



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND

WASHINGTON, DC 20362-5101

IN REPLY REFER TO

NAVSEAINST 8300.2C

OPR 62Y1

28 Jul 1989

NAVSEA INSTRUCTION 8300.2C

From: Commander, Naval Sea Systems Command

Subj: GUN WEAPON SYSTEM REPLACEMENT PROGRAM

- Ref: (a) NAVSEAINST 5000.39 (A)  
(b) OPNAVINST 4000.41 (A)  
(c) MIL-STD-1656 (OS) of 18 Sep 1974; Subj: Validation (A)  
Plans for Naval Ordnance Overhaul and Repair  
Activities, Preparation of  
(d) OP 1810 of 1 Feb 1978; Subj: Ordnance Equipment (A)  
Handling and Shipping Instructions  
(e) NAVSEA SW221-B4-MMO-010, Rev 1; Subj: Fire Control (A)  
System MK 86 MODs 3, 4, 5, 8, 9, and 10, Procedures  
for Removal and Installation Above-Deck Equipment and  
Mechanical Assemblies
- Encl: (1) Gun Weapon System Equipment Covered By Program  
(2) Gun Weapon System Replacement Program Delivery  
Schedule Data Elements

1. Purpose. To revise procedures for developing requirements, planning data and funding responsibilities for the Gun Weapon System Replacement Program (GWSRP). (D)

2. Cancellation. NAVSEAINST 8300.2B of 5 May 1987.

3. Discussion

a. The GWSRP replaces gun system equipment (enclosure (1)) installed in active fleet (O&MN funded) and Naval Reserve Training fleet (O&MNR funded) ships with overhauled equipment. Gun system equipment installed at various Naval shore activities for engineering testing or fleet training is not covered under the GWSRP. Overhaul of training equipment should be planned, programmed, and budgeted for by the Naval training community. Overhaul or major repairs of equipment used for engineering test will be budgeted for by the program requiring the engineering test.

b. The GWSRP for each fiscal year is based on Type Commander (R) (TYCOM) requirements and Naval Sea Support Center (NAVSEACEN) equipment Material Condition Reviews (MCR), within the constraints of available funding, industrial capacity, ship

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availability, and equipment availability. A list of applicable MCRs are provided with enclosure (1). Since the GWSRP budget and schedules are based on planned requirements submitted by TYCOMs, subsequent deviation from the basic schedule (e.g., substitution of ships because of change in ship's availability or a change in equipment to be replaced) will require justification. Substitution of equipment to be replaced (i.e., equipment of different type, MK, or Mod) may require appropriate compensation.

R) c. The Naval Sea Systems Command (NAVSEA) will fund and the Naval Ordnance Station (NAVORDSTA) Indian Head will manage the overhaul of equipment at the Designated Overhaul Points (DOPs). TYCOMs will fund removal, installation, test, and check-out of equipment.

d. The GWSRP, as an equipment turnaround program, will interface with NAVSEA Ship's Logistics Managers (SLMs) and Ship's Program Managers (SPMs) on programs affecting the various ship class maintenance strategies. The GWSRP will also interface with NAVSEA SLMs and SPMs for planning (e.g., Phased Maintenance Planning (PMP) program for DDG 37 class) affecting fleet implementation for gun weapon systems equipment. The GWSRP will interface with NAVSEA 06D2G to verify that ORDALT installation requirements are provided for GWSRP overhauls.

e. The delivery of gun weapon systems equipment, via the GWSRP, will be five months before the end of overhaul for Regular Overhaul (ROH) or Complex Overhaul (COH) and at the beginning date of other ship maintenance availabilities (e.g., Phased Maintenance Availabilities (PMA) and Selected Restricted Availabilities (SRA)). If the planning date cannot be met (i.e., limited turnaround assets, conflicting schedules, etc.) or resolved at the scheduling meeting, equipment will be deleted from the program, with concurrence of the TYCOM.

f. The prime factor in selecting an equipment for overhaul is equipment material condition (as determined by MCRs). Overhaul requirements may, in addition, be based on TYCOM information pertaining to CASREP information, ship deployment/mission schedules, available funding, and historical maintenance records.

g. Battlespare equipment will be exchanged on request by NAVSEA, via the GWSRP, on a five-year cycle with recently overhauled equipment (i.e., a gun weapon system equipment which is retained in an unused, battlespare, state for five years will be used to meet a fleet requirement with its place being taken by the equipment originally overhauled to meet the fleet requirement).

