



DEPARTMENT OF THE NAVY

NAVAL SEA LOGISTICS CENTER
5450 CARLISLE PIKE
P.O. BOX 2060
MECHANICSBURG, PA 17055-0795

IN REPLY REFER TO

NAVSEALOGCENINTINST 4355.8A CH-1

N44/RJR

MAR 13 1996

NAVSEALOGCEN INTERNAL INSTRUCTION 4355.8A CHANGE TRANSMITTAL 1

From: Commanding Officer, Naval Sea Logistics Center

To: All N44 Personnel

Subj: APPROVED ENGINEERING ALTERNATIVE PROGRAM, LEVEL I/SUBSAFE STOCK PROGRAM

1. Purpose. To update subject instruction.

2. Action. Holders of the basic instruction will:

a. Make the following pen and ink changes:

✓ (1) Replace "Navy Ships Parts Control Center" with "Naval Inventory Control Point" in paragraph 1.

✓ (2) Replace "SPCC" with "NAVICP" in paragraphs 1a, 4a, 4b, 4c, and 4e of the basic instruction and in the "Copy to" section of enclosure (3).

✓ (3) Replace "N93" with "N44" in paragraphs 5 and 7 and in the "Distribution:" section. Make same change to enclosure (1) in paragraph 2 (2 places) and to enclosure (2) in paragraphs 1, 2 (2 places), and 3.

✓ (4) Replace "N90" with "N40" in paragraph 7.

R. D. HUDDLESTON



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IN REPLY REFER TO

NAVSEALOGCENINTINST 4355.8A
Ser N93/STL

APR 30 1995

NAVSEALOGCEN INTERNAL INSTRUCTION 4355.8A

From: Commanding Officer, Naval Sea Logistics Center

Subj: APPROVED ENGINEERING ALTERNATIVE PROGRAM, LEVEL I/SUBSAFE STOCK PROGRAM

Ref: (a) MIL-STD-973
(b) NAVSEA T0850-AB-GYD-010/UNSAT MAT'L RPTG
(c) NAVSEALOGCENINTINST 4355.1
(d) NAVSEA ltr 9090 OPR: 56YD Ser 56YD/110 of 4 JUN 90
(e) NAVSEALOGCENINTINST 4355.2

Encl: (1) APPROVED ENGINEERING ALTERNATIVE (AEA) PROGRAM, Guidelines for Selection of Engineering Alternative (EA) Candidates, 1 February 1995
(2) Approved Engineering Change (AEC) and Approved Engineering Alternative (AEA) Programs, Guidelines for Supporting Documentation, 1 December 1994
(3) Approved Engineering Change (AEC) and Approved Engineering Alternative (AEA) Programs, Distribution List, 1 December 1994

1. Purpose

a. To provide instructions for the documentation and dissemination of Naval Sea Logistics Center (NAVSEALOGCEN) approved material nonconformances for Level I/SUBSAFE (LI/SS) Stock Program materials delivered to the Navy under ~~Naval Ships Parts Control Center (SPCC)~~ ^{NAVY SHIPS INVENTORY} contracts. These nonconformances are reported through Vendor Information Requests (VIRs), through deviations and waivers as described by reference (a), and through Quality Deficiency Reports (QDRs) of product deficiencies as described by reference (b).

b. This is a complete revision to this instruction and must be reviewed in its entirety.

2. Cancellation. NAVSEALOGCENINTINST 4355.8

3. Applicability. This instruction applies to NAVSEALOGCEN employees who are responsible for the review, disposition, or maintenance of LI/SS Stock Program technical referral packages or for the distribution of information related to these referrals.

CONTROL CENTER

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4. Background

a. In some instances, a vendor may suggest changes to the technical requirements or may produce material that does not conform to the requirements of the corresponding contract technical documentation. When this occurs, a VIR, deviation, or waiver is submitted through the ~~SPCC~~^{NAVICP} LI/SS Procurement Contracting Officer (PCO) to NAVSEALOGCEN requesting a departure from the contract technical requirements. Naval Sea Logistics Center returns a formal determination in accordance with reference (c), either approving or rejecting the submitted request. If approval is granted, the material may be accepted into the LI/SS Stock Program.

b. Material, including any approved deviation or waiver, received by a Navy inspection activity is inspected in accordance with ~~SPCC~~^{NAVICP} contract technical requirements. If the material is in nonconformance with these requirements, a QDR is submitted by the inspection activity. If the QDR is approved, the material is accepted into the LI/SS Stock Program.

c. Prior to the installation of LI/SS Stock Program materials, Navy end users perform a final inspection of these materials against the applicable Navy-approved technical documentation Configuration Identification (CI). This documentation is usually in the form of drawings or specifications. Typically the end user does not have access to the ~~SPCC~~^{NAVICP} contract itself or to the certification package supplied to the certified Navy receipt inspection activity with the material.

d. When the material is retrieved from stock and inspected by the end user prior to installation, it may fail to meet the requirements of the CI documentation. The material may then be rejected and a QDR may be submitted to determine the material's acceptability. However, this is a waste of material and/or manpower since this material has already been through the review process and has been approved.

