



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101

IN REPLY REFER TO

NAVSEAINST 4790.7B
OPR CEL-TD
29 September 1988

NAVSEA INSTRUCTION 4790.7B

From: Commander, Naval Sea Systems Command

Subj: OPERATIONAL SEQUENCING SYSTEMS (OSS)

Ref: (a) OPNAVINST 9200.3 (Engineering Operational Sequencing System (EOSS))
(b) OPNAV ltr 09/7U300894 of 11 May 87 (AEGIS Combat System Operational Sequencing System (CSOSS))
(c) OPNAV ltr 9090 Ser 35/7U388598 of 23 Nov 87 (CSOSS)
(d) Fleet Modernization Program Management and Operations Manual (SL720-AA-MAN-010)
(e) EOSS Development Handbook
(f) CSOSS General Specification

Encl: (1) EOSS, AFOSS, CFOSS, and SDOSS Feedback Procedures
(2) CSOSS Feedback Procedures

1. Purpose. To revise Command policy for development and maintenance of Operational Sequencing Systems (OSS), to assign responsibilities within the Command, and to identify organizational and functional interfaces within Headquarters and with Fleet and other commands. This is a major revision to the current instruction.

2. Cancellation. NAVSEAINST 4790.7A of 9 February 1985.

3. Background

a. References (a), (b) and (c) assign to NAVSEA the responsibility for various OSS programs.

b. The concept of applying a systems approach to operational documentation for engineering plants was initiated with the development of the Engineering Operational Sequencing System (EOSS). This concept requires the use of systematic and detailed procedures with charts and diagrams tailored to each ship's configuration. EOSS provides the single consolidated source of information relative to the proper operation and casualty control of shipboard propulsion systems. The systems approach and this concept have been selectively applied to ship propulsion plants for steam, gas turbine and diesel driven surface ships, shipboard pollution abatement systems for all surface ships, and cargo fuel systems and aviation fuel systems for selected surface ships.



NAVSEAINST 4790.7B
29 September 1988

Additionally, non-tactical combat system equipment operations for surface combatants will be covered by an OSS, commencing with CG 47 and DDG 51 class ships.

c. Current OSS developed under the systems concept have been assigned the following designations:

- (1) Engineering Operational Sequencing System (EOSS)
- (2) Sewage Disposal Operational Sequencing System (SDOSS)
- (3) Cargo Fuel Operational Sequencing System (CFOSS)
- (4) Aviation Fuel Operational Sequencing System (AFOSS)
- (5) Combat System Operational Sequencing System (CSOSS)

4. Policy. OSS documents will be developed and installed in designated ships and shore activities. EOSS is required for 1200 psi steam, 600 psi steam, gas turbine and diesel driven surface ships by reference (a). SDOSS is required for all surface ships. AFOSS is required for aircraft carriers and all surface ships with aviation JP-5 systems. CFOSS is required for automotive gasoline (MOGAS) systems in amphibious ships, and cargo fuel and JP-5 systems in oiler-type ships. CSOSS is required for combat systems in all CG 47 Class and DDG 51 Class ships by reference (b), and for other designated ships by reference (c). Installed EOSS, SDOSS, AFOSS and CFOSS supersedes all existing operational information for the systems and equipment covered. CSOSS provides authoritative technical operational information for combat system initialization and casualty control. OSS documentation is developed for shipboard watch areas, is located in respective spaces and is to be adhered to as written.

There may be instances wherein deviation may be required. Commanding Officers may modify OSS procedures only under one of the three following conditions: (1) When immediate safety or health considerations warrant short term variation from the procedures; (2) When the systems covered must be operated outside the normal operating parameters due to material deficiencies; (3) When the equipment or system operating parameters change because of authorized equipment or procedural changes and the required OSS changes have not been provided. In these instances, the Commanding Officer must authorize the deviation in writing and shall report such changes under feedback types defined in paragraph 4d and procedures described in enclosures (1) and (2).

