

FM COMNAVSURFPAC SAN DIEGO CA
TO USS ANTIETAM, USS ANZIO, USS ARLEIGH BURKE,

USS BAINBRIDGE, USS BARRY, USS BENFOLD, USS BULKELEY, USS BUNKER HILL,
USS CAPE ST GEORGE, USS CARNEY, USS CARTER HALL, USS CHAFEE, USS
CHANCELLORSVILLE, USS CHOSIN, USS CHUNG HOON, USS COLE, USS COWPENS,
USS CURTIS WILBUR, USS DECATUR, USS DEWEY, USS DONALD COOK, USS
FARRAGUT, USS FITZGERALD, USS FORREST SHERMAN, USS GETTYSBURG, USS
GONZALEZ, USS GRIDLEY, USS HALSEY, USS HIGGINS, USS HOPPER,
USS HOWARD, USS HUE CITY, USS JAMES E WILLIAMS, USS JOHN PAUL JONES,
USS JOHN S MCCAIN, USS KIDD, USS LABOON, USS LAKE CHAMPLAIN, USS LAKE
ERIE, USS LASSEN, USS LEYTE GULF, USS MAHAN, USS MASON, USS MCCAMPBELL,
USS MCFAUL, USS MILIUS, USS MITSCHER, USS MOBILE BAY, USS MOMSEN, USS
MUSTIN, USS NITZE, USS NORMANDY, USS OKANE, USS OSCAR AUSTIN, USS PAUL
HAMILTON, USS PHILIPPINE SEA, USS PINCKNEY, USS PORT ROYAL, USS PORTER,
USS PREBLE, USS PRINCETON, USS RAMAGE, USS REUBEN JAMES, USS
ROOSEVELT, USS ROSS, USS RUSSELL, USS SAMPSON, USS SAN JACINTO, USS
SHILOH, USS SHOUP, USS STERETT, USS STETHEM, USS STOCKDALE, USS STOUT,
USS THE SULLIVANS, USS TRUXTUN, USS VELLA GULF, USS VICKSBURG, USS
WAYNE E MEYER, USS WINSTON S CHURCHILL, USS JASON DUNHAM, USS
SPRUANCE, USS WILLIAM P LAWRENCE, PRECOMUNIT MICHAEL MURPHY,
INFO

COMSECONDFLT, COMTHIRDFLT, COMFIFTHFLT, COMFOURTHFLT, COMSIXTHFLT, C
OMSEVENTHFLT, COMNAVSURFPAC SAN DIEGO CA, COMNAVSURFLANT
NORFOLK VA, PEO IWS WASHINGTON DC, CENSURFCOMBATSYS DET NORFOLK
VA, COMNAVRMC NORFOLK VA, SWOSCOLCOM NEWPORT RI,
COMAFLOATRAGRU ATLANTIC NORFOLK VA, COMAFLOATRAGRUPAC SAN
DIEGO CA, AEGIS TRAREDCEN DAHLGREN VA, CENSURFCOMBATSYS DAHLGREN
VA, CENSURFCOMBATSYS DET EAST NORFOLK VA, CENSURFCOMBATSYS DET
MAYPORT FL, CENSURFCOMBATSYS DET NORFOLK VA, CENSURFCOMBATSYS
DET PACNW EVERETT WA, CENSURFCOMBATSYS DET PEARL HARBOR HI,
CENSURFCOMBATSYS DET SAN DIEGO CA, CENSURFCOMBATSYS DET WALLOPS
ISLAND VA, CENSURFCOMBATSYS DET WEST SAN DIEGO CA,
CENSURFCOMBATSYS DET YOKOSUKA JA, CENSURFCOMBATSYSU DAM NECK
VA, CENSURFCOMBATSYSU GREAT LAKES IL, COMDESRON ONE, COMDESRON
TWO, COMDESRON SEVEN, COMDESRON NINE, COMDESRON
FOURTEEN, COMDESRON FIFTEEN, COMDESRON TWO ONE, COMDESRON TWO
TWO, COMDESRON TWO THREE, COMDESRON TWO EIGHT, COMDESRON TWO SIX,
COMDESRON THREE ONE

