

HARPOON ACTIVE (HANDLING DAMAGE)
 AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

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NOTE: OPEN problems denoted by asterisk (*) following problem number.

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PROBLEM NO: 13191

OPEN

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	AIR SURF ATCK AUR GM	1657AS0100-52	1410	01-255-6341	PD84
	AIR EXER TRNG AUR MSL	1657AS0100-69	1410	01-282-1265	PE41

EI CNTRL NO:

PROB BRIEF : RADOMES DAMAGED

PROBLEM : Surfaces on HARPOON missile radomes became scratched during deck
DESCRIPTION operations aboard aircraft carriers.

PREVENTIVE : None provided.
ACTION

CORRECTIVE : Personnel supervision is required during crowded deck operations.
ACTION Strict attention to details is needed while missiles are being transferred from deck to deck aboard aircraft carriers. Manufactured covers must be utilized during handling evolutions.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAS WHIDBEY IS	CODR	N00620-00-0001	05JUN00	CLOSED
	NSF DIEGO GARCIA	CODR	N68539-99-0003	22OCT99	OPEN
	USS KENNEDY (CVN-67)	CODR	V03367-96-0004	01DEC96	CLOSED *
	VS-31	EMR	V09572-91-0040	18DEC91	CLOSED *
	USS ROOSEVELT (CVN-71)	EMR	V21247-89-0003	25JAN89	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : NAS WHIDBEY IS CODR N00620-00-0001 05JUN00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 085238			
FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 085238			

DESCRIPTION:

050925ZJUN00: On 02 June 2000, NAS Whidbey IS WA reports that during weapons decanning evolution, HARPOON Air Launch, PD84, AGM-84D-1 missile S/N 085238 was found with a rejectable gouge in the missile's radome unit. The gouge was found on the lower starboard section of the missile's radome structure. The gouge was about 1/16 inch deep, 1/4 inch long and about 2 1/2 inches from the base. Scratches also found forward of the screw head of radome to gouge.

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ACTION TAKEN:

070029ZJUN00: NAWC Pt. Mugu provided the following missile disposition instructions. Deficient radome unit to be shipped to NAWC Pt. Mugu in care of HARPOON logistics manager. A quality investigation will be accomplished upon receipt of asset at Pt. Mugu. Upon conclusion of damage assessment unit will be disposition for repairs.

30OCT00: NAWC Pt. Mugu was informed that a Fleet Weapon Support Team member did receive replacement radome unit on 3 June 2000 and successfully restored missile S/N 085238 to serviceable condition. Action assignment was completed. No further action required. This action closes this deficiency report.

ACTION SUMMARY	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
		NAWC PT MUGU/313100E	CONDUCT DAMAGE ASSESSMENT	30OCT00	COMPLETE

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		NAS WHIDBEY IS MESSAGE 050925ZJUN00	PROBLEM REPORT
		NAWC PT MUGU/313100E MESSAGE 070029ZJUN00	INTERIM RESPONSE
		NAWC PT MUGU/313100E COMMENT 30OCT00	MISSILE RFI'D/CLOSURE

ACTION	:	NSF DIEGO GARCIA	CODR	N68539-99-0003	22OCT99	OPEN	
		END ITEM	:	PART/DOC. NO.	FSC	NIIN	NALC
				1657AS0100-52	1410	01-255-6341	PD84
				NOMEN: AIR SURF ATCK AUR GM			
				S/N: 085013			
		FAILED PART:		1657AS0100-52	1410	01-255-6341	PD84
				NOMEN: AIR SURF ATCK AUR GM			
				S/N: 085013			

DESCRIPTION:

220019ZOCT99: NSF Diego Garcia reported that on 22 October 1999, inspection of PD84, HARPOON missile S/N 085737, the unit radome deficiency was found. The metal tip attached to the front of radome was not totally flush with the radome. Further inspection revealed metal tip to be loose. There is no evidence of external damage. Note, Point of contact at Diego Garcia via E-mail of 25 January 2000 informed NAWC Pt. Mugu that the correct serial number of missile in question to be S/N 085013.

ACTION TAKEN:

260129ZOCT99: NAWC Pt. Mugu provided NSF Diego Garcia with disposition instruction for missile S/N 085737 (sic).

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PROBLEM NO: 13191

(Continued)

270019ZJAN00: NSF Diego Garcia informed NAWC Pt. Mugu that submitted deficiency report should have read missile S/N 085013 vice S/N 085737. Documentation to be changed accordingly.

25AUG00: In accordance with AWARS SLITS data and as of 18 July 2000, missile is enroute to Naval Station Port Hadlock WA. Missile remains to be in condition code "J". Missile shipment to AOC Yorktown is being monitored by NAWC Pt. Mugu.

