

P 201750Z JUN 11 NAVSURFWARCEN SHIPSYSENGSTA PHILADELPHIA PA

FM NAVSURFWARCEN SHIPSYSENGSTA PHILADELPHIA PA

TO COMNAVSURFLANT NORFOLK VA//

COMNAVSURFPAC SAN DIEGO CA//

COMSUBPAC PEARL HARBOR HI//

COMNAVAIRLANT NORFOLK VA//

COMNAVAIRPAC SAN DIEGO CA//

INFO CENNAVENGINEERING NORFOLK VA//

CENSURFCOMBATSYS DAHLGREN VA//

PRESINSURV VIRGINIA BEACH VA//

COMNAVSAFECEN NORFOLK VA//

COMUSFLTFORCOM NORFOLK VA//

COMPACFLT PEARL HARBOR HI//

SUPSHIP BATH ME//

SUPSHIP GULF COAST MS//

SUPSHIP NEWPORT NEWS VA//

NAVSHIPYD AND IMF PEARL HARBOR HI//

NAVSHIPYD AND IMF PUGET SOUND DET BOSTON MA

NAVSHIPYD AND IMF PUGET SOUND WA//

NAVSHIPYD NORFOLK VA//

COMNAVRMC NORFOLK VA//

SHIPSUPPACT NORFOLK DET BAHRAIN//

SHIPSUPPACT NORFOLK DET NAPLES IT//

SHIPSUPPACT NORFOLK VA//

NAVSHIPREPFAC AND JAPAN RMC DET SASEBO JA//

NAVSHIPREPFAC AND JAPAN RMC YOKOSUKA JA//

SOUTHEAST RMC MAYPORT FL//

SOUTHWEST RMC SAN DIEGO CA//

COMNAVSEASYS COM WASHINGTON DC//

COMNAVSEASYS COM WASHINGTON DC//
PEO SHIPS WASHINGTON DC//
PEO CARRIERS WASHINGTON DC//
COMSUBLANT NORFOLK VA//
COMSC WASHINGTON DC//
NAVSEALOGCEN MECHANICSBURG PA//

BT

UNCLAS

SECINFO/U/-//

MSGID/GENADMIN/NSWCCD-SSES 668/MRN570//

SUBJ/IN SERVICE ENGINEERING (ISE) ADVISORY NO. 012-11, MANUAL AND
/ELECTRIC CONTROL HEADS FOR KIDDE-FENWAL CO2 ACTUATORS ON HALON
/AND HFP SYSTEMS//

REF/A/DESC:MSG/NSWCCD-SSES/151505Z OCT 2001/-/NOTAL//

REF/B/DESC:MSG/NSWCCD-SSES/021800Z NOV 2001/-/NOTAL//

REF/C/DESC:DOC/NAVSEA/01 APR 2011//

REF/D/DESC:DOC/NAVSEA/31 DEC 1994//

REF/E/DESC:DOC/NAVSEA/01 JUN 2008//

REF/F/DESC:DOC/NAVSEA/10 JUL 2003//

REF/G/DESC:DOC/NAVSEA/31 MAR 2008//

REF/H/DESC:DOC/NAVSEA/27 APR 2011//

NARR/REF A INFORMED THE FLEET THAT SOME CONTROL HEADS
MANUFACTURED

BY WALTER KIDDE ON CO2 ACTUATORS IN THE HALON SYSTEM HAVE BEEN
FOUND

TO LEAK EXCESSIVELY DURING OPERATIONAL TESTING. REF B CLARIFIED
REF

A TO SPECIFY THAT THE WALTER KIDDE CONTROL HEADS IN QUESTION ARE
FOR

5 POUND CO2 ACTUATION CYLINDERS. REF C IS SURFACE SHIP PLANNED MAINTENANCE SYSTEM (PMS) MAINTENANCE INDEX PAGE (MIP) 5553/026. REF D IS TECHNICAL MANUAL S9555-AT-MMA-010 REV 2, HALON 1301 FIXED FIRE EXTINGUISHING SYSTEM; DESCRIPTION, OPERATION, AND MAINTENANCE (FOR KIDDE FENWAL SYSTEMS). REF E IS TECHNICAL MANUAL S9555-ES-MMC-010, HEPTAFLUOROPROPANE (HFP) FIXED FLOODING FIRE EXTINGUISHING EQUIPMENT MANUAL; DESCRIPTION, OPERATION, AND MAINTENANCE INSTRUCTIONS (FOR LPD-19). REF F IS TECHNICAL MANUAL S9555-D6-MMO-010, HEPTAFLUOROPROPANE (HFP) FIRE EXTINGUISHING SYSTEM FOR CVN76. REF G IS TECHNICAL MANUAL S9555-EQ-MMO-010, FIRE EXTINGUISHING SYSTEM, HEPTAFLUOROPROPANE (HFP) FOR CVN 77; MAINTENANCE MANUAL. REF H IS EMAIL FROM NAVSEA 05P5/MARY HUNSTAD TO NSWCCD-SSES 668/MARK HAMPSON PROVIDING NAVSEA FIRE PROTECTION SYSTEMS TECHNICAL WARRANT HOLDER CONCURRENCE WITH THIS ADVISORY.// POC/MR. MARK HAMPSON/CIV/UNIT:NSWCCD-SSES 668/NAME:PHILADELPHIA PA /TEL:215-897-1257/TEL:DSN 443-1257/EMAIL:MARK.HAMPSON@NAVY.MIL//

