



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND
2531 JEFFERSON DAVIS HWY
ARLINGTON VA 22242-5160

IN REPLY REFER TO

NAVSEAINST 5237.1A
Ser 91W5/86
6 Sep 94

NAVSEA INSTRUCTION 5237.1A

From: Commander, Naval Sea Systems Command

Subj: REUTILIZATION OF EMBEDDED COMPUTER RESOURCES (ECR)
EQUIPMENT

Ref: (a) NAVSEAINST 5237.1
(b) Assistant Secretary of the Navy (Research, Development, and Acquisition), (ASN (RDA)) Memorandum, REUSE OF STANDARD EMBEDDED COMPUTER RESOURCES of 23 SEP 93
(c) OPNAVINST 4770.5F
(d) SPCCINST 4440.127E (NOTAL)

Encl: (1) List of Standard Embedded Computer Resource Equipment with Points of Contact
(2) List of Authorized ECR Repair Facilities

1. Purpose. The purpose of this instruction is to provide the policies and procedures for the effective reutilization of the Navy's excess Embedded Computer Resources (ECRs). A list of ECR equipment and a list of authorized repair facilities are provided as enclosures (1) and (2) respectively.

2. Cancellation. This instruction cancels reference (a).

3. Background. Reference (b), assigns SEA 91W5 the responsibility of managing the ECR Reutilization Program. SEA 91W5 has designated Naval Surface Warfare Center, Crane Division (NSWC, CD) as the ECR Reutilization Facility.

The installed base of ECR equipment is extensive and a large inventory will remain in the fleet through the year 2010. ECR is comprised of three major groups of reconfigurable equipment; computers, peripherals, and displays. Each equipment was developed as a military standard for service in combat systems used primarily by the Navy, Marine Corps, and the Coast Guard. The Army, Air Force and several foreign governments also depend on these equipments as one of their primary combat system data equipments.

4. Scope. This instruction outlines the procedures and identifies the management responsibilities required to accomplish the intent of reference (b) for the recovery and reutilization of deinstalled or surplus ECRs including; end item equipment, major subassemblies, integrated circuit cards and various piece parts,



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so that they can be reutilized to satisfy fleet requirements. It also identifies the ECR reutilization program management points of contact and the equipment managers for each ECR equipment.

This instruction applies to all ECRs as identified in enclosure (1) and includes deinstalled or excess ECR equipment from U.S. Navy afloat and shore activities as well as from other Department of Defense (DoD) components.

This instruction supports procedures addressed in references (c) and (d) for recovery of ECR material from decommissioned ships and Ships Parts Control Center (SPCC) cannibalization procedures by providing centralized storage and inventory of repair parts and spares and by providing cost effective repair/overhaul procedures for those equipments.

5. Responsibilities

a. SEA 91W5 will:

(1) Execute the functions of Program Manager for ECR Reutilization in administering the removal, recovery, and reutilization of excess or deinstalled ECR assets which have been identified to satisfy fleet or reutilization inventory requirements.

(2) Identify and target for recovery as necessary, ECR assets aboard decommissioned ships and unclaimed by the Participating Manager, for induction into the ECR Reutilization Inventory as candidates for future reutilization.

(3) Plan for funding and resources for the ECR Reutilization Facility to ensure the proper recovery, storage, recertification and reissue of Reutilization Inventory assets.

(4) Direct refurbishment (as necessary), and issuance of Reutilization Inventory assets, through the ECR Reutilization Facility, in accordance with the order of precedence set forth in paragraph 6.f.

(5) Provide a quarterly listing to ECR users identifying assets available from the Reutilization Inventory.

(6) Solicit at least annually from the System Managers; identification of excess and deinstalled ECR assets, and, planned reutilization requirements for the following two fiscal years.

(7) Actively pursue formalized agreements/partnerships with the ECR Original Equipment Manufacturers (OEMs) and

In-Service Engineering Agents (ISEAs) to assure the best interest of the Navy is served regarding long term support requirements and retention of an adequate industrial capacity.

