

Sonobuoy Liaison Working Group



Public Version. This briefing material has been purged of certain data not releasable on an unrestricted web site and images to reduce file size. Please see the complete briefing material on the Sonobuoy Secure Server.

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

15 – 16 January 2004

SLWG Agenda

(Exec Comm Only until after Lunch)

- **15 January 2004**
 - **0830: Convene Executive Session** (NSWCC)
 - **0845: Inventory Projections** (NSWCC)
 - **0915: Fleet/OPNAV Briefs** PMA, CLWP & Others
 - **Remainder: Discussion**
 - **1200: Lunch**
 - **1300: Convene Open Session** (NSWCC)
 - **1305: Intro of Participants** All
 - **1320: Action Item Review** (NSWCC)
 - **1330: Program Brief** (PMA264)
 - **1415: Break**
 - **1430: Inventory Projections & NCEA** (NSWCC)
 - **1500: NOLSC Brief** (NOLSC)
 - **1530: Discussion / Action Items**

SLWG Agenda

Open Session

- **16 January 2004**
 - **0900: Convene** (NSWCC)
 - **0915: Action Item Review** (NSWCC)
 - **0930: SSQ-110A Retrofit** (YKTN)
 - **1000: Break**
 - **1020: Logistics** (NSWCC)
 - **1045: Acceptance Test** (NSWCC)
 - **1100: DPRGP** (CPRW2)
 - **Remainder: As Required**

SLWG Charter

- 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

- 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

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

Action Item Review

- 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 Fall 02: : **OPEN / NORIP Action Required**
 - Closing Status: **CLOSED**: The NORIP PRG decided that the sonobuoy management process shall remain 'as is' (mixed Supply/Weapon Management). Additionally, NALC has initiated discussions with DLA for improving data flow (I.e., PLR data) between the two systems.

Action Item Review

- ITEM 02-06: See the Secure Server

Action Item Review

- 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 2nd 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 Fall 02: **OPEN**. ROLMS Help Desk indicates a Maintenance Problem Report (#N001-6) is in work. Should be resolved with future release of ROLMS.
 - Closing Status: **CLOSED**. ROLMS V9.0 fixed this issue.

Action Item Review

- ITEM 02-11: See the Secure Server

Action Item Review

- ITEM 03-01: See the Secure Server

Action Item Review

- ITEM 03-02: See the Secure Server

Action Item Review

- ITEM 03-03: See the Secure Server

Action Item Review

- ITEM 03-04: NAR/OHF/AIN FILES ON NALC WEBSITE DO NOT PROCESS
 - NSWCC: The NAR, OHF, & AIN files posted on the NALC website occasionally do not process correctly in ROLMS.
 - May go unnoticed by ROLMS operator
 - ROLMS Help Desk 'fixes' files and distributes upon request
 - Not all ROLMS operators realize they have a problem
 - Files do not process due to format & naming problems unrecognized by NALC
 - Similar to the Tech Data File problem in SLWG AI # 01-06.
 - AI #01-06 was resolved by using ROLMS Help Desk to validate files
 - This process was never implemented
 - Assigned to: NALC
 - Status Spring 03: **DISCUSSION**
 - Closing Status: **OPEN**.
 - **Note: NAS WI indicates problem fixed – waiting confirmation of process by NOLSC.**

Reopened A.I. 01-06

- ITEM 01-06: ROLMS Tech Data Files
 - NSWCRANE: ROLMS TECH DATA Update Files maintained on NALC Web Site routinely fail to function when attempting to update ROLMS
 - SALTS no longer posts the TECH DATA files; NALC now posts the files
 - NALC-maintained files routinely fail to work (corrupt?)
 - Contacting NALC, there appears to be no QA on the files & instructions for updating ROLMS on Web Site are incorrect and state 12 steps to do what can be done in 3 steps (e.g., save a 14Meg file to floppy disk?)
 - NALC has no ROLMS system to test posted files on. No instructions on NALC web site to indicate how to 'reset' ROLMS if upload fails.
 - Assigned to: NALC
 - Status: : **OPEN**. Referred to NSWCRANE office by NALC after Spring 02 session. "Files will be tested when posted in future. ROLMS office will review process & instructions on NALC web site." – Never implemented.
 - Closing Status: **OPEN**
 - **Note: Same as previous.**

Action Item Review

- ITEM 03-05: OBSOLETE (NAR'd) SSQ-62C STILL IN INVENTORY
 - NSWCC: There are still lithium-powered SSQ-62C units classified as MCC A, B, or C in Fleet stocks.
 - Condemned as expired by NAR # 039-03 (01 NOV 02)
 - Represent a safety hazard to flight crews
 - Large LiSO₂ battery pack
 - Three messages sent to Fleet units holding these units
 - 15 UIC's still reporting 196 'usable' assets
 - They need to be purged from the usable stockpile immediately
 - Assigned to: NALC, FLTCOM's
 - Status Spring 03: **DISCUSSION**
 - Closing Status: **OPEN**. NSWCC working wit TYCOM's and NALC to resolve. Only six commands left to close.

