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CANES Program Successfully Completes Key Engineering Milestone

SAN DIEGO – The Consolidated Afloat Networks and Enterprise Services (CANES) program recently completed a key milestone with completion of Preliminary Design Reviews (PDR) for the two competing CANES systems being developed by Northrop Grumman Information Systems and Lockheed Martin Mission Systems and Sensors.

CANES is the consolidation and enhancement of five shipboard legacy network programs and will provide the common computing environment infrastructure for C4I applications that currently require system specific infrastructure to operate legacy systems.

Consolidation through CANES will eliminate many legacy, standalone networks while providing an adaptable and responsive information technology platform to rapidly meet changing warfighter requirements. This strategy strengthens network infrastructure, reduces hardware footprints and decreases total ownership costs. In addition to greater capability, Sailors will benefit by reduced workload, increased security and common equipment, training and logistics.

“System Development PDR is the most significant milestone to date for the CANES program,” said Navy Capt. D.J. LeGoff, program manager for the Tactical Networks Program Office (PMW 160). “Now that PDR has been completed on schedule, the government team is poised to move forward into detailed engineering design and making the CANES program a reality.”

The CANES PDR assessed each system’s architectural design as expressed by the allocated baseline. Successful completion of the PDR indicates that the system design is sufficiently mature to proceed into detailed design and that it can meet the stated performance requirements within cost, schedule, risk and other system constraints.

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The next step in the program's Engineering and Manufacturing Development phase is completion of a Critical Design Review (CDR). CDR will assess the maturity of the further detailed design with an emphasis on system hosting, scalability and modularity; minimization of space, weight and power; minimization of manpower and training; and minimization of system variation.

According to LeGoff, "Defining the requirements and design correctly during this crucial Engineering and Manufacturing Development phase of the program will significantly reduce the time, effort and cost associated with delivering this enhanced capability to the warfighter."

The Navy is seeking to fundamentally meet the demands of warfighters by improving command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) capabilities through flexible, efficient and cost-effective technology improvements. CANES is a core component of the C4ISR improvement initiative.

It will provide a core set of highly survivable, secure network services for surface ships, submarines and Maritime Operations Centers ashore. In addition to C4I applications, CANES will centrally host voice, video and data services for afloat platforms and designated operational shore elements. CANES will take advantage of the new business model of open architecture, Afloat Core Services and rapid commercial off the shelf insertion to deliver fiscal savings to the Navy and operational agility to warfighters.

About PEO C4I
http://www.peoc4i.navy.mil

Headquartered on the Old Town Campus of the Space and Naval Warfare Systems Command in San Diego, Calif., the mission of the Navy's Program Executive Office for C4I is to provide integrated communication and information technology systems to enable the command and control of maritime forces. PEO C4I acquires, fields, and supports C4I systems that extend across Navy, joint and coalition platforms. This includes managing acquisition programs and projects that cover all C4I disciplines: applications, networks, communications, intelligence and surveillance, and reconnaissance systems for afloat platforms and shore commands. Supported by Team SPAWAR and industry partners, PEO C4I annually completes more than 2,000 C4I installations to fleet and coalition customers.

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