

USS HAWES (FFG-53)

**SEMAT II
SHELL CONDITION ASSESSMENT SURVEY
INTERIOR AREAS
04/08/02 TO 04/19/02**



**PREPARED BY
SUPERVISOR OF SHIPBUILDING CONVERSION
AND
REPAIR
PORTSMOUTH VIRGINIA**



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19 APRIL, 2002
Serial # 1697 BF - 054

Q.E.D. Systems, Inc. was tasked by the Supervisor of Shipbuilding Conversion and Repair, USN (SPORT) Portsmouth, VA. to conduct an Ultrasonic Thickness (U/T) Survey of specific locations on board USS HAWES (FFG-53) during the period of 08 APRIL – 19 APRIL 2002.

The survey was conducted by:

Francis J. (Joe) LaRock Certified Level II, 21 December 2001

Candace Short Certified Level I, 11 January 2002

The instruments used were Krautkramer Branson,

Model DMS-2TC. Serial Number: 00N3V8
Calibration Date: 22 February 2002
Probes Used: TC 560
KBA 560
FH 2 E
KBA 525

I have reviewed the results of the survey and approved of the findings. The discrepancies have been recorded on MAF's and are included in this report.

A handwritten signature in black ink that reads 'Frank'.

Francis J. LaRock
Certified Level II

USS HAWES (FFG-53)

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USS HAWES (FFG-53)
SHELL CONDITION ASSESSMENT SURVEY, INTERIOR AREAS.

A SEMAT II UNDERWATER HULL AND SUPPORTING STRUCTURE SURVEY OF INTERIOR AREAS WAS CONDUCTED ON BOARD **USS HAWES (FFG-53)** FROM 04/08/02 TO 04/19/02 AT NAVAL STATION NORFOLK, VIRGINIA.

THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH HULL STRUCTURE MRC 1102 USING A DELMHORST BD 2100 MOISTURE METER AND A KRAUTKRAMER BRANSON MODEL DM2TC ULTRASONIC TEST INSTRUMENT SERIAL NO.00NV8 CALIBRATION DUE DATE 02/22/03. THE PROBES USED WERE KRAUTKRAMER BRANSON'S TC/560, FH2E AND KBA 525.

THE SURVEY RESULTS SECTION CONTAINS A TABLE OF UNSATISFACTORY AREAS WITH THE (JSN'S) FROM THIS SURVEY AND (CSMP/JSN'S) PREVIOUSLY SUBMITTED. A TABLE OF SATISFACTORY AREAS IS ALSO INCLUDED. A MATERIAL CONDITION ANALYSIS FORM (MCA) WAS SUBMITTED FOR THESE AREAS WHERE NO WORK WAS REQUIRED.

SECTION (A) CONTAINS:

AREAS THAT ARE RELATED TO THE SHELL AND SUPPORTING STRUCTURE AND REQUIRE AN OUTSIDE ACTIVITY TO CONDUCT REPAIRS.

SECTION (B) CONTAINS:

THE THINNING TANK TOP IN THE A/C MACHINERY ROOM (3-84-0-E). ALTHOUGH NOT SHELL RELATED IS A HISTORIC AREA OF CORROSION ON (FFG-7) CLASS SHIPS. THIS AREA ALSO REQUIRES AN OUTSIDE REPAIR ACTIVITY. REPAIRS MAY BE CONDUCTED WHILE THE SHIP IS WATERBORNE.

SECTION (C) CONTAINS:

AREAS RELATED TO THE SHELL AND SUPPORTING STRUCTURE THAT ARE WITHIN THE CAPABILITY OF SHIPS FORCE TO PERFORM, SUCH AS THE REMOVAL OF SATURATED HULL INSULATION, SURFACE CORROSION AND PAINTING.

THE MOST CRITICAL AREAS NOTED WERE THE HOLED STRINGER IN THE MAIN ENGINE ROOM, THE HOLE IN FRAME (160) AND THE THINNING MARGIN PLATE IN THE CHT ROOM. THE THINNING MARGIN PLATE IN THE LAUNDRY, THE CORROSION IN THE FORWARD EDUCTOR ROOM AND THE THINNING TANK TOP / DECK IN THE A/C MACHINERY ROOM.

THE FINAL SECTION CONTAINS A (FFG-7) CLASS STRUCTURAL MATRIX. THESE ARE SPACES LOCATED AT THE WATER LINE AND BELOW.