e. The Approved Engineering Alternative (AEA) Program, approved by reference (d), was developed to create a record of any one-time material deviations, waivers, and QDRs approved by NAVSEALOGCEN for LI/SS materials produced under ~~SPCC~~^{NAVICP} contracts. This information is disseminated to the end users as part of the Navy-approved technical documentation (the CI) to evaluate the acceptability of material and to eliminate the waste of material and the duplication of effort.

f. Records of these approved nonconformances are integrated into the NAVSEALOGCEN Detachment Portsmouth (ND70), Naval Material Quality Assessment Office (NMQAO) Product Deficiency Reporting and Evaluation Program (PDREP) database which supports the NAVSEALOGCEN Vendor Assessment Program (VASP). This database contains the actual narrative descriptions of the approved nonconformances.

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5. Responsibilities. The LI/SS Support Engineering Division (N93) ^{WJH} is assigned the following responsibilities:

a. Division Director or Team Leader makes the initial determination of the material's candidacy for inclusion into the AEA Program upon approval of a VIR, deviation, waiver, or QDR by applying the guidelines in enclosure (1). The referral package is annotated accordingly, and all supporting documentation in accordance with enclosure (2) is forwarded to the Program Engineer for further processing.

b. Program Engineer

(1) Makes final determination of AEA candidacy and translates the information into concise narrative descriptions of the approved nonconformances.

(2) Maintains an automated database and transfers all records added or edited each quarter to the Supply Technician.

(3) Distributes the AEA Record Key Report to the end users listed in enclosure (3).

(4) Collects all feedback regarding the AEA Program and makes changes as necessary.

c. Supply Technician incorporates quarterly records into the purchase referral tracking system and transfers an ASCII format information file to ND70 (NMQAO) for inclusion to the PDREP database. This file is forwarded to ND70 coincidentally with the information package provided in support of the NAVSEALOGCEN VASP as described in reference (e).

d. Program Analyst produces a quarterly, cumulative AEA Program Record Key Report based on the information derived from the NMQAO PDREP database and VASP. This report is an index by which the end user initially determines the existence of narrative descriptions prior to entering the NMQAO PDREP database.

6. Forms

a. MIL-STD-973 can be obtained from the DODSSP-Customer Service, Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

b. NAVSEA T0850-AB-GYD-010/UNSAT MAT'L RPTG can be obtained from the NAVSEALOGCEN DET Portsmouth, 80 Daniel Street, Suite 400, Portsmouth, NH 03801-3884.

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7. Maintenance. The maintenance responsibility for this instruction is assigned to the LI/SS Engineering Support Division (N93) of the Material Engineering Group (N90).

RDH


R. D. HUDDLESTON

Distribution:
All N93 Personnel

RDH

APPROVED ENGINEERING ALTERNATIVE (AEA) PROGRAM

Guidelines for Selection of Engineering Alternative (EA) Candidate

1 February 1995

1. The AEA Program was developed to document any one time changes made to SPCC contracts and approved by NAVSEALOGCEN. An AEA should be designated anytime a change is made which will be visible to the end user. Keep in mind that the end user has access to the drawing requirements. In addition, the Material Identification and Control (MIC) number identifies the material designator, therefore, the end user is aware of the material supplied and is able to compare this to the drawing requirements. He does not have access to the contract itself or to the certification package supplied to the receipt activity. With this in mind, the following guidelines are provided as an aid in identifying AEAs. The list is not meant to be all inclusive.

a. Dimensional Changes. All dimensional waivers on components require an AEA. If a dimensional waiver is approved on an assembly, an AEA need only be written if the waiver would be visible to the end user. For example, a dimensional waiver on the stem supplied in an assembly does not require an AEA.

b. Material Substitutes. A material substitution would be visible to the end user through the material designator. Therefore, any material substitution which would change the material designator should be marked as an AEA. Note that revisions to a particular specification do not necessarily change the material designator.

c. Appearance. Marking requirement changes either in the marking type or in the marking content require an AEA. Configuration modifications from the drawing requirements require an AEA. Also, weld repairs will be considered to be visible to the end user and will require an AEA. Basically, an approved nonconformance such as tool marks, rust, finish, etc., which would be obvious to the end user is a candidate for an AEA.

2. If there is a question as to whether a purchase referral (PR) requires an AEA, the NAVSEALOGCEN (N93) AEA Program Engineer shall be consulted, or the PR shall be marked as an AEA candidate for later review by the (N93) AEA Program Engineer.