(8) Maintain ECR Management database, incorporating all information received from the ECR Reutilization Facility, Combat Systems Program Managers, Ship Life Cycle Program Managers, and ECR users.

b. ECR Reutilization Facility (NSWC, CD) will:

(1) Develop and implement a Reutilization Database to facilitate the accountability of all ECR assets to SEA 91W5 through the reutilization process.

(2) Sustain the facility and equipment required to remove, test, analyze, repair, refurbish, recertify, store, package and ship ECR equipment as directed by SEA 91W5.

(3) Act as SEA 91W5 representative for removal of ECR assets from decommissioned ships including; coordinating the removal and recovery of ECR assets unclaimed by participating managers and designated by SEA 91W5 for induction into the Reutilization Inventory, and, collection of all reutilization cost data and configuration status accounting relevant to each ECR removal. Upon completion of ship deactivation, provide SEA 91W5 a report detailing the ECR assets actually removed and the ultimate disposition for each.

(4) Establish and maintain a Basic Ordering Agreement (BOA) or other flexible contractual vehicle with the OEM facilities to; (1) perform the required repair action; (2) supply piece parts and assemblies; and (3) provide on call engineering services over the life cycle of the program.

(5) Upon receipt of an ECR reutilization requirement, provide the requesting activity a certified Ready For Issue (RFI) asset.

(6) Recertify, as necessary, any ECR equipment repaired/refurbished at a Designated Overhaul Point (DOP) or an authorized repair facility listed in enclosure (2).

(7) Provide SEA 91W5 and SPCC with monthly inventory management reports documenting ECR inventory levels received and shipped for reutilization. Provide SEA 91W5 with quarterly financial reports detailing cost analyses and savings.

(8) Work with SPCC to develop a mutually agreeable plan

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of operation that addresses procedures and schedules at DOPs and authorized repair facilities.

c. Combat Systems Program Managers will:

(1) At least annually, upon SEA 91W5 solicitation, survey need for ECR equipment and determine the availability of excess and deinstalled ECR equipment and establish planned reutilization requirements for the following two fiscal years.

(2) Upon recovery and reutilization of ECR assets claimed from decommissioned ships, provide all relevant cost and reinstallation data to the ECR Reutilization Facility.

(3) Ensure that ECR assets recovered from decommissioned ships are recertified by the ECR Reutilization Facility or an authorized DOP prior to reinstallation.

(4) Advise SEA 91W5 of any major changes in projected reutilization of ECR equipment.

(5) Designate key participants and managerial points of contact for combat system equipment and provide an update of this information to SEA 91W5 on a yearly basis or in the event of major organizational change.

(6) Advise SEA 91W5 of any transfer of accountability of ECR equipment to other agencies or activities.

d. Ship Life Cycle Program Managers will:

(1) Provide SEA 91W5 with updated and current decommissioning data to identify windows of opportunity for ECR equipment removal.

(2) Coordinate solicitation and review of requests for ECR removal and recovery with SEA 91W5 and execution of disposition instructions with the applicable NISMF.

(3) Provide liaison, coordination, general guidance, and support to SEA 91W5 regarding any aspect of ECR removal that will assure the effectiveness of the removal, recovery, and redistribution process.

(4) Designate managerial and financial points of contact for reutilized and refurbished ECR equipment requirements and provide this information to SEA 91W5.

e. TYCOMS will:

(1) Ensure that ECR assets removed from ships prior to decommissioning are accounted for in accordance with reference (c) and recertified by a DOP for the applicable equipment or the ECR Reutilization Facility prior to reinstallation.

(2) Ensure that excess and deinstalled ECR assets will be shipped to the ECR Reutilization Facility.

(3) Identify to SEA 91W5 each ECR equipment removal and cannibalization affected on ships designated for decommissioning up to the established deactivation date.

(4) Provide SEA 91W5 with ships overhaul schedules and planned reutilization requirements for ECRs a minimum of 12 months before the overhaul period.

