

# Sonobuoy Liaison Working Group



Program Executive Office, Air ASW, Assault  
and Special Mission (PEOASWASM)  
programs (PMA-264)

03 – 05 December 2002

# SLWG Agenda

(Gov Only until after Lunch)

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- **04 Dec 2002**

- **0830: Convene** <NAME> (NSWCC)
- **0840: Action Item Review** <NAME>
- **0900: Program Brief** <NAME> (PMA-264)
- **1000: Break** & <NAME> (PMA-264B)
- **1015: Logistics / Inventory** <NAME> (NSWCC)
- **1115: Lunch**
- **1230: SMWG Review** <NAME> (NSWCC)
- **1330: Break**
- **1345: COMPATRECOFORPAC** <NAME>
- **1400: NALC Fleet Support** <NAME> (NALC)
- **Review / Discussion**

# SLWG Agenda

## Open Session

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- **05 Dec 2002**
  - **0800: Convene** <NAME> (NSWCC)
  - **0810: Action Item Review** <NAME>
  - **0815: NALC OIS Brief** <NAME> (NALC)
  - **0845: Break**
  - **0900: New Sensors Brief** <NAME> (NSWCC)
  - **0930: Break**
  - **0945: Ordnance Metrics Assessment** <NAME> (NALC)
  - **1000: ROLMS NAR Compliance** <NAME> (NSWCC)
  - **1045: Action Item Review** <NAME>
  - **1100: Adjourn**

# SLWG Charter

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- Chartered to coordinate and review technical, logistics, and inventory management issues regarding sonobuoys. Scope includes, but not limited to:
  - Inventory requirements and issues re: NNOR, NCER, NCEA;
  - Resolution of inventory management problems;
  - Review technical initiatives and ECP's to assess impact on Fleet operations and stockpiles;
  - Assess impact of sonobuoy changes to ASW aircraft, TSC, ASWM, trainers and logistics support; and
  - Recommend changes to production plans, inventory management processes, and logistics support which will increase the efficiency and effectiveness of the sonobuoy program.

# SLWG Membership

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- PMA-264 Program Management Co-Chair \*
- N780E OPNAV Co-Chair \*
- NSWCC Logistics Member \*
- NALC Inventory Management Member \*
- CLF, CPF & CNE FLTCOM Interface Members \*
- CNAL & CNAP Fleet Air Interface Members \*
- CPRFP & CPRFL VP Fleet Interface Members \*
- CHSWP & CHSWL HS Fleet Interface Members
- CHSLWL & CHSLWP HSL Fleet Interface Members
- + Others as invited (PM's, SPAWAR, etc)
- **Members Responsibilities:** Provide representation at the policy making level; present emergent concerns for action; research issues and prepare technical positions with supporting data; provide position of represented group during discussions and voting; review and provide inputs to meeting minutes.
- \* Executive Committee members.

# Review of Action Items



**<NAME>**

Assistant Program Manager for Logistics  
Crane Division, Naval Surface Warfare Center

# Action Item Review

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- ITEM 98-03: CAIMS / ATR Process
  - Executive Committee: Errors in CAIMS directly affects procurement
    - Garbage in - Garbage out
    - ROLMS reporting difficulties
    - Little faith in CAIMS inventory numbers
    - Expenditures not reported
    - Need for World-Wide Inventory?
  - Assigned to PMA264, NALC, NSWCC
  - Status Fall 2002: **ONGOING**: Crane Sonobuoy Management Review  
Team chartered by CAIMS/ATR Working Subcommittee to reconcile Fleet activities in CAIMS and establish effective ROLMS reporting. Assist visits / monitoring continue through FY 03. MFST fielded & implemented.
  - Considered a stable process & AI will be **CLOSED** with this brief.

# Action Item Review

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- ITEM 00-02: Load Plan Scrub
  - CNAL: Total aggregate shore/ship load plans for each sonobuoy type do not reflect current total Navy Non Nuclear Ordnance Requirements (NNOR) nor are they supportable by the current inventory.
  - Assigned to CPF, CLF, TYCOM's
  - Status: **OPEN**: Discussion of this issue was held at a meeting of the Executive Committee of the SLWG in November 2000 at NSWC Crane.
  - Closing Status: **ONGOING**: Discussed at Spring 02 session. CNAL completed draft scrub of Load Plans. Discussion of issue to be held at Fall 2002 Executive Session.

# Action Item Review

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- ITEM 01-01: Arabian Gulf RFI
  - USS HAWES 290815Z SEP 00: Recently completed ASWEX in Arabian Gulf revealed RFI for all DIFAR sonobuoy RF's due cellular phones.
    - Filter out or otherwise solve RFI problem in Arabian Gulf due cell phones
  - Assigned to PMA-264/FAST
  - Status: **OPEN:**
  - Closing Status: **ONGOING:** World-wide RFI survey being conducted now. Will be briefed when complete.

# Action Item Review

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- ITEM 01-11: Sonobuoys to Ordnance vice Supply
  - NALC: Evaluate & make recommendations for moving sonobuoys from DLA management to Ordnance/Weapons management.
    - Management of sonobuoys by DLA ineffective
    - Management as an ordnance item in the Ordnance Community preferable
    - Form an IPT to evaluate and make recommendation to Ordnance Community for transition of DLA management to Ordnance Management of 8U & 2E sonobuoys
  - Assigned to: SMWG Committee
  - Status: : **OPEN / Executive Committee Item**
  - Closing Status: **ONGOING**: APML formed WG to evaluate Action Item suggestion and made recommendation to the NORIP in August 2002. Possibility of moving sonobuoys to Supply Management under review at NORIP – to be discussed at this meeting.

# Action Item Review

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- ITEM 02-01: CAIMS Processing
  - NSWC 6074: In April 02 ammunition transaction reports (ATR's) were processed twice for a period of several days. In May 02 the Crane team discovered that transactions submitted to clear intransits were not clearing the intransits though the CAIMS account was adjusted by the transactions.
    - Some duplicate transactions from the April incident still reflected in CAIMS
    - Failure to clear intransits with transactions
    - Both cases inflate the CAIMS inventory
    - Duplicate transactions must be resolved; software error that leaves intransits after transactions are processed must be identified and corrected
  - Assigned to: NAVAMMOLOGCEN
  - Status: **CLOSED**
  - Closing Status: NALC programmers researched and corrected all duplicated line item discovered. Some minor line items may still exist and will be addressed individually by NALC technicians when discovered

# Action Item Review

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- ITEM 02-02: SSQ-53F (8W88) and Shipfill Allowance
  - NSWC 6074: The AN/SSQ-53F (NALC 8W88) has the capability of doing the calibrated omni (LOFAR) function of the AN/SSQ-57B (NALC 8W73).
    - Some shipfill allowances still have 8W73, SSQ-57B's
    - SSQ-53F design allows both jobs in a single buoy
    - SSQ-57 allowance should be struck
    - SSQ-53 allowance should remain the same and ship's filled with (all or some) 8W88's to cover the mission
  - Assigned to: CPF, CLF, AMMO's
  - Status:**CLOSED**
  - Closing Status: AMMOPAC has removed Q57B and replaced with Q53 (8W88) in the same quantity. CLF removed Q57B from the requirement

# Action Item Review

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- ITEM 02-03: Sonobuoy Management Board
  - PMA-264: With reduced physical assets it is important that Fleet requirements are periodically scrubbed so that distribution of stock can support the requirement. A formal process is required.
    - Review NNOR/NCEA Requirement
    - Review Sonobuoy production plan
    - Review Current Status (shelf life)
    - Determine Sonobuoy Distribution Plan
      - Exercises
      - Operations
      - Reserve
    - When: NCEA timeline / SLWG
  - Assigned to: CPF/CLF/NSWC/NALC/AMMO's
  - Status: **OPEN**
  - Closing Status: Pending, discussed at Executive Committee meeting.

# Action Item Review

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- ITEM 02-04: Mid-Year NCEA Review Process
  - CNAL: The mid-year NCEA review process does not work
    - Time intensive
    - Not user-friendly re timeline. Time for review from start to finish is approximately 6-7 weeks
    - OPNAV bases mid-year augment decisions on end-of-February expenditure data
    - CNAL Suggests doing away with the current system:
      - Submit augment requests as required for action
      - Give total allocation to FLTCOM's at the beginning of the year
      - Only augment is unscheduled real-world events occur
  - Assigned to: OPNAV Resource Sponsor
  - Status: **CLOSED**
  - Closing Status: Per Commanders conference the mid-year review will continue IOT factor in exercises and up coming operations. N78 has agreed to turn around any augment request with 48 to 72 hours

# Action Item Review

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- ITEM 02-05: Marine Mammal Mitigation (MMM) with ADAR
  - VX-1: During IEER search phase the flight crews must screen pattern for marine mammals
    - SSQ-53 & SSQ-77 only buoys capable of narrow-band processing & MMM
    - ADAR buoy cannot be used for mitigation
    - This requires an SSQ-53 or SSQ-77 on each post in the pattern for MMM
      - NNOR must be adjusted to reflect this requirement or the SSQ-101 must be redesigned to support MMM
  - Assigned to: OPNAV / PMA-264
  - Status: **OPEN** CLF: Additional SSQ-53/77 sonobuoys required for MMM when deploying SSQ-101 for peacetime training, exercises, and operations need to be factored into resource requirements for applicable CNAF TRM events and included in annual submission of TTCOR. The NNOR Total Munitions Requirement would include sonobuoys for MMM under TTR 9 (Training and Testing Requirement). NNOR combat expenditures when using IEER tactics should not have to be adjusted for MMM. Unless it is addressed under the International Law for Armed Conflict, would assume that concern for marine mammals would not be an issue during major combat operations.
  - Closing Status: **OPEN**: Engineers are looking into the possibility of increasing the ADAR freq spectrum to mitigate the necessity for dropping a 53 or 77. A test will be conducted in the late Nov/Dec timeframe with an answer sometime in the Spring 2003 SLWG.

# Action Item Review

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- ITEM 02-06: Impact on NCEA & BT Ops due loss of SSQ-57B
  - CPRFL: Loss of SSQ-57B was not reflected in an increase in the SSQ-53 allocation to support BT events
    - BT uses a percentage of DIFAR allocation for calibrated LOFAR events. These expenditures are reflected against the DIFAR allocation.
    - Loss of the SSQ-57 was not compensated for with a matching plus-up of SSQ-53 allocation (8W88)
    - Resulted in a net loss of allocation for the same requirement as existed before loss of the SSQ-57B
      - NCEA must be adjusted with an increase of SSQ-53 (8W88) sonobuoys for support of BT events.
  - Assigned to: OPNAV Resource Sponsor
  - Status: **OPEN**
  - Closing Status: **OPEN**. Total NCEA Delta (Q53+Q57) for FY-03 is 5,404 units from FY-02. OPNAV recommends waiting to see if fleet usage of 53's is increased through FY-03.

# Action Item Review

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- ITEM 02-07: ROLMS PC for MCAF Kaneohe Bay
  - MALS-24: MCAF Kaneohe Bay (MALS-24) is the host reporter for CPRFP. The ROLMS computer in this office has not been replaced since before the closing of NAS Barbers Point. The current PC is unsuitable for current versions of ROLMS AIT.
    - Neither MCAF nor CPRFP can procure new computer
    - They are on their last legs and will eventually malfunction (die)
    - Request a new computer for MALS-24 ROLMS support of CPRFP
  - Assigned to: NSWCC / CPRFP / CNAP
  - Status: AOC Yorktown provided a new ROLMS AIT computer for MCAF Kaneohe Bay. Thanks to **<NAME>** and AOC for the support.
  - Closing Status: **CLOSED**

# New Action Items



**<NAME>**

Assistant Program Manager for Logistics  
Crane Division, Naval Surface Warfare Center

# New Action Items

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- ITEM 02-08: CDC codes & NAR's
  - NSWCC: NAVSUP P-805 requires Condition Defect Codes when reclassifying sonobuoys from CC 'A' to any other CC. ROLMS V7.0 & V8.0 require CDC entry when changing condition from A to any other condition
    - Confusion for some sonobuoy reporters
    - Confusing guidance in P-805
    - Recommend that NALC include applicable CDC codes in future Notices of Ammunition Reclassification (NAR's) for sonobuoys (& other ordnance?)
    - Sonobuoy NAR's are almost always for expiration of service life
  - Assigned to: NALC
  - Status: **DISCUSSION:**
  - Closing Status:

# New Action Items

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- ITEM 02-09: CDC codes & ROLMS AIT
  - NSWCC: NAVSUP P-805 requires Condition Defect Codes when reclassifying sonobuoys from CC 'A' to any other CC. ROLMS V7.0 & V8.0 require CDC entry when changing condition from A to any other condition. ROLMS software does not currently support CDC codes with AIT
    - AIT scanner cannot scan CDC code during inventory or restow
    - CDC is matching criteria on AIT inventory or restow
    - 2D Bar Codes do not include CDC code
    - Recommend ROLMS AIT software be changed to include CDC codes in 2<sup>nd</sup> 2D bar code (ALN) and scanner software be changed to read CDC code when required
    - Failing this, recommend CDC code requirement for 8U COG sonobuoys be removed from the NAVSUP P-805
  - Assigned to: NALC
  - Status: **DISCUSSION:**
  - Closing Status:



# Air ASW Systems Program Status



<NAME>, PMA-264

<NAME>, PMA-264B



# PMA 264 Programs



- **Large Area Search**
  - **Passive Sonobuoys (DIFAR/VLAD)**
  - **Multi-Static Active Sensors (EER/IEER/**AEER**)**
  - *<SEE SECURE SERVER>*
- **Localization/Track**
  - **Passive/Active Sonobuoys (DIFAR/DICASS)**
  - *<SEE SECURE SERVER>*
  - *<SEE SECURE SERVER>*
  - *<SEE SECURE SERVER>*
- **Attack**
  - *<SEE SECURE SERVER>*
- **Support**
  - *<SEE SECURE SERVER>*



# Air ASW Warfighting Capability



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# Challenge



- Air ASW
  - Active Multi-Static Search
  - Shallow water tactics
  - Increase Proficiency
- Acquisition:
  - Develop better Acoustic/Non-Acoustic sensors
  - Deliver fully supportable systems



# Program Milestones/Schedules



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FY02

# Key Program Accomplishments



Production Sonobuoys

Delivered 76,811 sonobuoys

EER Family

Continued IEER 78A Dev Test

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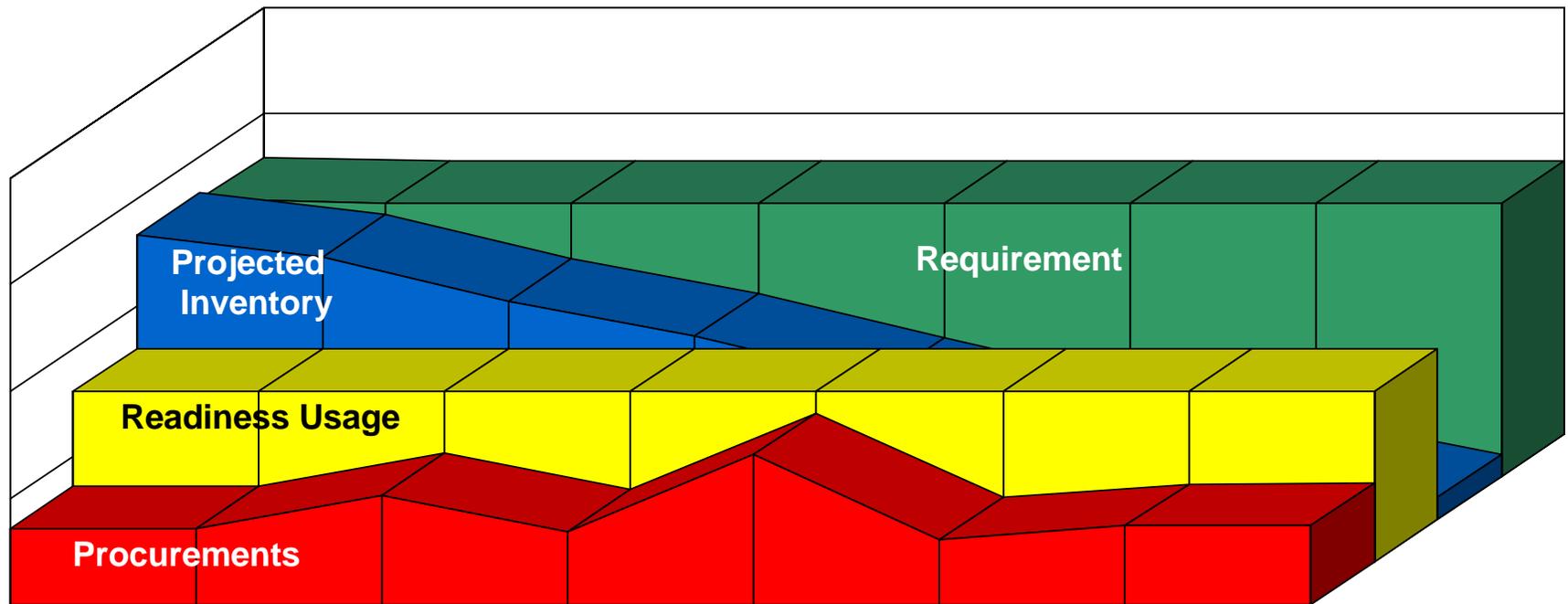
# Production Sonobuoys