4. Action

a. NAVSEA

(1) Provide funding to NAVORDSTA Indian Head for management and overhaul of NAVSEA Gun Systems, Gun Fire Control Systems, and 2J Depot Level Repairables (DLRs) and management of the MCR Inspection Program.

(2) Develop maintenance planning documentation for applicable gun weapon systems in accordance with reference (a).

b. Type Commanders

(1) Provide for all aspects (including funding) incident to the removal, installation, test, and check-out of GWSRP replacement items.

(2) Develop preliminary GWSRP overhaul requirements prior to GWSRP workload planning meeting (paragraph 4c(4)), for equipment listed in enclosure (1).

(3) Submit requests for program changes (i.e., those requirements which must be considered prior to the next scheduled GWSRP workload planning meeting) to NAVORDSTA Indian Head, providing justification and appropriate compensation.

c. Naval Ordnance Station (NAVORDSTA), Indian Head

(1) Provide overall management of the GWSRP for the Deputy Commander, SEA 06, Naval Sea Systems Command.

(2) Coordinate GWSRP workload planning data with higher authority during the planning, programming, and budgeting cycle.

(3) Prepare requirements list based on TYCOM requirements, MCR inspection results, and funding level. Forward schedule to DOPs, with copies to TYCOMs, NAVSEA, and cognizant In-Service Engineering Agent (ISEA) prior to workload planning meeting.

(4) Conduct semiannual GWSRP workload planning meeting, tentatively planned for May and November of each year. Meeting will be conducted during the GWSRP and ORDALT Technical Planning Meeting at NAVORDSTA Louisville.

(5) Release meeting report subsequent to each GWSRP workload planning meeting to include major issues, resolution or status of action items, and a summary of GWSRP workload planning data.

(6) Provide Statements of Work and funding to the GWSRP DOPs and GWSRP program support agents. The funding will include packaging, handling, storage, and transportation (PHS&T) costs. ORDALT installation funding for GWSRP equipment overhauls will be provided to DOPs by NAVSEA 06D2G, contingent upon available funding.

(7) Respond to program change requests when submitted by TYCOM (paragraph 4b(3)).

(8) Direct the preparation of MCR inspection procedure booklets for equipment listed in enclosure (1).

(9) Plan and request for MCR inspections to be scheduled by the NAVSEACENS in accordance with overhaul candidate requirements. Fund NAVSEACENS to conduct GWSRP MCR inspections.

(10) Maintain, in conjunction with Naval Weapons Station (WPNSTA), Concord, Data Systems Department, a GWSRP Management Information System (MIS).

(11) Conduct analyses of GWSRP MCR summary reports. Distribute copies to WPNSTA Concord after reviewing the results, correcting any discrepancies or inaccurate data, and generating required reports.

(12) Verify that validations required for system overhaul and DLRs, as directed by reference (b) and in accordance with reference (c), have been accomplished by the Program Manager. Verify that final validations have been forwarded to NAVSEA CEL-MS12 for DOP certification.

R) d. Designated Overhaul Points (NAVORDSTA Louisville, Long Beach Naval Shipyard, and Naval Weapons Support Center (NAVWPNSUPPCEN), Crane)

(1) Assist in conducting semiannual GWSRP workload planning meeting (paragraph 4c(4)), by preparing a schedule of overhauls from the requirements list provided by NAVORDSTA Indian Head (paragraph 4c(3)). Submit to NAVORDSTA Indian Head prior to scheduling meeting.

(2) Publish monthly the GWSRP overhaul schedule which includes all GWSRP deliveries for the upcoming 14 months. In the schedule, provide the data elements listed in enclosure (2), and distribute to TYCOMS, other major program participants, and activities involved in the planning for, or accomplishment of, the replacement of GWSRP furnished equipment.