30MAR01: AWARS SLITS database as of 14 December 2000, it is showing information that missile S/N 085013 was in receipt at AOC Yorktown in condition code "J". No other data available.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET YORKTOWN/323000E	MONITOR MSL 085013 SHIPMENT		COMPLETE 25AUG00
	NAWC PT MUGU/313100E	MONITOR MSL 085013 SHIPMENT		COMPLETE 30MAR01
	NAWC PT MUGU/313100E	MONITOR MSL 085013 STATUS	16DEC01	OPEN
	NSF DIEGO GARCIA	PROVIDE STATUS OF MSL 085737		COMPLETE 27JAN00

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	NSF DIEGO GARCIA MESSAGE 220019ZOCT99	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 260129ZOCT99	INTERIM RESPONSE
	NSF DIEGO GARCIA MESSAGE 270019ZJAN00	MSL S/N CHANGE
	NAWC PT MUGU/313100E AWARS SLITS 25AUG00	MSL ENROUTE TO AOC YORKTOWN
	NAWC PT MUGU/313100E AWARS SLITS 30MAR01	MSL RECEIPT STATUS

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PROBLEM NO: 13472

OPEN

END ITEM	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
:	AIR SURF ATCK AUR GM	1657AS0100-50	1410	01-258-0443	PD84
	AIR SURF ATCK AUR GM	1657AS0100-52	1410	01-255-6341	PD84
	WING ASSEMBLY (AIR/ASROC)	1657AS0118-2	1420	01-269-1649	PT49
	ASROC SURF ATCK AUR GM	1657AS0200-26	1410	01-262-9154	PE17
	MISSILE BODY, TACTICAL	1657AS0500-52	1410	01-260-5336	3W99
	STANDOFF LAND ATCK AUR, GM	1943AS0100-4	1410	01-283-4765	
	WING ASSEMBLY, TRAINER	543-174-0279	9999	99-999-9999	

EI CNTRL NO:

PROB BRIEF : WING ASSEMBLY DAMAGES

PROBLEM DESCRIPTION : Wing assembly parts and/or components found damaged. Suspect misuse of some pieces of handling equipment and/or improper maintenance actions.

PREVENTIVE ACTION : Due to a variety of circumstances surrounding the reported mishaps and to the different specific causative factors contributing to the incidents, no preventive action can be prescribed. Deficiency reports will be handled on a case by case basis.

CORRECTIVE ACTION : Increase the care in handling and storing of wing assemblies.

OCCURRENCES:	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	USS MOUNT BAKER (AE-34)	CODR	V20115-01-0023	24JUL01	OPEN
	VS-31	CODR/EIR	V09572-98-0025	10AUG98	OPEN
	VS-31	CODR/EIR	V09572-98-0026	10AUG98	OPEN
	VP-10	CODR	V09639-94-0034	19DEC94	CLOSED *
	VS-31	EMR	V09572-91-0035	06NOV91	CLOSED *
	VS-31	EMR	V09572-91-0030	16OCT91	CLOSED *
	USS EISENHOWER (CVN-69)	PQDR I	V03369-91-0027	13OCT91	CLOSED *
	VA-34	EMR	V09070-91-0063	13OCT91	CLOSED *
	VP-5	EMR	V09630-89-0016	23JUN89	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : USS MOUNT BAKER CODR V20115-01-0023 24JUL01 OPEN (AE-34)

END ITEM	PART/DOC. NO.	FSC	NIIN	NALC
:	1657AS0118-2	1420	01-269-1649	PT49
	NOMEN: WING ASSEMBLY (AIR/ASROC)			
	S/N: 117334, 147060			

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PROBLEM NO: 13472

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	PART/DOC. NO.	FSC	NIIN	NALC
FAILED PART:	1657AS0118-2	1420	01-269-1649	PT49
	NOMEN: WING ASSEMBLY (AIR/ASROC)			
	S/N: 117334, 147060			

DESCRIPTION:

240020ZJUL01: USNS Mount Baker (AE-34) reported that on 23 July 2001 during vertical replenishment operations with USS John F Kennedy, two HARPOON PT49 wing assemblies were damaged. Simultaneously the ships were conducting other operations involving a CH-46. A CH-46 approached USNS Mount Baker to fast and to low causing the CH-46 starboard wing wheel to collide into a pallet of NALC EY71s. The pallet fell on top of the cardboard box which contained the two HARPOON PT49 wings. The box was crushed damaging the wings. Wings were placed in condition code "J" pending disposition instructions.

ACTION TAKEN:

250329ZJUL01: NAWC Pt. Mugu acknowledged receipt of deficiency report. Requested damaged wings, S/Ns 117334 and 147060 be packaged and shipped to The Boeing Company.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC BOEING ST LOUIS/RDOBA	PROVIDE WINGS RECEIPT DATE	29OCT01	OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	USS MOUNT BAKER (AE-34) MESSAGE 240020ZJUL01	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 250329ZJUL01	INTERIM RESPONSE

ACTION :	VS-31	CODR/EIR V09572-98-0025	10AUG98	OPEN
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	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 065209			
FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 065209			

DESCRIPTION:

102130ZAUG98: VS-31 reported while aboard USS John C. Stennis (CVN-74) on 04 August 1998, the Pre-Sentencing Inspection conducted on AGM-84D-1, PD84, HARPOON air launch missile, S/N 065209, chipped paint was found on or near the wing mounting assembly. Inspection team suspected large amount of missing paint was due to the use and wear caused by the Arming Weapons Support Equipment of the HLK-275 band with HLK-225/226 trolley adapters.

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PROBLEM NO: 13472

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ACTION TAKEN:

140029ZAUG98: NAWC Pt. Mugu provided VS-31 with the following missile disposition instruction. Requested missile S/N 065209 be off loaded at the earliest opportunity and shipped to WSF Yorktown. Upon receipt at AOC Yorktown damages are to be evaluated and findings be submitted to NAWC Pt. Mugu.

30NOV99: CAIMS data show missile issued/shipped to AOC Yorktown via USS Mount Hood (AE-29) on 15 August 1998 under Document number V21847-8227-1113.