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# Production Sonobuoys

## FY04 Impacts

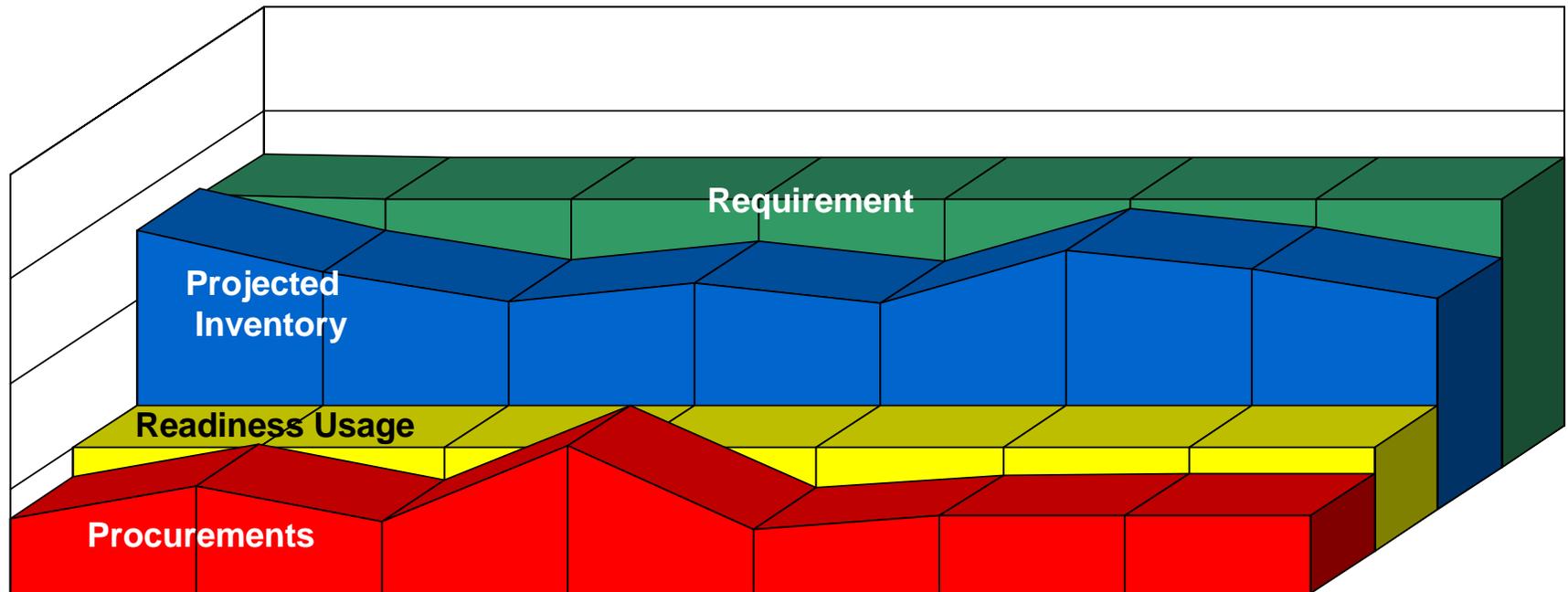


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# Historical TTR

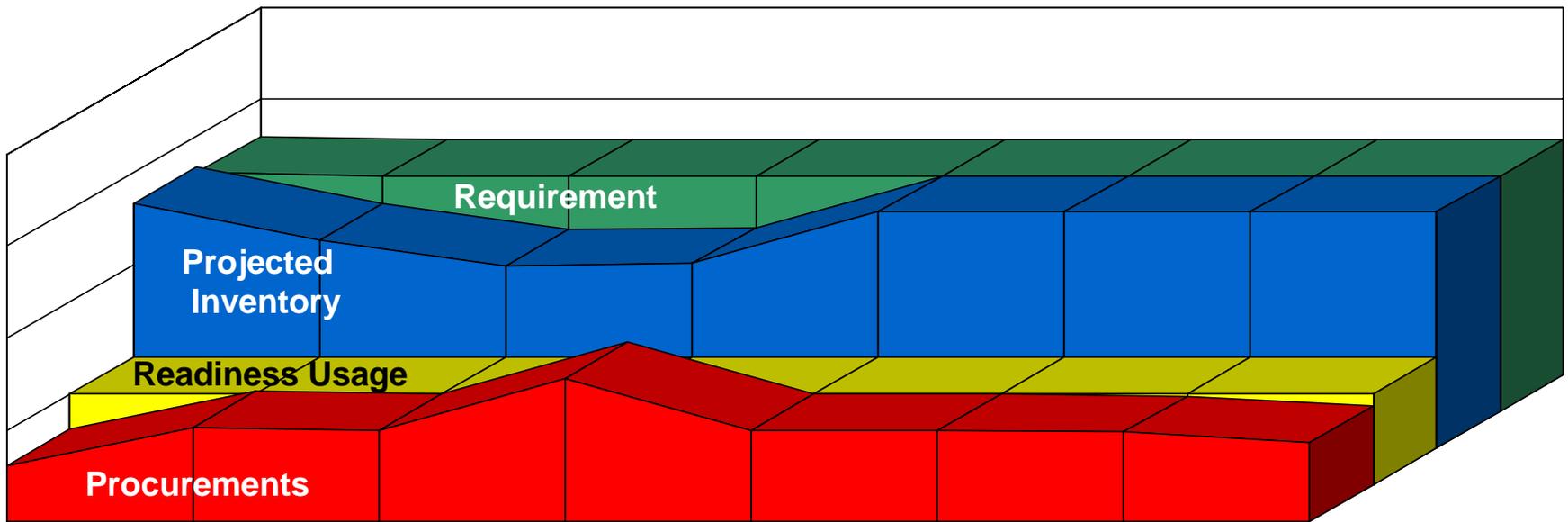


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# Fund FY05 Shortfall (\$)



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# **EER Family**

## **Multi-Static ASW Sensor System**

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# POM-04 Impacts



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# Summary



- **Programs of Record on Track**
  - Delivering Value-Added Products to the Fleet
- **Health of Air ASW**
  - CTF84/N74 Assessments
- **Investment Required to Restore Fleet ASW Capability**
  - Ready to Begin Now
  - Return on Investment
    - Increased Capability
    - Reduced Dependency on Expendables
      - Training (NCEA)
      - Combat Requirement

# NCEA Execution & Inventory Projections FY03-FY09



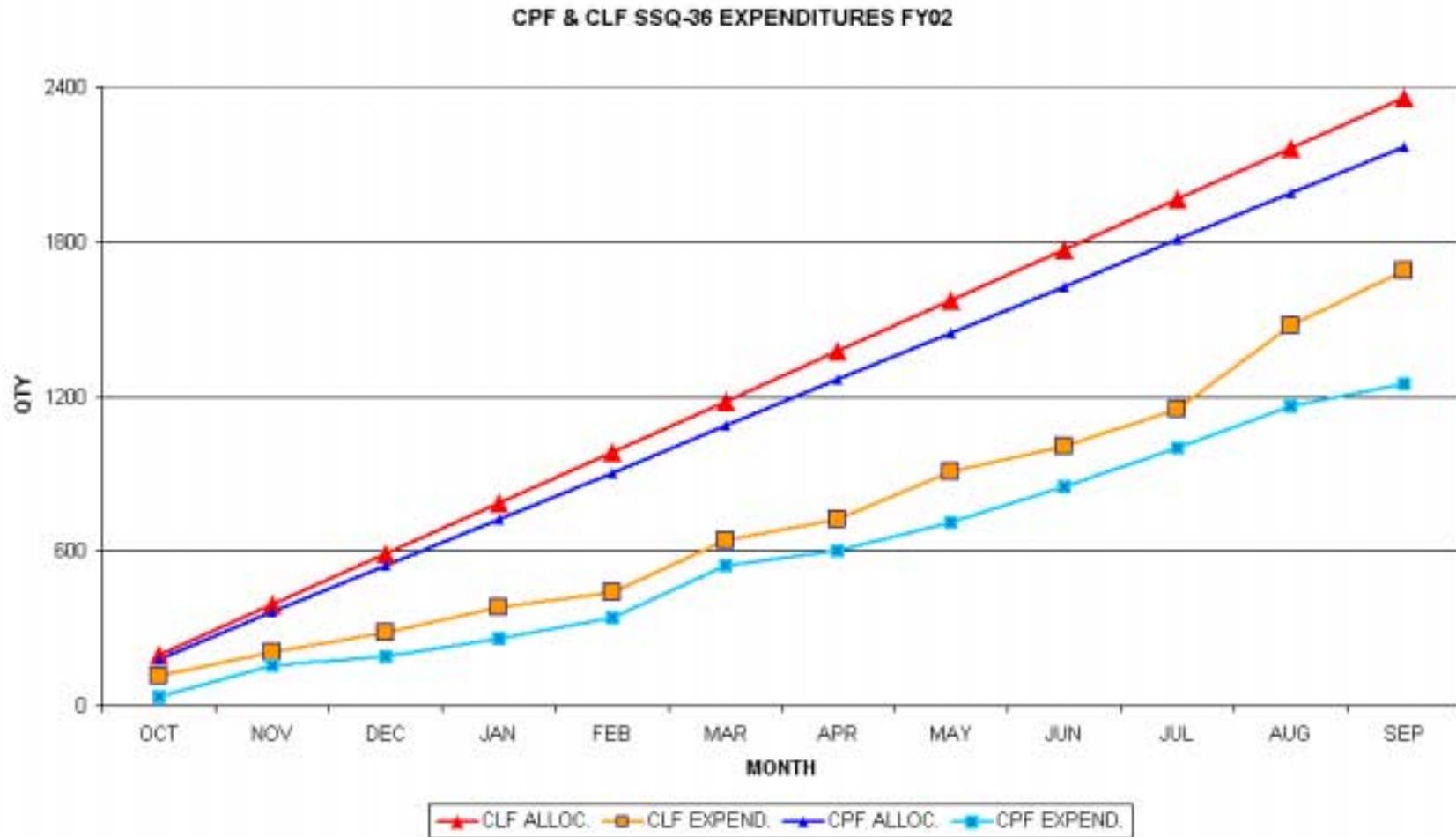
Crane Division,  
Naval Surface Warfare Center  
<NAME>

# NCEA Tracking

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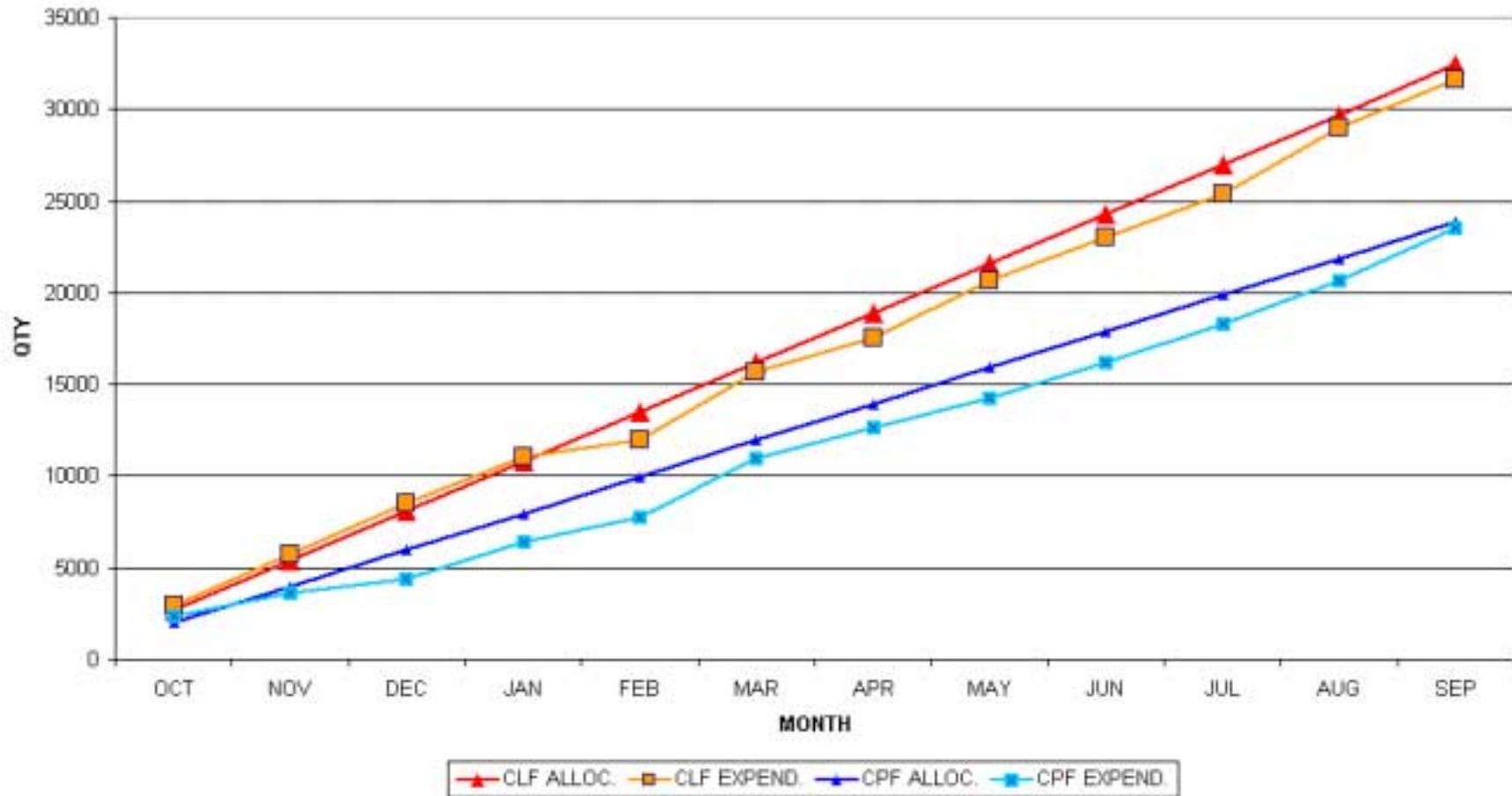
- Crane Logistics Team receives and tracks ATR's from Fleet sonobuoy users
  - Maintain expenditure tracking data against NCEA
    - PACFLT & LANTFLT Major Claimancies
    - Other claimancies
  - Liaison with ROLMS operators
    - Detect & correct erroneous reporting practices as occur
    - Praise correct reporting practices
  - Liaison with Fleet Managers
    - Provide 'Ground Truth' (from the ATR) expenditure data
    - Advise if under-executing or over-expending
  - Report to Program Manager
    - OPNAV
    - PMA-264
  - Liaison with NALC IM
    - Resolve differences in ATR vs monthly Major Claimant Roll-Up