6. Definitions

a. Cannibalization. The removal of serviceable material from one equipment for installation in another equipment to restore the latter to a serviceable condition. This includes removal of equipment from active or inactive fleet ships.

b. Claimed ECR Assets. Shipboard ECR assets identified by the Combat System Program Manager prior to decommissioning as designated for reutilization and reinstallation.

c. Deinstalled. ECR assets which are no longer installed in operational systems.

d. Equipment Users. Any DoD authorized entity which utilizes ECRs as part of combat system, test facility, or data processing platform.

e. Excess. ECR assets retained by an authorized DoD entity in a non-functional manner as a spare or support asset.

f. Reutilization. The testing, inspecting, and if appropriate, repairing and refurbishing of ECRs to an operational readiness state, for re-issue to satisfy requirements in the following priority order:

1. Casualty Report (CASREP) support
2. Ships deployment for a combat mission or major exercise
3. Ship installation or ship overhaul support
4. Navy, Marine, Coast Guard combat system support for a planned project improvement/modification for shipboard use.

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5. Navy, Marine, Coast Guard combat system support for a planned project improvement/modification for non-shipboard use.
6. Navy Ships Parts Control Center (SPCC) support
7. Other DoD user command support
8. Foreign Military Sales (FMS) support

g. Reutilization Inventory Assets. Excess/deinstalled ECR assets identified as candidates for reutilization and recovered from decommissioned ships and Ship Life Cycle Program Managers.

h. Unclaimed ECR Assets. Shipboard ECR assets which are not designated for reutilization and reinstallation by the Combat System Program Manager prior to decommissioning.


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LIST OF STANDARD EMBEDDED COMPUTER RESOURCE EQUIPMENT WITH POINTS
OF CONTACT

NAVSEA ECR Manager:

NAVSEA, SEA 91W5 (703) 602-8204 EXT 201

NAVSEA ECR Reutilization Program Manager:

NAVSEA, SEA 91W5P31 (703) 602-8204 EXT 222

Reutilization Facility Manager:

NSWC, CD, PM9 (812) 854-2170

Equipment Managers:

AN/UYK-7(V): NSWC, CD, 7031RT (812) 854-2253

AN/UYH-16: NAVSEA 91W52E (703) 602-8204 EXT 333

AN/UYK-20(V): NSWC, CD, 7031RF (812) 854-2254

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OJ-172(V)/UYK: NSWC, CD, 7031RT (812) 854-2253

AN/UYQ-21(V): NAVSEA 91W521 (703) 602-1055 EXT 303

AN/UYA-4(V): NSWC, CD, 7031MS (812) 854-2181

AN/USQ-69: NSWC, CD, 7031MP (812) 854-2179

OL-267(V): NSWC, CD, 7031MP (812) 854-2179

LIST OF AUTHORIZED ECR REPAIR FACILITIES

<u>Equipment</u>	<u>Navy Repair Activity</u>	<u>Industry Repair Activity</u>
AN/UYK-7(V)	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
AN/UYK-20(V)	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
AN/UYK-43(V)	UNISYS, OLDSMAR, FL	UNISYS, OLDSMAR, FL
AN/UYK-44(V)	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
AN/USH-26	NSWC CD, CRANE, IN	NAI CORP, ISLIP, NY
AN/UYH-3(V)	NSWC CD, CRANE, IN	CDI, BLOOMINGTON, MN
RD-358(V)/UYK	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
RD-358A(V)/UYK	NSWC CD, CRANE, IN	MILTOPE, ISLIP, NY
OJ-172(V)/UYK	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
AN/UYQ-21(V)	TBD	HUGHES, FULLERTON, CA
AN/UYA-4(V)	PSNSY, PNSY	HUGHES, FULLERTON, CA
AN/USQ-69	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN
OL-267(V)	NSWC CD, CRANE, IN	UNISYS, ST. PAUL, MN