This type of problem also exists for numerous non-lithium NALC's.

Action Item Review

- ITEM 03-06: LOAD PLAN FOR SSQ-101
 - NSWCC: No load plan for the SSQ-101 ADAR buoy exists
 - Load plan must be established
 - Assigned to: NALC, FLTCOM's
 - Status Spring 03: **DISCUSSION**. No shore station load plan for SSQ-101 in place. There is a Combat Loadout requirement in the NNOR.
 - Closing Status: **OPEN**. CLF has established a Load Plan for ADAR. CPF has not yet established a Load Plan.

Action Item Review

- ITEM 03-07: See the Secure Server

Action Item Review

- ITEM 03-08: See the Secure Server

Action Item Review

- ITEM 03-09: See the Secure Server

Action Item Review

- ITEM 03-10: See the Secure Server

Action Item Review

- ITEM 03-11: SHORT STRING SONOBUOYS
 - CHSLWL: HSL East Coast has a need for short string (less than 50') sonobuoys for training off of the Jax/Norfolk areas.
 - Short string DIFAR and DICASS buoys would allow realistic training in certain areas of CONUS.
 - Capability may be useful in other parts of the world.
 - Assigned to: PMA, SERC
 - Status Spring 03: **DISCUSSION**. Discussion of difficulties in certifying short string sensors..
 - Closing Status: **CLOSED**. Provided two pallets of SSQ-53F to CHSLWL in July 03. No feedback as yet. DICASS SSQ-62E already has a 50' setting.

Action Item Review

- ITEM 03-12: SSQ-53F CAL CURVES ON SECURE SERVER
 - ONI: Some activities are not on the distribution list for SSQ-53F CO Calibration curves.
 - Post on the Sonobuoy Secure Server if possible.
 - Assigned to: PMA, NSWCC
 - Status Spring 03: **DISCUSSION**. Generally positive.
 - Closing Status: **OPEN**. NSWCC will format the Cal Curve files and post on the Sonobuoy Secure Server.

New Action Items

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

New Action Item

- ITEM 04-01: See the Secure Server

New Action Item

- ITEM 04-02: See the Secure Server

New Action Item

- ITEM 04-03: PRODUCTION DELIVERY SCHEDULE
 - CPF: Request a routine report on Production Delivery Schedules for sonobuoys be provided to CPF and others as desired.
 - Allows more effective management of stockpile and storage space in Fleet sites.
 - Assigned to: PMA/APML
 - Status Fall 03: **DISCUSSION**. Data is available and can be provided
 - Closing Status: **OPEN**. APML will develop report to cover production delivery schedule for sonobuoys and provide to CPF and others as requested. First report in February 2004.

New Action Item

- ITEM 04-04: SONOBUOY STIMULATION SYSTEM
 - CPRW5: Request PMA-264 work with other PMA's to obtain Sonobuoy Stimulator for Fleet T&R requirements.
 - Data package submitted for forwarding to PMA-264..
 - Assigned to: PMA/APML
 - Status Fall 03: **DISCUSSION.**
 - Closing Status: **OPEN.** APML will forward data package to PMA-264B for consideration.

New Action Item

- ITEM 04-05: SSQ-110A RETROFIT COMPLETION MESSAGE
 - CPRG: Request a message covering the status/completion of the SSQ-110A retrofit effort be sent.
 - Insures all levels of Command are informed of status.
 - Assigned to: PMA/APML
 - Status Fall 03: **DISCUSSION**. Data is available and can be provided
 - Closing Status: **OPEN**. APML will release a status report covering the SSQ-110A retrofit effort week of 19 Jan 04. (*Released 1/21/04*)

New Action Item

- ITEM 04-06: See the Secure Server

New Action Item

- ITEM 04-07: See the Secure Server

New Action Item

- ITEM 04-08: SERVICE LEVEL CODE
 - CNSP: Identify the Service Level Code requirement for sonobuoy Lot tracking requirement and submit to DLA/NAVSUP.
 - Request the correct Service Level Code of NAVSUP to insure correct/usable Lot Data is submitted for sonobuoys.
 - Assigned to: NOLSC IM
 - Status Fall 03: **DISCUSSION**.
 - Closing Status: **OPEN**. NOLSC Item Manager research and advise APML of action required to request/assign correct Service Level Code to insure Lot Data from DLA/NAVSUP activities that handle sonobuoys..

