

Supplemental Weather Radar (SWR)

PROGRAM/PROJECT: Supplemental Weather Radar (SWR)

LEAD AGENCY: United States Navy (USN - Office of the Oceanographer of the Navy (CNO N096))

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SERVICE AREA (S)/INITIATIVE (S)

- ***National Aviation Weather Initiatives:***
2: 5, 9

FUNDING

- ***Programmed/Planned (\$'s/FY):*** Funded through FY05

TYPE OF PROGRAM/APPLICATION

Product Improvement

SCOPE OF PROGRAM/PROJECT

- ***What's being developed, procured, etc:*** The AN/FPS-131 Meteorological Data Radar Set (or Supplemental Weather Radar; SWR) is a shore station Doppler weather radar. The SWR provides real-time surveillance and advanced warning of potentially severe weather systems. A total of 10 SWRs have been procured and installed. Pre-Planned Product Improvements (P³I) scheduled include: replacement of the aging Enterprise Doppler Graphics Environment (EDGE) workstation, purchase of additional end products for users and replacement of select telecom equipment.
- ***How operations will be changed/improved:*** SWR is designed for use by Department of Navy facilities that lie outside the umbrella of, or require an alternative to, the Next Generation Radar (NEXRAD; WSR-88D). Upgrades are required due to parts obsolescence and will improve maintainability of the system.

PROGRAM/PROJECT MANAGEMENT

- ***Basic guidance document for this program: Requirements Document:*** CNO Mission Needs Statement (MNS) M041-096-93 of 1 Oct 93. Operational Requirements Document (ORD) 431-096-96 of 12 Mar 96.
- ***Program/Project verification process:*** This program has received milestone III production decision in 1997 and Full Operational Capability (FOC) was completed in Aug 2002.
- ***Method used for end product validation:*** Factory and Site Acceptance Testing (FAT and SAT) is conducted for each production system delivered.
- ***Operational training for the user:*** The contractor provided both hands-on and textual initial training during installation. Factory training is available on a cost-reimbursement basis.

SCHEDULE/IMPLEMENTATION

- ***Next major program milestone:*** The program is at FOC and post-production support is ongoing. EDGE workstation replacement will be complete by FY05.
- ***Program becomes operational:*** SWR is an operational system.
- ***Plans for further improvements:*** Replacement of the analog Radar Control Processor (RCP) with a digital RCP is planned for FY06-FY07.