# SSQ-36 Expenditures FY-02: CPF & CLF

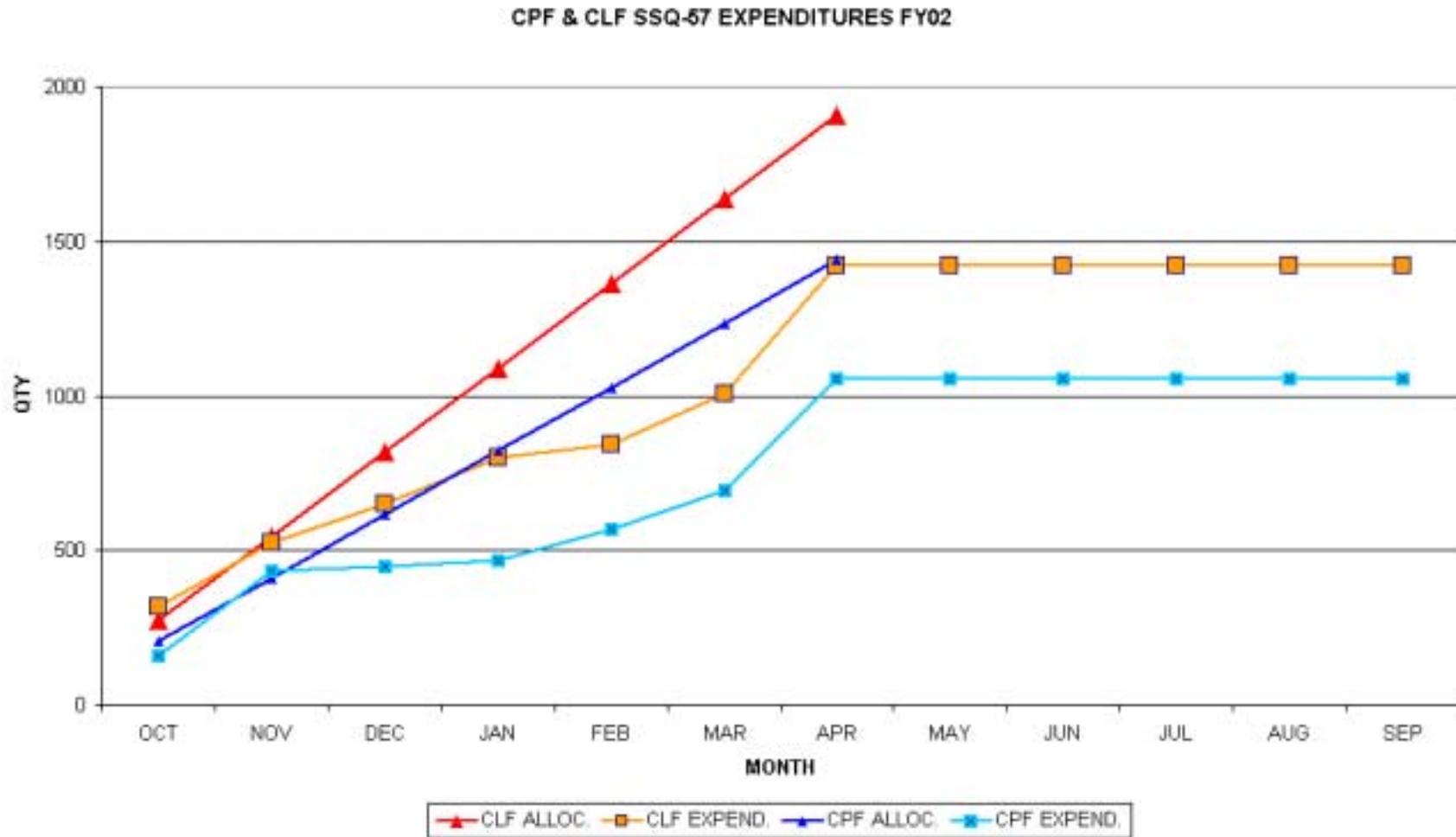


# SSQ-53 Expenditures FY-02: CPF & CLF

CPF & CLF SSQ-53 EXPENDITURES FY02

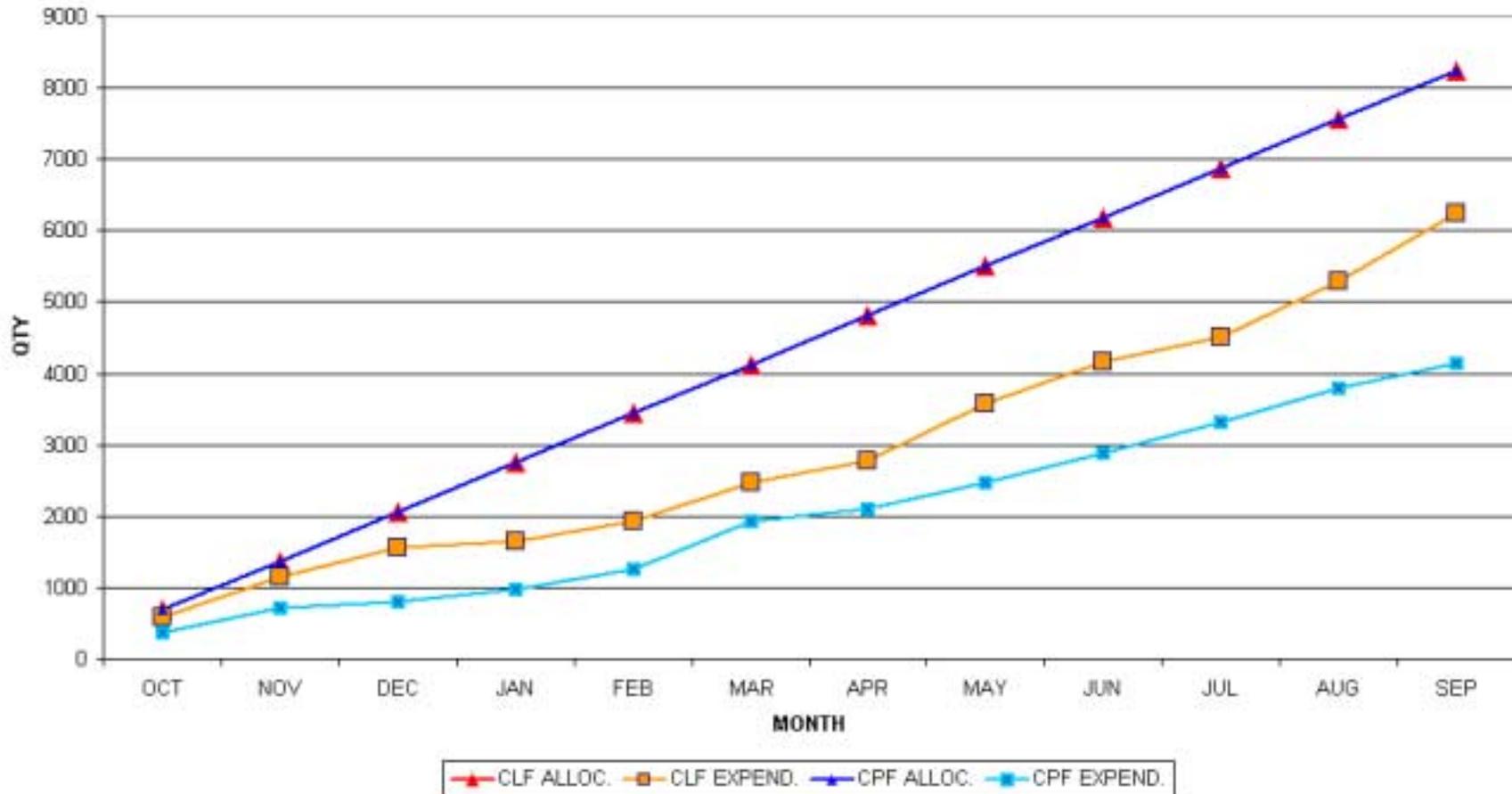


# SSQ-57 Expenditures FY-02: CPF & CLF



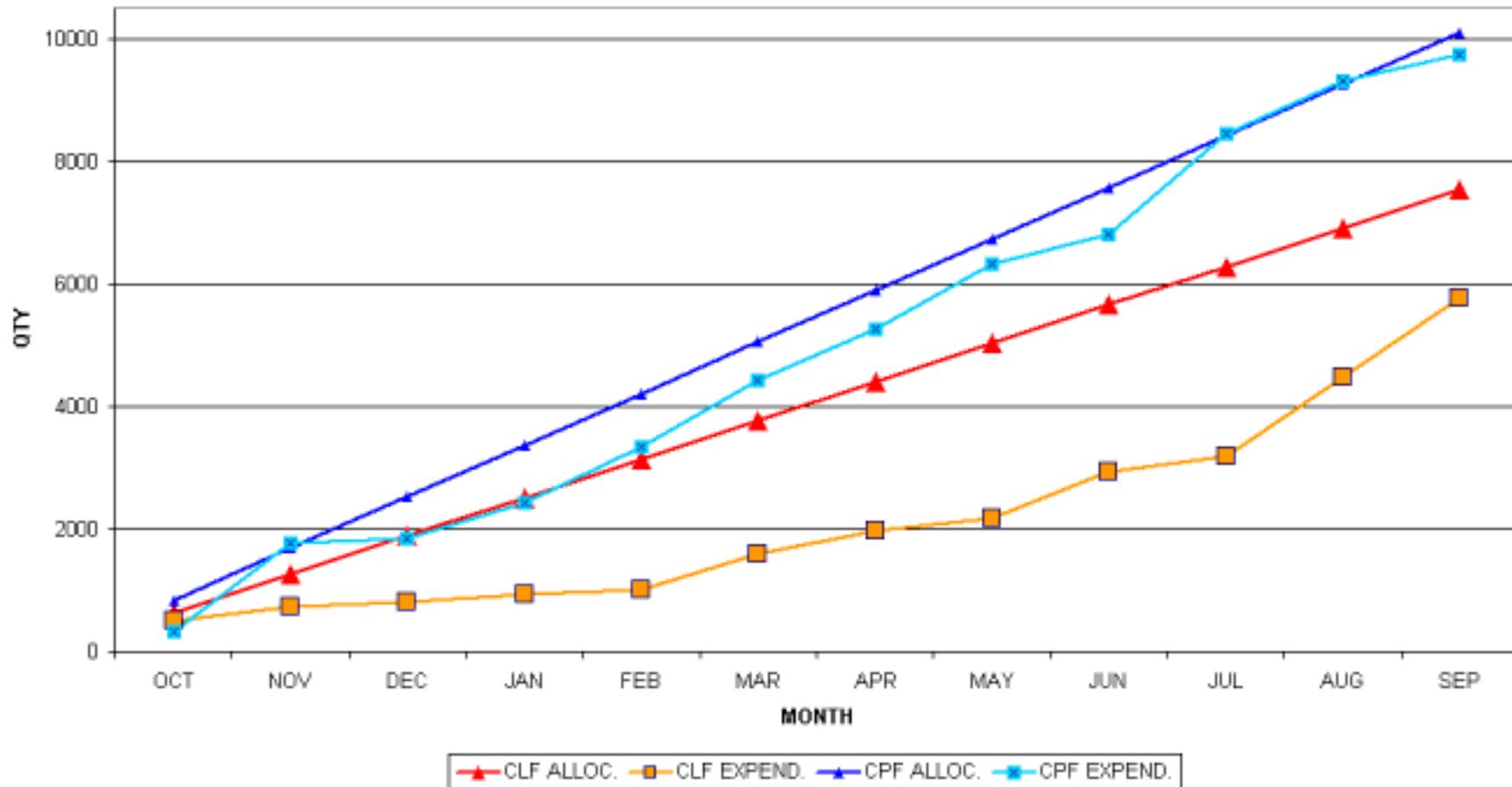
# SSQ-62 Expenditures FY-02: CPF & CLF

CLF & CPF SSQ-62 EXPENDITURES FY02

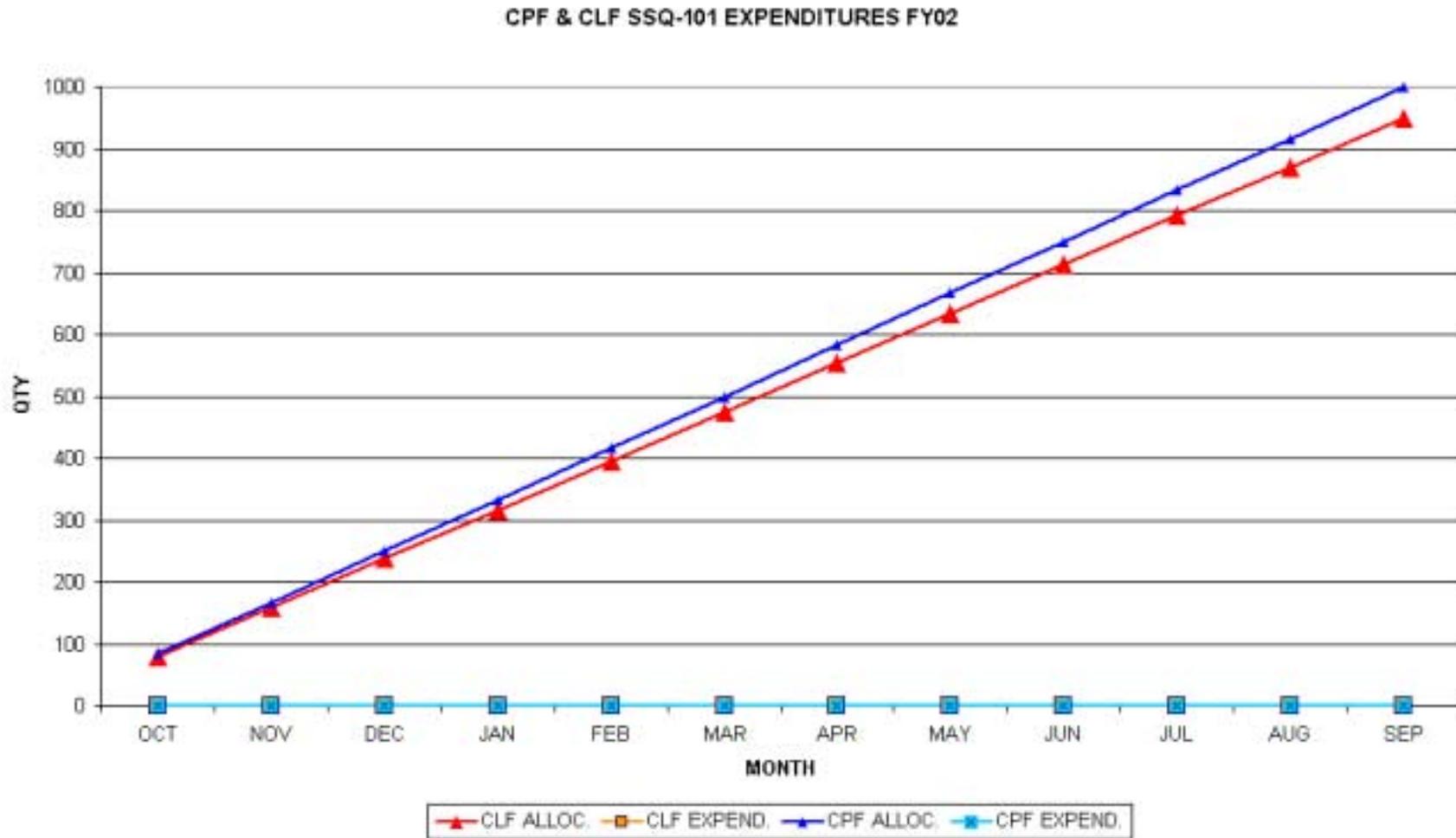


# SSQ-77 Expenditures FY-02: CPF & CLF

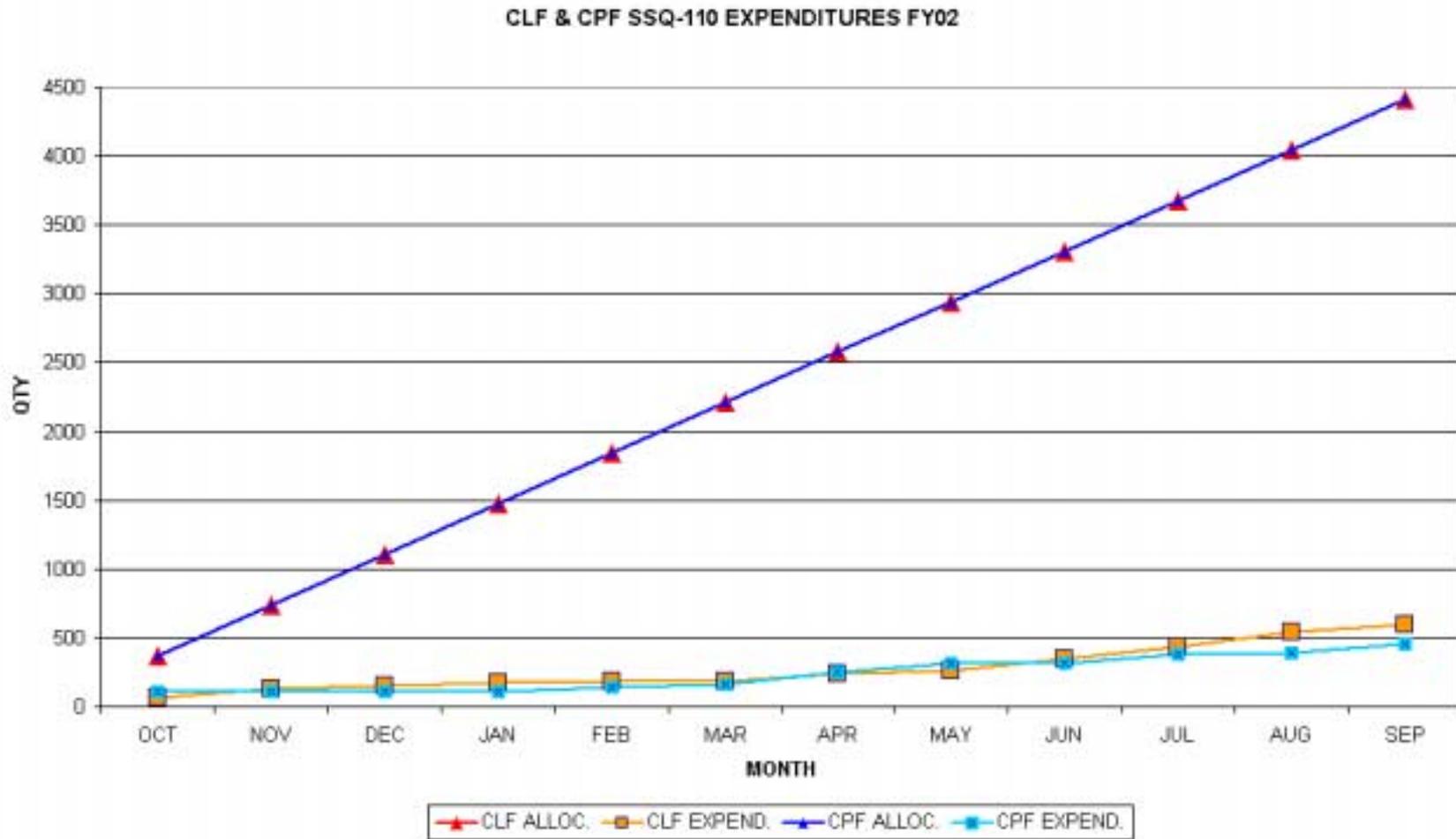
CLF & CPF SSQ-77 EXPENDITURES FY02



# SSQ-101 Expenditures FY-02: CPF & CLF

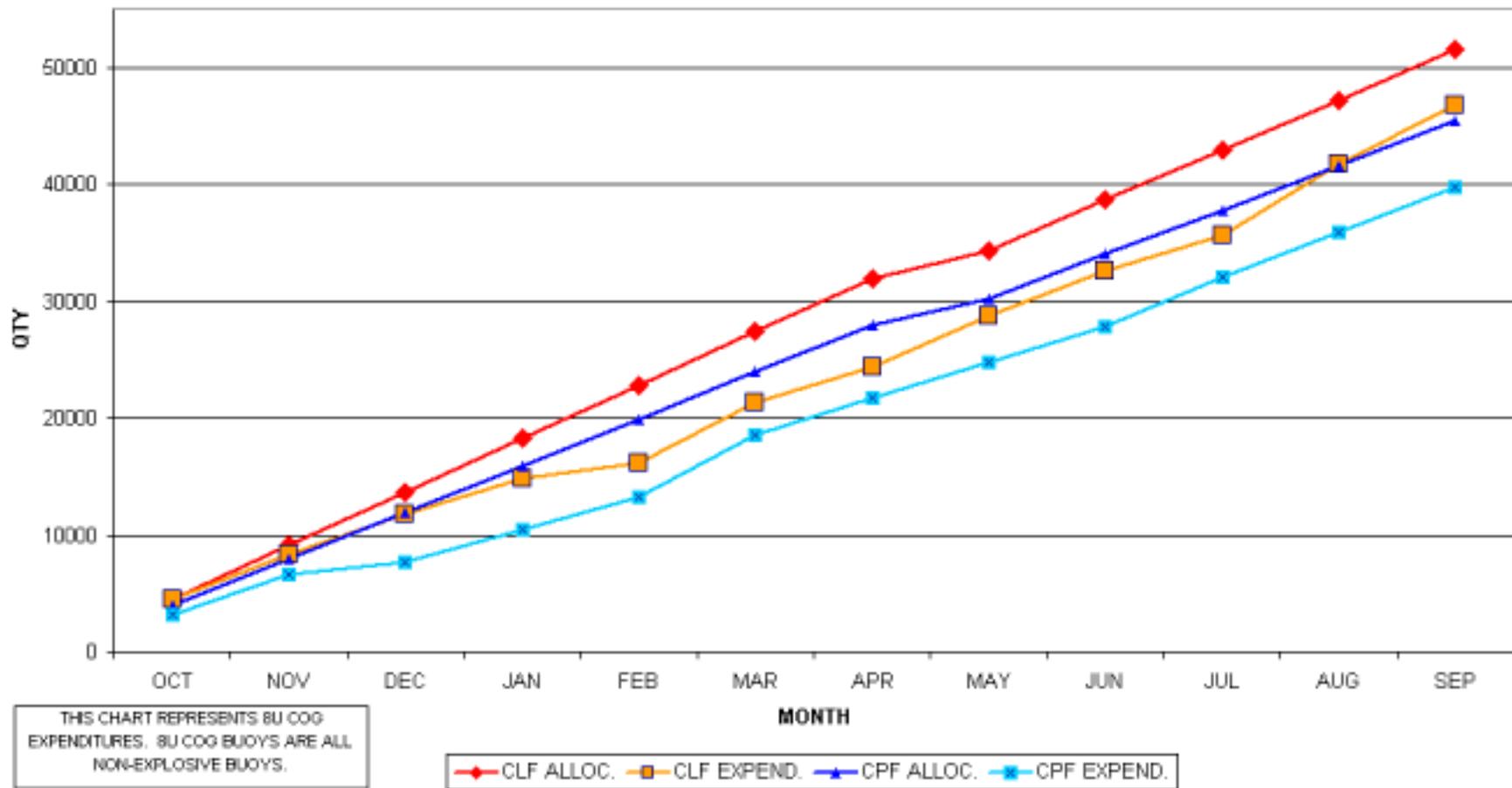


# SSQ-110 Expenditures FY-02: CPF & CLF

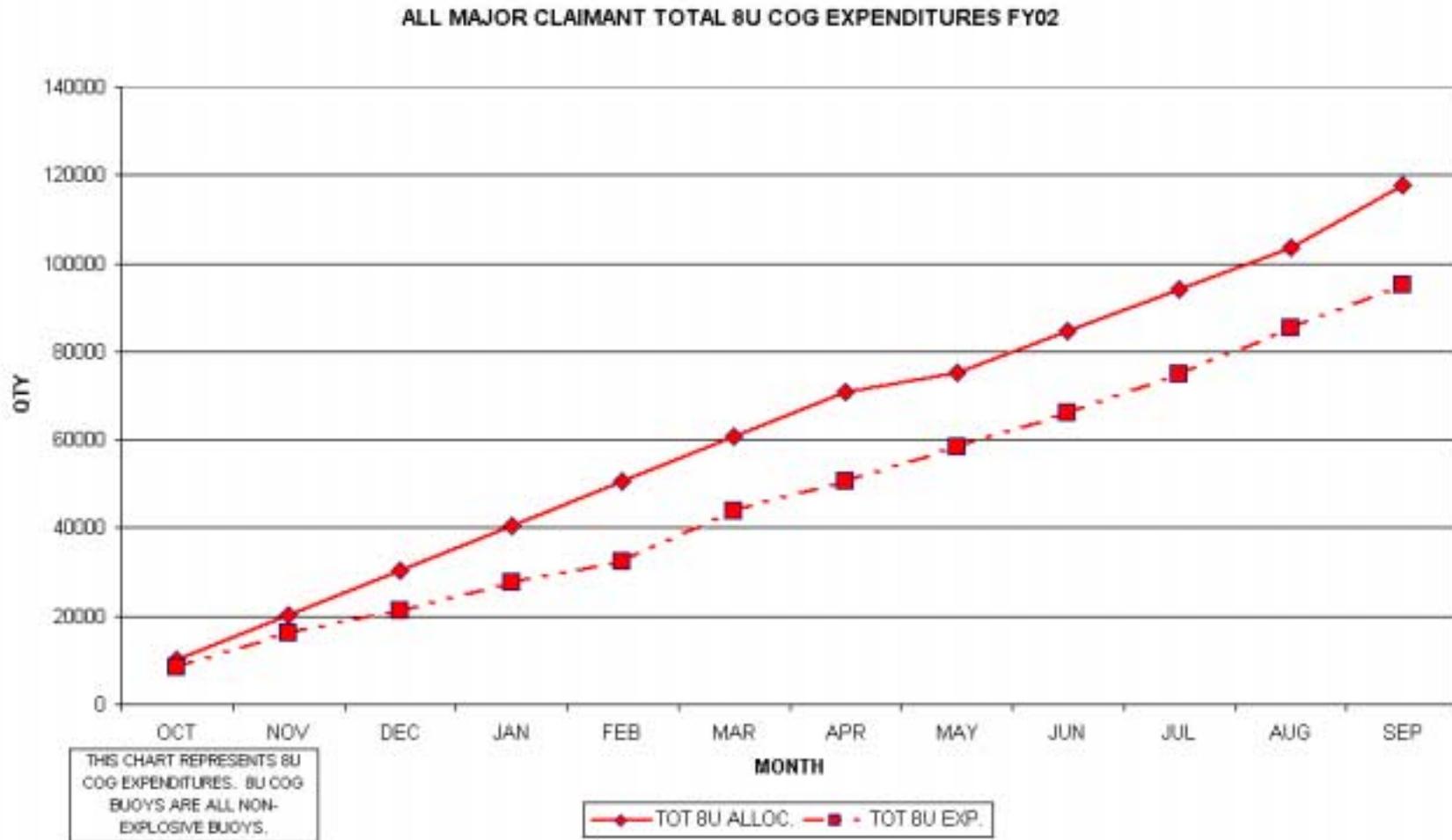


# 8U COG Expenditures FY-02: CPF & CLF

CLF & CPF 8U COG EXPENDITURES FY02



# 8U COG Expenditures FY-02: All Claimants



# Inventory Projections

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- Crane Logistics Team monitors sonobuoy stockpile for Program Office & FLTCOM's
  - Adjusts future inventory projections for loss (i.e., expenditures, losses, demil, etc.) and gains (i.e., procurement, other gains)
  - Provides inventory projections for outyears
    - Provides guidance on distribution of assets
    - Provides guidance on procurement quantity & mix of buoy types
  - Periodic scrub of CAIMS inventory data accomplished as a part of the process
    - Clears invalid intransits
    - Identifies potential shortages of assets at end-user sites

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# Non-Nuclear Ordnance Requirement (NNOR)

## Total Munitions Requirement (TMR)

Supports: WRMR, CR, IDTC  
Trng, RESFOR, Test & Eval

### War Reserve Munitions Requirement (WRMR)

Supports: CR, ASW  
Deployed Ops, & CVBG

### Combat Requirement (CR)

Supports: Combat  
Expenditures

### Sonobuoy Inventory

Stockpile - NCEA + Procurement =  
Sonobuoy Inventory

# Sonobuoy Inventory Proj: SSQ-36

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**Note: All projections based on  
FY02 EOY NALC inventory data,  
full NCEA expenditure, & planned  
procurement.**

# Sonobuoy Inventory Proj: SSQ-53

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# Sonobuoy Inventory Proj: SSQ-62

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# Sonobuoy Inventory Proj: SSQ-77

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*<SEE SECURE SERVER>*

# Sonobuoy Inventory Proj: SSQ-101

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*<SEE SECURE SERVER>*

# Sonobuoy Inventory Proj: SSQ-110

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# Sonobuoy Inventory Proj: 8U COG

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# What does this mean to you?

(Assuming Baseline NCEA at FY04 Levels)

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# Sonobuoy Logistics



Crane Division,  
Naval Surface Warfare Center  
<NAME>

# Crane Division, Naval Surface Warfare Center (Code 6074)

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- Cognizant Field Activity: Logistics, Engineering & Contracting
  - Contract for new production
  - Engineering Qualification to the performance specification
  - Engineering test for new production
  - In-service (production) logistics support
- Assistant Program Manager for Logistics (Code 6074B)
  - Sonobuoy Management Team (ROLMS/AIT/Inventory Accuracy)
  - Tech Data (IETM, Web, source data)
  - Training (ROLMS AIT/Ammo Management/Technical)
  - Trouble Desk / Fleet Liaison (*Sonobuoy Hotline*)
  - Stockpile surveillance / Service Life extension / NAR's
  - Formal ILS

# Assistance / Help

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- Unrestricted Web Site
  - <http://sonobuoy.crane.navy.mil>
    - General Sonobuoy Program Data
    - News, current issues, messages, etc.
    - ROLMS AIT Users Manual
- Secure Web Site
  - <https://spde.pdmu.crane.navy.mil/ipt264/nswcc.html>
    - Program Management Data
    - Production Sonobuoy Specifications
    - IETM, ASW *Sensor*, COPE Reports, etc.
    - USERID & Password required
- *Sonobuoy Hotline*: 812-854-3577 DSN 482-3577
- email: [sonobuoy@crane.navy.mil](mailto:sonobuoy@crane.navy.mil)
- SIPERNET: <NAME>

# Current Extensions & NAR's

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- **Current Sonobuoy Service Life Extensions& NAR's**
  - **Q36:**
    - NALC 8W59: ALL EXPIRED (NAR 0014-01)
    - NALC 8W74: NSWCC 251430Z FEB 02: 10 YEARS (05)
  - **Q53B:** NALC 8W62: ALL EXPIRED
  - **Q53D:** NALC 8W72: NSWCC 061931Z FEB 98: 10 YEARS (8/00 - 3/03)
  - **Q57B:**
    - NALC 8W70: NSWCC 032301Z DEC 96: ALL EXPIRED
    - NALC 8W73: ALL EXPIRED (NAR 0513-02)