New Action Item

- ITEM 04-09: CODR vs SDR REPORTS
 - CNSP: Use the Conventional Ordnance Deficiency Report (CODR) for sonobuoy failure reporting.
 - The Sonobuoy Discrepancy Report (SDR) in the IETM is a redundant report.
 - The CODR shall be used for reporting ordnance failures.
 - Assigned to: PMA/APML
 - Status Fall 03: **DISCUSSION.**
 - Closing Status: **OPEN.** APML will remove the SDR from future versions of the Sonobuoy IETM. Failure reporting will be solicited in future using the CODR format.

New Action Item

- ITEM 04-10: See the Secure Server

New Action Item

- ITEM 04-11: SLWG WITH THE LW TORP MEETING
 - CPF: Hold future sessions of the SLWG at the same time as the Lightweight Torpedo meeting.
 - A lot of folks that attend the Lightweight Torpedo meeting also attend the SLWG. Holding them together or concurrently will save dollars and time.
 - Assigned to: APML
 - Status Fall 03: **DISCUSSION**. Generally felt to be a good idea.
 - Closing Status: **OPEN**. APML will liaison with the LW Torpedo offices to coordinate moving one or both meeting so they can be held concurrently.

New Action Item

- ITEM 04-12: See the Secure Server



AIR ASW SYSTEMS SLWG BRIEF

This Brief is For Official Use Only and cannot be posted on the Unrestricted Web Site. Please go to the Sonobuoy Secure Server for this brief.

**Program Manager, Air ASW Systems, PMA-264
15 January 2004**

NCEA Execution & Inventory Projections FY04-FY10

Crane Division,
Naval Surface Warfare Center

NCEA Tracking

- 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

Expenditures FY-03: CPF & CLF

See the Secure Server

Expenditures FY-04: CPF & CLF

See the Secure Server

Inventory Projections

- 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
- The world-wide stockpile of sonobuoys is insufficient to meet requirements and will get worse
 - Accurate short-term requirement analysis, accurate ammunition management (reporting), and proactive management of distribution critical

Inventory History

See the Secure Server

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 (Exp) + Procurement =
Sonobuoy Inventory

Sonobuoy Inv Proj: SSQ-

See the Secure Server

PLR / BG3

See the Secure Server



NOW FOR
ANOTHER
LOOK AT PLR

PLR COMPLIANCE *

DLA/FISC = 0 / 9

SHIPS W/BUOYS = 93 / 123

SHORE NAVY = 11 / 65

* As of 17 Dec 03 PLR

PLR / BG3

- **Lack of PLR/BG3 data precludes effective management of Lots that are expiring (NAR's, moving to sites that can use them, etc.)**
- **Current problem is effective management of the VLAD (SSQ-77) stockpile).**
- **Next big PLR/BG3 issue will be SSQ-62 sonobuoys with EFS batteries in the EFS circuit.**
- **Fleet Commanders and Type Commanders need to lean on reporters.**
- **NALC needs to resolve the issue with DLA and the FISC's.**



SSQ-77A(CZ) Rework Effort

See the Secure Server

Sonobuoy Logistics Working Group Meeting (SLWG)

AN/SSQ-110A Rework / Retrofit

January 2004

See the Secure Server

**Naval Surface Warfare Center
Indian Head Division
Yorktown Detachment**

Sonobuoy Logistics

Crane Division,
Naval Surface Warfare Center

Crane Division, Naval Surface Warfare Center (Code 6074)

- 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

- Unrestricted Web Site
 - <http://sonobuoy.crane.navy.mil>
 - General Sonobuoy Program Data
 - News, current issues, messages, etc.
 - ROLMS AIT Users Manual
- Secure Web Site
 - <Call>
 - 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
- SIPERNET: <Call>