Any reported deviation shall be logged by ship's force to ensure the proposed change and subsequent response are properly monitored and implemented when required.

a. The OSS development process requires developing and approving a class prototype to serve as the baseline for the development of other ships of the class. Distribution of the class prototype packages as an interim measure will be made in coordination with Type Commander requirements.

b. Where applicable, EOSS and CSOSS development for training facilities will be completed on a priority basis following completion of respective prototypes.

c. EOSS, AFOSS, CFOSS, SDOSS, and CSOSS will be maintained to reflect authorized ship alterations, configuration changes and approved Fleet recommendations. All OSS are ship selected records (ship specific), and comprehensive updates for ship alterations during regular overhauls or their equivalent are funded in accordance with reference (d).

d. Revisions to all types of OSS approved as a result of Fleet recommendations or configuration changes accomplished during operating periods are initiated via feedback report, as required by references (a), (b) and (c). A uniform feedback procedure will be maintained to provide Fleet personnel with a means of advising Type Commanders, Naval Sea Systems Command (NAVSEA) and Naval Ship Weapon Systems Engineering Station (NAVSHIPWPMSYSENGSTA) of OSS documentation discrepancies. The vehicles for reporting technical discrepancies are naval messages for urgent items and the Planned Maintenance System (PMS) Feedback Report form (OPNAV Form 4790/7B) for routine items. Urgent and routine reports both are Technical Feedback Reports (TFBR), as defined in paragraphs 4d(1) and 4d(2) below. If operating parameters covered by OSS change due to authorized equipment, material or procedural changes, the Commanding Officer may authorize changes to affected installed OSS documentation. However, TFBRs must be immediately sent to cover any such changes, using procedures provided in enclosures (1) and (2) for submitting and processing feedback reports for each type of OSS.

(1) Urgent TFBR. If, in the judgment of the Commanding Officer, a personnel safety hazard or equipment damage situation is determined to exist, the TFBR sent by naval message is categorized as "urgent".

NAVSEAINST 4790.7B
29 September 1988

(2) Routine TFBR. TFBRs used to report errors in procedures, diagrams, valve and switch alignment, equipment or system design, installation deficiencies identified during OSS shipboard validation or usage, and recommended improvements or corrective actions are categorized as "routine". These are normally submitted on PMS Feedback Report forms. In specific cases there may be severe effects (e.g., a procedural problem which adversely affects operational effectiveness of a system), necessitating that otherwise "routine" TFBRs be selectively categorized as "urgent" by the Commanding Officer and reported by naval message as in paragraph 4d(1) above.

e. Since OSS provides essential documentation support for installed systems, inclusion of OSS requirements in the total integrated logistics support plan for an affected ship or system must be ensured. The planning for installation of OSS in new construction or major modification of ships must be covered in the technical data section of the Integrated Logistics Support Plan (ILSP). A discussion of how the planned OSS will be provided to support training systems must be covered in the ISLP's training devices section. Budgeting and funding necessary to install and update OSS will be covered in the Logistic Requirement and Funding Plan (LRFP).

5. Responsibilities. The responsibilities for OSS development and installation for designated ships and shore activities are defined below:

a. Deputy Chief Engineer for Logistics (CHENG-L) through the Technical Data Division (CEL-TD)

(1) Plan, coordinate and manage the EOSS, AFOSS, CFOSS and SDOSS programs within NAVSEA.

(2) Budget for the development, technical review, installation, and maintenance of EOSS. Determine funding requirements for EOSS updates and provide those requirements to the Fleet Modernization Program Policy and Financial Management Division (SEA 934) per reference (d).

(3) Manage the development, approval, and installation of EOSS in designated ships and training facilities.

(4) Provide for the initial development of EOSS, AFOSS, CFOSS, and SDOSS for new construction and conversion ships as tasked and funded by the applicable Ships Directorate.

(5) Provide EOSS specification standards for new construction and conversion ships. Reference (e) provides specific guidance for EOSS.

(6) Review and approve the class prototype EOSS, AFOSS, CFOSS, and SDOSS for each class designated.

(7) Manage the EOSS maintenance system to provide for document revisions resulting from procedure changes incident to ship alterations, equipment installations, technical manual revisions, procedural improvements, etc. This process will be coordinated with SEA 934 for funding of selected record data updates.

(8) Establish and maintain technical specifications for the development, review, certification and installation of EOSS, AFOSS, CFOSS and SDOSS.

(9) Manage the documentation change control system.

(10) Provide representation on "hot check" validations of prototype EOSS documentation. Resolve procedural and technical problems on site or coordinate the resolution of lingering issues with the responsible technical agents.