      - All 8W73's expired on 30 APR 02, replaced by 8W88
  - **Q62B:** NALC 8W71: ALL EXPIRED (NAR 0429-00)
  - **Q77A(CZ):** NALC 8W75: ALL EXPIRED (NAR 0889-02); Refurb of some units 03
  - **Q77B:** NALC 8W76: NSWCC 141900Z APR 98: 10 YEARS (12/01 - 12/04)
  - **Q86:** NALC 8W68: ALL EXPIRED (NAR 0290-02) (No Replacement)
  - **Q110:** NALC 8W77: NSWCC 181615Z SEP 02: 15 YEARS
  - **Q110A:** NALC 8W80: ALL EXPIRED (NAR 0298-02) (Not Candidate for Extension)

# Recent Messages

(Posted on Web Page)

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- **NAVSURFWARCENDIV CRANE 192110Z MAR 02:** Discusses importance of reporting failures of AN/SSQ-110A (8W81) via CODR. CODR's required to track failures of EFS circuitry on these units.
- **NAVAMMOLOGCEN 202203Z MAR 02:** Notification that problems exist within the NAVCOMM DMS addressing system with regard to ATR transmission to NALC/CAIMS. Requires addressing of ATR's with DMS name and with PLAD to insure receipt by CAIMS.
- **NAVSURFWARCENDIV CRANE 041800Z APR 02:** Provides guidance to ROLMS Version 7.0 users when changing the condition code for sonobuoys. When prompted for a CDC code, enter 'ZZZZZZ.'
- **NAVAMMOLOGCEN 011930Z MAY 02:** NAR 0513-02, Condemns all stocks of NALC 8W73, AN/SSQ-57B, to condition code Hotel due over age.
- **NAVSURFWARCENDIV CRANE 050238Z MAY 02:** Guidance for disposition of NUAMP (SSQ-113) sonobuoys.
- **NAVSURFWARCENDIV CRANE 201412Z MAY 02:** Guidance concerning LiSO<sub>2</sub> powered sonobuoy operations from SH-60 aircraft.

# Recent Messages

(Contd.)

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- **NAVSURFWARCENDIV CRANE 211935Z JUN 02:** Advice to the Fleet concerning use of expired SSQ-62C, NALC 8W79, sonobuoys.
- **NAVSURFWARCENDIV CRANE IN 241747Z JUL 02:** Message concerning requirement for Periodic Lot Reports (PLR's) from Fleet sonobuoy reporters.
- **NAVAMMOLOGCEN MECHANICSBURG PA 041930Z SEP 02:** NAR 0889-02, places all remaining SSQ-77A(CZ), NALC 8W75, into MCC Hotel.
- **NAVSURFWARCENDIV CRANE IN 162150Z SEP 02:** Provides guidance to the Fleet concerning use of SSQ-110 (NALC 8W77) and probable failure rates of SSQ-110A (NALC 8W81) units.
- **NAVSURFWARCENDIV CRANE IN 181615Z SEP 02:** Service Life Extension for all SSQ-110, NALC 8W77, to fifteen years from date of manufacture.
- **NAVSURFWARCENDIV CRANE IN 271237Z SEP 02:** Reiteration of Material Control Code Kilo requirement for all 8U COG sonobuoys. Refers to PLR requirement.
- **NAVAMMOLOGCEN MECHANICSBURG PA 011930Z NOV 02:** NAR 0039-03, places all remaining SSQ-62C (NALC 8W79), into MCC Hotel.

# Sonobuoy IETM

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- IETM = Interactive Electronic Technical Manual
  - Sonobuoy IETM contains two publications linked together:
    - NAVAIR 28-SSQ-500-1: Sonobuoy Technical Reference Manual
    - NAVAIR 28-SSQ-500-4: Basic Intro to Air ASW Systems
  - Revision 1 to the IETM has been distributed, dated 1 Apr 02
    - New technical data (Q-53F, Q62E, Q77C, Q101, & Q110B)
    - Ammunition Management & ROLMS data/guidance
    - Expanded reference tables & data tables
    - Sonobuoy technical data linked to 500-4 discussions
      - Ex: SSQ-110 sections linked to 500-4 Bistatics Section
    - Updated & expanded discussions in 500-4
  - Posted on the Sonobuoy Secure Server
  - Adobe Acrobat Reader V4.0 or V5.0

# Sonobuoy IETM, Cont.

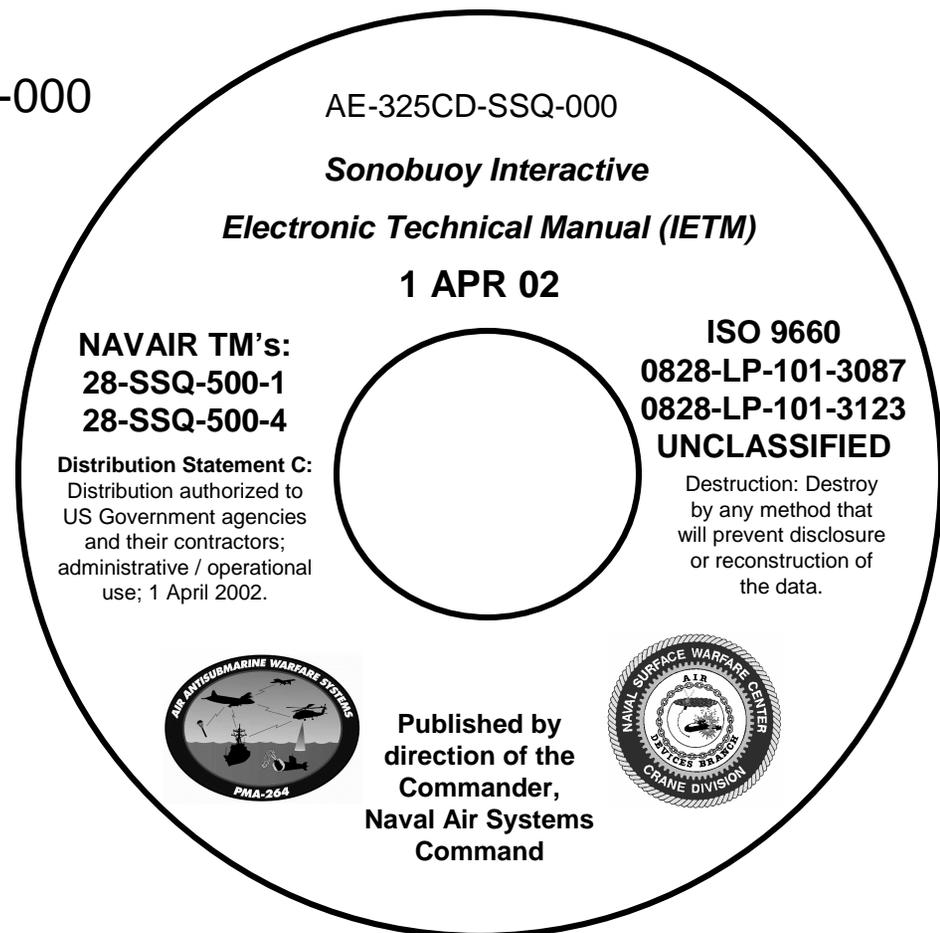
- IETM Designated:
  - NAVAIR AE-325CD-SSQ-000

Each TM has a separate NSN:

NAVAIR 28-SSQ-500-1  
0828-LP-101-1087

NAVAIR 28-SSQ-500-4  
0828-LP-101-3123

Stocked at & distributed by  
NSWC Crane (contact the  
*Sonobuoy Hotline*).



# Failure Analysis / Reliability

---

- Conventional Ordnance Performance Evaluation (COPE)
  - Stockpile surveillance for reliability rates
  - Terminated FY99
- Conventional Ordnance Discrepancy Report (CODR) & Sonobuoy Discrepancy Report (SDR)
  - Current method for tracking excessive failures in Fleet
  - 8U COG buoy compliance is low

*<SEE SECURE SERVER>*

# Review of Executive Committee Discussions



<NAME>

Assistant Program Manager for Logistics  
Crane Division, Naval Surface Warfare Center

# PATRECONFORPAC BRIEF



**<NAME>**

**SLWG**

**4 Dec 02**



*Naval Ammunition  
Logistics Center*

NAVAL SUPPLY SYSTEMS COMMAND

# **NALC Code 03 Fleet Support**

**<NAME>**

*Ready. Resourceful. Responsive!*



NAVAL AMMUNITION LOGISTICS CENTER

# Fleet Focus on Ordnance Community

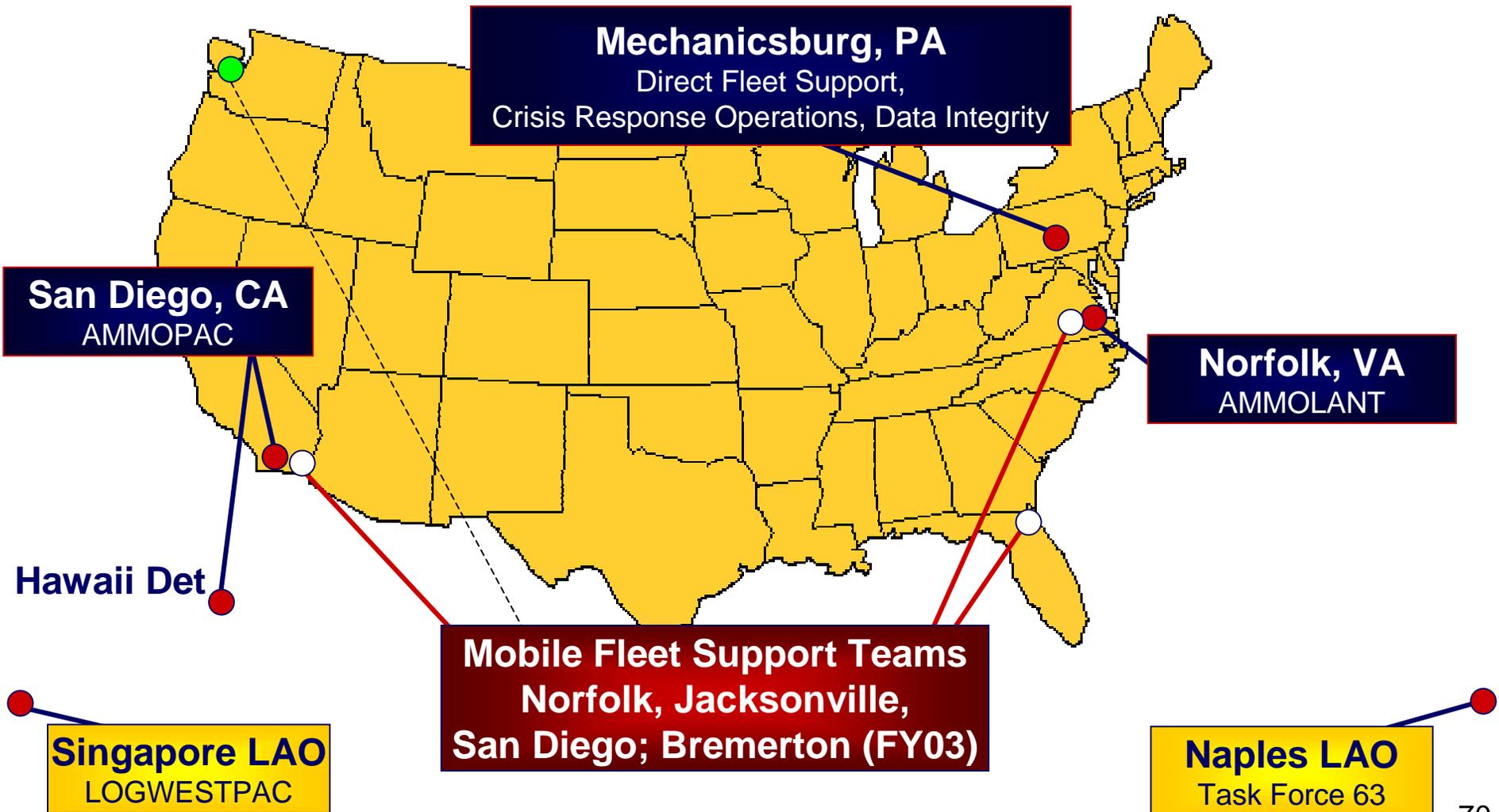
- ➡ **AMMOPAC**
- ➡ **AMMOLANT**
- ➡ **ESI & CRC Support**
- ➡ **Data Integrity**
- ➡ **Fleet Training**