Current 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: ALL EXPIRED (NAR 0590-03) (Reintroduced Dec 03, AIN)
- **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)
- **Q62C:** NALC 8W79: ALL EXPIRED (NAR 0039-03)
- **Q77A(CZ):** NALC 8W75: ALL EXPIRED (NAR 0889-02); Refurb of 9,000 units 04
- **Q77B:** NALC 8W76: NSWCC 141900Z APR 98: 10 YEARS (12/01 - 12/04)
- **Q86:** NALC 8W68: ALL EXPIRED (NAR 0290-02)
- **Q110:** NALC 8W77: NSWCC 181615Z SEP 02: 15 YEARS
- **Q110A:** NALC 8W80: ALL EXPIRED (NAR 0298-02) (Not Candidate for Extension).
Most 8W81 expire 03; rework of 12,000 units underway

Recent Messages

(Posted on Web Page)

- **NAVAMMOLOGCEN MECHANICSBURG PA 252059Z JUN 03:** Lead NALC change for SSQ-53 and SSQ-62 sonobuoys.
- **NAVAMMOLOGCEN MECHANICSBURG PA 021935Z JUL 03:** Discussion of Lot Number marking on 'reworked' SSQ-110A (NALC 8W81).
- **NAVAMMOLOGCEN MECHANICSBURG PA 251930Z JUL 03:** NAR 0774-03; Condemns certain Lots of the SSQ-110 (8W77).
- **CNO WASHINGTON DC 281937Z JUL 03:** Restricts SSQ-53 usage through 1st Quarter FY04; establishes distribution split for new production material between PACFLT & LANTFLT.
- **NAVSURFWARCENDIV CRANE IN 062124Z AUG 03:** Announces reintroduction of the SSQ-53D (8W72) into the inventory and discusses management actions required by Fleet managers.
- **NAVSURFWARCENDIV CRANE IN 141539Z AUG 03:** Discusses importance of end-of-FY03 reporting.

Recent Messages

(Contd.)

- **NAVSURFWARCENDIV CRANE IN 150044Z AUG 03:** Discusses the critical importance of PLR/BG3 reporting for all buoys, particularly the SSQ-77.
- **NAVSURFWARCENDIV CRANE IN 241929Z SEP 03:** Reiterates the importance of PLR/BG3 reporting for 8U and 2E COG sonobuoys.
- **NAVAMMOLOGCEN MECHANICSBURG PA 161930Z OCT 03:** NAR 077-04; Suspends use of 'reworked' SSQ-110A (8W81) until further notice.
- **NAVSURFWARCENDIV CRANE IN 250204Z NOV 03:** Discusses the 'retrofit' effort for 'reworked' SSQ-110A units.
- **NAVAMMOLOGCEN MECHANICSBURG PA 081940Z DEC 03:** AIN 023-04; Reintroduces the SSQ-53D (8W72) into the active inventory.
- **NAVAMMOLOGCEN MECHANICSBURG PA 081945Z DEC 03:** AIN 024-04; Reintroduces the SSQ-77A(CZ) (8W75) into the active inventory.
- **NAVSURFWARCENDIV CRANE IN 091810Z DEC 03:** Discusses the management actions required with the reintroduction of the SSQ-53D (8W72) and SSQ-77A(CZ) (8W75) into Fleet stocks.

Sonobuoy IETM

- 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
 - NATO version in work
 - Adobe Acrobat Reader V4.0 or V5.0

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
- Current failure trends that affect reliability rates & extensions
 - Sonobuoys with Alkaline batteries in EFS
 - Trend indicates five-year max service life for these units
 - Affects SSQ-110A, SSQ-53E, SSQ-53F, SSQ-62E

Lot Acceptance Test

Crane Division, NSWC (6074)

SLWG

15 – 16 Jan 04

Lot Acceptance Test (LAT) Program

- San Clemente Island is primary test location

LAT

- Pre-test timeline
 - Manufacturer produces entire lot
 - Government selects 31 units for lot sample
 - Sample shipped to San Diego and Test scheduled
- Test timeline
 - Units deployed as per test plan
 - Failures are noted and failed units recovered
 - Failed units returned to manufacturer for analysis
 - Acceptance/Rejection of lot determined by number of failures

LAT

- Typical failure modes from LAT
 - Audio
 - Delayed, Omni/Dir intermittent/lost, Noise, Modulation intermittent/lost, Level too high/low
 - RF
 - None, Delayed, Intermittent, Life too long/short, Level too high/low, Spurious radiation
 - Deployment
 - Bearing/Phase
 - Sinkers
 - Command
 - Flight
 - EFS/Inspection