user sees real time test results in support of Alternate Mission Equipment (AME) troubleshooting and the control and information for on-the-spot diagnostic analysis. GUI soft panels provide control of each individual instrument.

A modular mechanical design, coupled with the incorporation of an open architecture instrumentation platform, allows the SST to be easily configured for the needs of the user on a specific platform or enhanced as new weapon systems are deployed.

All test results are time stamped and stored with the tail number, Operational Flight Profile Identification (OFP ID), and AME part and serial numbers to establish maintenance accountability.

Demonstrated stores/interface test capability:

- Mature capability
- Leverages existing USAF investment in Stores System Tester
- Repackaged for maximum test flexibility
- Low cost/low risk migration to additional platforms
- Part of BAE Systems family of testers
- Reconfigurable to meet specific platform requirements
- Troubleshoots pylons and launchers both on and off aircraft
- One-person portable
- Graphic User Interface (GUI)
- Real-time test results
- Virtual instrument soft panels for direct instrumentation control
- Multiple test execution options
- Windows XP embedded operating system
- Maximum use of COTS



ENVIRONMENT

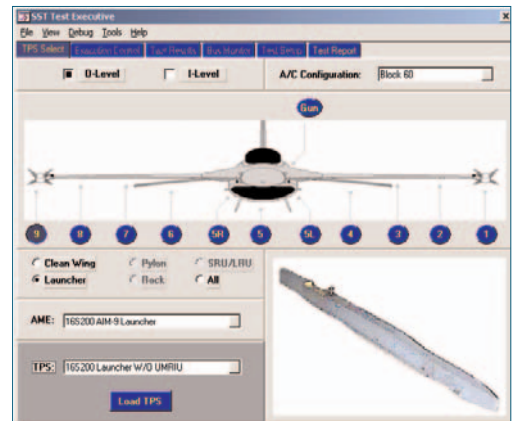
Temperature	Operating: -20°C to 52°C Storage: -20°C to 60°C
Humidity	Operating: 95% ±5%
Altitude	Operating: 8000 ft Non-operating 20,000 ft
Vibration	20 to 1000 Hz @ 0.04 g ² /Hz 1000 to 2000 Hz @ 0.04 g ² /Hz (Non-operating)
Shock	30 g's for 6 to 9 ms duration (Non-operating)
Rain	4 in/hr with 40 mph wind
Salt atmosphere	48 hr exposure
Explosive atmosphere	Operating in ambient-explosive gaseous-mixture
Sand and dust	6 hr operating in 1750 ft/min blowing dust of 0.3g/ft ³
Solar load	104 W/ft ²

DIAGNOSTICS

Wing Weapon Pylon	MRIU
AIM-9 launcher	Jettison RIU
LAU-88A/A	ACRIU
LAU-117	MAU-12 rack
HARM launcher	BRU-57 rack
AMRAAM launcher	SUU-20 dispenser
ALE-50 towed target	Centerline Pylon
Harpoon	PIDS Pylon
Weight	88 lbs max. (two-person lift)
Portable	One person
Growth	4 VME Slots

SST Providing . . . the Right Tools for the Flightline

BAE Systems family of testers are COTS-based, rugged assemblies for the flightline. They are designed to support a wide range of platforms and weapon system interfaces. Current configurations include a stores system tester, a transmission line tester, and the end-to-end EW test configuration of the downsized SRMU. Extensive studies have been performed using over twenty years of flightline test experience, computer modeling and input from the warfighters to create a design that optimally employs mechanical features while minimizing size and weight.



FOR MORE INFORMATION CONTACT:

We Protect Those Who Protect Us®

BAE SYSTEMS
P. O. Box 868, NCA01-5707C
Nashua, NH 03061-0868
Telephone 603-885-6065
Fax 603-885-9068
www.iew.s.na.baesystems.com/esps
Cleared for open publication 10/03