03APR00: NAWC Det Yorktown HARPOON fleet returned missile status report of 03 April 2000, it informed NAWC Pt. Mugu that missile S/N 065209 was received at Yorktown on 16 February 2000 in condition code "J". Missile currently awaiting induction for damage assessment, test and repairs. CAIMS concur with missile being at AOC Yorktown on 16 February 2000.

30MAR01: NAWC Pt. Mugu in review of HARPOON AWARS data it was concluded that as of 14 December 2000, fleet returned missile S/N 065209 remains in condition code "J" at AOC Yortown. No other details available.

ACTION SUMMARY	: ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET YORKTOWN/323000E	PROVIDE MSL 0650209 TEST SCHEDULE		CANCELED
	NAWC DET YORKTOWN/323000E	MONITOR MSL S/N 065209 RECEIPT		COMPLETE 16FEB00
	NAWC PT MUGU/313100E	MONITOR MSL 065209 STATUS	17DEC01	OPEN

REFERENCES	: IDENTIFICATION	REFERENCE BRIEF
	VS-31 MESSAGE 102130ZAUG98	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 140029ZAUG98	INTERIM RESPONSE
	NAWC PT MUGU/313100E CAIMS DATABASE 30NOV99	MSL IN ROUTE TO YORKTOWN
	NAWC DET YORKTOWN/323000E STATUS RPT 08APR00	MSL ARRIVED YORKTOWN
	NAWC PT MUGU/313100E AWARS 30MAR01	MSL STATUS

**HARPOON ACTIVE (HANDLING DAMAGE)
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PROBLEM NO: 13472 (Continued)

ACTION : VS-31 CODR/EIR V09572-98-0026 10AUG98 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 002059			
FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
	NOMEN: AIR SURF ATCK AUR GM			
	S/N: 002059			

DESCRIPTION:

102030ZAUG98: VS-31 reported that on 04 August 1998 during the Pre-Sentencing Inspection of AGM-84D-1, PD84, HARPOON Air Launch Missile S/N 002059, chipped paint was found on missile's wing mounting assembly. Large amounts of paint was found missing near the wing mounting assembly area. Inspection team suspect damage was due the use of the HLK-275 band and the HLK-225/226 trolley adapters.

ACTION TAKEN:

140029ZAUG98: NAWC Pt. Mugu provided VS-31 with the following missile disposition instructions. Pt. Mugu request missile S/N 002059 be off loaded at the earliest possible opportunity and shipped to WSF Yorktown for evaluation and repairs.

09APR99: NAWC Det Yorktown informed NAWC Pt. Mugu that on 16 February 1999 PD84 missile S/N 002059 arrived at AOC Yorktown and in storage to await maintenance induction.

04AUG00: NAWC Det Yorktown Status report of 04 August 2000 informed NAWC Pt. Mugu that fleet returned BIT failed missile S/N 002059 remains in storage at AOC Yorktown and had not yet been inducted. Unit remains in condition code "J".

30MAR01: NAWC Pt. Mugu in review of HARPOON AWARS data it was concluded that as of 14 December 2000, fleet returned missile S/N 002059 remains in condition code "J" at AOC Yortown. No other details available.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET YORKTOWN/323000E	MONITOR MSL 002059 AURT		CANCELED
	NAWC DET YORKTOWN/323000E	MONITOR MSL S/N 002059 RECEIPT		COMPLETE 09APR99
	NAWC PT MUGU/313100E	MONITOR MSL S/N 002059 AURT		COMPLETE 01JUN99
	NAWC PT MUGU/313100E	FOLLOWUP ON MSL 002059 TEST RESULTS		COMPLETE 23AUG00
	NAWC PT MUGU/313100E	MONITOR MSL STATUS	17DEC01	OPEN

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PROBLEM NO: 13472

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REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	VS-31 MESSAGE 102030ZAUG98	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 140029ZAUG98	INTERIM RESPONSE
	NAWC DET YORKTOWN/323000E STATUS REPORT 09APR99	YORKTOWN IN RECEIPT OF MSL S/N 002059
	NAWC DET YORKTOWN/323000E STATUS REPORT 04AUG00	MSL PROCESSING STATUS
	NAWC PT MUGU/313100E AWARS 30MAR01	MSL STATUS

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HARPOON ACTIVE (HANDLING DAMAGE)
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PROBLEM NO: 14345

OPEN

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	WING ASSEMBLY (AIR/ASROC)	1657AS0118-2	1420	01-269-1649	PT49
	TARTAR SURF ATCK AUR GM	1657AS0400-30	1410	01-263-2912	PE14
	AIR SURF ATCK AUR GM	642AS0117-1	1410	01-253-0224	PB01

EI CNTRL NO:

PROB BRIEF : FIN ASSEMBLIES FOUND DAMAGED

PROBLEM : Fin assembly parts and/or components were found damaged. Suspect the
DESCRIPTION misuse of some pieces of handling equipment and/or improper maintenance actions.

PREVENTIVE : Due to a variety of circumstances surrounding the mishaps and the
ACTION different specific causative factors contributing to the incidents, no preventive action can be prescribed. Each deficiency report to be handled on a case by case basis.

