

BQM-74 TARGET ACTIVE (NEW PRODUCTION)
 AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

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

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PROBLEM NO: 16567 OPEN |

EI CNTRL NO: |

PROB BRIEF : TARGET DAMAGED DURING PARACHUTE RECOVERY |

PROBLEM : Target was damaged during parachute recovery.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-99-5015	18AUG99	CLOSED
	NAWC PT MUGU	PQDR II	N63126-99-5013	17JUN99	OPEN
ACTION :	NAWC PT MUGU	PQDR II	N63126-99-5015	18AUG99	CLOSED

DESCRIPTION:

Target was configured for air launch, land recovery. Target fueled out during recovery by emergency chute. Target hit ground hard. Post flight inspection revealed center fuselage cracked.

ACTION TAKEN:

16NOV99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

19JAN00: DCMC Hawthorne reports that an analysis indicates that when the landing is made in rough, uneven terrain, specific recovery altitudes, soil conditions, and impact point topography can create a stress load that exceeds the 30 G's specified for the fuselage. One probable scenario is where the target impacts nose first on relatively hard soil but where the second point of contact is the aft fuselage rather than the center section. For this type of landing, stress loads on the center section could range between 34 and 168 G's. The field service reports that this anomaly has been experienced only rarely (4-5 instances over the last 15 years). It was concluded that based on the frequency and the circumstance's of this incident that no corrective action which would address this condition would be cost effective. Accordingly, no corrective action is recommended at this time. repair of this target is not cost effective. the exhibit will be returned to the government "as is". This is considered closing action.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
	DCMC HAWTHORNE	TEST AND REPAIR	COMPLETE 19JAN00

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PROBLEM NO: 16567

(Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/313110E SF 368 18AUG99	TO DCMC HAWTHORNE
	NAWC PT MUGU/532210E SF 368 18AUG99	PROBLEM REPORT
	NORTHROP GRUMMAN DLA 1227 19JAN00	FINAL INVESTIGATION REPORT

ACTION : NAWC PT MUGU PQDR II N63126-99-5013 17JUN99 OPEN

DESCRIPTION:

Target was configured for air launch, land recovery, wingtip flares. Post inspection revealed center fuselage had sustained severe damage after normal parachute land recovery.

ACTION TAKEN:

10AUG99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	DCMC HAWTHORNE	TEST AND REPAIR	27SEP99 OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/532210E SF 368 17JUN99	PROBLEM REPORT
	NAWC PT MUGU/321200E SF 368 01JUL99	TO DCMC HAWTHORNE

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PROBLEM NO: 16615 OPEN |

EI CNTRL NO: |

PROB BRIEF : GYRO WOULD NOT SPIN UP DURING TEST |

PROBLEM : Target gyro would not spin up during test.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-99-5016	05OCT99	OPEN
ACTION :	NAWC PT MUGU	PQDR II	N63126-99-5016	05OCT99	OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: BQ45076			
FAILED PART:	58556-4	6615	01-317-4860	
	NOMEN: GYROSCOPE, VERTICAL			
	S/N: SYC07077			

DESCRIPTION:
New target with no flight operation failed sixth part one system electrical test. Vertical gyroscope would not spin up. Removed and replaced defective gyroscope. No further discrepancies noted.

ACTION TAKEN:
16NOV99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for investigation.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC HAWTHORNE	INVESTIGATE	14FEB00	OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/532210E SF 368 05OCT99	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 16NOV99	TO DCMC HAWTHORNE

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PROBLEM NO: 16616 OPEN |

EI CNTRL NO: |

PROB BRIEF : ALTITUDE TRANSMITTER READS WRONG |

PROBLEM : Target altitude transmitter has incorrect display.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-99-5017	05OCT99	OPEN
ACTION :	NAWC PT MUGU	PQDR II	N63126-99-5017	05OCT99	OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: BQ44041			
FAILED PART:	58951-2	6610	01-312-5788	
	NOMEN: TRANSMITTER, ALTITUDE			
	S/N: SYC00071			

DESCRIPTION:
Received altitude transmitter from supply and it was installed in BQM-74 target. On operational check, altitude TM output indicated 40.6 k feet with zero feet input.

