About BAE Systems, Inc.

BAE Systems continues to build successfully on its position as one of the largest, and most geographically diverse, defense and security companies. In the United States, BAE Systems, Inc. is headquartered in Arlington, Va., and led by Jerry DeMuro, President and CEO. The business delivers a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and support services. BAE Systems, Inc. ranks among the top 10 defense contractors and continues to pursue growth opportunities in three market segments: electronic systems, platforms and services. Across these segments, the company enjoys long-term demand, strong customer relationships, as well as key intellectual property — all of which position the business to deliver solid performance. BAE Systems has a proud history of leveraging its global capabilities to deliver the very best products and services for men and women in uniform and those who protect and defend the security of our nations.

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Stores System Tester

BAE Systems Stores System Tester (SST) provides the warfighter with the demonstrated capabilities in a portable 1-person lift package. The Stores System Tester (SST) harnesses the capability 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) and stores station troubleshooting 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 Program Identification (OFP ID), and AME part and serial numbers to establish maintenance traceability.

BAE Systems COTS-based, rugged assemblies for the flightline are designed to support a wide range of platforms and weapon system interfaces. SST has been fielded for over 10 years supporting the entire USAF, and FMS F-16 world-wide fleets. This “community” of SST user’s has continually developed and added new armament test capabilities to the SST. The benefits are cost effective for all SST user’s that are able to leverage these new capabilities. In 2016 the SST is still in production preparing to deliver the 600th unit.

### Environment

<table>
<thead>
<tr>
<th>Environment</th>
<th>MIL-Spec Test and Qualified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Operating: -20°C to 52°C Storage: -20°C to 60°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>Operating: 95% ±5%</td>
</tr>
<tr>
<td>Altitude</td>
<td>Operating: 10,000 ft Non-operating 20,000 ft</td>
</tr>
<tr>
<td>Vibration</td>
<td>20 to 1000 Hz @ 0.04 g/Hz 1000 to 2000 Hz @ 0.04 g/Hz (non-operating)</td>
</tr>
<tr>
<td>Shock</td>
<td>30 g’s for 6 to 9 ms duration (non-operating)</td>
</tr>
<tr>
<td>Rain</td>
<td>4 in/hr with 40 mph wind</td>
</tr>
<tr>
<td>Salt atmosphere</td>
<td>48 hr exposure</td>
</tr>
<tr>
<td>Explosive atmosphere</td>
<td>Operating in ambient-explosive gaseous-mixture</td>
</tr>
<tr>
<td>Sand and dust</td>
<td>6 hr operating in 1750 ft/min blowing dust of 0.3g/ft3</td>
</tr>
<tr>
<td>Solar load</td>
<td>104 W/ft2</td>
</tr>
<tr>
<td>Weight</td>
<td>88 lbs max. (two-person lift)</td>
</tr>
<tr>
<td>Portable</td>
<td>One person</td>
</tr>
<tr>
<td>Growth</td>
<td>4 VME slots</td>
</tr>
</tbody>
</table>

### Demonstrated armament/interface test capability

- Mature capability
- Leverages existing USAF/FMS investment in Stores System Tester development
- Electronic T.O. capable
- Low cost/low risk migration to additional platforms
- Adaptable to meet specific platform requirements
- Troubleshoots pylons and launchers both on and off aircraft
- One-person portable
- Menu-driven graphic user interface (GUI)
- Real-time test results
- Virtual instrument soft panels for direct instrumentation control
- Multiple test execution modes
- Windows embedded operating system
- Maximum use of COTS
- MIL-Spec tested for ruggedness
- Modular Open System Architecture (MOSA)
- Field repairable
- Growth slots available
- Leverages proven, durable flight-line test technology
- Mature and proven hardware and software architectures
- Information Assurance, and Cybersecurity compliance

### SST providing the right tools for the flightline and weapons backshop

BAE Systems COTS-based, rugged assemblies for the flightline are designed to support a wide range of platforms and weapon system interfaces. SST has been fielded for over 10 years supporting the entire USAF, and FMS F-16 world-wide fleets. This “community” of SST user’s has continually developed and added new armament test capabilities to the SST. The benefits are cost effective for all SST user’s that are able to leverage these new capabilities. In 2016 the SST is still in production preparing to deliver the 600th unit.