CORRECTIVE : Return fin assemblies to the weapons station for
ACTION repairs/replacement. Corrective action will be handled on a case by case basis.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS	
OCCURRENCES:	USS ENTERPRISE (CVN-65)	CODR	R03365-98-0017	03DEC98	CLOSED	*
	USS SIDES (FFG-14)	CODR	R20967-98-0001	01OCT98	CLOSED	*
	USS RENTZ (FFG-46)	CODR	R21198-98-0001	11FEB98	OPEN	
	VS-31	EMR	V09572-90-0058	29AUG90	CLOSED	*

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : USS RENTZ (FFG-46) CODR R21198-98-0001 11FEB98 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0400-30	1410	01-263-2912	PE14
	NOMEN: TARTAR SURF ATCK AUR GM			
	S/N: L1193, L1193			
FAILED PART:	1657AS0505-5	1420	01-269-6469	
	NOMEN: GUIDANCE SECTION, GM			
	S/N: 035010, GQN-0721			

DESCRIPTION:

090429ZFEB98: NAWC Pt. Mugu advised that NAWC Det Fallbrook representative assisted USS Rentz and Weapons Station personnel with the off-load of HARPOON missiles. Missile S/N L1193 deficiency was found during off-load operations. Ship's ordnance officer confirmed a deficiency report will be submitted.

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PROBLEM NO: 14345

(Continued)

112000ZFEB98: USS Rentz (CG-46) reported that after HARPOON missile S/N L1193 was off loaded and placed in a container, a one inch long by one half inch wide scratch was found on one of the missile's fin. The inspector also found some corrosion/rust on some of sections mating screws. Ship's personnel concluded that the corroded/rusty screws were the result of deployment environmental conditions (i.e. salt water) and general corrosion which naturally occurs over time. Suspect scratch on fin happened during missile off-load operations.

ACTION TAKEN:

200400ZFEB98: NSWC Port Hueneme advises that USS Jarrett reported two PE14 missiles having similar corrosion problems and a third PE14 which had a scratched redome. Also, May 1997 NAWCWPNS Det Seal Beach reported two additional grade B canisters with corrosion around bolts and overall missile surface.

240129ZFEB98: NAWC Pt. Mugu informed NWS Seal Beach to have missile shipped to NWS Yorktown at the earliest possible opportunity. Upon receipt at NWS Yorktown, an incoming visual inspection is to be conducted and an All-up Round test is to be performed. Results will be provided to NAWCWPNS Det Yorktown.

01DEC98: NAWC Det Yorktown action status report informed NAWC Pt. Mugu that missile S/N L1193 was in receipt at AOC Yorktown on 2 November 1998. Unit had not been inducted for evaluation and test. Missile remains in condition code "F".

01JUN99: NAWC Det Yorktown action status report informed NAWC Pt. Mugu that missile S/N L1193 was inducted for processing on 7 April 1999. No other details provided.

24JUN99: NAWC Pt. Mugu upon reviewing HARPOON AWARS database maintenance data system it was concluded that failed missile S/N L1193 passed oncoming visual inspection on 12 April 1999. Also, it failed the following all-up-round MSTs incoming test parameters:
5130 - Missile Pyro Test
10 - Bleed Air Valve No. 1 - PCode - 1103
5355 - Reacquisition
19 -Time From Initiate to Lock-on - PCode -3289
22 - Lock-on - PCode -3292
Failing the above stated parameters, guidance section S/N 035010 and sustainer section S/N GQN-0721 were removed. Sections currently held over at for section level testing.

30AUG00: Follow up on maintenance data it was concluded that on 15 April 1999 both removed sections were section level tested. Sustainer S/N GQN-0721 failed 7830 and measurement number 12. Guide S/N 035010 failed 6855 measurement numbers 19 and 22. According to

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PROBLEM NO: 14345

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NAWC Det Yorktown, as of 22 May 2000, defective guide 035010 is still in receipt at AOC Yorktown.

30OCT00: AWARS database SLITS information as of 26 September 2000, defective guidance section S/N 035010 remains in storage at AOC Yorktown.

02JAN01: AWARS data is still showing defective guide S/N 035010 to be in storage at AOC Yorktown. No details available. Defective sustainer section GQN-0721, as of 09 November 2000, is storage at The Boeing Company.

ACTION SUMMARY	: ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET YORKTOWN/323000E	PROVIDE MSL S/N L1193 RECEIPT INFO		COMPLETE 01DEC98
	NAWC DET YORKTOWN/323000E	PROVIDE MSL S/N L1193 EVAL RESULTS		COMPLETE 24JUN99
	NAWC DET YORKTOWN/323000E	FAULTY G/S 035010 STATUS		COMPLETE 30OCT00
	NAWC DET YORKTOWN/323000E	FAULTY S/S GQN-0721 STATUS		COMPLETE 02JAN01
	NAWC PT MUGU/313100E	MONITOR MSL L1193 DEPOT RECEIPT		CANCELED
	NAWC PT MUGU/313100E	MONITOR S/S GQN-0721 STATUS	28OCT01	OPEN

REFERENCES	: IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/313100E MESSAGE 090429ZFEB98	CODR REQUEST
	USS RENTZ (FFG-46) MESSAGE 112000ZFEB98	PROBLEM REPORT
	NSWC PORT HUENEME MESSAGE 200400ZFEB98	CORROSION /DAMAGE REPORT
	NAWC PT MUGU/313100E MESSAGE 240129ZFEB98	INTERIM RESPONSE
	NAWC PT MUGU/313100E EMAIL REPORT 01DEC98	MISSILE INDUCTION STATUS
	NAWC PT MUGU/313100E EMAIL REPORT 01JUN99	MISSILE PROCESSING STATUS
	NAWC PT MUGU/313100E AWARS 24JUN99	MSL AURT RESULTS
	NAWC PT MUGU/313100E COMMENTS 30AUG00	SECTION TEST INFO
	NAWC PT MUGU/313100E AWARS 30OCT00	GUIDE STATUS
	NAWC PT MUGU/313100E AWARS 02JAN01	GUIDE/SUST STATUS

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HARPOON ACTIVE (HANDLING DAMAGE)
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PROBLEM NO: 14483

OPEN

END ITEM	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
	AIR SURF ATCK AUR GM	1657AS0100-52	1410	01-255-6341	PD84
	TARTAR SURF ATCK AUR GM	1657AS0400-30	1410	01-263-2912	PE14
	MISSILE BODY, TACTICAL	1657AS0500-52	1410	01-260-5336	3W99

EI CNTRL NO:

PROB BRIEF : MISSILE /SECTION SURFACE DAMAGES

PROBLEM DESCRIPTION : Handling operations causing wear and tear on the missile and section surfaces.