**USS HAWES (FFG-53) STRUCTURAL INSPECTION RESULTS
UNSATISFACTORY AREAS**

LOCATION	AREA	RESULTS
5-292-0-E AMR 3 JSN-A479	PORT SIDE, BETWEEN FRAMES (316-324) FROM MARGIN PLATE TO STRINGER (12)	APPROX. 60 SF OF SURFACE RUST AND PAINT SCALING
5-250-0-E MER JSN-A480	PORT SIDE, 1 FT AFT OF FRAME (270) 1 ST STRINGER FROM MARGIN PLATE.	STRINGER IS HOLED, SHELL IS THINNING
5-212-0-E AMR 2 JSN-A558	STARBOARD SIDE LOWER LEVEL BETWEEN FRAMES (220) AND (228)	APPROX 40 SF OF SATURATED HULL INSULATION SURFACE RUST AND PAINT SEPARATION.
5-180-0-E AMR 1 JSN-A525	BHD (204) APPROX. 6 FT INBOARD OF PORT SIDE SHELL	CLOGGED DRAIN IS OVER FLOWING ONTO SHELL CAUSING CORROSION. APPROX. 60 SF.
5-51-0-Q FWD EDUCTOR ROOM P-827	PORT AND STBD SIDE BILGE AREA.	DETERIORATED STIFFNERS APPROX. 60 SF OF CORROSION.
4-172-1-E FIRE PUMP ROOM JSN-A481	BILGE POCKET AREA, BHD (172-180)	APPROX 35 SF OF SURFACE RUST AND PAINT SEPARATION.
4-160-0-Q CHT ROOM JSN-A476	STARBOARD SIDE FRAME (160) AND BILGE AREA	HOLE IN WEB OF FRAME (160) MARGIN PLATE IS THINNING.
4-140-0-Q LAUNDRY JSN-A477	PORT SIDE, SHELL AND MARGIN PLATE FORWARD OF FRAME (160)	MARGIN PLATE IS THINNING
4-100-0-E APU MACHINERY ROOM CSMP/JSN-P625	PORT AND STBD SIDE BILGE POCKETS	APPROX 64 SF OF CORROSION
4-48-1-Q SONAR COOLING ROOM JSN-A524	STBD SIDE, FROM DECK TO OVERHEAD AND BETWEEN BHDS (48 AND 56)	APPROX 64 SF OF SATURATED HULL INSULATION, HIDDEN CORROSION.
3-84-0-E A/C MACHINERY ROOM JSN-A559	PORT SIDE, TANK TOP / DECK (5-84-2-F)	TANK TOP IS THINNING.

USS HAWES (FFG-53)
SATISFACTORY AREAS

LOCATION	SPACE DESIGNATION	MCA SUBMITTED
3-32-1-K	FLAMMABLE STORAGE LOCKER	YES
3-36-2-T	ESCAPE TRUNK	YES
3-40-2-A	CPO STOREROOM	YES
3-46-1-A	SPECIAL CLOTHING STOREROOM	YES
3-48-2-A	MEDICAL STOREROOM NO.1	YES
3-53-2-A	SMALL STORES	YES
3-56-1-A	DECK GEAR STOREROOM	YES
3-93-1-Q	400 HZ ENCLOSURE	YES
3-100-0-L	CREW BERTHING	YES
3-100-1-L	CREW LOUNGE	YES
3-113-1-L	SHOWER WR/WC	YES
3-140-3-Q	CLEANING GEAR LOCKER	YES
3-144-0-L	CREW BERTHING	YES
3-144-2-L	CREW BERTHING	YES
3-154-1-Q	PIPING SPACE	YES
3-156-2-Q	PIPING SPACE	YES
3-180-2-C	SWITCH GEAR ROOM	YES
3-180-5-A	DRY PROVISIONS STOREROOM	YES
3-196-2-A	SHIPS STORES STOREROOM	YES
3-328-0-A	SUPPLY STOREROOM	YES
4-32-0-Q	SONAR EQUIPMENT ROOM	YES
4-48-2-L	PASSAGE WAY	YES
4-56-0-M	SMALL ARMS MAGAZINE	YES
4-56-2-A	STOREROOM	YES
4-151-3-A	CLEANING GEAR LOCKER	YES
4-152-1-A	STOREROOM	YES
4-152-3-A	CHEMICAL DEFENSE EQUIPMENT STOREROOM	YES
5-368-01-E	STEERING GEAR ROOM	YES
5-376-1-A	STOREROOM	YES
5-390-1-A	DECK GEAR STOREROOM	YES

SECTION A

THESE ARE AREAS
THAT ARE RELATED TO
THE SHELL AND
SUPPORTING STRUCTURE
AND REQUIRE AN
OUTSIDE ACTIVITY TO
CONDUCT REPAIRS

