

Open Principal User Processor (OPUP)

PROGRAM/PROJECT: Next Generation Radar (NEXRAD) Open Principal User Processor (OPUP)

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

LEAD AGENCY POINT OF CONTACT: CDR Cory Springer, CNO N962C, 202-762-0260,
cory.springer@navy.mil

PROGRAM POINT OF CONTACT: CAPT Robert L. Clark, PEO C4I & Space, Operational Effects Program,
(PMW150), 619-524-7700, robert.l.clark@navy.mil; Mr. Tim Kimbrell, SPAWARSYSCEN CHAS J315, 843-218-
5813, Tim.kimbrell@navy.mil

SERVICE AREA (S)/INITIATIVE (S)

- ***National Aviation Weather Initiatives:***
N/A

FUNDING

Programmed/Planned (\$'s/FY): Funded through FY04

TYPE OF PROGRAM/APPLICATION

Product Improvement

SCOPE OF PROGRAM/PROJECT

- ***What's being developed, procured, etc:*** replacement of the WSR-88D Principal User Processor(PUP) at Navy and Marine Corps air stations.
- ***How operations will be changed/improved:*** an improved graphical user interface and a capability to provide two dedicated connections from a common workstation and one dial-up connection to other radars in the national Doppler weather radar network.

PROGRAM/PROJECT MANAGEMENT

- ***Basic guidance document for this program:*** Requirements for this upgrade are documented in the SPAWAR Engineering Change Proposal N65236-315-0301 based upon NWS ECP 0163.
- ***Program/Project verification process:*** Spiral development acquisition strategy through the Air Force Weather Agency as lead DOD agency. This includes Developmental Test and Evaluation, System Testing, and Field Testing.
- ***Method used for end product validation:*** NWS Radar Operations Center (ROC) will evaluate system performance against specified requirements under Air Force management. Validation systems were placed at two Navy sites.
- ***Operational training for the user:*** Hands-on and text training are provided as well as on-site instruction during installation.

SCHEDULE/IMPLEMENTATION

- ***Next major program milestone:*** Complete the Network Risk Assessment in October 2003.
- ***Program becomes operational:*** Deployment of Navy and Air Force units is planned during the November 2003 to July 2004 timeframe.
- ***Plans for further improvements:*** Investigate feasibility of transitioning to the Linux Operating System.