ACTION TAKEN:
16NOV99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for investigation.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC HAWTHORNE	INVESTIGATE	14FEB00	OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/532210E SF 368 05OCT99	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 16NOV99	TO DCMC HAWTHORNE

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PROBLEM NO: 16617 CLOSED

EI CNTRL NO:

PROB BRIEF : MINIMUM THRUST IS INCORRECT

PROBLEM : Minimum thrust is incorrect.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	VC-6	PQDR II	V09806-99-0004	19AUG99	CLOSED
ACTION :	VC-6	PQDR II	V09806-99-0004	19AUG99	CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: BQ44096			
FAILED PART:	32560	2840	01-346-0891	
	NOMEN: TURBOJET ENGINE			
	S/N: 1585			

DESCRIPTION:

Upon acceptance inspection of BQM-74 technicians noted that engine thrust was rated at 224.988 from Williams International. Minimum thrust should be in accordance with NAVAIR 002B-30E-6-1 WP 003 00 PG. 7 Table 1 and at no time (according to test cell run sheet) was engine taken up to 52,000 RPM to establish if 240 pounds minimum thrust would be achieved.

ACTION TAKEN:

20OCT99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for investigation.

15NOV99: DCMC Hawthorne reports that no deficiency exists. Engine test sheets were obtained form VC-6 and forwarded to Williams International for analysis and comments. Test sheets from ATP with the engine installed were also obtained for review. Comparison of test points from test sheets to ATP verified that target was run to all test points required by the ATP. This includes a one three minute run at 52,000 RPM followed by a sustained 12 minute run at 52,000 RPM. Test sheet output data shows RPM and thrust corrected to a baseline, standard day established to be nine degrees F at sea level. This corrected thrust provides the basis for calculating thrust at maximum RPM (52,000) at sea level baseline conditions. The

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PROBLEM NO: 16617

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test sheet reflects the correct calculated thrust of 247 on the last line of the ATP report. As a standard part of the ATP at Northrup Grumman, this engine also was run twice at 52,000 RPM to verify functionality. This is considered closing action as no deficiency exists.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		DCMC HAWTHORNE	INVESTIGATE		COMPLETE 15NOV99

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		VC-6 SF 368 19AUG99	PROBLEM REPORT
		NAWC PT MUGU/313110E SF 368 20OCT99	TO DCMC HAWTHORNE
		NORTHROP GRUMMAN DLA 1227 15NOV99	FINAL INVESTIGATION REPORT

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PROBLEM NO: 16825 OPEN |

EI CNTRL NO: |

PROB BRIEF : INTEGRATED AVIONICS UNIT NOT WORKING PROPERLY |

PROBLEM : The Integrated Avionics Unit is not working properly.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-00-5012	22MAY00	OPEN
ACTION :	NAWC PT MUGU	PQDR II	N63126-00-5012	22MAY00	OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: BQ046024			
FAILED PART:	59705-1			
	NOMEN: NAVIGATION SENSOR UNIT			
	S/N: SVC08025			

DESCRIPTION:
It was noted during CST part one test that the Integrated Avionics Unit was working intermittently about five minutes in to test. Integrated Avionics Unit was removed and replaced.

ACTION TAKEN:
19JUN00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for investigation.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	DCMC HAWTHORNE	INVESTIGATE	17SEP00 OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/532200E SF 368 22MAY00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 19JUN00	TO DCMC HAWTHORNE

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PROBLEM NO: 16964 OPEN |

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC
: TARGET DRONE 89500-503 9999 99-999-9999

EI CNTRL NO: |

PROB BRIEF : PARACHUTE DOOR FAILS TO CLOSE PROPERLY |

PROBLEM : Parachute door does not close properly.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

OCCURRENCES: SOURCE TYPE DOCUMENT NO. DATE DR STATUS
PMRF PQDR II N0534A-00-0004 11APR00 OPEN

ACTION : PMRF PQDR II N0534A-00-0004 11APR00 OPEN

END ITEM : PART/DOC. NO. FSC NIIN NALC
: 89500-503
NOMEN: TARGET DRONE
S/N: 46090, 46092, 46094, 46095, 46096, 46097
FAILED PART: 89500-503
NOMEN: TARGET DRONE
S/N: 46090, 46092, 46094, 46095, 46096, 46097

DESCRIPTION:
Parachute doors binding on covers. PMRF repaired targets by trimming doors to fit. Targets are mission essential for RIMPAC 2000.