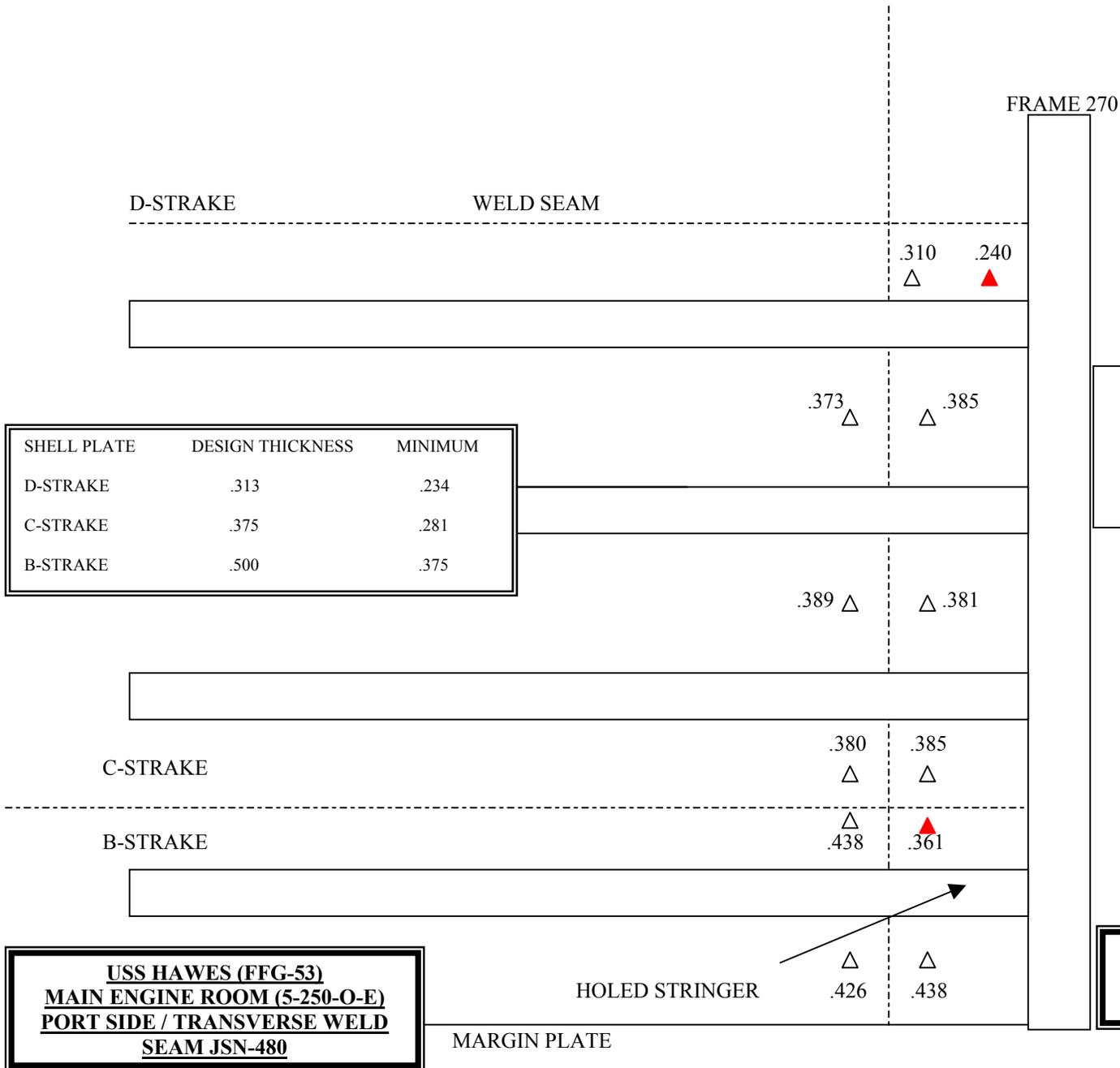
MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWBS 11011	EIC	APL	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 5-250-0-E	WORK CENTER EM04	JSN A480	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.6	
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 300	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: MAIN ENGINE ROOM (5-250-0-E) PORT SIDE 1ST					
STRINGER FROM THE MARGIN PLATE IS HOLED APPROXIMATELY 1FT AFT OF FRAME (270). SOME SHELL THINNING WAS NOTED AT THE JUNCTION OF (B) STRAKE (.500),(C) STRAKE (.375 HY-80) AND THE TRANSVERSE WELD SEAM. APPROXIMATELY 1FT AFT OF FRAME (270). APPROX.80 SF OF AREA HAS RUST AND PAINT SCALING.					
RECOMMENDED REPAIRS:					
RECOMMEND REPAIR ACTIVITY CUT OUT AND REPLACE APPROX. 2LF OF STRINGER (6.5X6X8#T-BEAM) CLAD WELD THINNED AREA. PRIME AND PAINT AREAS DISTURBED BY REPAIRS INCLUDING SHELL AND STRINGERS FROM MARGIN PLATE TO DECK LEVEL, BETWEEN FRAMES (270-278). RISK ASSESSMENT WAS CONDUCTED BY FTSCLANT AND CONCURS WITH FINDINGS AND FINAL REPAIR RECOMMENDATIONS 2-KILO, DRAWING AND PHOTO AVAILABLE AT WWW.SPEAR.NAVY/SNAPSHOT/UT/SHELLCON.HTM.					
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N.TAGLIANETTI					
CSMP SUMMARY: HOLED STRINGER / THINNING SHELL /CORROSION				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LAROCK / C. SHORT QED SYSTEMS INC.			TD	TL	LOGISTICIAN
					TSP

USS HAWES (FFG-53)
MAIN ENGINE ROOM (5-250-0-E)
PORT SIDE LOWER LEVEL



HOLED STRINGER 1FT AFT OF FRAME (270) .RED ARROW INDICATES AREA OF SHELL THINNING. BLACK ARROW INDICATES TRANSVERSE WELD SEAM.
JSN-A480



SHELL PLATE	DESIGN THICKNESS	MINIMUM
D-STRAKE	.313	.234
C-STRAKE	.375	.281
B-STRAKE	.500	.375

FOR LOCATION OF THIS AREA REFERENCE NAVSHIPS DRAWING (111-5414020) SHEET 3-A DETAIL (6-D)