(11) Conduct periodic audits of NAVSEA activities which are assigned specific EOSS, AFOSS, CFOSS and SDOSS tasks and functions to ensure compliance with established specifications, standards, and schedules. Direct corrective action as necessary.

(12) Assign tasks and fund appropriate NAVSEA activities to perform EOSS, AFOSS, CFOSS and SDOSS work under established specifications and standards.

(13) Manage the system, ensuring feedback processing as defined in enclosure (1).

(14) Budget for the development, technical review, installation, and maintenance of AFOSS, CFOSS and SDOSS. These actions shall be coordinated with the respective Ships Directorate. Provide funding requirements to SEA 934 for updates associated with overhauls.

(15) Identify AFOSS, CFOSS and SDOSS distribution.

b. Naval Ship Systems Engineering Station (NAVSSSES)

- (1) Act as the NAVSEA technical agent to CEL-TD for development of EOSS, AFOSS, CFOSS, and SDOSS under NAVSEA guidelines for assigned ships, as funded.
- (2) Certify that EOSS, AFOSS, CFOSS and SDOSS documents are developed under NAVSEA specifications and standards. Approve EOSS update packages. Request NAVSEA approval of all EOSS new development packages.
- (3) Provide recommendations for the revision of NAVSEA policy or technical standards for EOSS, AFOSS, CFOSS and SDOSS.
- (4) Maintain an EOSS accountability and documentation change control system.
- (5) Maintain standardization of EOSS, AFOSS, CFOSS and SDOSS documentation, ensuring the uniformity of words, terms, phrases, symbols, steps, etc. throughout the systems.
- (6) Reapply valid OSS documents when their applicability occurs in other packages.
- (7) Provide review of and response to all EOSS, AFOSS, CFOSS and SDOSS feedback, following procedures in enclosure (1).
- (8) Provide representation as Team Leader on both "cold" and "hot check" validations and EOSS, AFOSS, CFOSS, and SDOSS installations. Resolve procedural and technical problems on site or coordinate the resolution of lingering issues with the respective NAVSEA program managers.
- (9) Review ship alteration data to identify necessary document revision.
- (10) Update EOSS, AFOSS, CFOSS and SDOSS, as funded, to reflect authorized NAVSEA ship alterations installed during regular overhaul or equivalent periods.
- (11) Provide updated OSS selected records to the ship at the milestones indicated by the FMP manual, reference (d).
- (12) Provide updated program management data to the respective NAVSEA program managers quarterly or more frequently when required.
- (13) Coordinate and maintain up-to-date plans and schedules for the development and maintenance of OSS documents.

Coordinate ship visits by OSS contractors and other assigned personnel to assure proper scheduling within operational commanders' guidelines.

(14) Assign and control identification numbering of all new and updated documents.

(15) Maintain a feedback control system for EOSS, AFOSS, CFOSS and SDOSS documents.

(16) Assemble and provide AFOSS, CFOSS and SDOSS installation and maintenance packages upon approval by NAVSEA.

(17) Maintain technical specifications for the development, review, certification and installation of EOSS, AFOSS, CFOSS, and SDOSS. Submit recommendations for revision to NAVSEA for approval.

(18) Act as NAVSEA agent to coordinate the supply of source documentation to contractors. All requests for this documentation must be in writing and shall be provided on a "need to know" basis.

(19) Determine printing and laminating requirements, maintaining an adequate software stock. Submit funding requirements to CEL-TD.

(20) Provide EOSS, AFOSS, CFOSS, and SDOSS documents to Type Commanders and Training Commands upon request. Provide information packages to non-fleet activities upon written request on a reimbursable basis.

(21) Print, laminate, assemble and provide EOSS installation and maintenance packages upon approval by CEL-TD.

(22) Determine EOSS binder and stowage rack requirements and maintain an adequate stock.

(23) Maintain the EOSS document inventory control and feedback control systems.

c. The AEGIS Shipbuilding Program Office (PMS400) is responsible for CSOSS on CG 47 and DDG 51 class ships. The Combat Systems Engineering Office (SEA 06D) is responsible for CSOSS on non-AEGIS ships.

(1) Plan, coordinate and manage the CSOSS program within NAVSEA.

