



ENGINE TEST SYSTEM

The Next Generation Engine Test Solution

The N-GEN™ open-architecture test system can test any turbine engine and can be configured for single engine or multiple engine test facilities. The system can be configured to test engines from different OEM's in the same facility.

The N-GEN software provides complete security for proprietary engine performance data. The customer-specified, engine-specific, proprietary performance data is captured directly into the N-GEN test system where the encapsulated data is translated directly to the test system resources, protecting its integrity.

N-GEN interface software effectively isolates data acquisition/control equipment from the test program sets, so that either can be changed independently of the other allowing for hardware upgrades without costly TPS changes. N-GEN architecture provides users the system interface description which gives them the ability to upgrade or change hardware as their test requirements change.

For facilities that operate in a manual mode, the N-GEN tester provides automated data capture to insure the integrity and repeatability of the data.

Because there are certain predefined test sequences within the engine test market, the user-configurable interface is both fixed and flexible. The User can pre-select certain tests, and/or select additional test parameters, or even actively define new test screens and store them for future activities in the test cell.

Based on Microsoft Windows® and commercial off-the-shelf processors, the testers are seamlessly scalable and upgradeable and use industry standard instrumentation and communications protocols. Existing application software is written in LabVIEW®, but other widely used high-level languages can be used.

If the TPS's change, there is no problem; the User can write the TPS; it is not necessary to come back to us. We offer many support plans and maintenance upgrades, but the support can be done at the User's facility without any input from us. Because the hardware is based on commercial standards and the software interfaces are open to the customer, the customer can choose to maintain both the hardware and the software with their organic staff, third-party providers, or, of course, come back to us.

- ◆ **Flexible**
- ◆ **Reliable**
- ◆ **Secure**
- ◆ **Scalable and Upgradeable**
- ◆ **Instrument-Independent**
- ◆ **Open Architecture**
- ◆ **Open Support Structure**

EADS North America Defense Test & Services has extensive experience in producing test software for many US Military programs including:

- U.S. Navy Jet Engine Test Instrumentation (**JETI**)
- U.S. Navy Shaft Engine Test Instrumentation (**SETI**)
- Air Force Automatic Jet Engine Test System (**AJETS**)
- Air Force Engine Test/Trim Automated System II (**ETTAS II**)
- Air Force Engine Test/Trim Automated System (**ETTAS**)
- Air Force Automated Ground Engine Test Set (**AGETS**)
- Air Force Real-Time Multiple Signal Dynamic Engine Simulator (**RTMSDES**)
- Air Force Turbine Engine Monitoring System (**TEMS**) TPS



EADS North America Defense Test and Services has developed a wide variety of intermediate level and depot level test program sets. We offer existing full featured test programs, user specified test sequences and/or a standard user interface designed for manual operations. Our experience spans the following engines and components:

- F100-100 (F-15/F-16)
- F100-200 (F-15/F-16)
- F101 (B-1B)
- F110-100 (F-16A/B)
- F110-129 (F-16C/D)
- F110-400 (F-14D)
- F118-100 (B-2)
- F404-400 (F-18A/B/C/D)
- F414-400 (F-18E/F)
- J52-408A (EA-6B)
- J57 (B-52-KC-135)
- J60 (T-39)
- J69 (T-37)
- J85 (T-38)
- T56-7/15 (C-130)
- TF30 (F-111)
- TF33 (B-52, C-141, KC-135)
- TF39 (C-5)
- GTC36-200 (F-18E/F) Auxiliary Power Unit
- GTCP36-201 (S3A) Auxiliary Power Unit
- T58-16 (CH-46E/D)
- T58-402 (SH-3H/SH-2G)
- T700-401 (SH-60J)
- T700-401C (AH-1W)
- T64-413A (CH-53D)
- T64-419 (MH-53E)
- CT7-8 (VH-71A)



U.S.Navy Photo by Photographer's Mate Airman Thomas J. Holt

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.



EADS North America Defense Test and Services
 1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com