**USS HAWES (FFG-53)
MAIN ENGINE ROOM (5-250-O-E)
PORT SIDE / TRANSVERSE WELD
SEAM JSN-480**

**J. LaROCK / C. SHORT
QED SYSTEMS INC.
04/08/02**

CSMP REVIEW

ITEM NUMBER				SHIP USS HAWES (FFG-53)				
SYSTEM STRUCTURAL		ESWBS 1200	EIC A800000		APL	X-SYSTEM ITEM	RIN N/L	
EQUIPMENT NAME HULL STRUCTURAL		IDENT/SERIAL NONE		LOCATION 5-51-0-Q	WORK CENTER		JSN P827	
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC	
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED				
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON			
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY DEADLINE DATE: 03/01/03	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE			
MAN HRS EXPENDED	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY			
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE			
PER SEMAT 1 – FWD EDUCTOR RM (5-51-O-Q) PORT AND STBD SHELL WAS FOUND CORRODED BETWEEN FRAMES 51 AND 55. THE FWD AND AFT BULKHEADS WERE ALSO CORRODED. THE 1 ST AND 2 ND STRINGERS FROM THE DECK PLATE WERE ALSO CORRODED. XXX REPAIR ACTIVITY: REMOVE DECK PLATES, REMOVE CORROSION AND PRESERVE. DEADLINE DATE: 1 MAR 2003. RECOMMEND REPAIR DURING POST DEPLOYMENT AVAILABILITY. ASSESSED BY D. SMITH/R. MANALANG, POC J. BRUCKNER, SPORT CODE 221, DSN 961-4001, COMM (757) 396-4001. */ASSESS/SEMAT 1 /NORFOLK /D/UNSAT/SF/1/0.9/1201/1 /1 /**/TECH/D.SMITH/R.MANAL/SPORT 221 /(757)396-4001/* #### VP-03/30/01 #### 136131310861361 22-SEP-0319-DEC-03.								
CSMP SUMMARY: FWD EDUCTOR RM SHELL CORRODED						TEST#		
ROOT CAUSE/AMPLIFICATION						STEP#		
SYSTEM LEVEL IMPACT:								
TECHNICIAN MARK APPROPRIATE BLOCKS: 2-KILO IS: <input checked="" type="checkbox"/> VALID (NO CORRECTIONS) <input type="checkbox"/> REWRITE (VALID) <input type="checkbox"/> FOUND COMPLETE <input type="checkbox"/> COMPLETED BY SEMAT <input type="checkbox"/> CANCEL (WORK NOT REQUIRED) <input type="checkbox"/> NOT VALIDATED <input type="checkbox"/>				UPLOAD VALIDATION INFORMATION / CORRECTIONS TO SNAP: YES <input type="checkbox"/> NO <input type="checkbox"/>				
FIRST CONTACT	RATE	SECOND CONTACT	RATE	PHONE				
BLUEPRINTS: TECH MANUALS, PLANS, ETC.						ON BRD YES NO		
ASSESSOR: J. LAROCK / C. SHORT QED SYSTEMS INC.			TD	TL	LOGISTICIAN		PAGE NO	
CODE								

USS HAWES (FFG-53)
FORWARD EDUCTOR ROOM (5-51-O-Q)



CORRODED 3" X 2" VERTICAL STIFFENER, STARBOARD SIDE.



ENTIRE BILGE AREA HAS CORROSION.
CSMP-JSN P827

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)							
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWBS 11011		EIC		APL		RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY			IDENT/SERIAL N/A		LOCATION 4-160-0-Q		WORK CENTER EM04		JSN A476
EQUIPMENT STATUS			PROBLEM STATUS		CATEGORY				EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD			1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4.S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE		4. D - DOWN 5. L - LIMITED		.6
TYPE/AVAILABILITY		WHEN TO BE ACCOMPLISHED		STATUS		CAUSE		DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL		1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY		1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE		1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2		MAN HRS REMAINING 300		COMPLETED ACTION TAKEN			S/F MANHOURS		PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL				1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION				1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: CHT ROOM 4-160-0-Q STBD SIDE THE WEB OF FRAME (160) IS HOLED AT THE JUNCTION OF THE MARGIN PLATE AND SHELL.THE MARGIN PLATE IS THINNING WHERE IT MEETS SHELL BETWEEN FR. (160 AND 164)									
RECOMMENDED REPAIRS: RECOMMEND REPAIR ACTIVITY CUT OUT APPROX.1SF OF WEB, REPLACE WITH .250 OS. CUT OUT AND REPLACE APPROX . 4 SF OF MARGIN PLATE .250 OS. RISK ASSESSMENT WAS CONDUCTED BY BYFTSCLANT AND CONCURS WITH FINDINGS AND FINAL REPAIR RECOMMENDATIONS.2 KILO AND PHOTO AVAILABLE AT WWW.SPEAR.NAVY/SHOT/UT/SHELLCON.HTM									
SSPORT C221 POC: A.DAVIS (757-396-4001 EXT 2166) TPOC:N.TAGLIANETTI									
CSMP SUMMARY: FRAME HOLED/MARGIN PLATE THINNING							TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1							STEP# 1 THRU 5		
SYSTEM LEVEL IMPACT:									
PART NO.		NOMENCLATURE				QTY	NSN		COST
1									
2									
3									
4									
5									
6									
FIRST CONTACT HENDRICK		RATE DDC		SECOND CONTACT GREEN			RATE MR2		PHONE
ASSESSOR / ACT / TECH ID# J. LAROCK / C. SHORT QED SYSTEMS INC.					TD	TL		LOGISTICIAN	TSP