UNCLAS

SUBJ/CNSP-CNSL AN/SPY-1 MATERIEL READINESS IMPROVEMENT PROGRAM//
MSGID/GENADMIN, USMTF, 2008/COMNAVSURFPAC/2403/OCT//
POC/DEAN, KEVIN/LCDR/COMNAVSURFPAC/SAN DIEGO CA
/EMAIL:KEVIN.DEAN(AT)NAVY.MIL// POC/DOHERTY,

SCOTT/CIV/COMNAVSURFLANT/NORFOLK VA
/EMAIL:SCOTT.DOHERTY(AT)NAVY.MIL//

GENTEXT/REMARKS/1. THIS IS A COMBINED CNSP/CNSL MESSAGE COORDINATED WITH PEO IWS. THIS MESSAGE ESTABLISHES THE CNSP/CNSL AN/SPY-1 (SPY) MATERIEL READINESS IMPROVEMENT PROGRAM. PARAGRAPH 4 OF THIS MESSAGE DIRECTS SPECIFIC ACTION TO BE TAKEN BY ALL ACTION ADDEES.

2. BACKGROUND.

A. IN THE PAST 12 MONTHS CNSP AND CNSL CRUISERS SUBMITTED 107 CASREPS AND DESTROYERS SUBMITTED 105 ON EQUIPMENT ASSOCIATED WITH THE SPY RADAR TRANSMITTER. ADDITIONALLY, RECENT INSURV RESULTS AND OTHER IDENTIFIED READINESS DEGRADATIONS HIGHLIGHT THE NEED TO INCREASE COMMAND INVOLVEMENT IN SPY RADAR AND AEGIS WEAPONS SYSTEM MAINTENANCE AND PERFORMANCE.

B. SPY RADAR HAS DESIGN REDUNDANCIES TO MAINTAIN OPERATION IN A HOSTILE ENVIRONMENT. IT IS IMPERATIVE TO ENSURE MAXIMUM REDUNDANCY OF THE AEGIS WEAPON SYSTEM AND NOT BE COMPLACENT WITH REDUCTIONS IN THIS AREA. TECHNICIANS MUST REPORT, TROUBLESHOOT, AND REPAIR SYSTEM DEGRADATIONS IMMEDIATELY TO MAXIMIZE RADAR MATERIEL READINESS.

EACH LOSS OF REDUNDANCY WILL BE SCRUTINIZED AND REPORTED IAW THE REQUIREMENTS OF NWP 1-03.1 (OPERATIONAL REPORTS, FORMALLY NWP 10-1-10).

3. SPY MATERIEL READINESS PROGRAM OBJECTIVES: INCREASE OPERATOR PROFICIENCY, COMPETENCE, AND CONFIDENCE; IMPROVE COMMAND AWARENESS OF SPY AND SUPPORTING EQUIPMENT MATERIEL AND OPERATIONAL READINESS; INCULCATE A CULTURE OF SPY SELF-SUFFICIENCY AND OWNERSHIP; AND IMPROVE SPY MATERIEL AND OPERATIONAL READINESS AND PERFORMANCE. THE FOLLOWING TENETS GOVERN THIS PROGRAM:

A. ENHANCED PMS EXECUTION. ACHIEVING AND SUSTAINING PEAK SYSTEM PERFORMANCE REQUIRES SUCCESSFUL ACCOMPLISHMENT OF EXISTING SPY PMS CHECKS WITH SPECIAL ATTENTION TO THE SIGNAL PROCESSOR AUTO ALIGNMENT, TRANSMITTER POWER AND PHASE (TP&P), SIGNAL PROCESSOR/ORTS TESTS, AND THE AEGIS COOLING SKIDS. CLOSE MONITORING OF THESE CHECKS PROVIDES THE BEST INDICATORS OF THE OVERALL HEALTH OF THE SPY RADAR.

