



EA-6B

OPERATIONAL TRAINING SYSTEMS



ICAP II BLOCK 89A DEVICE 2F143 TECHNOLOGY UPGRADE

DEI Services Corporation is proud to support the Naval Air Training System Division (NAVAIR Orlando TSD) by leading the effort to upgrade Device 2F143 SN2, EA-6B Operational Flight/Navigation Trainer (OF/NT), located at the Marine Corps Air Station, Cherry Point, North Carolina.



In July 2006, DEI completed technology upgrade effort by replacing the existing Encore RSX computer, Reflectone Alpha 1 Digital Aural Cueing and Control Loading Systems with PC-Based solutions. In September 2006, DEI was awarded a new Delivery Order to continue Device 2F143 SN2 technology upgrades by upgrading the visual system, to include a new Image Generator System and integrating new projectors into the existing Image Display Subsystem, and enhance the trainer by making it interoperable in a simulated tactical environment on the Tactical Environment Network (TEN).

The upgrades completed in July 2006 included:

- Replacing existing Encore RSX computer with a PC-Based solution. Existing Fortran and Assembly Source Code were relocated to the new PC solution. New Interface Code was written to support new subsystem interfaces for the Aural Cueing and Control Loader Subsystems.
- Replacing existing Reflectone Alpha 1 Digital Aural Cueing hardware system with a PC-Based solution. The new system software was coded to replicate all the aircraft environmental sounds, provided by the Alpha 1, and respond to all applicable aircrew input and environmental changes.
- Replacing existing Reflectone Alpha 1 Control Loading System with a PC-Based solution, as provided by our subcontractor Simulation and Control Technologies (SCT), Inc. The new system was designed to replicate all aspects of Control Loading that was provided by the old system, without degrading the timing and synchronization.
- Providing revisions to existing Engineering and Logistics Documentation to reflect the changes.

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Simulation-Training

Systems Integration (SI) Division



For more information on how our expertise in upgrading operational flight trainers can enhance your readiness, please contact us.



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