Approved Engineering Change (AEC)
and
Approved Engineering Alternative (AEA) Programs
Guidelines for Supporting Documentation

1 December 1994

1. The timely processing and publishing of Engineering Changes (ECs) and Engineering Alternatives (EAs) based upon the Naval Sea Logistics Center (NAVSEALOGCEN) (N93) Purchase Referral (PR) responses requires that adequate information is included in each PR package to assure that no further research is necessary by the NAVSEALOGCEN (N93) AEC Program Engineer. *N44*
2. For each EC and EA candidate selected per published guidelines, N93 shall provide the following, as applicable, to the N93 AEC/AEA Program Engineer:
 - a. When a change is made to an item, a complete description of the item, before and after, shall be a part of the PR documentation. This will include the drawing number, drawing revision, and drawing piece number and/or part number affected. This may also include the materials, dimensions, etc., as necessary.
 - b. If the text of any part of the procurement specification, including the Additional Ordering Data, Document Reference Sheet, or any attachment is altered, a copy of the affected section of the procurement specification shall be included with the PR documentation.
 - c. When drawing revisions are approved, copies of the drawing(s) involved shall be included with a copy of the referral package whenever possible.
 - d. When a letter is used as justification for a change, a copy of that letter shall accompany the PR package.
 - e. If a previous PR response is used as precedence for a change, a copy of that previous PR shall be part of the documentation package.
 - f. Purchase Referral responses shall be clear as to whether a change affects only the National Stock Number under review or is an across-the-board change.
3. If the PR documentation is found to be inadequate to support the EC or EA process, the NAVSEALOGCEN (N93) cognizant engineer may be requested to provide the missing information on a case basis. *N44*

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Approved Engineering Alternative (AEA) Program

Distribution List

1 December 1994

COMNAVAIRLANT
COMNAVAIRPAC
COMNAVSURFLANT
COMSUBLANT (N409)
COMSUBPAC (N4013)
ILOTEAM Long Beach
ILOTEAM Mare Island (Code 1026)
ILOTEAM Pearl Harbor
ILOTEAM San Diego
NAVSEACOMBATSYSENGSTA
NAVSHIPREPFAC Guam
NAVSHIPYD Charleston (Codes 130, 136, 200S, 229, 240, 260)
NAVSHIPYD Long Beach (Codes 240, 260, 570.3)
NAVSHIPYD Mare Island (Codes 130, 136.1, 205, 225, 229, 240, 260, 260.4, 260.73, 540)
NAVSHIPYD Norfolk (Codes 136.1, 200S, 240, 246, 260, 540, 2500)
NAVSHIPYD Pearl Harbor (Codes 130, 136, 225, 242, 260, 300, 502, 571.5, 860)
NAVSHIPYD Philadelphia (Codes 133.1, 240, 244, 260, 282.4, 531.1)
NAVSHIPYD Portsmouth (Codes 100S, 130, 136.2, 260S)
NAVSHIPYD Puget Sound (Codes 133.2, 223, 262.1, 540.2)
COMNAVSURFWARFARECEN
NAVWPNSTA Yorktown (Code 3521A)
PERA (CV)
PERA (CRUDES)
PERA (ASC)
SIMA Charleston (QA-NDT LAB 93A)
SIMA Guantanamo Bay
SIMA Mayport
SIMA Little Creek
SIMA Norfolk (Code 313)
SIMA Portsmouth
SIMA San Diego (Codes 2162, 3962)
SUBASE Bangor
SUBASE Pearl Harbor
SUBMEPP (Code 1805.4)
SUBSUPFACLANT New London (Attn: Repair Officer)
SUPSHIP Bath
SUPSHIP Boston

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Approved Engineering Change (AEC)

Distribution List (cont'd)

1 December 1994

SUPSHIP Brooklyn
SUPSHIP Groton (Codes 200, 201, 541)
SUPSHIP Jacksonville (Codes 200, 300, 500)
SUPSHIP Newport News (Codes 201, 208, 301)
SUPSHIP Pascagoula (Codes 500, 600)
SUPSHIP Portsmouth (Codes 260, 2 copies)
SUPSHIP San Diego
SUPSHIP Seattle
SUPSHIP Sturgeon Bay
TRIREFACPAC (Codes 411, 443, 521.2)
TRIREFACLANT (Codes 411, 424, 443, 512.2)
USS ACADIA (AD 42) (R7)
USS FRANK CABLE (AS 40) (R7)
USS CANOPUS (AS 34) (R7, Repair)
USS CAPE COD (AD 43) (R7)
USS DIXON (AS 37) (R7)
USS SAMUEL GOMPERS (AD 37) (R7)
USS HOLLAND (AS 32) (R7, R8)
USS EMORY S. LAND (AS 39) (R7)
USS MCKEE (AS 41) (R7)
USS PUGET SOUND (AD 38) (R7, QA Officer)
USS SHENANDOAH (AD 44) (R7)
USS SIMON LAKE (AS 33) (R7)
USS L. Y. SPEAR (AS 36) (R7)
USS YELLOWSTONE (AD 41) (R7)

Copy to:

COMNAVSEASYS COM (SEA 03Y, SEA 92Q, PMS350, PMS393, PMS395, PMS396)

COMNAV SUPSYSCOM (SUP 3Q1, SUP 03111)

~~SPCC~~ (Codes 845, 845A, 845B, 8452 Hubbard)

NAVICP