

Damage Control Petty Officer



Unit 2.6a



Enabling Objectives



- DESCRIBE the references for the DCPO program
- LIST the qualifications required for the divisional DCPO
- LIST the equipment covered by the DCPO program
- DESCRIBE the software required in managing the DCPO program
- DESCRIBE the responsibilities of the Executive Officer, DCA, and Department Heads in managing an effective DCPO program



Enabling Objectives



- DESCRIBE the different techniques in managing the DCPO program
- DISCUSS the inspection requirements for conducting the semi-annual compartment inspection as listed in the MRC.
- IDENTIFY common discrepancies that can affect proper fitting and performance of watertight doors.





As DCA, what should you REALLY
be able to do ???

Manage an **effective**
DCPO program onboard your
ship.



References



- NTTP 3-20.31 Rev A
- OPNAVINST 4790.4 series (3-M MANUAL)
- OPNAVINST 3120.32C (SORM)
- COMNAVSURFORINST 3502.1B (SURFTRAMAN)
- COMNAVSURFORINST 3540.1B EDORM



NTTP DCPO Reqs



2.1.23 Damage Control Petty Officer

Each division shall have a DCPO designated in accordance with TYCOM instructions. Ships might have specific DCPO work centers (ER09 or EDC1) established that perform all DC-related maintenance throughout the ship. DIVOs shall nominate for endorsement by the chain of command the names of the DCPO and the duty DCPOs. DCPOs and duty DCPOs shall normally serve for a period of 6 months and shall check in with the fire marshal and DCA upon being assigned to or released from such duties. The XO shall be the final approval for nomination, replacement, and rotation of all DCPOs. The DCPO and duty DCPOs shall:

1. Acquaint themselves with all phases of the ship's DC firefighting and CBRN-D procedures.
2. Assist with the instruction of division personnel in DC, firefighting, egress, and CBRN-D procedures.



NTTP DCPO Reqs



3. Ensure the preparation and maintenance of DC check-off lists for all spaces under their cognizance.
4. Supervise the setting of specified DC material conditions within division spaces and make required reports.
5. Weigh portable CO2 extinguishers, inspect and test DC and firefighting equipment, and prepare required reports for approval of the DIVO in accordance with current ship's instructions and PMS.
6. Ensure that all battle lanterns, dogging wrenches, spanner wrenches, and other DC equipment are in place and in a usable condition in all division spaces.
7. Ensure that all compartments, piping, cables, and DC and firefighting equipment are properly stenciled or identified by color codes (NSTM, chapter 079, volume 2, Practical Damage Control and NSTM, chapter 505, Piping Systems).



NTTP DCPO Reqs



8. Ensure that safety precautions and operating instructions are posted in required division spaces.
9. Perform all required maintenance on watertight closures in all division spaces.
10. Assist the DIVO in inspection of division spaces for cleanliness and preservation, and assist in the preparation of required reports.
11. Conduct daily inspections of division spaces for the elimination of fire hazards.
12. Perform such other duties with reference to DC and maintenance of division spaces as may be directed by the division leading petty officer (LPO), DIVO, fire marshal, DCA, and XO.



DCPO QUALIFICATION



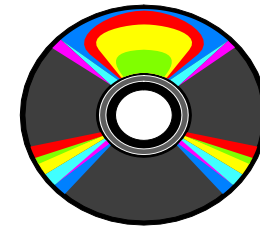
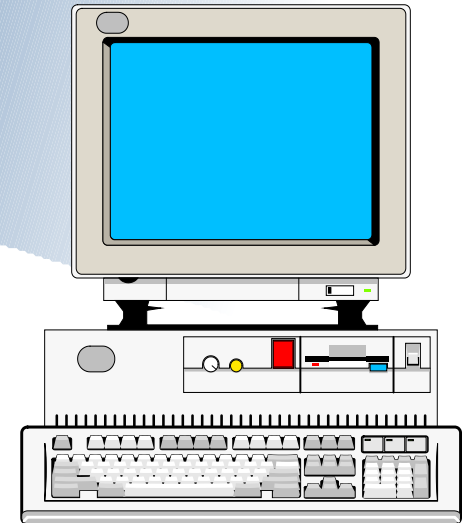
- DCPO PQS was eliminated in 1998
- 3M Maintenance Man PQS
- QA Craftsman PQS
- Basic DC PQS (301-306)
- Complete DCPO STEP (CD-ROM or Web)
 - Shipboard Training Enhancement Program
 - Replaces formal DCPO school
- Should be responsible Petty Officer
- "Assigned" (approved) by XO