CSMP REVIEW

ITEM NUMBER		SHIP USS HAWES (FFG-53)					
SYSTEM STRUCTURAL		ESWBS 1100	EIC A100000		APL X-SYSTEMS		RIN N/L
EQUIPMENT NAME SHELL AND SUPPORTING STRUCTURE		IDENT/SERIAL NONE		LOCATION 4-160-0-Q	WORK CENTER EM04		JSN P912
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY DEADLINE DATE 03/01/03	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY		
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE		
<p>PER-SEMAT-1 4-160-0-Q HULL STRUCTURE INSPECTION OF SEWAGE COLLECTING/HANDLING SYSTEM EQPT ROOM(4-160-0-Q), THE SHELL STRUCTURE (STBD) BETWEEN FR 168 AND FR 172 WAS FOUND CORRODED WITH EXTENSIVE MATERIAL LOSS. THE SHELL STRUCTURE (PORT) BETWEEN FR 172 AND FR 180 IS ALSO CORRODED. SHELL STRUCTURE INCLUDES SHELL PLATE, MARGIN PLATE AND STRINGER. XXX REPAIR ACTIVITY: REMOVE LAGGING, REMOVE CORROSION, UT STBD SHELL AND MARGIN PLATE, WELD, REPAIR IF REQUIRED, AND PRESERVE. DEADLINE DATE: 1 MAR 2003, RECOMMEND REPAIR DURING POSTDEPLOYMENT AVAILABILITY. ASSESSED BY D.SMITH/R.MANALANG, POC J. BRUCKNER, SPORT CODE 221, DSN 961-4001. COMM (757) 396-4001. */ASSESS/SEMAT 1/NORFOLK /D/UNSAT/SF/1/0.9/1201/1 /1.A /**/TECH/D.SMITH/R.MANAL/SPORT 221 /(757)396-4001*/ ####PE: POWER TOOL CLEAN AND PRESERVE HULL STRUCTURE INCLUDING MARGIN PLATE, SHELL PLATE AND FIRST STRINGER BETWEEN FRAMES 160 AND 172 ON THE STBD SIDE, AND BETWEEN FRAMES 163 AND 180 ON PORT SIDE. POWER TOOL CLEAN AND PRESERVE THE BILGE WELL OF THE CHT PUMP ROOM BILGE PUMP ON STBD SIDE. INSPECT/UT HULL STRUCTURE DETERIORATED AREA AND PROVIDE A REPORT. FOR BIDDING PURPOSE REPLACE 12 SQ FT OF MARGIN 136131159.</p>							
CSMP SUMMARY: 4-160-0-Q SWGE SYS RM SHLL COR					TEST#		
ROOT CAUSE/AMPLIFICATION					STEP#		
SYSTEM LEVEL IMPACT:							
TECHNICIAN MARK APPROPRIATE BLOCKS: 2-KILO IS: <input checked="" type="checkbox"/> VALID(NO CORRECTIONS) <input type="checkbox"/> REWRITE <input type="checkbox"/> FOUND COMPLETE <input type="checkbox"/> COMPLETED BY SEMAT <input type="checkbox"/> CANCEL(WORK NOT REQUIRED) <input type="checkbox"/> NOT VALIDATED				UPLOAD VALIDATION INFORMATION / CORRECTIONS TO SNAP: YES _____ NO _____			
FIRST CONTACT	RATE	SECOND CONTACT		RATE	PHONE		
		HTC					
BLUEPRINTS: TECH MANUALS, PLANS, ETC.							ON BRD YES NO
ASSESSOR: J. LAROCK / C. SHORT QED SYSTEMS INC.				TD	TL	LOGISTICIAN	PAGE NO
CODE							

USS HAWES (FFG-53)
CHT ROOM (4-160-0-Q)



HOLE IN WEB OF FRAME (160) STARBOARD SIDE. ARROW INDICATES
MARGIN PLATE WHERE LOW U/T READINGS WERE TAKEN.
JSN-A476.

FRAME (160)

FRAME(164)

HOLE IN WEB.