GENTEXT/REMARKS/1. PURPOSE: TO ADDRESS EXCESSIVE LEAKAGE FROM KIDDE-FENWAL MANUAL CONTROL HEADS INSTALLED ON HALON AND HEPTAFLUOROPROPANE (HFP) FIREFIGHTING SYSTEM CO2 ACTUATING CYLINDERS DURING OPERATIONAL TESTING. THIS ADVISORY DOES NOT APPLY TO THE MANUAL AND ELECTRIC CONTROL HEADS MANUFACTURED BY ANSUL, WORMWALD OR

CHEMETRON ON MIL-E-24572 (EXTINGUISHER, FIRE, BROMOTRIFLUOROMETHANE (HALON 1301) SYSTEM COMPONENTS (FIXED PIPE, PNEUMATICALLY ACTUATED, NAVAL SHIPBOARD USE)) SHIPBOARD HALON AND HFP SYSTEMS. ANSUL AND CHEMETRON CONTROL HEADS ARE INTEGRAL TO THE CYLINDER AND ARE NOT REMOVABLE. THIS ADVISORY IS NOT APPLICABLE TO LCS-1 CLASS AND LCS-2 CLASS SHIPS WHICH HAVE ANSUL HFP SYSTEMS; CVN-65, CVN-68 THROUGH CVN-75 AND DDG-100 AND FOLLOW WHICH HAVE ANSUL HALON SYSTEMS; AND FFG-7 CLASS WHICH HAS WORMWALD OR ANSUL ACTUATORS. THIS ADVISORY CANCELS AND SUPERSEDES REFS A AND B.

2. BACKGROUND:

A. REFS A AND B IDENTIFIED THAT MANUAL OR ELECTRIC CONTROL HEADS FOR CO2 ACTUATION CYLINDERS ON MIL-E-24572 SHIPBOARD HALON AND HFP SYSTEMS MANUFACTURED BY WALTER-KIDDE (NOW NAMED KIDDE-FENWAL) HAVE BEEN FOUND TO LEAK EXCESSIVELY DURING OPERATIONAL TESTING. DURING A RECENT SHIP INSPECTION, MULTIPLE HALON SYSTEMS FAILED SYSTEM ACTUATION TESTING DUE TO EXCESSIVE LEAKS FROM THE MANUAL CONTROL HEADS OF THE KIDDE CO2 ACTUATING CYLINDERS. REFS A AND B RECOMMENDED SHIPS WITH KIDDE HALON SYSTEMS ENSURE THAT THE CONTROL HEADS ON 5LB CO2 ACTUATION CYLINDER VALVES ARE INSTALLED HAND TIGHT PLUS 1/4 TURN WITH A WRENCH. THE REQUIREMENT TO ENSURE THAT CONTROL HEADS ON THE KIDDE 5LB CO2 ACTUATION CYLINDERS ARE INSTALLED HAND TIGHT PLUS 1/4 TURN WITH A WRENCH APPLIES TO BOTH MANUAL AND

ELECTRIC CONTROL HEADS ON HALON AND HFP SYSTEMS.

B. THERE IS A REMOTE POSSIBILITY SOME SHIPS MAY HAVE A MIXTURE OF KIDDE AND ANSUL MANUAL CO2 ACTUATOR ASSEMBLIES. KIDDE CO2 ACTUATOR

CYLINDERS ARE MARKED WITH THE MANUFACTURER'S LABEL. KIDDE ACTUATORS

HAVE AN OPEN RING ON THE ACTUATOR THAT IS PULLED UPWARDS TO ACTUATE

THE CO2 CYLINDER. ANSUL CO2 ACTUATORS HAVE A HANDLE THAT IS DEPRESSED TO ACTUATE THE CYLINDER.