DCPO STEP CD-ROM



- Course consists of 6 lessons: Material Conditions of Readiness; PMS; MRCs; Material Safety Data Sheet; Compartment/Space Inspections, Fire Extinguishers and Ladders & Handrails, and; Closures, Ducting and Fire Station Equipment. A Diagnostic Pre-test and a comprehensive Post-test are included.
- Minimum of 1 DCPO STEP CD-ROM required for every division onboard ship



DCPO STEP on the web



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DCPO Organization



- EDC-1 / ER-09 Work Center for training DCPO's and providing supplies encouraged
 - 311350ZJAN02 CNSF

PAGE 02 RUWDEAB1350 UNCLAS CONTROL PETTY OFFICER WORK CENTER, ***REESTABLISHMENT OF SUCH A WORK CENTER IS STRONGLY ENCOURAGED.***

RECENT INSURV RESULTS INDICATE THAT REESTABLISHMENT OF THE EDC1/ERO9 WORK CENTER MAY SERVE AS A USEFUL TOOL FOR COMMANDING OFFICERS TO USE IN ACHIEVING HIGHER STANDARDS IN DC PMS ACCOMPLISHMENT.



Responsibilities



Executive Officer

- Sets guidelines
- Specifically approve all DCPO replacements in writing. Designation letter must be in the Work Center Maintenance Manual
- Initiate an effective DC PMS spot check program.



Dept Head Responsibilities



Adequate survivability readiness can be achieved only by the participation of all departments aboard ship. Certain responsibilities are common to all department heads, who must:

- 1. Ensure optimum material conditions of readiness within the department, as prescribed by compartment check-off lists (CCOL) provided by the DCA.
- 2. Provide for periodic inspections of department spaces by an officer in accordance with current planned maintenance service (PMS) procedures.
- 3. Require that DC equipment and fittings be maintained in their proper locations and in operating condition.
- 4. Provide trained and qualified personnel as damage control petty officer (DCPO); designate a damage control chief petty officer (DCCPO) when required in accordance with paragraph 2.1.22.



Dept Head Responsibilities



5. Provide personnel to DC stations, fire, salvage, rescue parties, and other survivability functions as required by ship's organization bills.
6. Require securing of department material and equipment against possible damage by heavy weather.
7. Require an immediate report to be made to the DCA of any deficiency in DC markings, devices, fittings, equipment, or material, and initiate corrective action.
8. In coordination with the DCA, train personnel in DC matters.
9. Be prepared to strip ship or clear for action, in accordance with the Strip Ship Bill and other appropriate ship's instructions.



DCA RESPONSIBILITIES



- **Supervise qualifications**
- **Training**
- **Schedule Maintenance**
- **Take action on deficiencies**
- **Maintain program Big picture**



Challenges facing Closure Management



1. DCPO Organization or lack there of
2. PMS Requirement changes
 1. Periodicity changes
 2. Complicated MRC Cards
 3. Identifying the correct PMS to conduct
 4. 3M Assist visit vs.. 3M Inspection
 5. Gundecking!!!!!!!
3. DCPO Job Management and Job writing ability
4. Parts/Inventory and Supply procurement issues
5. Engineering the problems out with MACHALTS
6. Improper Inspecting procedures



Challenges facing Closure Management



1. Significant learning curve associated with the DCPO Job
 1. Most DCPO's come from Non-Engineering jobs
 2. Most DCPO's do not stay on the job for more than 6 months
 3. Commonly unable to troubleshoot problems or identifying necessary repair parts or conduct the repairs as a result most jobs written by DCPO's do not correctly identify the problem or parts.



Things to Do



1. Conduct Training, Administrative and Technical
2. Teach Zone Inspectors how to conduct a proper inspection and track DCPO hits
3. Use Seamat to train key personnel or use K-495-0401 FTC
4. Track DCPO performance with 3M spot checks and Closure Inspection Reports
5. Create complete list of all fittings onboard and track ownership, APL, MACHALTS, Type of Fitting, Size, Interior/Exterior, Left or Right, Ballistic/Non-Ballistic, Number of Dogs, Hinge Type, Bushing Type and Classification.