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# Fleet Support Locations





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**NALC Code 03**

<SEE SECURE SERVER>

## ☞ **AMMOLANT Norfolk, VA (Code 31)**

- ***OIC Addu to CLF***
- ***Conducts Fleet liaison to ensure the most expeditious and cost effective delivery of requested ordnance to the right customer***

## ☞ **AMMOPAC San Diego, CA (Code 33)**

- ***OIC Addu to CPF***
- ***Conducts Fleet liaison to ensure the most expeditious and cost effective delivery of requested ordnance to the right customer***
- ***CPF OPLIFT / Vertrep / NALO Coordinator for Ordnance***

- ☞ **ESI & CRC Support (Code 32)**
  - ***Explosive Safety Inspection Support***
  - ***Program 15 ~ Inventory Management***
    - **Unserviceable material - Element 1**
    - **Program Management - Element 2**
    - **Notice of Ammunition Reclassification - Element 3**
    - **Inventory Accuracy - Element 4**
  - ***CRC: Single point of contact & coordinator for ordnance logistics information & issues related to Preferred Guided Munitions.***

- ☞ **Data Integrity Initiatives (Code 34)**
  - ***Sampling Program***
    - **OPNAVINST 8015.2A Conventional Ordnance Inventory Accountability**
  - ***Intransit Tutorial***
    - **Enable Fleet to manage this process**
  - ***Ordnance Accounting Ashore***
    - **ROLMS reporting from a central site.**

## Data Integrity Initiatives

### – *Ordnance Accounting Ashore*

#### • COMSUBLANT/COMSUBPAC

- Submarines generating ROLMS transactions to a central accounting site
- Single reporter from each major home-port to ROLMS
  - *Pearl Harbor, HI*
  - *Bangor, WA*
  - *San Diego, CA*
  - *Kings Bay, GA*
- Each shore based reporter holds master record
- Benefit minimizes ATR/PLR reporting errors

## ☞ **Fleet Training (Code 35)**

### – *Mobile Fleet Support Team*

- **San Diego / Hawaii / Singapore**
  - **Bremerton (FY03)**

**NALC funded just-in-time, hands-on assistance across full spectrum of ordnance logistics management, ... training, systems (ROLMS)/AIT/Joint MUREP/CAIMS OSE, Records clean-up**

- *at Fleet & Marine Corps concentration areas*
- *one-on-one, or groups*



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# Questions?

<SEE SECURE SERVER>

# Review of Action Items



<NAME>

Assistant Program Manager for Logistics  
Crane Division, Naval Surface Warfare Center

# New Action Items

---

- ITEM 02-08: CDC codes & NAR's
  - NSWCC: NAVSUP P-805 requires Condition Defect Codes when reclassifying sonobuoys from CC 'A' to any other CC. ROLMS V7.0 & V8.0 require CDC entry when changing condition from A to any other condition
    - Confusion for some sonobuoy reporters
    - Confusing guidance in P-805
    - Recommend that NALC include applicable CDC codes in future Notices of Ammunition Reclassification (NAR's) for sonobuoys (& other ordnance?)
    - Sonobuoy NAR's are almost always for expiration of service life
  - Assigned to: NALC
  - Status: **DISCUSSION:**
  - Closing Status:

# New Action Items

---

- ITEM 02-09: CDC codes & ROLMS AIT
  - NSWCC: NAVSUP P-805 requires Condition Defect Codes when reclassifying sonobuoys from CC 'A' to any other CC. ROLMS V7.0 & V8.0 require CDC entry when changing condition from A to any other condition. ROLMS software does not currently support CDC codes with AIT
    - AIT scanner cannot scan CDC code during inventory or restow
    - CDC is matching criteria on AIT inventory or restow
    - 2D Bar Codes do not include CDC code
    - Recommend ROLMS AIT software be changed to include CDC codes in 2<sup>nd</sup> 2D bar code (ALN) and scanner software be changed to read CDC code when required
    - Failing this, recommend CDC code requirement for 8U COG sonobuoys be removed from the NAVSUP P-805
  - Assigned to: NALC
  - Status: **DISCUSSION:**
  - Closing Status:



*Naval Ammunition  
Logistics Center*

NAVAL SUPPLY SYSTEMS COMMAND

# ORDNANCE INFORMATION SYSTEM

*Ready. Resourceful. Responsive!*



NAVAL AMMUNITION LOGISTICS CENTER

# Outline

- **Why?**      *Rationale*
- **What?**     *System Strategy*
- **How?**     *Architecture / Implementation*
- **Who?**     *People*
- **Where?**   *Location*
- **When?**    *Schedule*
- **Questions**

## Prevail in Combat

by providing the  
War Fighter

## *Optimized Global Ordnance Logistics*

- fully integrated
- rationalized
- effective
- efficient
- transparent

## Prevail in Combat

**Dominate Battle Space**

**Ordnance Logistics**

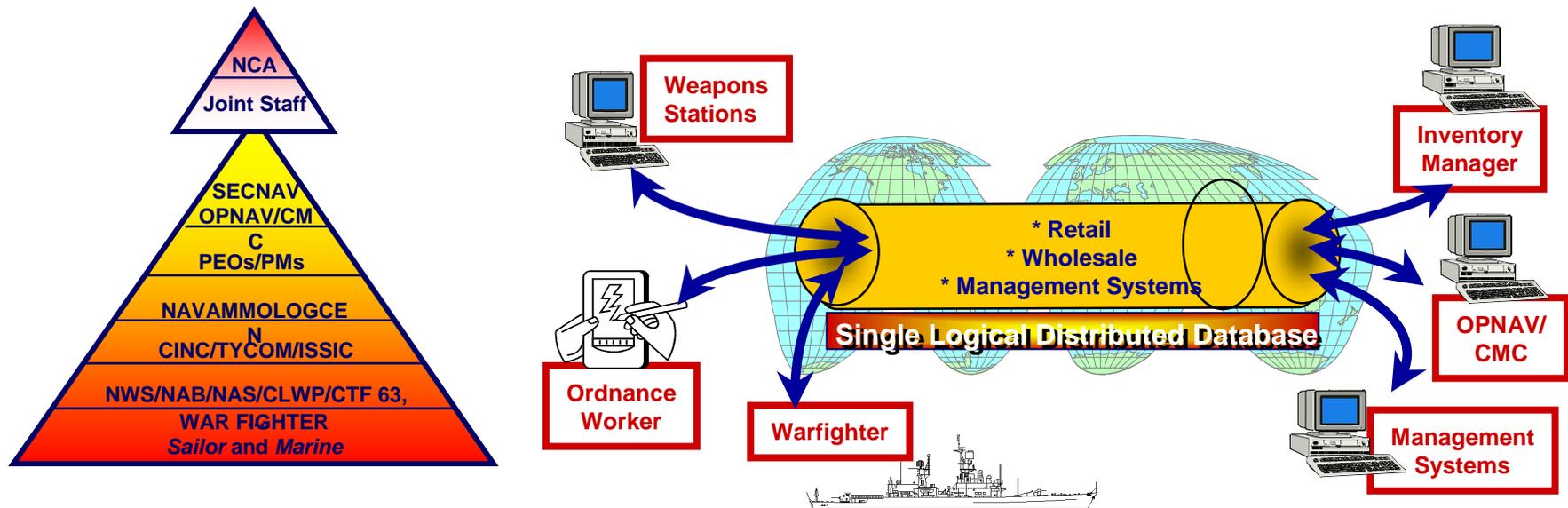
**Ordnance Logistics  
Knowledge  
Mastery**

**Ordnance  
Logistics  
Systems**

- **Challenge: Optimized Global Ordnance Logistics**
- **Plan of Attack ... for Readiness, Today & Tomorrow**
  - **Capture requirements**
  - **Assess stockpile health**
  - **Allocate, position & rotate stockpile**
  - **Real total asset visibility**

**Future is**  **Ordnance Logistics IT Strategy**

- *Deliver a single, seamless, fully-integrated Information System*
  - *Provide controlled, global access to data metrics, reports, and decision-support tools*
  - *Achieve ordnance stockpile knowledge mastery*



**Supporting joint operability,  
standardization and  
uniformity of information:**

## **Compliance**

*ADA Section 508*

*ASD (C31)*

*CJCSI 3170.01A*

*Clinger-Cohen Act*

*DoD 5000.2-R*

*Joint Technical Architecture*

*Joint Vision 2020*

## **Initiatives**

**CAS (Collaboration at Sea)**

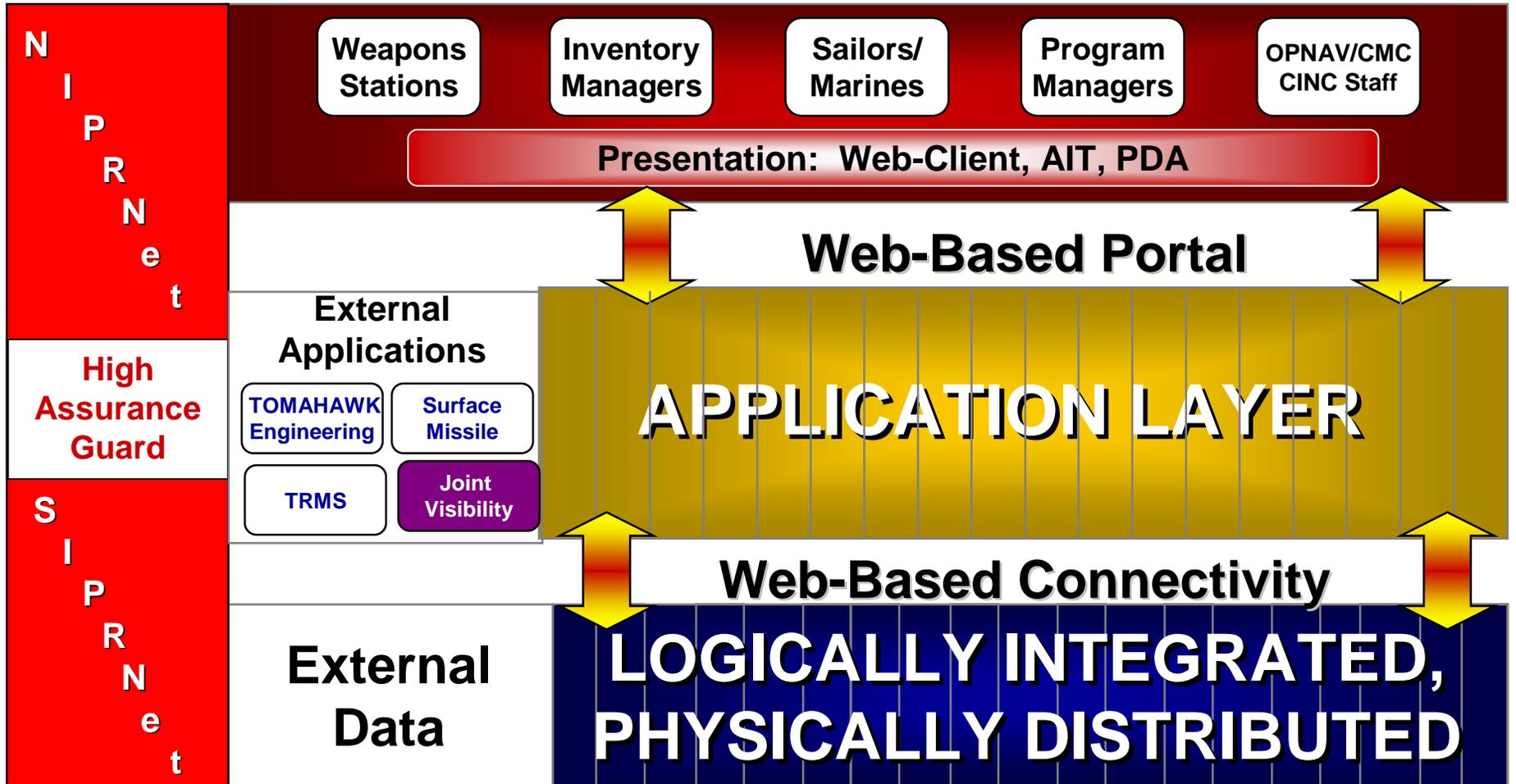
**WEN (Web Enabled Navy)**

**Supporting timely, accurate  
information availability through  
a global, web-based  
environment**



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# Architecture / Implementation Ordnance Information System



**Fully DoD, WEN, 508 and IT21 Compliant!**





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# People

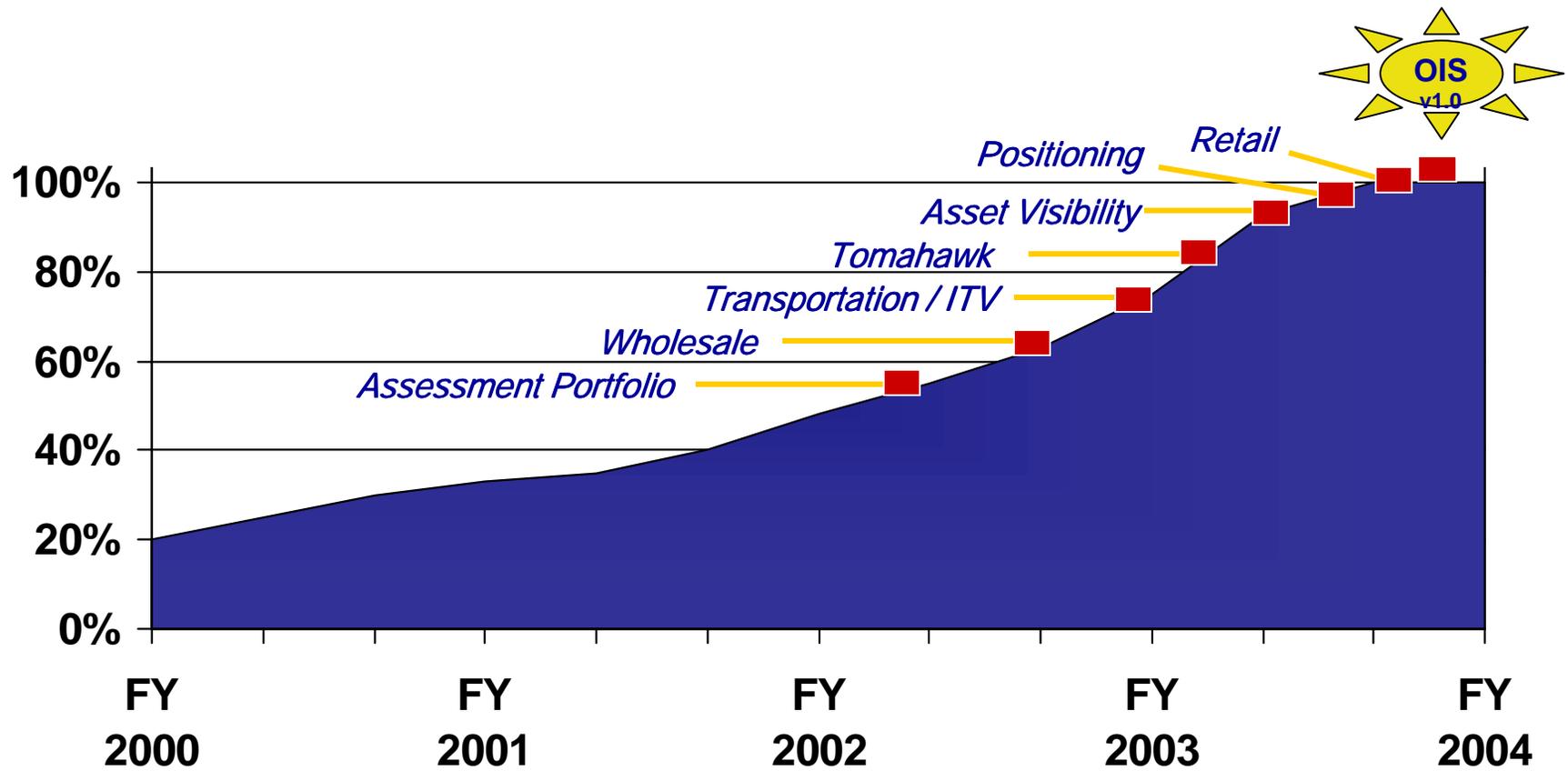






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# Schedule WEN-Compliant Systems





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# Summary

- Prevail in **combat**
- **Provide** a robust portfolio of data, metrics, reports, and tool sets
- **Coordinate** with the WEN blueprint and C@S
- **Implement** via specialists in system design and support
- **Maintain** aggressive schedule
- **Deliver** optimized global ordnance logistics data



# Sonobuoy Engineering



Crane Division,  
Naval Surface Warfare Center

<NAME>

05 Dec 02

# Sonobuoys in Production

---

- AN/SSQ-36B BTS
- AN/SSQ-53F DIFAR/CO
- AN/SSQ-62E DICASS

# Q-36B BTS

---

- Measure water temperature vs. depth to 800 meters (2625 ft).
- 5 ft/sec descent rate, ~9 minutes to full depth.
- 99 RF channels (No exceptions).
- Tone  $f=800+20T$  (T in degrees F)  $T=f/20-800$ , T used to calculate sound velocity vs. depth and to model sound propagation.
- TAMDA buoy in early development to support better environmental prediction for multi-static work. Measure sound velocity directly.

# AN/SSQ-53F DIFAR

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*<SEE SECURE SERVER>*

# AN/SSQ-53F CO Response

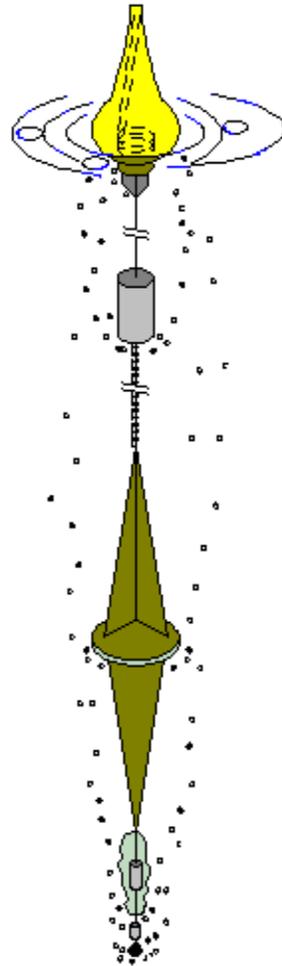
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*<SEE SECURE SERVER>*

# Q-53F CFS Commands

- VHF (RF) Off / VHF On.
- VHF Channel. Avoid annoying RFI's.
- Sensor Mode: dF - DIFAR, CS - CSO, CO - Calibrated Omni.
- AGC Mode: Off, A1 (On - Slow - excellent for either high or very low ambient noise conditions), A2 (On - currently Slow, goal: Fast – go numb for EER direct blast).
- Operating Life.