B. TROUBLESHOOTING LEADING INDICATORS. SHIP'S FORCE TECHNICIANS WILL IDENTIFY LEADING INDICATORS THAT REQUIRE FURTHER TROUBLESHOOTING USING THE EFFECTIVE TRANSMIT POWER TRACKER (ETP) DELINEATED IN PARA 4A(1). BY PERFORMING THE ADDITIONAL PMS DELINEATED IN PARA 4A(2)

(ASSOCIATED WITH THE TROUBLESHOOTING OF LEADING INDICATORS), TECHNICIANS WILL MAINTAIN OR REGAIN PEAK RADAR PERFORMANCE, REDUCING MAINTENANCE TIME, AND INCREASING EFFECTIVE TRANSMIT POWER. BASED ON FLEET FEEDBACK AND PROGRAM EFFECTIVENESS TYCOM WILL SUBMIT TECHNICAL FEEDBACK REPORTS TO ACCOUNT FOR ADDITIONAL MAN-HOURS ASSOCIATED WITH THIS PROGRAM AS SITUATIONAL PMS.

C. COMMAND DRIVEN. PROGRAM SUCCESS DEPENDS ON COMMAND AWARENESS AND INVOLVEMENT. THIS REQUIRES DAILY, DETAILED INTERACTION AMONG THE COMMANDING OFFICER, COMBAT SYSTEMS OFFICER (CSO), SYSTEMS TEST OFFICER (STO), COMBAT SYSTEMS MAINTENANCE MANAGER (CSMM), FIRE CONTROL OFFICER (FCO), AND SPY TECHNICIANS.

4. SPY MAINTENANCE PROGRAM ACTIONS. STARTING ON 01 NOV 2011, ALL AEGIS SHIPS SHALL COMMENCE THE FOLLOWING UNTIL FURTHER NOTICE:

A. PERFORM MRC 4560/506 R-2W (TP&P) EVERY 72 HOURS WHILE UNDERWAY AND WEEKLY IN PORT. THE R-2W IS THE PRIMARY PMS CHECK THAT IDENTIFIES LEADING INDICATORS OF DEGRADATION.

(1) TRACK THE RESULTS OF THE R-2W PMS CHECK USING THE ETP TRACKER. THE ETP TRACKER AND USER MANUAL SHALL BE DOWNLOADED AT <HTTPS://WWW.SURFOR.NAVY.MIL/SITES/CRUDES/SPY1>. A SELECT GROUP OF SHIPS WILL SUBMIT ETP TRACKER TO RESPECTIVE TYCOM FOR TREND ANALYSIS. SELECTED SHIPS WILL BE NOTIFIED SEPCOR.

(2) BASED ON THE RESULTS OF THE R-2W PMS CHECK AND ANALYSIS OF THE ETP TRACKER, TECHNICIANS MAY BE REQUIRED TO COMPLETE ONE OR MORE OF THE FOLLOW-ON CHECKS:

- MIP 4560/506 2W-1
 - MIP 4560/506 2W-2
 - MIP 4560/506 S-14
 - MIP 4560/506 S-16
 - MIP 4560/506 R-1
 - MIP 4560/504 R-9W (- R-9D WHEN UNDERWAY.)
- B. COMPILE AND RETAIN IN THE WORK CENTER THE RESULTS FROM THE FOLLOWING QUARTERLY PMS CHECKS. THE ETP TRACKER WILL PROVIDE A METHOD FOR ON BOARD TREND ANALYSIS.
- MIP 4560/506 2M-1: D/PD DECK VOLTAGE (TO BE ENTERED IN ETP TRACKER)
 - MIP 4560/504 M-1: AUTO ALIGN DUMP
 - ORTS TEST 1.12.5.1.17: SIGNAL PROCESSOR DIGITAL FAULT DETECTION TEST (FOR SPY B-B(V)-D APPLICABLE BASELINES ONLY)
 - ORTS TESTS 1.12.1.2.20, 1.12.2.2.20, 1.12.3.2.20, 1.12.4.2.20: ARRAYS 1-4 GAIN & SENSITIVITY TESTS (FOR SPY B-B(V)-D APPLICABLE BASELINES ONLY)