NAVSEAINST 4790.7B
29 September 1988

(2) Budget for the development, technical review, installation, and maintenance of CSOSS. Determine funding requirements for CSOSS updates and provide those requirements to the appropriate office per reference (d).

(3) Develop, approve, and install CSOSS in designated ships and training facilities. Assure CSOSS training is provided for combat system personnel at appropriate training locations and facilities in preparation for duty at a CSOSS-supported unit or activity.

(4) Provide initial development of CSOSS for new construction and conversion ships as tasked and funded by the PMS.

(5) Provide CSOSS specification standards for new construction and conversion ships. Reference (f) provides specific guidance for CSOSS.

(6) Review and approve the class prototype CSOSS for each class designated.

(7) Manage the CSOSS life-cycle maintenance system to provide for document revisions resulting from procedure changes incident to ship alterations, equipment installations, technical manual revisions, procedural improvements, etc. This process will be coordinated with the Ship Program Manager for funding of selected record data updates.

(8) Establish and maintain technical specifications for the development, review, certification and installation of the CSOSS. Reference (f) provides specific guidance for CSOSS.

(9) Manage the CSOSS life-cycle maintenance system to assure timely change control in support of user feedback reports.

(10) Provide representation on "hot check" validations of prototype CSOSS documentation. Resolve procedural and technical problems on site or coordinate the resolution of lingering issues with the responsible technical agents.

(11) Conduct periodic audits of NAVSEA activities are assigned specific CSOSS tasks and functions to ensure compliance with established specifications, standards, and schedules. Direct corrective action as necessary.

(12) Assign tasks and fund appropriate NAVSEA activities to perform CSOSS work assignments under established specifications and standards.

(13) Manage the system, ensuring feedback processing as defined in enclosure (2).

d. Naval Ship Weapon Systems Engineering Station -
(NAVSHIPWPNSYSENGSTA)

(1) Act as the NAVSEA technical agent for development of CSOSS under NAVSEA guidelines for assigned ships.

(2) Certify that CSOSS documents are developed under NAVSEA specification and standards. Request NAVSEA approval of all CSOSS development and update packages.

(3) Provide recommendations for the revision of NAVSEA policy or technical standards for CSOSS.

(4) Maintain a CSOSS accountability and documentation change control system.

(5) Maintain standardization of CSOSS documentation both internally and with other OSS, ensuring the uniformity of words, terms, phrases, symbols, steps, etc. throughout the system. Assure correct integration of CSOSS with EOSS for joint or mutual support operations, such as required for electrical power systems and other auxiliary services, in cooperation with NAVSSES.

(6) Reapply valid CSOSS components and documents when their applicability occurs in other packages on a class-wide basis or within baselines.

(7) Provide review and response to all CSOSS feedback, following procedures in enclosure (2).

(8) As assigned by NAVSEA, provide representation as Team Leader on shipboard "hot check" validations and during final CSOSS installations. Resolve procedural and technical problems on site or coordinate the resolution of lingering issues with the respective NAVSEA program managers. Have as the primary objective elimination of procedural and safety problems in the installed CSOSS package, thus reducing the need for urgent feedback reports from operational units.

(9) Review ship alteration data to identify necessary CSOSS revisions.

(10) Coordinate the update of CSOSS, as funded, to reflect authorized NAVSEA ship alterations installed during industrial availabilities.

NAVSEAINST 4790.7B
29 September 1988

(11) Provide updated OSS selected records to the ship at the milestones indicated by the FMP manual, reference (d).

(12) Provide updated program management data to the respective NAVSEA program managers quarterly, or more frequently when required.

(13) Coordinate and maintain up-to-date plans and schedules for the development and maintenance of CSOSS packages in compliance with ship schedules as provided by operational commanders. Coordinate ship visits by CSOSS personnel to assure proper scheduling within operational commanders' guidelines.

(14) Assign and control identification numbering of all new and updated documents which comprise CSOSS installation packages.

(15) Maintain a feedback control system for CSOSS documents.

(16) As the NAVSEA technical agent for CSOSS, coordinate and oversee the processes required to produce, assemble, quality check, and provide CSOSS installation and maintenance packages upon approval by NAVSEA.

(17) Maintain technical specifications for the development, review, certification and installation of CSOSS as per reference (f). Submit recommendations for revision to NAVSEA for approval.