# Deployed DIFAR Sonobuoy



# Q-62D -> Q-62E

---

- EFS: RF Channel, Depth Family (Sh or dP) RF channels: 1-99 except 57, 58, & 93, 1 hour life, > 50 ping-sec
- Depths: Sh: 50,150,300 dP: 90,400,1500 ft
- CSG: Depth -> Intermediate, -> Deep in EFS set depth family. Ping: .1, .5, 1 sec. CW or 1 sec. FM
- Major difference:
  - Any buoy can operate on any RF channel (ex. 57, 58 & 93) and any Acoustic Channel (A, B, C, D)
- CFS Commands: VHF On/Off, Depths, RF Channel, Sonic Channel. (No ping or scuttle commands.)

# AN/SSQ-62E

---

- The AN/SSQ-62E has the same depth families as the AN/SSQ-62D
- CFS allows the aircraft to send the Q-62E to any remaining depth
  - For example. EFS set depth of 50, 150 , 300 ft. The unit splashes and descends to 50 ft. The aircraft can send the unit to 90, 150, 300, 400, or 1500 ft using CFS.

# Q-62E RF vs. Acoustic Channel

---

- CFS allows the aircraft to change Sonic Channel independently of RF channel
  - For example. EFS set to RF channel 1 which is Sonic channel A. The aircraft can command the Q-62E to be Sonic B, C, or D using CFS even though RF channel has not changed. If a CFS RF change command is sent then the Sonic Channel is changed to the EFS default (1-A, 2-B, 3-C, 4-D and so forth)

# Sonobuoys In Engineering Development

*<SEE SECURE SERVER>*

# EER

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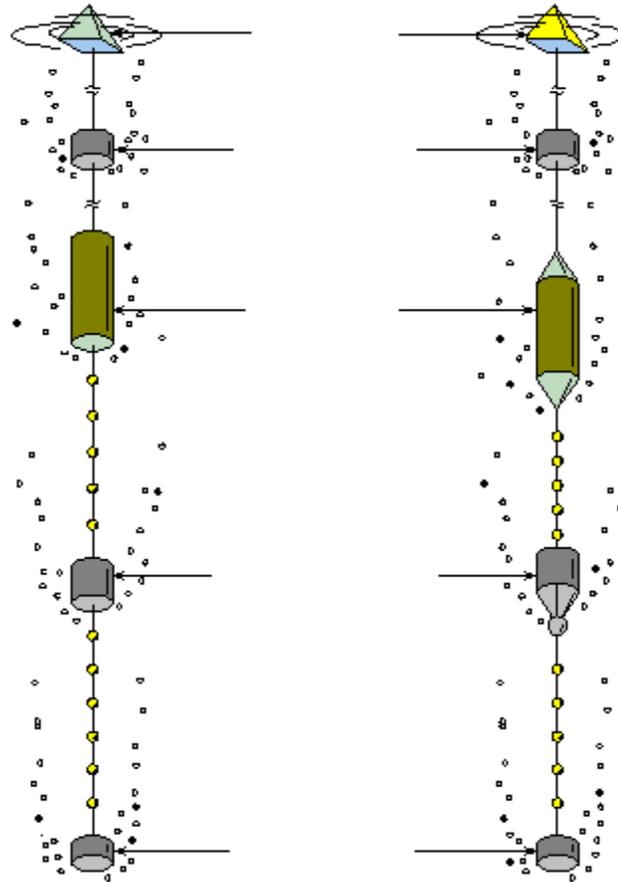
*<SEE SECURE SERVER>*

# Q-77C VLAD

---

*<SEE SECURE SERVER>*

# Deployed VLAD Sonobuoys



# IEER

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*<SEE SECURE SERVER>*

# ADAR AN/SSQ-101

---

- Overview
- Functional Description
- EFS
- Deployment
- CFS

# ADAR Overview

---

- **Air Deployable Active Receiver**
- NALC: 8W85
- NSN: 8U-5845-01-453-8699

*<SEE SECURE SERVER>*

# ADAR CFS

---

- CFS same as other buoys except
  - No acknowledgement signal sent back up to aircraft
  - Increased CFS Recvr sensitivity extends command range (Several RF channels settings reduce CFS command range)

# ADAR CFS (Cont'd)

---

- CFS Commands
  - RF Power (On; Off)
  - RF Channel (1-16 All; 32-54 Even only; 62-98 Even only)
  - Acoustic Frequency Band (Low or High)
  - Scuttle



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NAVAL SUPPLY SYSTEMS COMMAND

# **Ordnance Metrics Assessment Sonobuoy Liaison Working Group**

**<NAME>**

**NALC Code 03**

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# *Agenda*

- **Ordnance Metrics Assessment**
- **OMA Analysis**
- **The Metrics**
- **Discussion**

*<SEE SECURE SERVER>*

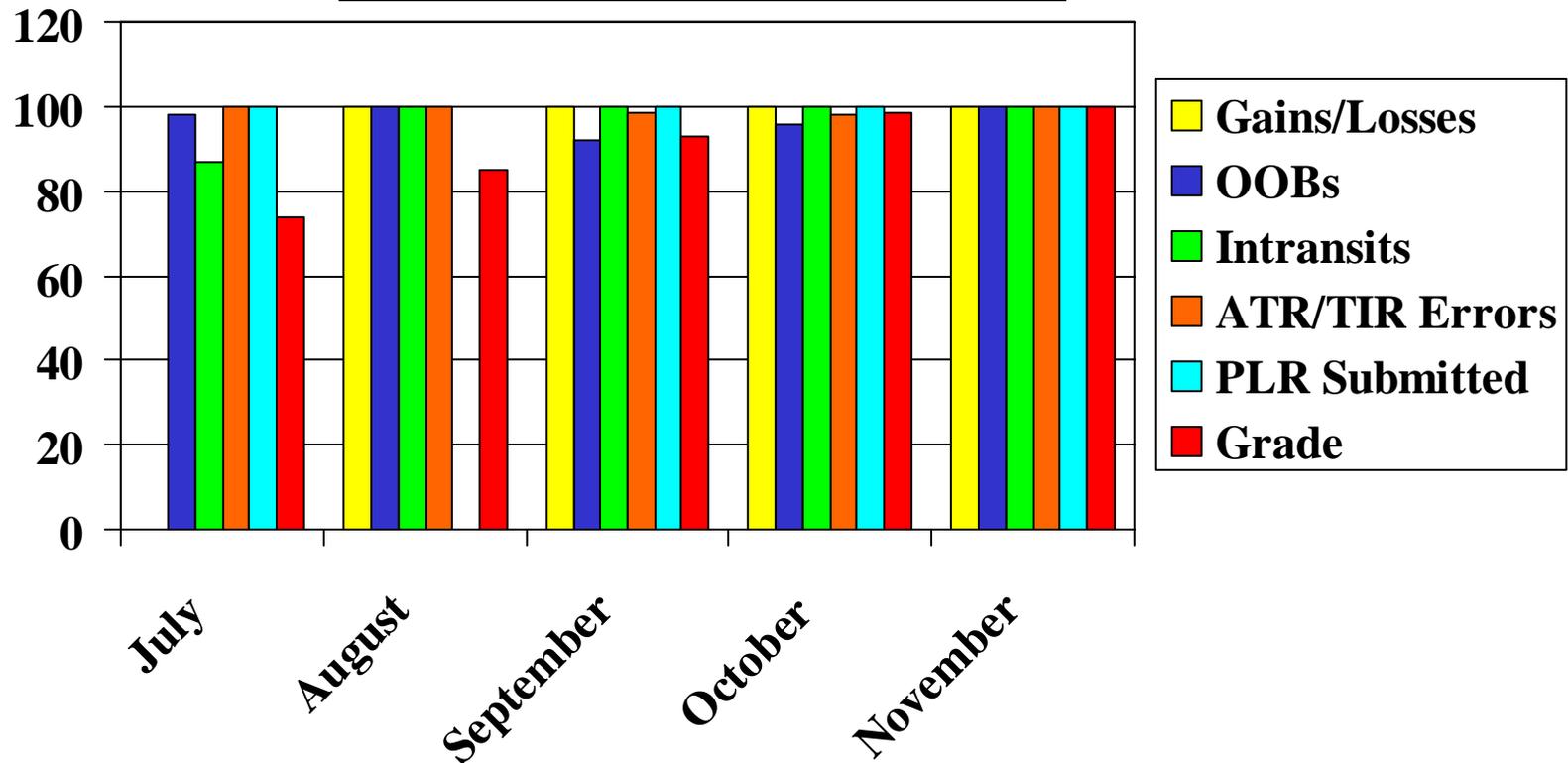
- **Designed to measure ROLMS to CAIMS reporting and Magazine to ROLMS reporting.**
- **Best viewed over time to detect/observe relevant process errors.**
- **OMA is **NOT** an indicator of Inventory Accuracy.**
  - *Inventory Accuracy Based on Qty, ID, Storage*



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# OMA Analysis

## One site over 5 Months





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## *OMA Analysis*

- **Process Errors Monitored with the OMA**
  - *Receipt Processing - In-transit Metric*
  - *Expenditure Processing - OOB Metric*
  - *Inventory Management - Gains/Losses*
  - *Rolms Reporting - ATR Errors*
  - *NAR Compliance - PLR Metric*



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# *OMA Analysis*

<SEE SECURE SERVER>



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## *Gains and Losses*

- **Gains and Losses - 25% of OMA Score**
  - *Gains/Losses from Physical Inventory*
    - **TIR - D8A Gain TIR D9A Loss**
    - **ATR - GANPI Gain LOSPI Loss**
  - *Gains/Losses from Shipment Overages/shortages discovered in Receipt process*
    - **TIR - D8Z Gain TIR D9Z Loss**
    - **ATR - GANOT Gain LOSOT Loss**
  - *Theft, Shrinkage TIR - D9G ATR- LOSDE*
  - *Fire, Act of God TIR - D9H, ATR - LOSMD*



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## *Gains and Losses*

- **Gains and Losses Cont.**

- *[1 - (\$ value of G/L EOM x 1000 / Total \$ Value in CAIMS)] x 100*

- **If Numerator is  $\geq$  to the Denominator, Score = 0**
- **Multiplier = 1000**

- **Out of Balance Records - 25% of OMA Score**
  - *Identifies the number of activity asset records in ROLMS where ending qty balance does not match record balance in CAIMS.*
  - *100 - [(# of Activity OOB Records / # of CAIMS line items) x 250]*
    - **If Math result is  $\geq 40\%$ , score = 0**
    - **Multiplier = 250**



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## *In-Transits*

- **In-Transits - 20% of OMA Score**
  - *Intransits occur when*
    - An issue and corresponding receipt do not match,
    - An issue is posted, or receipt processed, without a matching transaction within CAIMS.
  - *All in-transit material will remain accountable to the issuing activity until properly receipted.*
  - *NALC not notifying sites of In-transits due to resource constraints.*



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## *In-Transits Cont.*

- **In Transits - 20% of OMA Score**
  - *Total dollar value of DA/DF (unmatched issues) older than 90 days divided by total inventory dollar value for each activity.*
    - **DA** - Issuer has shipped but no reported receipt fm Rec. Site
    - **DF** - FFT site posted Transaction, Rec site did not post.
  - *100 - [ { (\$ value of DA + DF > 90 days / Total inventory \$ value in CAIMS) x 500 } x .2 ]*
    - **If (DA+DF) > 90 days is >= to Inv. Value, score = 0**
    - **Multipliers = 500 and .2**



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## *ATR/TIR Errors*

- **ATR/TIR Errors - 15% of OMA Score**
  - *Total number of reporting errors (less OOB errors) divided by the total number of transactions for the month.*
  - *100 - [(# Errors - OOB Errors) / Total Transactions processed) x 2]*
    - **If Math is  $\geq$  to 50, score = 0**
    - **Multiplier = 2**
- **Format Errors/Message Center Errors/Data Field Errors - NIIN, NALC, Qty**



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## *PLR Reporting*

- **PLR Reporting - 15% of OMA Score**
  - *A Yes/No metric. Assigns 100% to activities that submit PLRs and 0% to activities that do not.*
- **OVERALL Grade**
  - *The sum of all weighted scores.*
- **History Lesson:**
  - *OMA Developed by NORIP Metrics Working Group... All Metrics subject for modification*



# SLWG ROLMS Brief

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## Retail Ordnance Logistics Management System

05 December 2002

**Presentation presented by: <NAME>**

**ROLMS Project Management Office**



# NAR COMPLIANCE

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- **NARs direct downgrade of material condition resulting from malfunctions, decreased reliability or obsolescence**
- **NARs apply to all COGs of conventional ammunition including Marine Corp (0T)**
- **Navy/MC program offices determine need for NAR and request NALC to issue NAR**
- **NALC Mechanicsburg PA manages NAR program and issues all NAR messages**



# NAR COMPLIANCE

---

- **DON, MC and CG activities holding affected assets are responsible for implementing NAR IAW NAVSUP P724**
- **Responsibility for verification of NAR compliance lies within the receiving activities chain of command**
- **The TW024-AA-ORD-010 provides listing of suspended, limited use and unserviceable ammunition for Navy, Marine Corp and Coast Guard.**



# NAR COMPLIANCE

---

---

- **Per TW024-AA-ORD-010, upon receipt of new NAR message, the following actions must be performed within 3 working days (Note: 24hrs for URGENT NARS):**
  - **Asset review - determine if affected stock is in your current inventory (includes components)**
  - **Adjustment of stock records - change asset record to condition code directed per the NAR unless evaluated designation is more restrictive**
  - **Labeling - material identification must match the asset record**