(3) Review impact of change requests to GWSRP replacement requirements as submitted by TYCOM (paragraph 4b(3)). Advise NAVORDSTA Indian Head of impact on delivery schedules, industrial workload, and cost.

(4) Submit Planned Program Requirements (PPRs) for Depot Level Repairables (DLRs) material requirements to Navy Ships Parts Control Center (SPCC), based on expected overhaul requirements workload schedules (paragraph 4d(2)). Timely submission of PPRs is "crucial" for supply system support and to prevent a negative impact on existing Fleet assets. The automated Program Requirements Interface System Module (PRISM) is the preferred method for overhaul of PPR input.

(5) Induct carcasses into overhaul to meet delivery dates as established at semiannual workload meetings. The planned dockside delivery date (DDD) is a tentative date until the equipment is actually inducted into rework. Once inducted, the DDD becomes firm. Scheduled delivery dates are published for 14 months before delivery (paragraph 4d(2)) and in most cases are carried on the GWSRP monthly schedule for over 20 months, which is sufficient time for most schedule adjustments.

(6) In accordance with overhaul requirements defined at the GWSRP workload planning meeting, overhaul equipment or components to a baseline ORDALT configuration based on the ship scheduled to receive the equipment or components. Baseline ORDALTs will be in compliance with the Fleet Modernization Program (FMP) Alteration Installation Matrix as identified by the ISEA (paragraph 4f(3)). All completed equipment will be shipped with configuration verification sheets (ORDALTs not accomplished will be noted).

(7) Provide quality assurance per the applicable equipment specifications and drawings, covering the configuration approved for the designated ship. Inspection and acceptance of all units will be at the DOP, using factory acceptance test specifications or other inspection documents as appropriate. Provide inspection documents to NAVSEACENS and the installing activity as requested. Viewing of the final test by "user" activities (ship and shipyard) will be made available as requested.

(8) Provide appropriate cable lengths based on the designated ship that is receiving the overhauled equipment. Provide shock mount replacements for all shock mount equipment inducted in the GWSRP.

(9) Preserve, package, and mark completed equipment per reference (d) or (e), if applicable, and best commercial

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practices in all other cases. Provide desiccant for overseas shipment or where long term storage applies.

(10) Notify all concerned (including NAVSEACEN, installing activity, and NAVORDSTA Indian Head) of shipment, and provide mode of transportation, shipping data, and estimated time of arrival. Provide a complete inventory for items shipped short, with estimate of expected shipping date or action to be taken by DOP to complete shipment.

R) e. Naval Sea Support Centers

(1) Provide NAVORDSTA Indian Head representation and general liaison to the TYCOM and at the waterfront on matters relating to the GWSRP.

(2) Provide personnel for inspections, that meet the NAVSEASYSKOM qualification standards, as described in the Gun Weapon System Replacement Program Material Condition Review Inspector Certification and Standards Manual.

(3) Conduct GWSRP MCRs as requested by NAVORDSTA Indian Head (paragraph 4c(9)) or TYCOM. Forward a copy of the MCR summary sheet to appropriate TYCOM, NAVORDSTA Indian Head, and cognizant ISEA.

(4) Provide input for development and revision of MCR inspection procedure booklets.

(5) When designated, coordinate the removal or installation of equipment or components under the GWSRP.

(6) Provide direction and funding to Naval Supply Centers to ensure proper PHS&T of equipment being returned for the GWSRP pipeline.

A) f. In-Service Engineering Agents (NAVORDSTA Louisville, Naval Ship Weapons Systems Engineering Station (NSWSES), Port Hueneme, and NAVWPNSUPPCEN Crane)

(1) Provide engineering and technical assistance as required in support of the DOP.

(2) Provide technical assistance for the removal or installation of equipment or components under the GWSRP as requested.

(3) Submit ORDALT installation requirements for equipment planned for GWSRP induction in the next 12 months to NAVSEA 06D2G

on a semiannual basis, with a copy to DOP and NAVORDSTA Indian Head.

