

Independent Verification & Validation

Avionics Verification Solutions for Aerospace and Defense Programs



Delivering the highest
quality and most cost-
effective IV&V solutions

ENSCO Advantage

For more than 30 years, ENSCO has provided exemplary IV&V solutions, keeping pace with evolving standards to offer customers the latest IV&V advantages.

Customers that rely on ENSCO IV&V include:

- BAE Systems
- BARCO
- Crane Aerospace and Electronics
- GE Aviation
- Goodrich
- Hamilton Sundstrand
- ITT Electronics Systems
- Kollsman
- L-3 Communications
- Lockheed Martin
- Lycoming
- MOOG
- Northrop Grumman
- Pratt & Whitney
- Raytheon
- Rockwell Collins

ENSCO Avionics brings a rigorous approach to Independent Verification & Validation (IV&V) that is driven by precise guidelines. In more than three decades of experience conducting IV&V, ENSCO has developed comprehensive capabilities to customize and streamline the IV&V process, lowering cost by reducing the hours required to reach completion without compromising results.

Critical expertise

ENSCO has more than 30 years of experience in IV&V, and has conducted more than two million hours of formal verification and test. This experience includes verification of most major aircraft systems, engine controls and weapon systems, as well as space shuttle and missile systems. We provide full verification life cycle solutions, encompassing both software and hardware. ENSCO can quickly staff large or small IV&V teams depending on the project needs and critical schedule milestones. Our engineers can design and build integrated test stand solutions to mitigate risk and reduce testing time on high dollar assets.

Highest standards

ENSCO works within military formal safety-critical standards, including:

- DO-178C Level A
- Military Standards
- DO-278/ED-109
- DO-200A
- NATO STANAG 4671



IV&V Activities

TESTS	
Black Box Structural Coverage Module	White Box RBT
REVIEWS	
Requirement Design Code	RBT Traceability
ANALYSES	
Traceability SRC-Object Data/Control/Variable Structural and Requirement Coverage	Memory Usage Timing/Throughout Linker/Stack Calling Tree

ENSCO has refined its processes through its work on military and commercial IV&V programs, including:

- NASA Orion MPCV
- Firebird UAV
- A-10 Thunderbolt II
- AH-64 Apache
- Airborne Warning and Control System (AWACS)
- B-2 Spirit
- B-52 Stratofortress
- E-2C Hawkeye
- F-15 Eagle
- F-16 Fighting Falcon
- F-18 Hornet
- F-35 Joint Strike Fighter (JSF)
- Joint Surveillance Target Attack Radar System (JSTARS)
- U-2 Dragon Lady
- MH-47 Chinook
- Airbus A 350
- Airbus A 380
- Airbus A 400
- Boeing 787 Dreamliner
- Embraer 170/190



Contact ENSCO to discuss your custom IV&V solution.

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