ACTION TAKEN:
24APR00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for investigation.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY DCMC HAWTHORNE INVESTIGATE 17JUL00 OPEN

REFERENCES : IDENTIFICATION REFERENCE BRIEF
NAWC PT MUGU/313110E SF 368 11APR00 TO DCMC HAWTHORNE
PMRF SF 368 11APR00 PROBLEM REPORT

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PROBLEM NO: 16965 OPEN |

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	FUEL PUMP	32749	2910	01-742-1993	
	DIGITAL AVIONICS PROCESSOR	95300-531	6610	01-445-7679	

EI CNTRL NO: |

PROB BRIEF : ENGINE FUEL PUMP FAILURE |

PROBLEM : The engine fuel pump on the target is failing.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	PMRF	PQDR II	N0534A-00-0002	11APR00	OPEN
	NAWC PT MUGU	PQDR II	N63126-00-5001	03JAN00	CLOSED

ACTION : PMRF PQDR II N0534A-00-0002 11APR00 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	95300-531	6610	01-445-7679	
	NOMEN: DIGITAL AVIONICS PROCESSOR			
	S/N: 44010			
FAILED PART:	95300-531	6610	01-445-7679	
	NOMEN: DIGITAL AVIONICS PROCESSOR			
	S/N: SYC00011			

DESCRIPTION:
Engine had hot start on target acceptance/depreservation run. Fuel pump runs with no RPM input to Digital Avionics Processor. The malfunction code was 292.

ACTION TAKEN:
24APR00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC HAWTHORNE	TEST AND REPAIR	23JUL00	OPEN

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	PMRF SF 368 11APR00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 24APR00	TO DCMC HAWTHORNE

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BQM-74 TARGET ACTIVE (NEW PRODUCTION)
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PROBLEM NO: 16965 (Continued)

ACTION : NAWC PT MUGU PQDR II N63126-00-5001 03JAN00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	32749	2910	01-742-1993	
	NOMEN: FUEL PUMP			
	S/N: BQ46D13			
FAILED PART:	32749	2910	01-742-1993	
	NOMEN: FUEL PUMP			
	S/N: PPV2226			

DESCRIPTION:

Fuel pump fails to operate during initial engine turn up.

ACTION TAKEN:

31JAN00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

28APR00: DCMC Hawthorne reports that tear down and analysis of the fuel pump discovered water and salt residue inside the fuel pump. No corrective action is required at this time as failure analysis concluded that failure was due to improper action by the user and was not a component failure. The discrepant part will be repaired at government cost. This item will be added to the backlog awaiting funding for repairs. This is considered closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	DCMC HAWTHORNE	TEST AND REPAIR	COMPLETE 28APR00

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU SF 368 03JAN00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 31JAN00	TO DCMC HAWTHORNE
	NORTHROP GRUMMAN DLA 1227 28APR00	FINAL INVESTIGATION REPORT

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BQM-74 TARGET ACTIVE (NEW PRODUCTION)
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PROBLEM NO: 16966 OPEN |

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC
: ACTUATOR, SERVO 58976-6 1680 01-275-5705

EI CNTRL NO: |

PROB BRIEF : AILERON ACTUATOR FAILURE |

PROBLEM : Target has aileron actuator failure.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

OCCURRENCES: SOURCE TYPE DOCUMENT NO. DATE DR STATUS
NAWC PT MUGU PQDR II N63126-00-5004 06APR00 OPEN

ACTION : NAWC PT MUGU PQDR II N63126-00-5004 06APR00 OPEN

END ITEM : PART/DOC. NO. FSC NIIN NALC
: 58976-6 1680 01-275-5705
NOMEN: ACTUATOR, SERVO
S/N: 46026
FAILED PART: 58976-6 1680 01-275-5705
NOMEN: ACTUATOR, SERVO
S/N: 98M1315-4009

DESCRIPTION:
It was noted that during CST part one, the aileron actuator failed.
Further investigation revealed actuator was hot to the touch.
Removed and replaced actuator and no further anomalies were noted.

ACTION TAKEN:
24APR00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne
for test and repair.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY DCMC HAWTHORNE TEST AND REPAIR 23JUL00 OPEN

REFERENCES : IDENTIFICATION REFERENCE BRIEF
NAWC PT MUGU/532200E SF 368 06APR00 PROBLEM REPORT
NAWC PT MUGU/313110E SF 368 24APR00 TO DCMC HAWTHORNE

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PROBLEM NO: 16968 OPEN

EI CNTRL NO:

PROB BRIEF : INTEGRATED AVIONICS UNIT FAILURE

PROBLEM : Integrated Avionics Unit has failure.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	AFWTF	PQDR II	N0017A-00-0005	13APR00	CLOSED
	NAWC PT MUGU	PQDR II	N63126-99-5002A	21DEC99	OPEN

ACTION : AFWTF PQDR II N0017A-00-0005 13APR00 CLOSED

DESCRIPTION:

During electrical test part one (surface launch) Integrated Avionics Unit failed. Three consecutive failure codes (error code 04) occurred during target power application.