PREVENTIVE ACTION : None provided.

CORRECTIVE ACTION : Operators were encouraged to exercise proper processing methods during during operations.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC PT MUGU/2022	PROVIDE PROBLEM CLOSURE RATIONALE		COMPLETE 10JUN92

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/2022 LTR 8800 SER K-982 10JUN92	JUSTIFICATION FOR PROBLEM CLOSURE

OCCURRENCES	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	VP-47	CODR	R09600-01-0006	22APR01	OPEN
	VP-47	CODR	R09600-01-0008	22APR01	OPEN
	VS-22	CODR	V09287-01-0002	16JAN01	OPEN
	VP-45	CODR	V09665-00-0019	26SEP00	OPEN
	USS MCCLUSKY (FFG-41)	CODR	R21108-99-0002A	23JUL99	CLOSED

ACTION : VP-47 CODR R09600-01-0006 22APR01 OPEN

END ITEM	PART/DOC. NO.	FSC	NIIN	NALC
	1657AS0100-52	1410	01-255-6341	PD84
NOMEN: AIR SURF ATCK AUR GM				
S/N: 085771				
FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
NOMEN: AIR SURF ATCK AUR GM				
S/N: 085771				

DESCRIPTION:

221700ZAPR01: VP-47 reported that during missile inspection, after using HARPOON, AGM-84D-1 air launch missile S/N 085771 for multiple missions, major surface wear was discovered. Wear down to the metal.

**HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 14483

(Continued)

The wear markings were located in the area where the hoisting bands and the HLK-225/HLK-226A trolleys continuously come in contact with weapon upon missile load and down load operations.

ACTION TAKEN:

250529ZAPR01: NAWC Pt. Mugu acknowledged receipt of missile deficiency report. It requested that missile S/N 085771 be packaged for shipment to AOC Yorktown at the earliest opportunity. Wear is to be assessed and repairs made where appropriate.

30AUG01: AWARS SLITS database is showing that as of 8 May 2001 missile S/N 085771 is in receipt at Diego Garcia in condition code "J".

ACTION SUMMARY	: ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC PT MUGU/313100E	MONITOR MSL 085771 RECEIPT		COMPLETE 30AUG01
	NAWC PT MUGU/313100E	MONITOR MSL 085771 STATUS	14DEC01	OPEN

REFERENCES	: IDENTIFICATION	REFERENCE BRIEF
	VP-47 MESSAGE 221700ZAPR01	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 250529ZAPR01	INTERIM RESPONSE
	NAWC PT MUGU/313100E AWARS 30AUG01	MSL STATUS

ACTION	: VP-47	CODR	R09600-01-0008	22APR01	OPEN
	END ITEM	PART/DOC. NO.	FSC	NIIN	NALC
	:	1657AS0100-52	1410	01-255-6341	PD84
		NOMEN: AIR SURF ATCK AUR GM			
		S/N: 085864			
	FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
		NOMEN: AIR SURF ATCK AUR GM			
		S/N: 085864			

DESCRIPTION:

221702ZAPR01: VP-47 reported that on 20 April 2001 during missile inspection, after using HARPOON, AGM-84D-1 air launch missile S/N 085864 for multiple missions, major surface wear was discovered. Wear down to the metal. The wear markings were located in the area where the hoisting bands and the HLK-225/HLK-226A trolleys continuously come in contact with weapon upon missile load and down load operations.

ACTION TAKEN:

250529ZAPR01: NAWC Pt. Mugu acknowledged receipt of missile deficiency report. It requested that missile S/N 085864 be packaged

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 14483

(Continued)

for shipment to AOC Yorktown at the earliest opportunity. Wear is to be assessed and repairs made where appropriate.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC PT MUGU/313100E	MONITOR MSL 085864	29JUL01	OPEN
		RECEIPT		

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	VP-47 MESSAGE 221702ZAPR01	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE	INTERIM RESPONSE
	250529ZAPR01	

ACTION :	VS-22	CODR	V09287-01-0002	16JAN01	OPEN
	END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
		1657AS0100-52	1410	01-255-6341	PD84
		NOMEN: AIR SURF ATCK AUR GM			
		S/N: 065243			
	FAILED PART:	1657AS0100-52	1410	01-255-6341	PD84
		NOMEN: AIR SURF ATCK AUR GM			
		S/N: 065243			

DESCRIPTION:

161954ZJAN01: VS-22 aboard USS Harry S Truman (CVN-75) reported that AGM-84D-1, HARPOON missile S/N 065243 was damaged during up load operations. Using the HLU-196/E Hoist, the missile sustainer section came in contact with the aircraft umbilical cable cannon plug. Contact was six inches forward of the missile umbilical connector, gouging into the aluminum plate. Aircraft umbilical cable was positioned inside the pylon door connected to the bail rod. Missile was returned into CVN-75 weapon's department.