(4) Develop MCR inspection procedure booklets as requested by NAVORDSTA Indian Head.

(5) Provide input for revisions of MCR inspection procedure booklets, based on MCR inspection results, Fleet gun weapon system engineering studies, and gun weapon system overhaul information.

(6) Provide support to DOP as requested, in preparing GWSRP workload schedule for semiannual GWSRP workload planning meeting (paragraph 4c(4)).

(7) Review impact of change requests to GWSRP replacement requirements as provided by NAVORDSTA Indian Head (paragraph 4b(3)).

g. Inventory Control Points (ICPs)

(R)

(1) Navy Ships Parts Control Center (SPCC), Mechanicsburg

(R)

(a) Conduct semiannual workload planning meetings with DOPs for 7H DLRs, based on demand data on projected usage.

(b) Fund and direct induction of 7H DLRs into overhaul by DOPs.

(c) Provide material support based on requirements submitted by GWSRP DOPs (paragraph 4d(4)).

(2) NAVORDSTA Louisville, NSWSES, Port Hueneme and NAVWPNSUPPCEN Crane)

(A)

(a) Initiate Military Standard Requisitioning and Issue Procedures (MILSTRIP) documentation for shipment of equipment to meet GWSRP DOP induction requirements.

(b) Initiate MILSTRIP documentation for shipment of completed equipment or components under the GWSRP.

(c) Provide disposition of equipment or components removed under GWSRP.

5. Approval. The reporting requirements are approved by the Chief of Naval Operations.

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6. Reports. Information provided for the GWSRP required in this instruction is exempt from reports control as defined in SECNAVINST 5214.2B.

*R. H. Ailes*

R. H. AILES  
Deputy Commander for  
Weapons & Combat Systems

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GUN WEAPON SYSTEM EQUIPMENT COVERED BY PROGRAM

<u>Gun Mounts</u>	<u>MCR Test Number</u>
76 MM MK 75	71175-2-001
5"/54 MK 45	71145-2-001
5"/54 MK 42	71142-2-002
5"/38 MK 28	71128-2-001
5"/38 MK 30	71130-2-001
3"/50 MK 22	71122-2-001
3"/50 MK 26	71126-2-001
3"/50 MK 33 Mods 0 and 13	71133-2-001
40 MM MK 3 Mod 9	71103-2-001
25 MM MK 38 Machine Gun	71138-2-001

<u>Gun Fire Control Systems</u>	<u>MCR Test Number</u>
Gun Fire Control System MK 86	48186-2-003
Unit 4 - Remote Optical Sight	
Unit 13 - AN/SPQ-9 Radar	
Unit 14 - Radome	
Unit 17 - AN/SPG-60 Radar	
Gun Fire Control System MK 68	48168-2-001
Gun Fire Control System MK 68DU	48168-2-005
Gun Director MK 68	
Radar Set AN/SPG-53A/F	
Computer MK 47	
Stable Element MK 16	
Gun Fire Control System MK 56	48156-2-001
Gun Director MK 56	
Computer MK 1A	
Stable Element MK 6	
Gun Fire Control System MK 37	48137-2-001
Gun Director MK 37	
Radar MK 25	
Computer MK 1A	
Stable Element MK 6	
Target Designation System MK 1	48156-2-002
Target Designation System and MK 5	48168-2-002
Target Designation Transmitter MK 23 and 24	48168-2-004

NOTE: Equipment not listed above, such as 16"/50 MK 7, although covered in general by the GWSRP, will be accepted on a case basis.

Enclosure (1)

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GUN WEAPON SYSTEM REPLACEMENT PROGRAM  
DELIVERY SCHEDULE DATA ELEMENTS

1. Hull Number
2. Hull Name
3. Equipment Nomenclature
4. Equipment MK and Mod
5. Fleet
6. ROH Yard with current ROH start and complete dates
7. Dockside delivery (unless otherwise specified, this date shall be set at 5 months before the end of the ship's overhaul completion date.)
8. Shipment Date
9. Equipment Serial Number
10. Remarks (indicate any dockside delivery date schedule slippages or conflicts and other shipping data)

Enclosure (2)