ACTION TAKEN:

19APR00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

17MAY00: DCMC Hawthorne reports the cause of this deficiency is unknown at this time. Unit was installed in a new target vehicle at the factory. Parts one and two of test were completed with no discrepancies. Failure analysis could not duplicate the failure. Test results are on file and unit will be returned to government as is. This is considered closing action.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC HAWTHORNE	TEST AND REPAIR		COMPLETE 17MAY00

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	AFWTF SF 368 13APR00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 19APR00	TO DCMC HAWTHORNE
	NORTHROP GRUMMAN DLA 1227 17MAY00	FINAL INVESTIGATION REPORT

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PROBLEM NO: 16968

(Continued)

ACTION : NAWC PT MUGU PQDR II N63126-99-5002A 21DEC99 OPEN

DESCRIPTION:

Software was changed by Northrop Grumman representative in the Integrated Avionics Unit and unit failed Part I GPS functions.

ACTION TAKEN:

31JAN99: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC HAWTHORNE	TEST AND REPAIR	09APR00	OPEN

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU SF 368 21DEC99	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 31JAN00	TO HAWTHORNE

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PROBLEM NO: 16969 OPEN |

EI CNTRL NO: |

PROB BRIEF : DKW-3B FAILED AT POWER UP |

PROBLEM : DKW-3B failed at power up.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-00-3002	28MAR00	OPEN
ACTION :	NAWC PT MUGU	PQDR II	N63126-00-3002	28MAR00	OPEN

DESCRIPTION:

Unit fails to turn on upon initial power up. Failure was discovered while the unit was being tested after changes to the failure alarm from four to one second. Something was noted rattling in the R/T half of the housing which may have caused a short.

ACTION TAKEN:

30MAR00: NAWC Pt. Mugu submitted deficiency report to DCMC Birmingham for test and repair.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	DCMC BIRMINGHAM	TEST AND REPAIR	28JUN00	OPEN

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/531200E SF 368 28MAR00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 12APR00	TO DCMC BIRMINGHAM

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PROBLEM NO: 16970 OPEN |

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC
: RADAR ALTIMETER ANTENNA 101738-1 9999 99-999-9999

EI CNTRL NO: |

PROB BRIEF : AIR LAUNCH KIT ANTENNA DAMAGE |

PROBLEM : Target antenna discovered damaged.
DESCRIPTION

PREVENTIVE : No preventive action at this time.
ACTION

CORRECTIVE : No corrective action at this time.
ACTION

OCCURRENCES: SOURCE TYPE DOCUMENT NO. DATE DR STATUS
NAWC PT MUGU PQDR II N63126-00-5002 29MAR00 OPEN

ACTION : NAWC PT MUGU PQDR II N63126-00-5002 29MAR00 OPEN

END ITEM : PART/DOC. NO. FSC NIIN NALC
: 101738-1

NOMEN: RADAR ALTIMETER ANTENNA
S/N: 00686, 00885, 00985, 00872, 00986, 00881, 00866,
00982, 00978, 00983, 00967, 00878, 00869, 00876,
00873, 00975, 00969, 00868, 00864, 00834, 00821

FAILED PART: 101738-1
NOMEN: RADAR ALTIMETER ANTENNA
S/N: 00686, 00885, 00985, 00872, 00986, 00881, 00866,
00982, 00978, 00983, 00967, 00878, 00869, 00876,
00873, 00975, 00969, 00868, 00864, 00834, 00821

DESCRIPTION:
It was noted that RALAC kit and antenna's has a deficiency. The deficiency was discovered after the kit was issued on approximately 02MAR00. The problem was bubbles and delamination of the antenna. All kits in inventory were inspected and additional antenna's were found to be defective.

ACTION TAKEN:
12APR00: NAWC Pt. Mugu submitted deficiency report to DCMC Hawthorne for test and repair.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY DCMC HAWTHORNE TEST AND REPAIR 03JUL00 OPEN

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PROBLEM NO: 16970

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REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/532200E SF 368 29MAR00	PROBLEM REPORT
	NAWC PT MUGU/313110E SF 368 12APR00	TO DCMC HAWTHORNE