ACTION TAKEN:

170329ZJAN01: NAWC Pt. Mugu acknowledged receipt of reported missile deficiency regarding missile S/N 065243 and requested USS Harry S Truman (CVN-75) to have missile returned to AOC Yorktown for test and repairs.

30AUG01: AWARS SLITS data is showing that AOC Yorktown took receipt of defective missile S/N 065243 on 22 June 2001. Missile remains to be in condition code J and storage pending maintenance induction.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC DET	MONITOR MSL S/N		COMPLETE 30AUG01
	YORKTOWN/323000E	065243 RECEIPT		
	NAWC PT MUGU/313100E	MONITOR MSL 065243	21DEC01	OPEN

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 14483 (Continued)

ACTION : USS MCCLUSKY CODR R21108-99-0002A 23JUL99 CLOSED |
(FFG-41)

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0400-30	1410	01-263-2912	PE14
	NOMEN: TARTAR SURF ATCK AUR GM			
	S/N: L1300			
FAILED PART:	1657AS0400-30	1410	01-263-2912	PE14
	NOMEN: TARTAR SURF ATCK AUR GM			
	S/N: L1300			

DESCRIPTION:

231655ZJUL99: USS McClusky (FFG-41) reported that while in port at WSF Seal Beach, during off load inspection of PE14, HARPOON missile S/N L1300, two surface indentations were found on the missile guidance section just aft of the radome. The indentations were approximately one inch square, one millimeter deep, sloping upward, forward to aft and flush with the weapon's skin.

ACTION TAKEN:

280029ZJUL99: NAWC Pt. Mugu acknowledged receipt of deficiency report regarding missile S/N L1300. Missile to be packaged and shipped to AOC Yorktown.

30MAY00: AWARS data show missile S/N L1300 passed a missile incoming test. As of 30 May 2000, missile remains in the maintenance cycle at AOC Yorktown.

04AUG00: NAWC Det Yorktown monthly status report informs Pt. Mugu that in reference missile S/N L1300, control section S/N GQN-1325 required repairs. Missile remains in maintenance cycle at Yorktown.

30OCT00: AWARS maintenance data sheet in reference to testing of defective missile S/NL1300 was initiated on 03 January 2000, and missile passed fleet returned incoming test with no failures identified. Missile was returned to condition code A ready for issue status on 10 January 2000.

24OCT01: NAWC Pt. Mugu reviewed maintenance and test data regarding HARPOON missile S/N L1300, there was no reference to control section needing repairs. Missile passed incoming test, as was stated above. Information that was provided regarding control section S/N GQN-1325, was provided in error. Missile was returned to condition code "A" on 10 January 2000. No further action required. This action closes this deficiency report.

ACTION SUMMARY	: ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET	MONITOR CONT GQN-1325		CANCELED
	YORKTOWN/323000E	STATUS		

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 14483

(Continued)

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC DET	MONITOR MSL L1300		COMPLETE 30MAY00
		YORKTOWN/323000E	RECEIPT		
		NAWC PT MUGU/313100E	MONITOR MSL L1300		COMPLETE 24OCT01
			STATUS		

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		USS MCCLUSKY (FFG-41) MESSAGE	PROBLEM REPORT
		231655ZJUL99	
		NAWC PT MUGU/313100E MESSAGE	INTERIM RESPONSE
		280029ZJUL99	
		NAWC PT MUGU/313100E AWARS 30MAY00	MSL IN MAINTENANCE
		NAWC DET YORKTOWN/323000E STATUS	CONT SECTION STATUS
		REPORT 01AUG00	
		NAWC PT MUGU/313100E AWARS 30OCT00	MSL TESTED/RFI'D
		NAWC PT MUGU/313100E AWARS 24OCT01	CLOSURE

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16107 CLOSED

END ITEM	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
:	AIR SURF ATCK AUR GM	1657AS0100-52	1410	01-255-6341	PD84
	TARTAR SURF ATCK AUR GM	1657AS0400-30	1410	01-263-2912	PE14
	MISSILE BODY, TACTICAL	1657AS0500-52	1410	01-260-5336	3W99

EI CNTRL NO:

PROB BRIEF : MISSILES DROPPED DURING HANDLING

PROBLEM : Missiles dropped and damaged during shopboard handling operations.
DESCRIPTION

PREVENTIVE : Preventive action to be determined.
ACTION

CORRECTIVE : Corrective action to be determined. These types of problems must be
ACTION handled on a case by caes basis.

OCCURRENCES:	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	USS TAYLOR (FFG-50)	CODR	V21231-00-0001	27JUN00	CLOSED
	USNS FLINT (TAE-32)	CODR	R20113-97-0004	01OCT97	CLOSED *
	NWS YORKTOWN	CODR	N00109-96-0006	12AUG96	CLOSED *
	USS KENNEDY (CVN-67)	CODR	V03367-96-0001	12JUN96	CLOSED *
	VFA-136	CODR	V55141-95-0028	05OCT95	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : USS TAYLOR (FFG-50) CODR V21231-00-0001 27JUN00 CLOSED

END ITEM	PART/DOC. NO.	FSC	NIIN	NALC
:	1657AS0400-30	1410	01-263-2912	PE14
	NOMEN: TARTAR SURF ATCK AUR GM			
	S/N: 001602			
FAILED PART:	1657AS0400-30	1410	01-263-2912	PE14
	NOMEN: TARTAR SURF ATCK AUR GM			
	S/N: 001602			

DESCRIPTION:

271816ZJUN00: USS Taylor (FFG-50) reported that while moored at AOC Yorktown, HARPOON PE14 TARTAR missile S/N 001606 became damaged. Missile damage occurred during missile off load operations. It happen when the launcher strikedown assembly chain pawl latch arms disengaged from the forward missile guide. There was an uncontrolled 15 to 20 feet slide of the HARPOON down the launcher arm, through the Mk 6 Mod 0 missile handling dolly and fell about 20 feet vertically to the foc'sle deck.

**HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16107

(Continued) |

ACTION TAKEN:

060229ZJUL00: NAWC Pt. Mugu informed USS Taylor (FFG-50) of deficiency report receipt. Requested AOC Yorktown induct missile S/N 001602 into maintenance at the earliest opportunity. Conduct a detailed damage assessment and submit findings to all concern.

032209ZAUG00: USS Taylor (FFG-50) provided the following supplemental report. A thorough examination of all available evidence could not substantiate a specific explanation for this incident. Primary cause determined to be incomplete engagement between the strikedown assembly latch arm and the HARPOON forward shoe. There seems to be a lack of conclusive proof that either material failed or personnel error instigated the mishap. Unable to rule out personnel error due to lack of evidence corroborating the assertion that the handler successfully completed the latch arm-forward shoe engagement. This procedure was conducted in accordance with Maintenance Requirements Card instructions (7211/002 R-10, Step 1). Also, unable to rule out material failure due to inability to discover any specific problems in equipment involved in evolution. FTSC/LANT technicians who performed post-incident inspection on strike down assembly discovered that the latch arm pivot pins were at upper limit of acceptable tolerance. However, they determined all gears to be in satisfactory condition. Cause of mishap: Believe the strike down chain latch arms were not fully engaged with the forward missile shoe prior to aft motion latch retraction. It was recommended that a specific statement be added to Maintenance Requirements Card procedures, that requires two personnel to verify both indications of complete latch arm and missile shoe engagement.

17OCT00: NSWC Indian Head Division, Det Yorktown had been tasked to investigate the reported dropped missile. In conclusion of this investigation, this incident considered to be an isolated handling equipment mishap. Likely due to personnel error (incomplete latch arm and the forward shoe engagement). It was recommended that fleet personnel be trained and reminded of the proper handling and dangers associated with handling tactical missiles. Maintenance Requirements Card be changed to include verification of complete latch arm engagement by a second person.

29JAN01: NAWC Det Yorktown informed NAWC Pt. Mugu that missile S/N 001602 still at AOC Yorktown in condition code J. Based on the fact that missile was dropped more than 10 feet, it is scheduled for disposal.

30JUN01: AWARS data as of 13 April 2001 is showing defective missile S/N 001602 still in receipt at AOC Yorktown in condition code "J".

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16107

(Continued)

24OCT01: NAWC Pt. Mugu concurs with AOC Yorktown's action in having missile placed for disposal. No further action is warranted. This action closes this deficiency report.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC DET	MONITOR MSL 001602		COMPLETE 29JAN01
		YORKTOWN/323000E	ASSESSTMENT		
		NAWC PT MUGU/313100E	PROVIDE CLOSURE		COMPLETE 24OCT01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		USS TAYLOR (FFG-50) MESSAGE 271816ZJUN00	PROBLEM REPORT
		NAWC PT MUGU/313100E MESSAGE 060229ZJUL00	INTERIM RESPONSE
		USS TAYLOR (FFG-50) MESSAGE 032209ZAUG00	CODR SUPPLEMENTAL
		NSWC INDIAN HEAD LETTER REPORT 17OCT00	NSWCIHDIV DET YORKTOWN IE REPORT
		NAWC DET YORKTOWN/323000E E-MAIL 29JAN01	MSL FOR DISPOSAL
		NAWC PT MUGU/313100E AWARS 30JUN01	FOLLOWUP
		NAWC PT MUGU/313100E E-MAIL 24OCT01	DR CLOSURE

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16420

OPEN

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	CANISTER SHK RES SURF ATCK AUR GM	1657AS0302-30	1410	01-263-2928	PE25
	CANISTER SHK RES SURF ATCK AUR GM	1657AS0302-38	1410	01-263-2932	PE24

EI CNTRL NO:

PROB BRIEF : CABLE ASSEMBLY DAMAGED (CANISTER)

PROBLEM : Sheared connector alignment key caused canister interface pins to
DESCRIPTION break

PREVENTIVE : To be determined.
ACTION

CORRECTIVE : To be determined upon conclusion of investigation.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	USS MONTEREY (CG-61)	CODR	V21450-99-0001	25AUG99	OPEN
	USS NICHOLSON (DD-982)	CODR	R20614-97-0001A	08APR98	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : USS MONTEREY (CG-61) CODR V21450-99-0001 25AUG99 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1657AS0302-38	1410	01-263-2932	PE24
	NOMEN: CANISTER SHK RES SURF ATCK AUR GM			
	S/N: L1196			
FAILED PART:	1657AS0302-38	1410	01-263-2932	PE24
	NOMEN: CANISTER SHK RES SURF ATCK AUR GM			
	S/N: L1196			

DESCRIPTION:

251803ZAUG99: USS Monterey (CG-61) reported that during system readiness review, in accordance with MARPOON Maintenance Requirements Card 4821 A-1R, HARPOON control connector became damaged as control cable was being disconnected. Cable on canister of PE24, HARPOON missile S/N L1196 could not be loosen by hand. Ship's HARPOON technician used rubber matting around the connector and with pliers disconnected the cable. The guide pin on the control connector sheared off during the disconnect process. Ship's force commented that there is no specific guidance for cable removal on maintenance requirements card.

**HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16420

(Continued)

ACTION TAKEN:

010829ZSEP99: NAWC Pt. Mugu acknowledged receipt of reported CODR. AOC Yorktown was requested to conduct an assessment of cable damage in reference to corrosion analysis.

25AUG00: AWARS SLITS data as of 20 March 2000, is showing missile S/N L1196 in receipt at AOC Yorktown. Missile in condition code "F" and awaiting to be inducted.

30MAY01: AWARS SLITS data as of 16 February 2001, is showing missile S/N L1196 at AOC Yorktown in condition code "F".

ACTION SUMMARY	: ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	NAWC DET	MONITOR MSL L1196		CANCELED
	YORKTOWN/323000E	INDUCTION		
	NAWC DET	MONITOR MSL L1196		COMPLETE 25AUG00
	YORKTOWN/323000E	CABLE ASSEMBLY		
	NAWC PT MUGU/313100E	MONITOR MSL L1196	28AUG01	OPEN
		STAUS		

REFERENCES	: IDENTIFICATION	REFERENCE BRIEF
	USS MONTEREY (CG-61) MESSAGE 251803ZAUG99	PROBLEM REPORT
	NAWC PT MUGU/313100E MESSAGE 010829ZSEP99	INTERIM RESPONSE
	NAWC PT MUGU/313100E AWARS SLITS DATA 25AUG00	MSL RECIPT STATEMENT
	NAWC PT MUGU/313100E AWARS SLITS 30MAY01	MSL STATUS

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16680

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	TARTAR SURF ATCK AUR GM	1657AS0400-30	1410	01-263-2912	PE14
	AIR TRNG MSL, CAPTIVE	543-174-0350	6920	01-399-5510	BWCF

EI CNTRL NO:

PROB BRIEF : SUPPORT EQUIPMENT CAUSED MISSILE DAMAGE

PROBLEM : Missile sustainer damaged during Vertical Replenishment.
DESCRIPTION

PREVENTIVE : Comply with current support equipment technical directives for
ACTION Vertical Replenishment.

CORRECTIVE : None.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	VS-21	CODR	R09739-99-0008	12OCT99	CLOSED
	USS BOONE (FFG-28)	CODR	V21053-95-0002	02MAY95	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION :	VS-21	CODR	R09739-99-0008	12OCT99	CLOSED
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	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	543-174-0350	6920	01-399-5510	BWCF
	NOMEN: AIR TRNG MSL, CAPTIVE			
	S/N: 006154			
FAILED PART:	543-174-0350	6920	01-399-5510	BWCF
	NOMEN: AIR TRNG MSL, CAPTIVE			
	S/N: 006154			

DESCRIPTION:

121600ZOCT99: VS-21 advises that on 09 September 1999 during missile acceptance inspection, a hole was found in BWCF, HARPOON CATM-84D-1, S/N 006154. The hole was found in the skin at the bottom of the sustainer section. Missile being loaded at time of discovery.

ACTION TAKEN:

17DEC99: NAWC Pt Mugu provided the following information to NCTC NAWC Pt. Mugu representative at NS Atsugi Japan in reference to HARPOON CATM-84D-1's: According to CAIMS there are two CATM-84D-1 assets at Atsugi S/N 006108 (RFI) and 006154 (CODR hole in sust. sect). FWST North Island stated that one of these assets is only flyable on an F-18. Also according to the inventory manager, there are no issueable assets available. All RFI assets are currently issued to fleet. My response to the CODR will be to send Non-RFI S/N

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HARPOON ACTIVE (HANDLING DAMAGE)
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16680

(Continued)

006154 to Indian Head, where it will sit until funding is provided for repair. As advise as to whether or not VS-21's training will be adversely affected due to one less CATM asset.

200629ZDEC99: NAWC Pt. Mugu acknowledges receipt of reported CODR. VS-21 was requested to have defective missile shipped NSWC Indian Head, MD for damage assessment and repairs.

25AUG00: AWARS SLITS information advises that CATM S/N 006154 is in receipt at NSWC Indian Head in condition code "F".

30MAR01: NAWC Pt. Mugu's review of AWARS data, CATM S/N 006154 is still in receipt at NSWC Indian Head MD. In reference to funding for HARPOON CATM support and repairs, such funding has not been made available.

25OCT01: HARPOON CATM S/M 006154 remains in condition code "F" at NSWC Indian Head MD. Due funding issue this asset will not be repaired. No further action warranted. This action closes this deficiency report.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/313100E	MONITOR CATM S/N 006154 REPAIRS		CANCELED 25AUG00
		NAWC PT MUGU/313100E	MONITOR CATM FUNDING		COMPLETE 25OCT01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		VS-21 MESSAGE 121600ZOCT99	PROBLEM REPORT
		NAWC PT MUGU/313100E E-MAIL 17DEC99	AVAILABLE CATMS
		NAWC PT MUGU/313100E MESSAGE	INTERIM RESPONSE
		200629ZDEC99	
		NAWC PT MUGU/313100E AWARS SLITS	CATM LOCAL STATUS
		25AUG00	
		NAWC PT MUGU/313100E AWARS 30MAR01	CATM FUNDING