Things to Do



6. Create job examples for DCPOs to use as job writing templates.
7. Buy Closure Parts via the Navy Supply system.
8. Maintain an accurate Closure Log.
9. Review DCPO work centers, (Work Center Maintenance Manuals) to ensure DCPO's are doing to proper PMS.
10. Maintain a proper DCPO program



Common Safety Discrepancies for DCPOs



DC-7: Damage Control Petty Officer

1. Missing non-skid strips at top and bottom of ladders and doorways or not properly installed. **Ref. PMS MIP 6641/003, and GSO 634, para 2**
2. Improperly maintained CO2 portable extinguisher. **Ref. PMS MIP 6641/004**
4. Loose or missing ladder and handrail parts, treads, safety chains and toggle pins. **Ref. PMS MIP 6641/003, and NSTM 600 SEC 9,10**
5. Quick acting escape scuttles do not operate freely or do not lock in the open position. **Ref. PMS MIP 1671/001, and NSTM 600 SEC 14**



Common Safety Discrepancies for DCPOs



6. Safety nets and chains missing or improperly rigged in vertical trunks.

Ref. PMS MIP 6122/001, GSO 612e, NSTM 600 fig 13.1, and JFFM VOL V PART 1

7. Fire stations improperly rigged, cut out valve leaking, and wye gate not properly aligned, fire hose spanner wrench missing, piping and fireplug valve not securely bracketed. **Ref. PMS MIP 6641/004**

8. Spring clips to hold WTD handle in place are missing, dogs out of adjustment, bent or do not operate as designed. **Ref. PMS MIP 1671/008**

9. Warning placards not posted or missing from various locations, including overboard discharge connections, manhole covers, escape scuttles and compressed gas cylinder storage areas. **Ref. GSO, Sec 602j, and Sec 593c**



Responsibilities



- EDC-1 / ER-09 Work Center for training DCPO's and providing supplies encouraged
- DC PMS Scheduled and Accomplished by Parent Work Centers or DCA



DCPO's Responsibilities



Equipment Maintenance

- WTD's, WTH's, WTS's
- Deck Drains
- Fire Stations
- Battle Lanterns
- Portable Fire Extinguishers
- EEBD's/SEED's
- Compt./Space Inspections
- Flammable Lockers
- Ladders & Handrails
- Ventilation
- CCOL



Compartment Inspections



- Piping and Ventilation Ducting
- Frame / Bulkhead Penetrations
- Valves / Handwheels
- Doors, Hatches and Scuttles
- First Aid Boxes
- Fire Stations
- Photolum Paint or 3M Stickers
- Traffic Markings
- Deck Drains



Compartment Inspections



- Check Cables, Junction Boxes, Terminal Boxes, SP Phone Equip, Loose Cabling



Compartment Inspections



- Tamper Seals
- Labels Correct
- Dry Rot in Hose
- **PKP**: Powder not caked/nozzle
- **CO2**: Hydro Date, Electrical Tape
- **AFFF**: Pressure Gage in Green Zone



Compartment Inspections



- Spanner Wrenches
- Wye Gates
 - Verdigris
- Hoses Stowed Properly
 - 6 inches off deck
- Hydro Dates Current
 - 36M
 - Stenciled/Etched



Compartment Inspections



- **Ladders/ Handrails**
 - Non-Skid Treads
 - Safety Chains
 - Handrails Tight
 - Toggle Pins
- **Flam Storage**
 - Warnings/Labels
 - Self-Closing
 - Drip Trays
 - Current Inventory



Compartment Inspections



- **Deck Drains**
 - Screws
 - Hairballs, Paint Chips, Verdigris
- **Battle Lanterns**
 - Sat OPTEST
 - 4 Feet
 - Wiring
 - Mounting Bracket



Compartment Inspections



- EEBDs
- Tamper Seal Intact
- Humidity Indicator = Blue for You...
Pink it Stinks
- Non-skid tabs



Compartment Inspections



- **Preheaters and Reheaters:**
 - Cleanliness
- **Exhaust:**
 - Flame Arrestors, HF Alarms
- **Recirc:**
 - Cooling Coils Clean
 - Fire Dampers Fully Closed



Maintaining Material Condition



To ensure all divisional spaces remain in peak condition, the DCPO MUST:

- Ensure PMS checks in ALL compartments are conducted thoroughly and properly.
- Promptly report/repair/replace any damaged or defective gear
- Division Officers should conduct their own periodic zone inspections to ensure all equipment is in proper working order





Yoke Report Totals



Year Total: 4826

JAN:	502	FEB:	369	MAR:	317	APR:	205	MAY:	615	JUN:	585
JUL:	432	AUG:	313	SEP:	266	OCT:	440	NOV:	205	DEC:	577

Total this Month: 266

Grading Criteria

Yoke Fittings Accounted For:	7722	Total Fittings Set Late:	4826
Total Yoke Fittings:	8085	Number of times to sign Yoke:	39040
Confidence Factor:	95.51%	Command Average Performance Grade for the Year:	87.64%

100% to 95%	A
95% to 90%	B
85% to 90%	C
80% to 85 %	D
0% to 79.99%	F

Numbers reflect the number of times the DCPO did not set Yoke on time per month. Grade is based on signing yoke 2 times per day in any given month.