SHELL DESIGN THICKNESS	.500
MINIMUM	.375
MARGIN	.250
MINIMUM	.187

△ .445	△ .489	SHELL	△ .420
△ .426	△ .470		△ .464
▲ .147	△ .195	MARGIN PLATE	△ .222
△ .240	△ .240		△ .239

FOR LOCATION OF THIS AREA
 REFERENCE NAVSHIPS
 DRAWING
111-5414019
SHEET 3-B DETAIL (3-D)

USS HAWES (FFG-53)
 CHT ROOM (4-160-0-Q)
 JSN-A476

J.LAROCK/C.SHORT
 QED SYSTEMS INC.
 04/11/02

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)				
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWBS 11011	EIC	APL	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY		IDENT/SERIAL N/A	LOCATION 4-140-0-Q	WORK CENTER EM04	JSN A477	
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4.S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			.6
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 300	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: SHIPS LAUNDRY (4-140-0-Q)THE MARGIN PLATE						
IS THINNING FROM FRAMES (156 -160) ENTIRE BILGE AREA FROM BHDS (140TO160) HAS CORROSION /HEAVY PAINT SCALING APPROX 80 SF.						
RECOMMENDED REPAIRS:RECOMMEND REPAIR ACTIVITY CUT OUT APPROX.4 SF OF MARGIN PLATE FROM BHD (160)TO FRAME (156)						
REPLACE WITH.250 OS. POWER CLEAN ENTIRE BILGE AREA PRIME AND PAINT. RISK ASSESSMENT WAS CONDUCTED BY FTSC/LANT AND CONCURS WITH FINDINGS AND FINAL REPAIR RECOMMENDATIONS.						
2 KILO, DRAWING AND PHOTO AVAILABLE AT WWW.SPEAR.NAVY/ SNAPSHOT/UT/SHELLCON.HTM						
SSPORT C221 POC: A.DAVIS (757-396-4001 EXT 2166) TPOC:N.TAGLIANETTI						
CSMP SUMMARY: MARGIN PLATE IS THINNING.				TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5		
SYSTEM LEVEL IMPACT:						
PART NO.	NOMENCLATURE			QTY	NSN	COST
1						
2						
3						
4						
5						
6						
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN		RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LAROCK / C. SHORT QED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP

USS HAWES (FFG-53)
SHIPS LAUNDRY (4-140-0-Q)



PORT SIDE BILGE POCKET FORWARD OF FRAME (160). THE MARGIN PLATE IS THINNING, REFER TO DRAWING FOR U/T READINGS.

JSN-A477

FRAME (160)

FRAME(154)

SHELL DESIGN THICKNESS .500
 MINIMUM .375
 MARGIN .250
 MINIMUM .187

△ .499	△ .478		△ .480	.486△
		SHELL		
△ .502	△ .428		△ .479	.498△
△ .195	▲ .136		△ .243	.247△
		MARGIN PLATE		
△ .243	△ .233		△ .244	.241 △

FOR LOCATION OF THIS AREA, REFERENCE
 NAVSHIPS DRAWING 111-5414019 SHEET 3-A DETAIL 3-D

USS HAWES (FFG-53)
 SHIPS LAUNDRY (4-140-0-Q)
 JSN-477

J.LAROCK/C.SHORT
 QED SYSTEMS INC.
 04/11/02

SECTION B

THE THINNING TANK TOP IN THE A/C MACHINERY ROOM (3-84-O-E). ALTHOUGH NOT SHELL RELATED IS A HISTORIC AREA OF CORROSION ON (FFG-7) CLASS SHIPS. THIS AREA ALSO REQUIRES AN OUTSIDE REPAIR ACTIVITY. REPAIRS MAY BE CONDUCTED WHILE THE SHIP IS WATERBORNE.