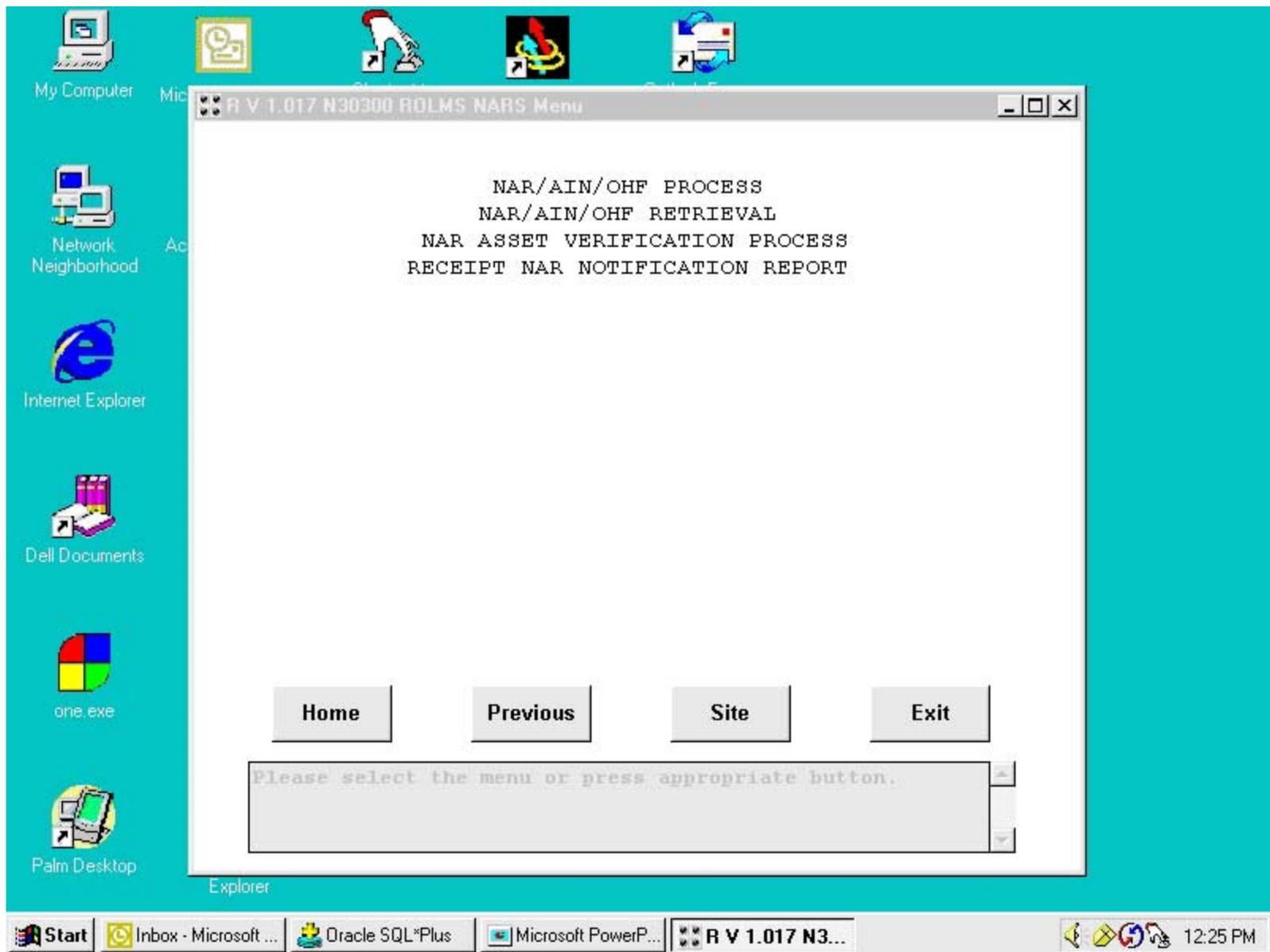


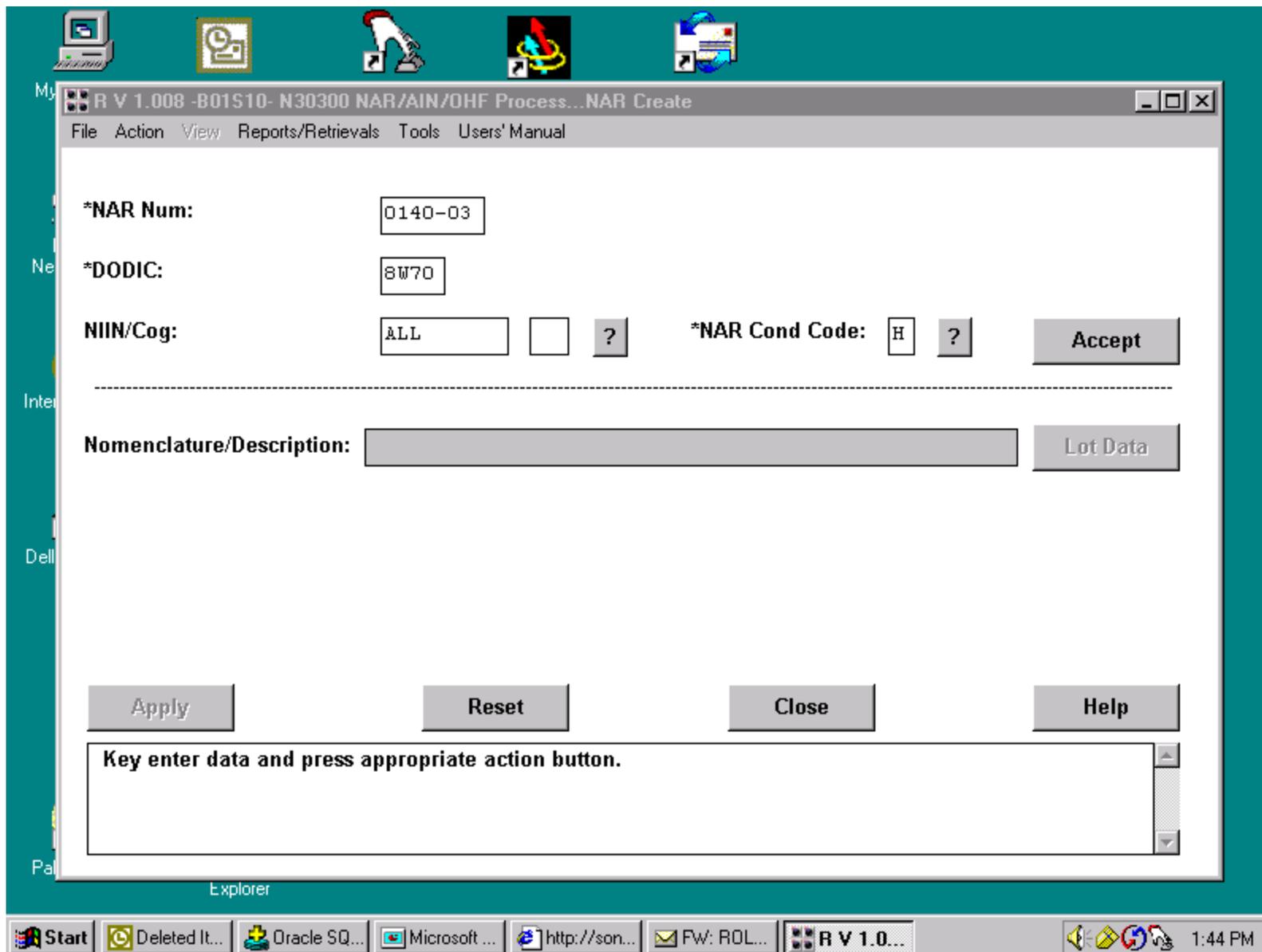
# NAR COMPLIANCE

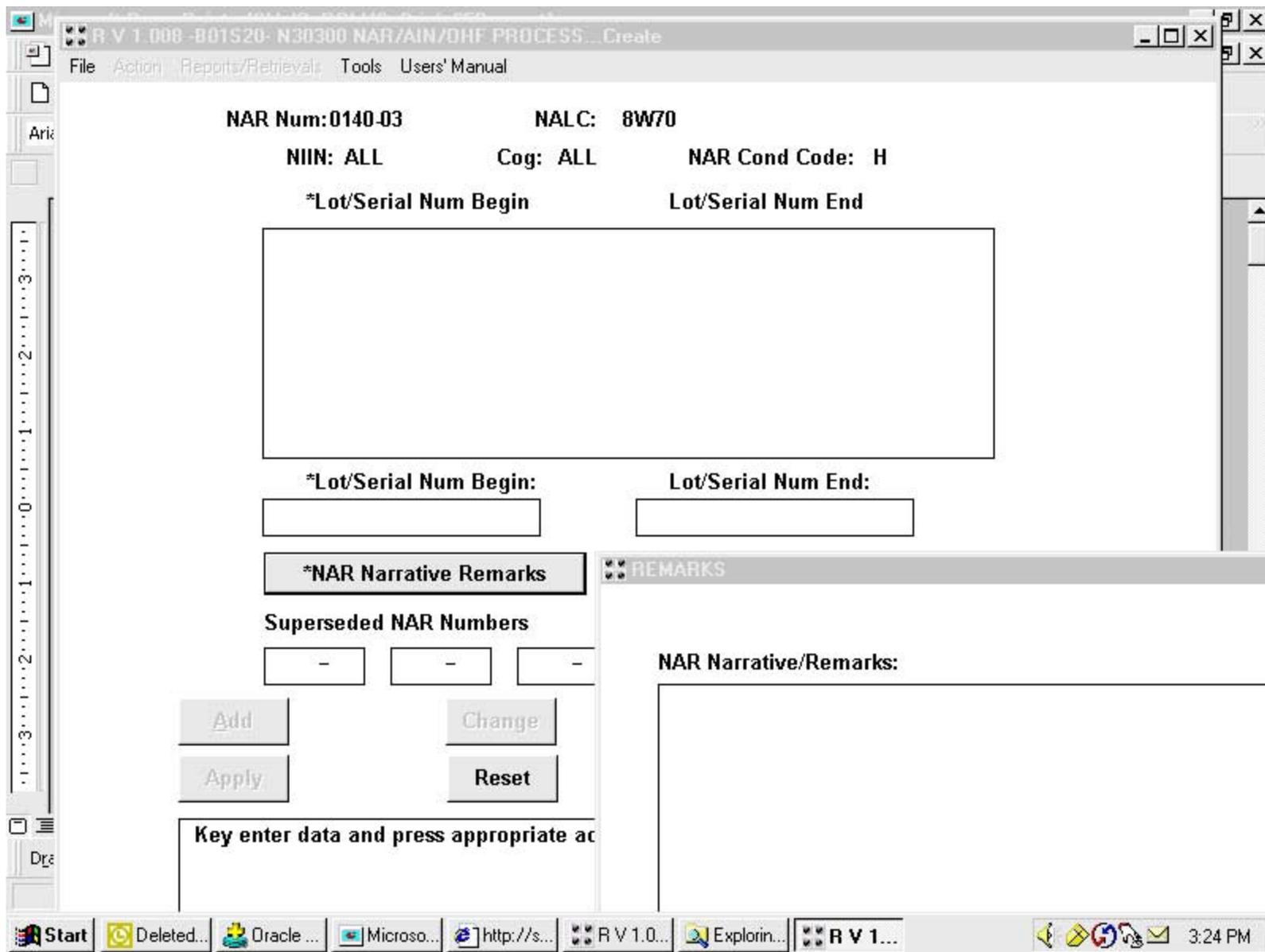
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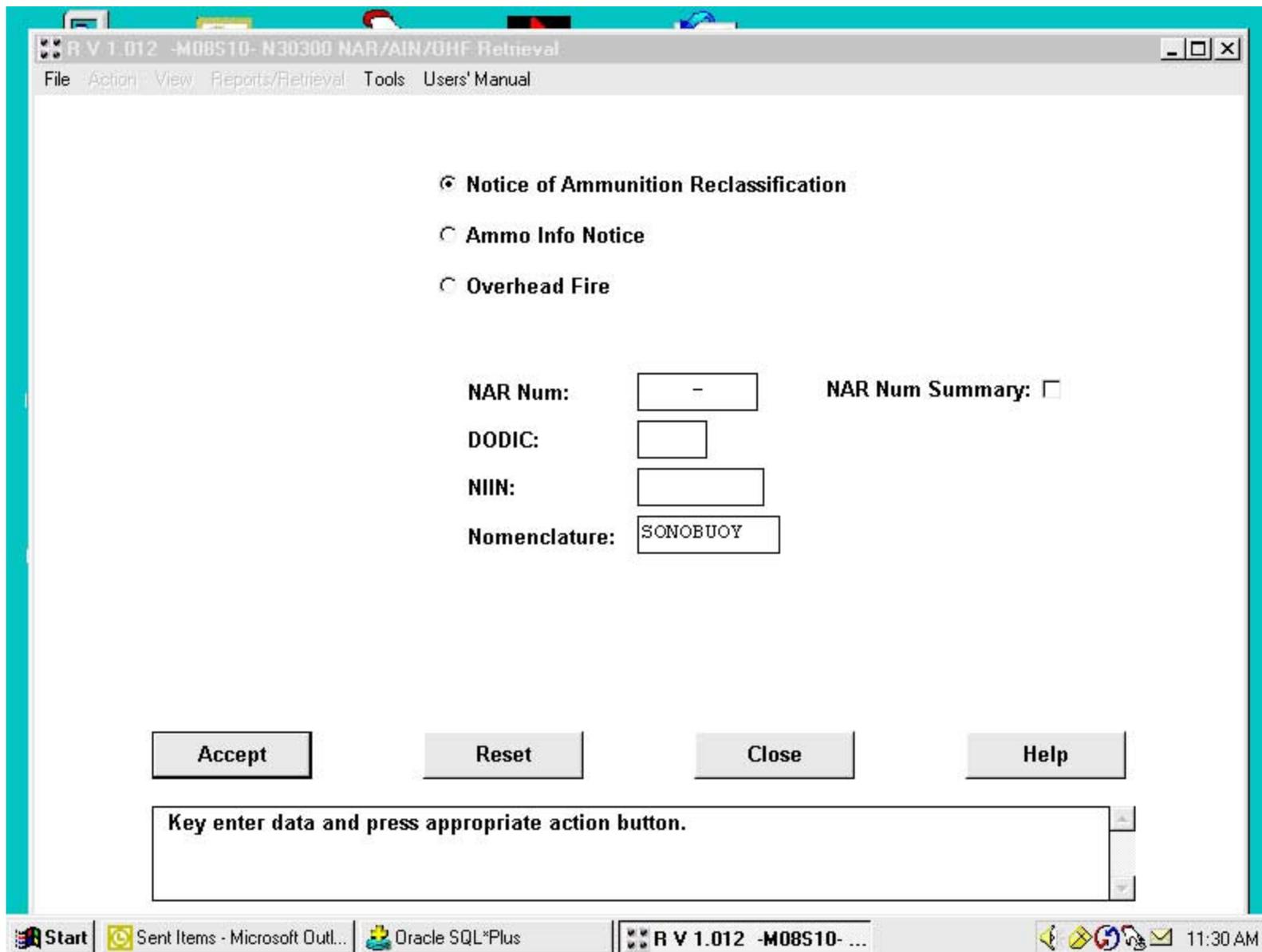
---

- **Per TW024-AA-ORD-010, upon receipt of new NAR message, the following actions must be performed within 3 working days (Note: 24hrs for URGENT NARS):**
  - **Reporting - ATR/TIR will report the CC change to NALC (Must be reported within 24 hours per NAVSUP P724)**
  - **Filing - hardcopy NAR messages should be maintained until next TW024-AA-ORD-010 is issued.**
- **Note: Ammo Info Notices provide precautions or instructions and are not criteria for condition change**









R V 1.012 -M0820- N30300 NAR/AIN/OHF Retrieval

File Action View Reports/Retrieval Tools Users' Manual

**Date 02337** **N30300/SEWELLS POINT** **Time 11:13:3**  
**NAR/AIN/OHF RETRIEVAL**  
**Sorted by Lot Number**

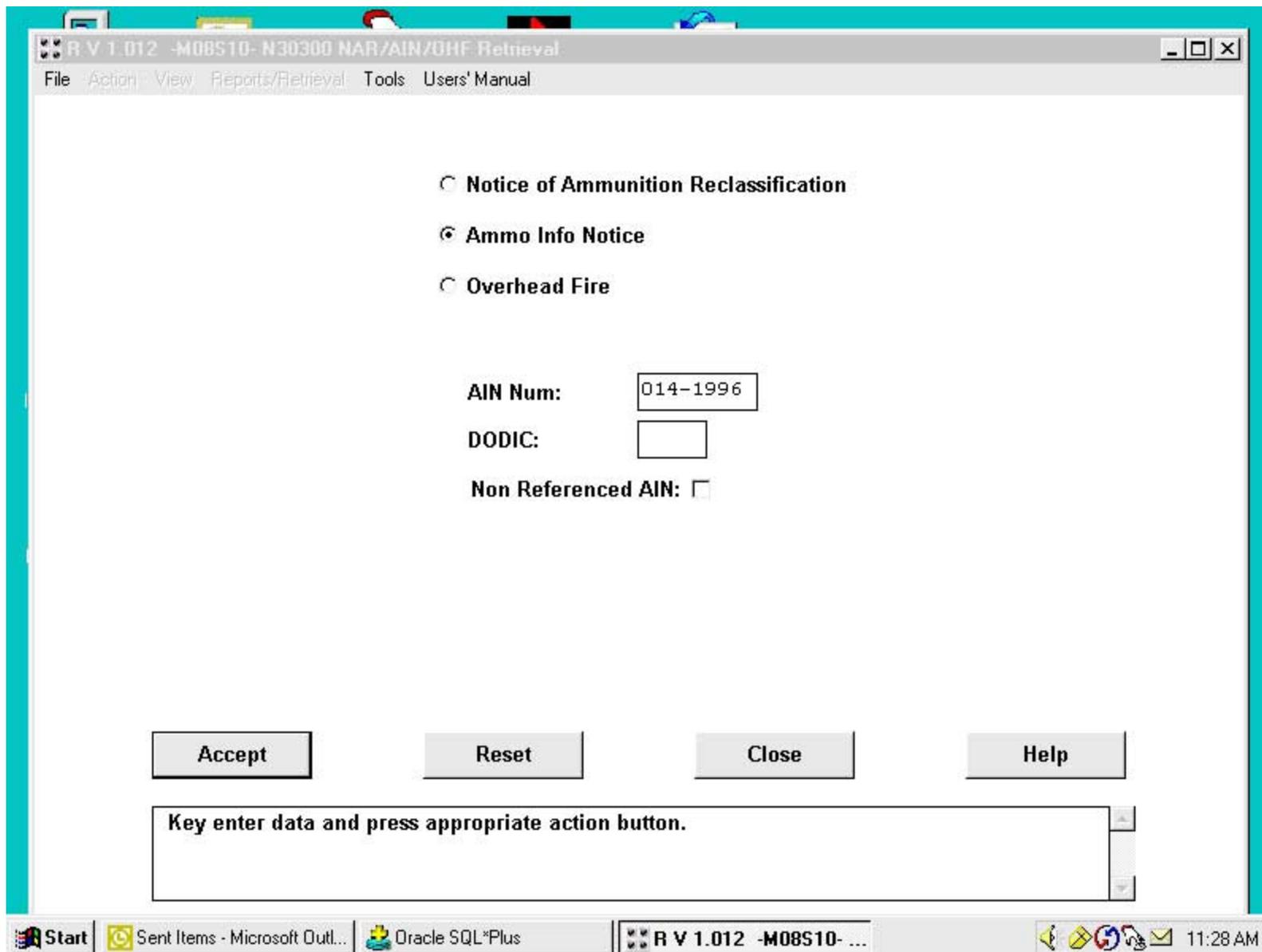
**NALC NIIN Nomenclature/Remarks**  
8W59 SONOBUOY, AN/SSQ-36 W/LAU-126/A, CHANNELS 12, 14 AND 16, HELO-  
**ASSOCIATED AMMO INFO NOTICES (SEE APPENDIX A OF NAVSEA TW024-AA-ORD-010 FOR DETAILS)**  
014-1996

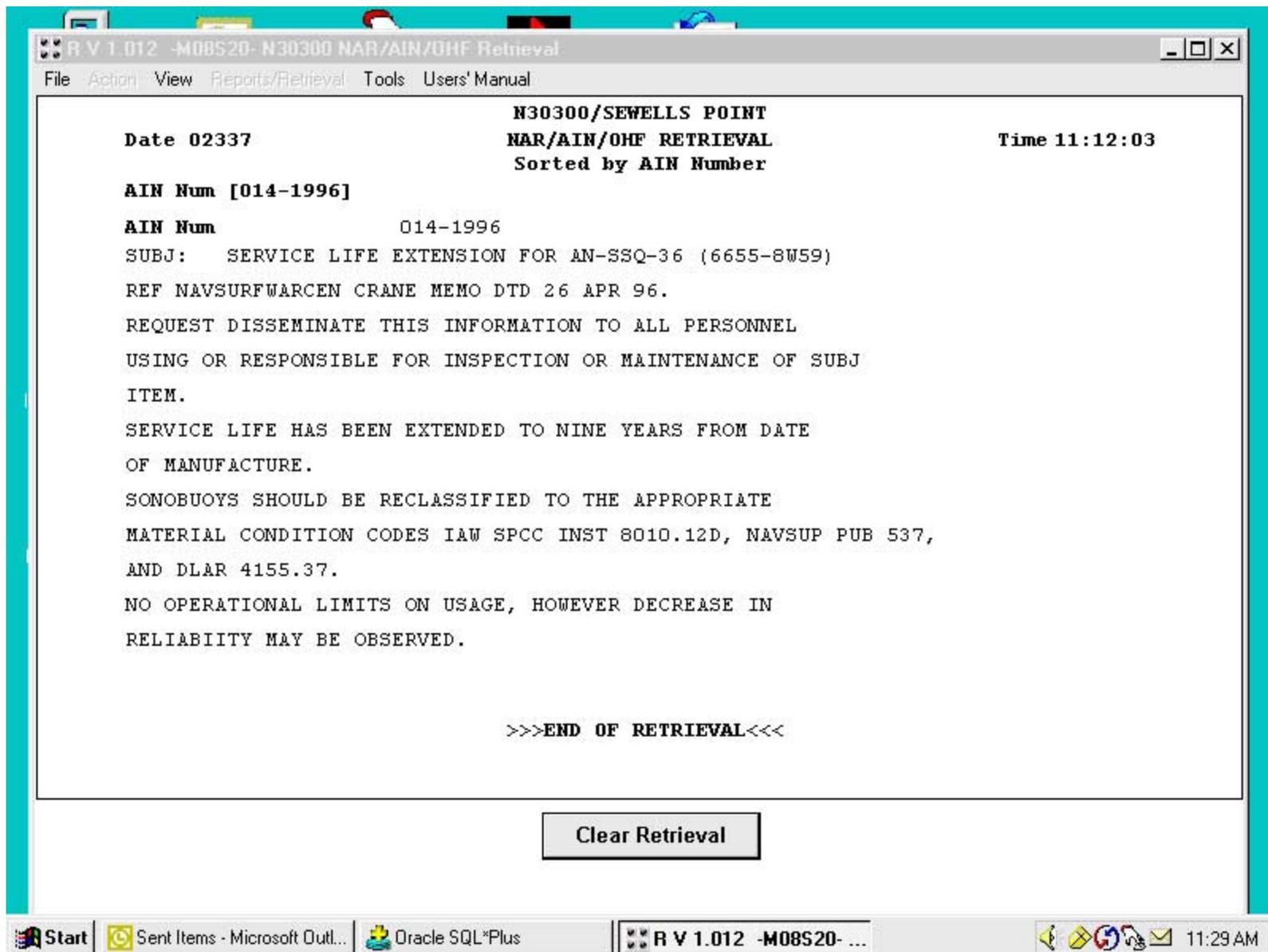
Lot/Serial Number	NAR Cond Cd	NAR Number	Superseding NAR
ALL STOCKS/NSNS RSN: EXPIRED SERVICE LIFE. ALL LOTS HAVE EXCEEDED THE EXTENDED TEN YEAR SERVICE LIFE. NOTE: ALL 8W59 BT BUOYS HAVE EXCEEDED SERVICE LIFE. USE NALCS 8W74 AND 8W78 IN PLACE OF 8W59.	H	0014-01	