(18) Act as NAVSEA agent to coordinate the supply of source documentation to outside activities. All requests for this documentation must be in writing and shall be provided on a "need to know" basis.

(19) Obtain NAVSSES review of all procedures and feedbacks affecting HM&E systems and equipment.

e. Surface Combatants Directorate (SEA 91) and Amphibious Auxiliary Mine and Ships Directorate (SEA 93)

(1) Budget for and ensure the initial development, review, certification and installation of EOSS on new construction or conversion ships under references (a) and (f); AFOSS on aircraft carriers and all surface ships with aviation JP-5 systems, CFOSS on amphibious ships with MOGAS systems and oiler type ships and SDOSS for all surface ships; handle CSOSS on CG 47 and DDG 51 class ships under references (b) and (f); handle CSOSS on other designated ships under references (c) and (f).

(2) Fund the development, review, certification and installation of OSS for ships under their cognizance by one of the following options:

(a) Task CEL-TD, PMS 400F, or SEA 06D to develop, review, certify, and install OSS documentation CEL-TD for EOSS, AFOSS, SDOSS, CFOSS; PMS 400F for CG 47/DDG 51 CSOSS; SEA 06D for non-AEGIS CSOSS).

(b) Require the shipbuilder to develop, review, certify and install OSS documentation except for CSOSS. Task CEL-TD for review and approval. When this option is selected, the PMS will provide the Technical Data Division (CEL-TD) proper justification for selection of the shipbuilder.

(3) Where feasible, ensure that approved technical manuals, maintenance engineering analyses, plans for maintenance, and drawings needed to develop OSS documentation are identified and provided to the developing activity.

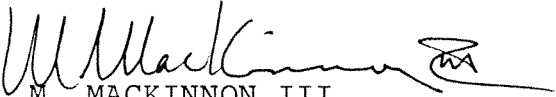
(4) Distribute to NAVSSES and NAVSHIPWPNSYSENGSTA two copies of ship alteration (SHIPALT) documentation and SHIPALT authorization letters that affect OSS.

6. Exceptions

a. The Deputy Commander for Nuclear Propulsion (SEA 08) is responsible for all technical matters pertaining to nuclear propulsion of U.S. naval ships and craft, including all aspects of integration of the nuclear plant into the ship system. Nothing in this instruction detracts in any way from these responsibilities. Accordingly, SEA 08 will be consulted on all matters relating to, or affecting, the nuclear propulsion plant and associated nuclear support facilities.

b. The provisions of this instruction do not apply to equipment and systems under the cognizance of Submarine Directorate (SEA 92), the Director, Strategic Systems Programs (DIRSSP) or the Commander, Naval Medical Command.

7. Forms. The Planned Maintenance System (PMS) Feedback Report, OPNAV Form 4790/7B, is available through NAVSUP Publication 2002.


M. MACKINNON III
Vice Commander

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NAVSEAINST 4790.7B
29 September 1988

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NAVSEAINST 4790.7B
29 September 1988

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EOSS, AFOSS, CFOSS, AND SDOSS FEEDBACK PROCEDURES

1. Technical Feedback Report (TFBR) procedures for EOSS, AFOSS, CFOSS, and SDOSS installations shall be as described in this enclosure, using the standard definitions of "urgent" and "routine" TFBR types provided in this instruction, paragraph 4d.

2. The following procedures apply:

a. Urgent Feedback. TFBRs which are classified as "urgent" shall be processed as follows:

(1) Reported by the activity in which the OSS is installed via priority naval message to NAVSSES Philadelphia, with copies to the cognizant Type Commander and NAVSEA.

(2) Within 1 working day of receipt, NAVSSES shall provide a preliminary response by message to the originator and all other activities affected, with copies to the cognizant Type Commander and NAVSEA.

(3) Final response will be accomplished by NAVSSES within 10 working days of receipt and will include preliminary revised documentation. NAVSSES will identify applicable activities holding affected documentation and effect appropriate distribution.