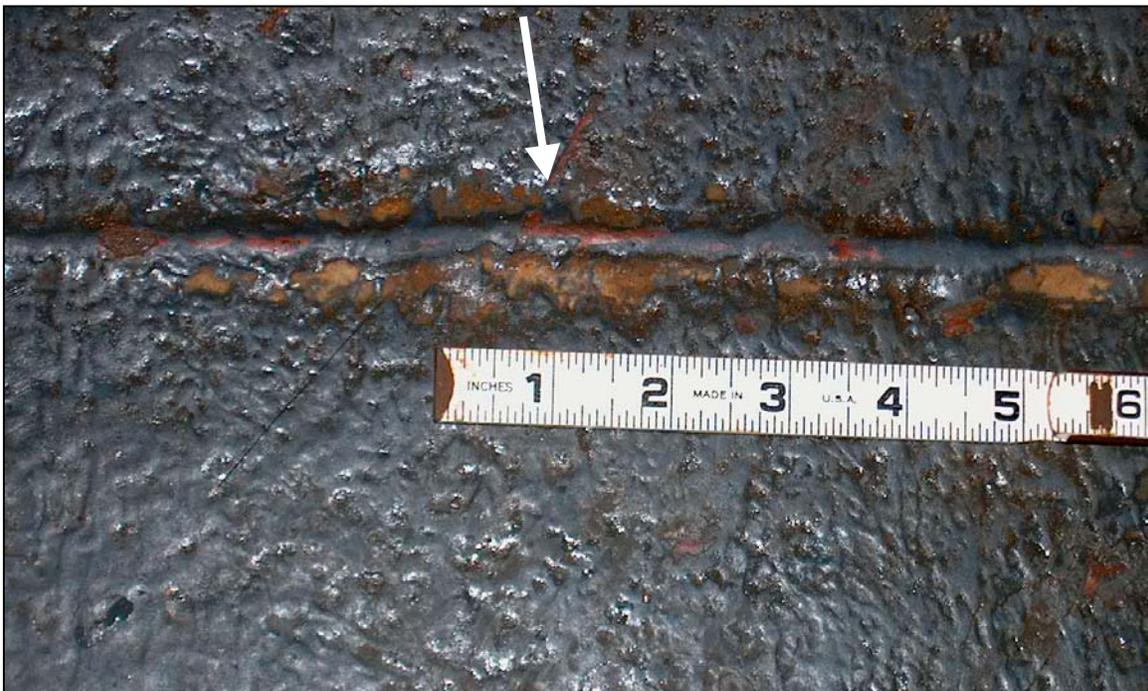
MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWS 11011	EIC	APL	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 3-84-0-E	WORK CENTER EM04	JSN A559	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.6	
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 500	COMPLETED ACTION TAKEN	S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: A/C MACHINERY ROOM (3-84-0-E)					
TANK TOP (5-84-2-F) IS THINNING AT THE WELD SEAM RUNNING FORE AND AFT APPROX. 2 FT INBOARD OF PORT SHELL FROM FORWARD					
END OF A/C PLANT FRAME (97 1/2) TO FRAME(95)					
SEVERAL U/T READINGS ARE BELOW THE 25% WASTAGE CRITERIA. REFER TO DRAWING FOR U/T READINGS.					
RECOMMENDED REPAIRS:					
RECOMMEND REPAIR ACTIVITY DE-FUEL TANK (5-84-2-F),CLEAN AND GAS FREE. CUT OUT APPROX. 40 SF OF TANK TOP FROM PORT SHELL					
TO 10 FT INBOARD AND FROM DECK COAMING, FRAME (97 1/2) FWD TO FRAME (95). REPLACE WITH .250 OS. PERFORM NDT. ON TANK, PRIME AND PAINT NEW MATERIAL AND AREAS DISTURBED BY REPAIRS.					
RISK ASSESSMENT WAS CONDUCTED BY FTSLANT AND CONCURS WITH FINDINGS AND FINAL REPAIR RECOMMENDATIONS.					
2-KILO, PICTURE AND DRAWING AVAILABLE AT:WWW.SPEAR.NAVY/SNAPSHOT/UT/SHELLCON.HTM					
SSPORT C221 POC: A.DAVIS (757-396-4001 EXT 2166) TPOC:N.TAGLIANETTI					
CSMP SUMMARY: TANK TOP IS THINNING.			TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1			STEP# 1 THRU 5		
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE	QTY	NSN	COST	
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LAROCK / C. SHORT QED SYSTEMS INC.		TD	TL	LOGISTICIAN	TSP

USS HAWES (FFG-53)
A/C MACHINERY ROOM (3-84-0-E)