- ORTS TEST 1.12.5.3.35: MISSILE UPLINK (FOR SPY B-B(V)-D APPLICABLE BASELINES ONLY)

- ORTS TEST 1.12.5.1.13: MISSILE DOWNLINK (FOR SPY B-B(V)-D APPLICABLE BASELINES ONLY) E. PERFORM THE FOLLOWING TROUBLESHOOTING MAINTENANCE ACTIONS:

(1) FOR A LOW ETP IAW R-2W PMS CHECK PERFORM 2W-1, 2W-2, R-1, AND S-4.

(2) FOR ANY MISSILE COMMUNICATION ISSUES, PERFORM ONLY S-14 AND S-16. (FOR SPY VARIANT A-B-B(V)-D BASELINES ONLY)

(3) FOR RFM MONITORING ISSUES SUCH AS OVER DUTY OR LOW TP&P AFTER PERFORMING 2W-1, 2W-2, R-1, AND S4, PERFORM ONLY A-9, U-35, AND S-3. (FOR SPY VARIANT A-B-B(V)-D APPLICABLE BASELINES ONLY).

(4) THESE CHECKS ARE NOT A COMPLETE MRC TRANSMITTER GROOM BUT ALLOW FOR INCREASED ETP WITH LIMITED MAINTENANCE TIME.

5. REPORTS AND BRIEFINGS. REPORT SPY TRANSMITTER HEALTH TO THE COMMANDING OFFICER DAILY WHILE UNDERWAY AND WEEKLY IN PORT VIA EIGHT O'CLOCK REPORTS. REPORT SHALL CONSIST OF DIFFERENCES OR DEFICIENCIES PROVIDED BY OUTPUT FROM THE ETP TRACKER AND STATUS OF COOLING SKID AND DRY AIR SUPPORT EQUIPMENT. UNDERWAY, THE DAILY OPERATIONS AND INTELLIGENCE BRIEF SHALL INCLUDE THE DASHBOARD CHART AVAILABLE FOR DOWNLOAD ON THE SURFOR SPY-1 WEBSITE ADDRESSED IN PARA 4A(1). THESE REPORTS WILL HELP FOCUS ACTION TOWARDS RESTORING ALL REDUNDANCY AND INCREASE COMMAND SITUATIONAL AWARENESS OF SPY HEALTH. RECORDS LISTED IN PARA 4 WILL BE REVIEWED DURING SCHEDULED TYCOM ASSESSMENTS (TSRA, BMDRA AND TMI).

6. WORKLOAD. THE ADDITIONAL MAINTENANCE ADDS AN AVERAGE OF 16 EXTRA MAN-HOURS PER WEEK. ADDITIONAL HOURS WILL DIFFER BY BASELINE, ORTS CONFIGURATION, WORK CENTER MANNING, AND PROFICIENCY. SHIPS UNABLE TO COMPLETE THIS PROGRAM MUST REQUEST A MONTHLY WAIVER FROM TYCOM THROUGH THEIR ISIC.

7. THE SPY RADAR IS THE CORNERSTONE OF OUR FLEET'S AIR AND MISSILE DEFENSE. TIME AND FOCUS MUST BE INVESTED TO ENSURE PEAK PERFORMANCE AND WARFIGHTING READINESS. WE WILL MAINTAIN AN AEGIS WEAPONS SYSTEM AND SPY FOCUS THROUGH QUARTERLY WATERFRONT MEETINGS (SCHEDULED

SEPCOR) TO DISCUSS PROGRESS, TAKE FEEDBACK, AND REFINE THE PROCESS OF IMPROVING OUR SPY AND AEGIS PERFORMANCE.

8. HUNT AND THOMAS SEND.//

BT

#2403