(4) NAVSSES shall distribute final revised documentation to the originator and affected activities within 21 working days after issuance of preliminary documentation.

b. Routine Feedback. All TFBRs not classified as urgent shall be classified as routine, and divided into categories "A" and "B". Category "A" feedbacks request replacement documents, binders or holders. Category "B" feedbacks report configuration changes, technical errors or recommendations for technical improvement. Configuration changes which occur during regular overhauls will be incorporated automatically and feedbacks need not be submitted. Category "A" and "B" feedbacks shall be submitted using OPNAV form 4790/7B as follows:

(1) Forward OPNAV Form 4790/7B to NAVSSES, via respective Type Commander. For ships not in commission, forward

NAVSEAINST 4790.7B
29 September 1988

both Category "A" and Category "B" TFBRs directly to NAVSSES.
Forward to:

Commanding Officer
Naval Ship Systems Engineering Station
Naval Base
Philadelphia, PA 19112-5083

(2) NAVSSES will provide a response to the originator of all routine TFBRs within 60 working days from date of receipt. The response will consist of one of the following:

(a) A concurring letter response with revised or replacement documents, or replacement binders or holders.

(b) A letter response with an explanation of why the feedback report is not concurred with.

CSOSS FEEDBACK PROCEDURES

1. Technical Feedback Report (TFBR) procedures for CSOSS-installations shall be as described in this enclosure, using the standard definition of TFBR "urgent" and "routine" types provided in this instruction, paragraph 4d.

2. The following procedures apply:

a. Urgent Feedback. TFBRs which are classified as "urgent" shall be processed as follows:

(1) Reported by the unit or activity in which the CSOSS is installed via priority naval message to NAVSHIPWPNSYSENGSTA, Port Hueneme, CA, with copies to the cognizant Type Commander and NAVSEA.

(2) Within 1 working day of receipt of urgent TFBRs, NAVSHIPWPNSYSENGSTA shall provide a preliminary response to reported problems.

(3) Preliminary responses shall be by message to the originator and all other affected activities, with copies to cognizant Type Commanders and NAVSEA. If required for clarity, the first response may be a request for amplifying information.

(4) NAVSHIPWPNSYSENGSTA will provide final responses within 10 working days of receipt, normally in the form of preliminary or revised materials. Pen and ink changes may be sent by message to deployed or operating units, pending forwarding of revised document(s). NAVSHIPWPNSYSENGSTA will identify units and activities which hold affected documentation, and advise NAVSEA of required distribution of modified materials.

(5) NAVSHIPWPNSYSENGSTA will file the final changed materials in the CSOSS library for inclusion in the next change package for installations affected.

b. Routine Feedback. All TFBRs not classified as "urgent" shall be classified as "routine", and divided into categories "A" and "B". Category "A" feedbacks are those requesting replacement documents, binders or hardware. Category "B" feedbacks report configuration changes, technical errors, or recommendations for technical improvement. (Configuration changes which occur during regular overhauls should be incorporated automatically, so

NAVSEAINST 4790.7B
29 September 1988

feedbacks need not be submitted unless the change is not in fact reflected.) Category "A" and "B" feedbacks shall both be submitted using OPNAV Form 4790/7B as follows:

(1) Category "A". Forward to:

Commanding Officer
Naval Ship Weapon Systems Engineering Station
Code 4B00 (non-AEGIS) or 4C31 (AEGIS)
Port Hueneme, CA 93043-5007

NAVSHIPWPNSYSENGSTA will coordinate response to category "A" feedbacks with the cognizant activity, which will respond within 21 working days after receipt.

(2) Category "B". Forward to NAVSHIPWPNSYSENGSTA via respective Type Commander. (For ships not in commission, forward directly to NAVSHIPWPNSYSENGSTA.) NAVSHIPWPNSYSENGSTA will provide a response to the originator of all routine category "B" TFBRs within 21 working days from date of receipt. The response will consist of one of the following:

(a) A concurring letter response with revised documents, such as temporary procedure pages or a paper copy of status boards and diagrams).

(b) A letter response with an explanation of why the feedback report is not concurred with.

(c) A letter response requesting amplifying information if questions exist about details of the TFBR.

3. NAVSHIPWPNSYSENGSTA will identify applicable units and activities which hold affected documents, and advise the distributing activity of distribution requirements. NAVSHIPWPNSYSENGSTA will forward revised CSOSS documentation to the affected installations within 60 days.

4. NAVSHIPWPNSYSENGSTA shall assure that final changed documentation is filed in the CSOSS library, to be provided to all affected installations as part of the next change packages.