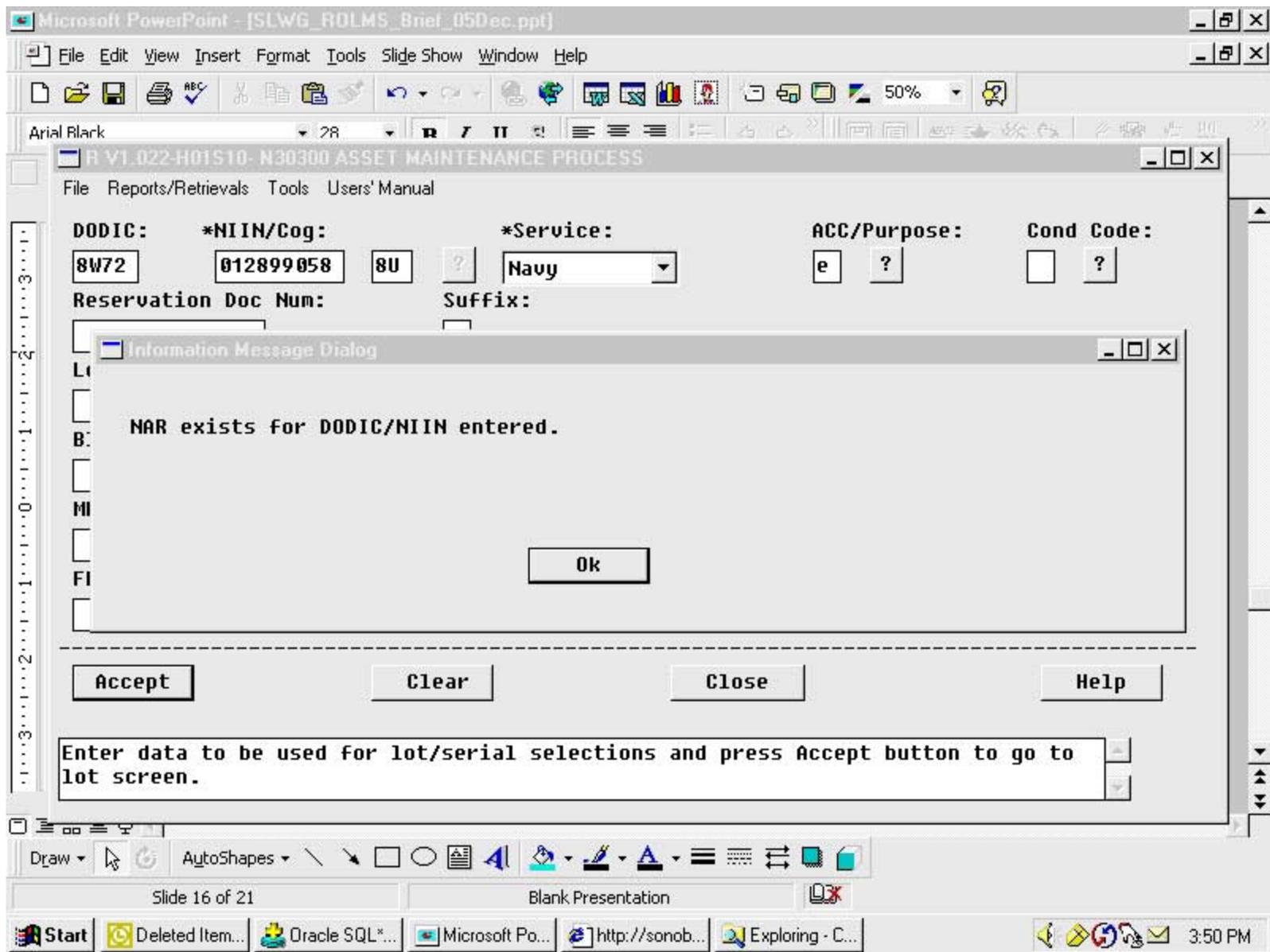
Clear Retrieval

Previous Record Menu Next Record

Start Sent Items - Microsoft Out... Oracle SQL\*Plus R V 1.012 -M0820- ... 11:31 AM







R V1 029-H01S30- N30300 ASSET MAINTENANCE PROCESS

File Reports/Retrievals Tools Users' Manual

NIIN: 012899058 ACC/Purpose: E Cond Code: A Service: Navy

Document Num: Suffix: Lot Num: SONOBUOY-1

Serial Num: Bldg/Hold: KEF2 Begin Grid:

End Grid: MDD/NTD/EXP: TMD: TC:

DOLI: Type Inv: R Captive Flight:

Date/Manf: CDC: FMS Case:

NAR Num: Lot

Qty OH: 0140 - 03

10

Total

Accept Change Accept

Apply Next

Enter data to be changed and next available lot/serial record.

Error Message Dialog

Entry of CDC is mandatory when condition code is other than A.

Ok

Start Deleted Items - Microsoft ... Microsoft PowerPoint - [SL... http://sonobuoy.crane.na... 4:04 PM

**R V1 029-H01S20- N30300 ASSET MAINTENANCE PROCESS**

File View Reports/Retrievals Tools Users' Manual

Sel	CC	Lot/Serial No	MDD	FMS Cs	Customer	CDC-1	Bldg/Hd	Grid	Qty OH	Qty Res
H		SONOBUOY-1				ZAAZZA	KEF2		10	0

**Detail Data**

Lot Num	Serial Num	MDD	FMS Case
SONOBUOY-1			
Customer	CDC-1 CDC-2 CDC-3	Bldg/Hold	Beg Grid
	ZAAZZA	KEF2	
End Grid	Quantity	TMD TC	NAR Num
	10		0140-03
Captive Flight	FFT UIC	Store Date	Temp Stor
Inv Flag	DOLI	Type Inv	Lot Sel
		R	
Date Manf		Local Test Date	

Remarks...

Close

DODIC: 8W72

Reservation I

Mark

---

Accept

Highlight lo

http://sonobuoy.crane.navy.mil/rolms7.htm - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Links Address http://sonobuoy.crane.navy.mil/rolms7.htm Go

**View/Print for Reports/Retrievals**

File Action View Reports/Retrievals Tools Users' Manual

Date 00028 NAR Asset Verification Time

NALC	NIIN	C/C	NAR	NAR C/C	NAR Beg Lot	NAR End Lot	Lot Num	Serial Num	Typ
M572	001819532	A	00592000	F	IH-94L002-003		IH-90R003-001		
Match Possible									
M572	012465282	A	00592000	F	IH-94L002-003		IH-94L002-003		
Match Exact									
			00592000	F	IH-94L002-003		IH94L002-003		
Possible									
			00592000	F	IH-94L002-003		IH94L002-004		
Possible									

>>>END OF REPORT/RETRIEVAL<<<

First Page Next Page Prev Page Last Page Go To Page 1

Page 1 of 1

Done Internet

Start | Inbox - Micro... | Oracle SQL\*... | Microsoft Po... | R V 1.017 N... | http://so... | File Download | 1:13 PM

View/Print for Reports/Retrievals

File Action View Reports/Retrievals Tools Users' Manual

**Date 02337** **N00174/NSWC DETACMENT CRANE** **Time 11:20:34**  
**RECEIPT NAR NOTIFICATION REPORT**

**F TIV96H001-018**

DODIC	NIIN	Cog	Owner	Acc/Purp	Cond Code	Date Trans
R475	003011685	2T	3		B	02330

Document Num	Suf	CLIN	Lot Num	Serial Num	Bldg/Hold	Grid	Quantity
N4993523308002			WCC82E008-005		B0077	A01A1	50
			WCC82E008-005		REC-TMP-DISK		50

NAR Num	NAR Cond Code	Beg Lot/Serial Num	End Lot/Serial Num
00221958	H	TW-18071	
00061959	H	TW-18042	
	H	WRA-22299	
	H	WRA-22302	

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Please use appropriate button to view additional pages of data. Use scroll bar to view full contents of current page

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# NAR COMPLIANCE

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- **Procedures for Downloading and Processing NAR Updates on ROLMS (For Version 7.0)**
- <http://sonobuoy.crane.navy.mil/>
- <https://www.nalc.navy.mil/NALC/mainpage>

main page of NALC's Web - Microsoft Internet Explorer

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Back Links Address <https://www.nalc.navy.mil/NALC/mainpage.html> Go



**NAVSUP**  
NAVAL SUPPLY SYSTEMS COMMAND  
NAVAL AMMUNITION LOGISTICS CENTER

**Contents**

- Home
- What's New
- Organization
- Support
- Library
- Links
- IA Sampling
- NORIP
- OIS
- OEI

## Notice of Ammunition Reclassification 2002

Main

The following NARs are currently available:

By Month

NAR Numbers	Msg DTG	Last Msg DTG
DECEMBER 2002		
0151-03 THRU 0156-03	021930ZDEC02	221930ZNOV02

Tue Dec 3 16:37:52 EST 2002

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# Notice of Ammunition

## 02

**File Download**

You are downloading the file:  
b2233601.nar from www.nalc.navy.mil

Would you like to open the file or save it to your computer?

Always ask before opening this type of file

File:

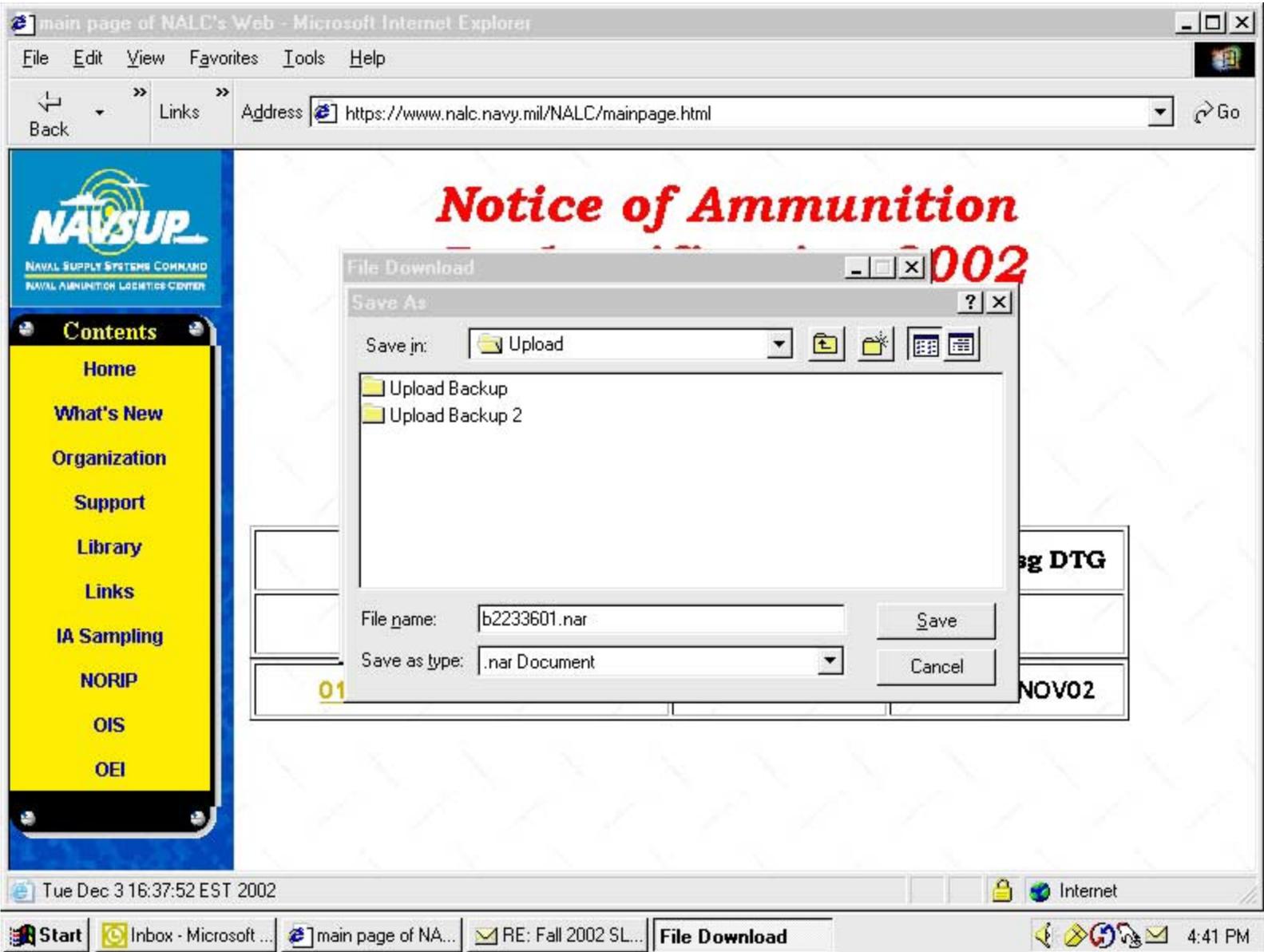
**Msg DTG**

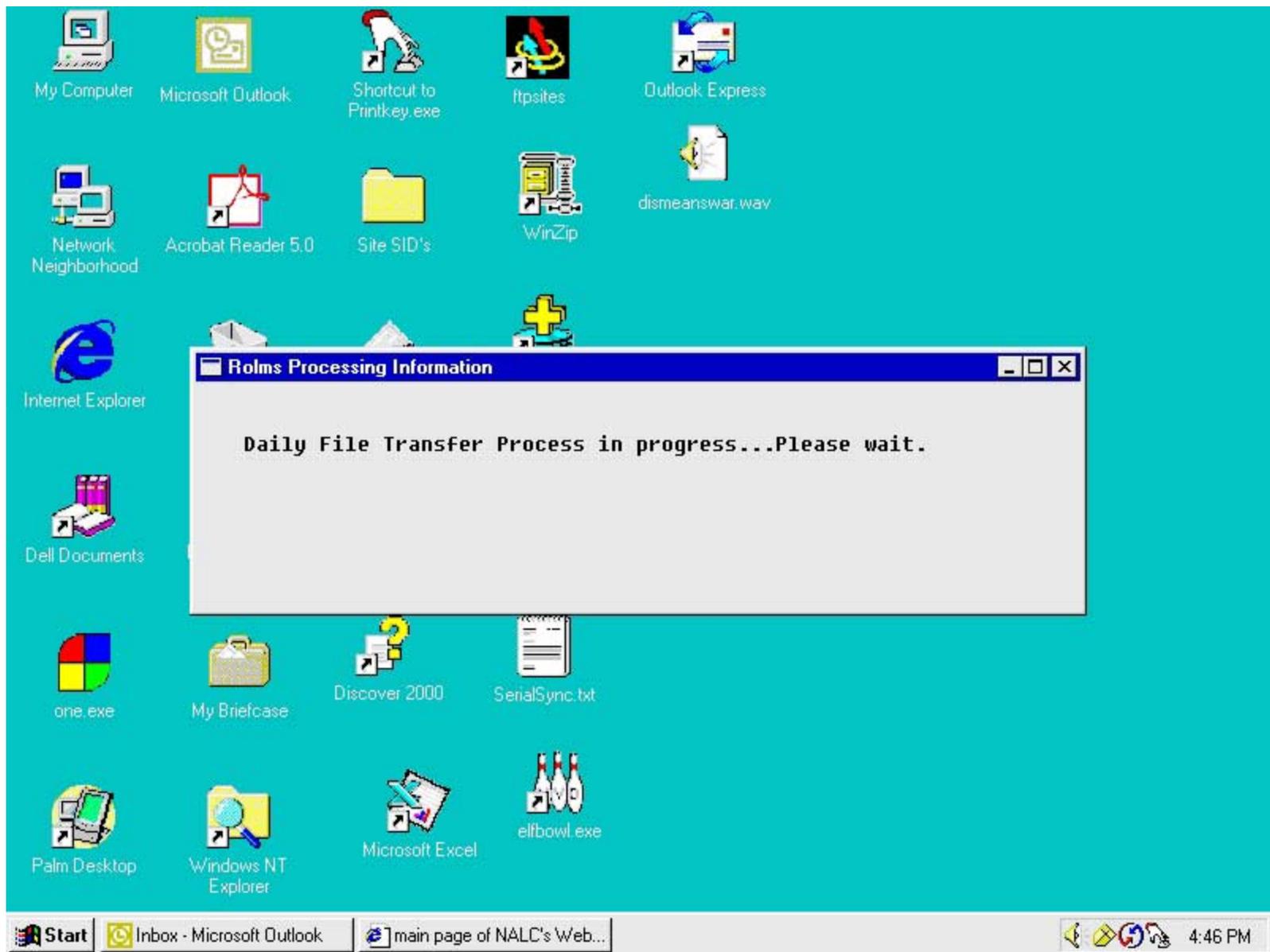
<b>0151-03 THRU 0156-03</b>	<b>021930ZDEC02</b>	<b>221930ZNOV02</b>
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Tue Dec 3 16:37:52 EST 2002

Internet

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For assistance with these procedures, contact the Sonobuoy Team at 812-854-3577 (DSN 482)

For questions or problems with ROLMS software, contact the ROLMS Customer Support Desk at 812-854-3957 (DSN 482)



# ROLMS Rel 8.0/8.1 Rollout Status

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- **Release 8.0**

- **Completed distribution**

- Packages contain the production CD, release instructions, and ROLMS Fall 2002 Newsletter
    - List of software updates is provided as an attachment to this report and is posted on the ROLMS Web Page

- **Release 8.1**

- **The production CD is at the vendor for duplication**

- Began assembling the release packages
    - List of software updates is provided as an attachment to this report and is posted on the ROLMS Web Page