

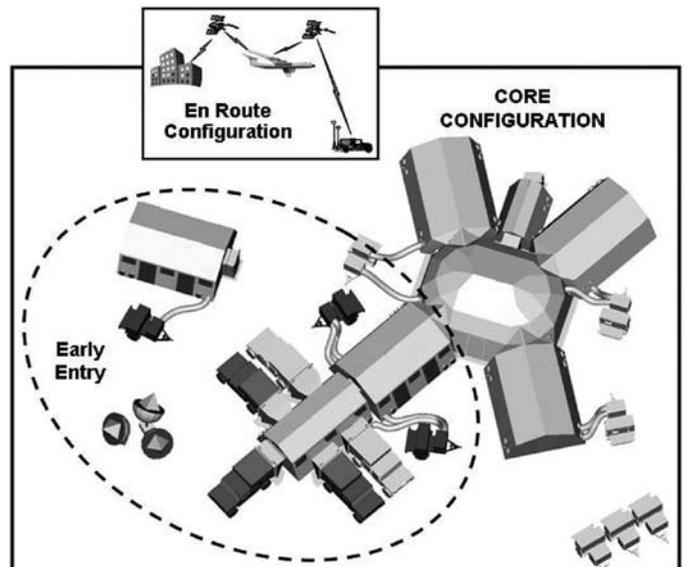
## Deployable Joint Command and Control (DJC2)

### Executive Summary

- The Deployable Joint Command and Control (DJC2) program successfully completed Multi-Service Operational Test and Evaluation (MOT&E) of Increment I, Spiral 1.0 Early Entry and Core configurations in June 2006 to support a Full-Rate Production Decision Review in December 2006.
- DJC2 Spiral 1.0 is assessed as operationally effective, but not operationally suitable by the Navy's Commander, Operational Test and Evaluation Force. Shortfalls in documentation, reliability and additional testing for transportability, environmental effects, and electromagnetic environmental effects not being complete in time for the report contributed to the not suitable rating.
- A risk assessment of the Increment I, Spiral 1.1 design determined that a combined developmental and operational test event (Level 2 test) would be conducted in December 2006 to support a Material Release decision in early 2007.
- DOT&E continues to work with the Joint Program Office to define appropriate levels of testing and test strategies for future spirals of the DJC2 system.

### System

- DJC2 is a deployable integrated family of systems consisting of shelters, generators, environmental controls, information technology, software applications, databases, networks, and communication support systems.
- DJC2 consists of three basic configurations:
  - A 10- to 20-position En Route configuration located on an aircraft
  - A 20- to 40-position Early Entry configuration
  - A 60-position Core configuration
- The Early Entry configuration is integrated with and becomes part of the larger Core configuration.
- For Increment I, selected Combatant Commands will receive two Cores and one En Route system.
- The next development for DJC2 is Spirals 1.1 and 1.2 in Increment I. Spiral 1.2 introduces a two-man deployable Rapid Response Kit configuration for first responders and small control teams that can be carried on commercial aircraft.



### Mission

- The Joint Task Force commander uses DJC2 to plan, control, coordinate, execute, and assess operations across the spectrum of conflict.
- It provides tools and environments for collaborative planning, predictive battlespace situational awareness, dynamic asset synchronization and oversight, and executive battle management and control.
- The En Route configuration allows commanders to maintain situational awareness and perform limited command and control as they transit into the theater of operations.
- The Early Entry configuration allows the command to establish communications and command and control capabilities for a small 20-man forward element immediately upon getting into the theater of operations.
- The Core configuration provides limited communications and command and control capabilities to support planning and execution tasks performed by the Standing Joint Force Headquarters staff or Joint Task Force commander.

### Activity

- The Navy's Commander, Operational Test and Evaluation Force completed the operational assessment of the Increment I, Spiral 1.0 Early Entry and Core configurations in March 2006 at the Joint Forces Command, Suffolk, Virginia, during U.S. Southern Command Exercise Blue Advance 2006.
- The U.S. Southern Command Standing Joint Force Headquarters and the 612th Air Communications Squadron

supported the multi-Service operational test of the Increment I, Spiral 1.0 Early Entry and Core configurations conducted in June 2006 at Davis-Monthan Air Force Base, Arizona.

- Environmental qualification testing, transportability certification testing, and portions of the electromagnetic environmental effects testing of the DJC2 Increment I, Spiral 1.0 were conducted from July - October 2006.

# NAVY PROGRAMS

- Risk assessment determined the level of testing needed for Increment I, Spiral 1.1 as a combined developmental and operational test event, referred to as a Level 2 test. Testing is scheduled for December 2006.
- The DJC2 Joint Program Office moved testing and delivery of the En Route configuration to a later spiral in Increment I due to delays in the Secure En Route Communications Package – Improved (SECOMP-I) program. Testing the DJC2 En Route configuration depends upon delivery of the Army’s SECOMP-I program.

## Assessment

- The DJC2 Increment I, Spiral 1.0 demonstrated significant progress in resolving issues with training, communications, and logistics supportability that contributed to system de-certification for operational testing in the September 2005 MOT&E.
- The DJC2 Increment I, Spiral 1.0 successfully completed an operational assessment and the MOT&E this fiscal year to support the full-rate production decision in December 2006.
- The DJC2 supported the Standing Joint Force Headquarter operations using the Early Entry and Core configurations.
- The testing was adequate to determine that DJC2 is operationally effective, but not operationally suitable. Findings affecting the suitability assessment were documentation of preventive maintenance procedures, troubleshooting procedures, and installation of the secure Global Broadcast System; maintenance and reliability of generators; and system design issues in the areas of satellite signal strength monitoring and grounding.
- Environmental testing, conducted by the Air Force’s 46th Test Squadron subsequent to the MOT&E, identified issues with snow loading and operating in extreme temperatures that require additional design work and documentation updates.

The generators have challenges operating in extremely hot and cold temperatures.

- Various transportability tests, to include rail impact, conducted by the Army at Aberdeen Proving Grounds, Maryland, have identified no significant issues to date. The Program Office is expecting a transportability certification from the Surface Deployment and Distribution Command, Transportation Engineering Agency.
- A portion of the electromagnetic environmental effects testing was conducted in September at the Joint Pre-Flight Integration of Munitions and Electronic Systems test facility at Eglin Air Force Base, Florida. The remaining testing is scheduled for spring 2007. No significant problems were noted during the operational tests completed in 2006.
- The DJC2 program is implementing the DOT&E risk assessment methodology to identify appropriate levels of testing to support acquisition decisions of future spirals beginning with Increment I, Spiral 1.1.

## Recommendations

- Status of Previous Recommendations. The Joint Program Office took effective action on the FY05 DOT&E recommendation and identified appropriate test venues for the operational assessment and the multi-Service operational test events. Planning for testing of future spirals and the En Route configuration is a continuing process.
- FY06 Recommendations. The Joint Program Office should:
  1. Continue application of the risk assessment process to determine appropriate levels of testing for all remaining DJC2 Increment I spirals.
  2. Complete electromagnetic environmental effects testing.
  3. Conduct an assessment of the existing generators and determine if they should be replaced.