Watertight Integrity



Current Issues



- INSURV : 40% of WTD's, WTH's and WTS's not watertight!!!!!!
- PMS on WTDs IS NOT BEING CONDUCTED PROPERLY!
- Biggest Problem: Aluminum Weatherdeck Doors... soaking up nearly 50% of Repair Money



Onboard Maintenance Training (OMT)



SEMAT/CEMAT:

- Surface (Carrier) Engineering Mat'l Assessment Team
- Available at **NO COST** through TYCOM's
- Approx. 2 weeks of hands-on training
 - WTD
 - Auxiliary Machinery
- About 10-40 Closures fixed
- Assess doors, train DCPOs, 1-on-1 help, logistical support for COSAL



EAST COAST



- **SEMAT AVAILABILITIES PROGRAMMED INTO IDTC**
- **SEMAT II - D-180 from Deployment**
- **SEMAT III - Pre - Deployment**
- **SEMAT IV - Post - Deployment**
- **SEMAT I - Industrial Availability**
- **Requested Assists Going Away**
 - **USCG can request assist visits**
 - **Limits due to technical differences**



EAST COAST



- **CONTACT INFORMATION**
- **CNSL - (757)396-4001 x2186**
 - Norfolk
 - Mayport
 - Pascagoula
 - Ingleside
- **CNAL - (757)444-7281**



WEST COAST



- SEMAT AVAILABILITIES **NOT** PROGRAMMED INTO IDTC
- Ships request assists directly.
- CNAP - (619) 545-5024
- San Diego - (619) 556-0048
- Everett - (425) 258-9579
- Hawaii - (808)474-8686
- Yoko/Sasebo - (0468)21-1910 x243-6498



Summary



- MATURE, PROFESSIONAL PERSONNEL are key to running a successful DCPO program
- Each division should have a minimum of 1 DCPO STEP CD-ROM onboard ship IAW SURFORTRAMAN
- Periodic zone inspections by Division Officers and Department Heads ensure material condition of DC equipment in divisional spaces is satisfactory and operational



Assignment



- All DCA students are required to complete the DCPO step course prior to the completion of Unit 3.
- You must print the certificate at the end of the course.

Material Conditions of Readiness 2.210

LEVEL	SECTION	COMPARTMENT NUMBER
MAIN DECK	SECTION A	001-002
MAIN DECK	SECTION B	003-004
MAIN DECK	SECTION C	005-006
SECOND DECK	SECTION A	007-008
SECOND DECK	SECTION B	009-010
SECOND DECK	SECTION C	011-012
THIRD DECK	SECTION A	013-014
THIRD DECK	SECTION B	015-016
THIRD DECK	SECTION C	017-018
FOURTH PLATFORM	SECTION A	019-020
FOURTH PLATFORM	SECTION B	021-022
FOURTH PLATFORM	SECTION C	023-024
FIFTH PLATFORM	SECTION A	025-026
FIFTH PLATFORM	SECTION B	027-028
FIFTH PLATFORM	SECTION C	029-030
DOUBLE BOTTOM	SECTION A	031-032
DOUBLE BOTTOM	SECTION B	033-034
DOUBLE BOTTOM	SECTION C	035-036

MATERIAL CONDITIONS OF READINESS

Every naval ship is subdivided by decks and bulkheads both below and above the waterline, to minimize the spread of fire, flooding, smoke, and other damage.

These compartments are penetrated by numerous pathways, fittings, closures, and/or accesses.

To use compartmentation to its maximum advantage, all doors, hatches, scuttles, accesses, valves, and fittings have damage control value, and are marked to indicate how they are to be set during various material conditions.

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QUICK REVIEW



- DCPO Responsibilities
- DCPO Organization
- DCPO Qualification Process
 - PQS & STEP
- COC Responsibilities
 - XO, DH, DCA, DCPO
- DCPO PMS



QUICK REVIEW



- What are the qualifications required to be a DCPO?
- What software is required in conjunction with the DCPO program?
- What are the most common shortfalls that affect proper fit and performance of water-tight doors?





Questions?



Watertight Closure School



- Fleet Training Center (FTC) San Diego, Norfolk, and Pearl Harbor offer a two day hands on watertight closure maintenance course (Watertight Closures # K-495-0401) for DCs and DCPOs.
- POCs:
 - FTC San Diego: To sign up for class call Quota Control 619-556-9179, for General Information call 619-556-8383.
 - ATGMIDPAC Pearl Harbor: To sign up for class call Quota Control 808-472-8383, for General Information call 808-471-0551.
 - FTC Norfolk: To sign up for class call Quota Control 757-444-2996x3023 or 3155, for General Information call 757-444-1244