C. REF C PMS, APPLICABLE TO SURFACE SHIPS AND AIRCRAFT CARRIERS, INCLUDES THE REQUIREMENT THAT MANUAL AND ELECTRIC CONTROL HEADS FOR

KIDDE 5LB CO2 ACTUATION CYLINDERS BE INSTALLED HAND TIGHT PLUS 1/4 TURN WITH A WRENCH, OR VERIFIED TO THIS TIGHTNESS. THIS REQUIREMENT

IS INCLUDED IN MONTHLY INSPECTION MRC 8KJX (M-1R) FOR HALON OR C9RB (M-2R) FOR HFP, SEMI-ANNUAL WEIGHT CHECK MRC 6RWX (S-3), 18 MONTH TEST OPERATION MRC 8GZN (18M-3R) AND DURING THE UNSCHEDULED TASK FOR

TESTING THE TIME DELAY MRC 6RWW (U-4).

3. RECOMMENDED ACTIONS: CONDUCT A ONE-TIME VERIFICATION THAT ALL KIDDE MANUAL AND ELECTRIC CONTROL HEADS FOR KIDDE 5LB CO2 ACTUATION

CYLINDERS ARE INSTALLED HAND TIGHT PLUS 1/4 TURN WITH A WRENCH. USING AN ADJUSTABLE WRENCH (SPMIG 09807) OR 1-1/2 INCH OPEN END WRENCH (SPMIG 58536) CHECK FOR TIGHTNESS BY BACKING OFF THE ACTUATOR

NUT UNTIL IT LOOSENS AND ALLOWS THE NUT TO BE TURNED BY HAND.

RETIGHTEN HAND TIGHT AND FINISH RETIGHTENING AN ADDITIONAL 1/4 TURN

WITH THE WRENCH.

4. NSWCCD-SSES WILL REVIEW THE REMAINDER OF MRCS CONTAINED IN REF C

TO ENSURE THAT WHEN CONTROL HEADS ARE REMOVED, THEY ARE RE-INSTALLED

HAND-TIGHT PLUS 1/4 TURN WITH A WRENCH. ADDITIONALLY, AN INSPECTION TASK WILL BE ADDED TO REF C AS A NEW UNSCHEDULED MAINTENANCE REQUIREMENT FOR VERIFICATION THAT KIDDE CO2 ACTUATOR HEADS ARE INSTALLED HAND-TIGHT PLUS 1/4 TURN WITH A WRENCH UPON RECEIPT OF NEW CO2 CYLINDERS FOR INSTALLATION.

5. REFS D THROUGH G TECHNICAL MANUALS WILL BE UPDATED TO INCLUDE MENTION OF THE POTENTIAL FOR LOOSE KIDDE MANUAL OR ELECTRIC CONTROL

HEADS ON CO2 ACTUATION CYLINDERS TO LEAK WHEN ACTUATED.

NECESSARY

WARNINGS AND CAUTIONS, AS APPROPRIATE, WILL ALSO BE ADDED.

6. THIS ADVISORY IMPACTS PMS AS OUTLINED IN PARAGRAPH 4; SPECIAL PROJECT TRACKING NUMBER PS-7819-11 APPLIES. THIS ADVISORY IMPACTS REF D THROUGH G TECH MANUALS AS OUTLINED IN PARAGRAPH 5 ABOVE;

TMDER

TRACKING NUMBERS N65540-11-JC11, N65540-11-JC12, N65540-11-JC13 AND N65540-11-JC14 APPLY RESPECTIVELY TO REFS D THROUGH G. THIS

ADVISORY

HAS NO IMPACT ON EOSS, SUPPLY SUPPORT/ APLS, LIFE CYCLE TRAINING OR CLASS MAINTENANCE PLANS. THIS ADVISORY WILL REMAIN IN EFFECT UNTIL THE ACTION OF PARAGRAPH 3 IS COMPLETED, AND PMS AND TECH MANUALS REVISIONS HAVE BEEN ISSUED.

7. PER REF H, NAVY FIRE PROTECTION SYSTEMS TECHNICAL WARRANT HOLDER

CONCURS WITH THIS ADVISORY.

8. THIS ADVISORY WILL BE POSTED TO SAILOR-TO-ENGINEER WEBSITE AT
HTTPS: <DOUBLE FORWARD SLASH>HELP.PHDNSWC.NMCI.NAVY.MIL.

ACCESS TO THE SAILOR-TO-ENGINEER WEBSITE CAN BE REQUESTED AT
HTTPS:<DOUBLE FORWARD SLASH>ACCOUNTS.PHDNSWC.NMCI.NAVY.MIL.

9. REQUEST TYCOMS PASS THIS ADVISORY TO ALL APPLICABLE UNITS FOR
ACTION.//

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