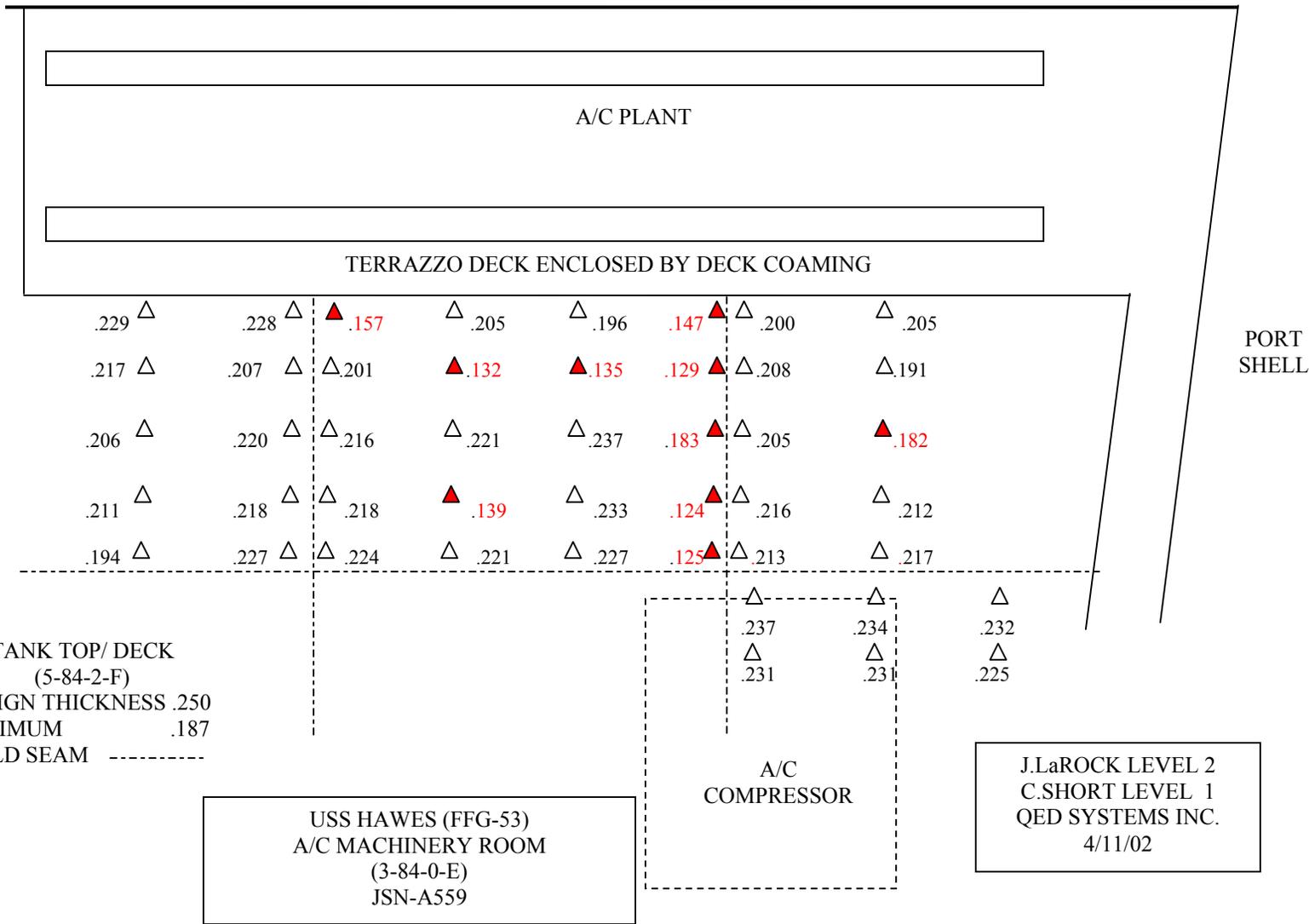


TANK TOP/DECK (5-84-2-F). ARROW INDICATES THINNING AREA. JSN-A559



TANK TOP IS THINNING ALONG WELD SEAM. REFER TO DRAWING FOR U/T READINGS.

BULKHEAD (100)



SECTION C

THESE ARE AREAS RELATED TO THE SHELL
AND SUPPORTING STRUCTURE THAT ARE
WITHIN THE CAPABILITY OF SHIPS FORCE
TO PERFORM.

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 5-292-0-E	WORK CENTER EM04	JSN A479	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.7	
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 100	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: AMR 3 (5-292-0-E) PORT SIDE AFT OF NO 4 SSDG, FRAME (316) TO FRAME (328). AREA FROM DECK LEVEL TO THE 4TH STRINGER UP HAS APPROXIMATELY 60 SF OF SURFACE RUST AND PAINT SCALING ON SHELL AND STRINGERS.					
RECOMMENDED REPAIRS: RECOMMEND SHIPS FORCE CLEAN AREA TO BARE METAL, APPROX. 60 SF, PRIME AND PAINT USING EURO-NAVY COATING.					
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N TAGLIANETTI					
CSMP SUMMARY: CORROSION/PAINT SCALING ON SHELL				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK / C. SHORT QED SYSTEMS INC.			TD	TL	LOGISTICIAN TSP

USS HAWES (FFG-53)
AUXILIARY MACHINERY ROOM 3(5-292-0-E)
PORT SIDE



PORT SIDE AFT OF NO.4 SSDG



CORROSION ON STRINGER AT OVBD DISCHARGE.
U/T READINGS SHOW NO SIGNIFICANT LOSS.
JSN-479

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS HAWES (FFG-53)																																								
SYSTEM SHELL & SUPPORTING STRUCTURE 110		ESWSB 11011		EIC A100		APL X-SYSTEMS		RIN N/L																																				
EQUIPMENT NAME HULL STRUCTURE 1102XY			IDENT/SERIAL N/A		LOCATION 5-212-0-E		WORK CENTER EMO4		JSN A558																																			
EQUIPMENT STATUS			PROBLEM STATUS			CATEGORY			EOC																																			
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD			1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4.S - SHIP'S FORCE *UNCORRECTED PROBLEMS			1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			.7																																			
TYPE/AVAILABILITY		WHEN TO BE ACCOMPLISHED		STATUS		CAUSE		DEFERRAL REASON																																				
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL		1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY		1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE		1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE																																				
MAN HRS EXPENDED 2		MAN HRS REMAINING 100		COMPLETED ACTION TAKEN			S/F MANHOURS		PRIORITY																																			
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL				1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION				1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE																																				
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: AUX.2 (5-212-0-E) STARBOARD SIDE LOWER																																												
LEVEL.AFT OF FRAME (220) BETWEEN LL DECK PLATING AND UPPER LEVEL. APPROXIMATELY 40 SF OF SATURATED HULL INSULATION HIDING CORROSION AND HEAVY PAINT SCALING.																																												
RECOMMENDED REPAIRS:																																												
RECOMMEND SHIPS FORCE REMOVE INSULATION, CLEAN AREA TO BARE METAL, PRIME AND PAINT USING EURO-NAVY COATING.																																												
REPLACEMENT OF HULL INSULATION NOT RECOMMENDED.																																												
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N. TAGLIANETTI																																												
CSMP SUMMARY:							TEST# MRC 1102/1																																					
ROOT CAUSE/AMPLIFICATION: H1							STEP# 1,2,3,4 & 5																																					
SYSTEM LEVEL IMPACT:																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">PART NO.</th> <th style="width: 50%;">NOMENCLATURE</th> <th style="width: 10%;">QTY</th> <th style="width: 10%;">NSN</th> <th style="width: 20%;">COST</th> </tr> </thead> <tbody> <tr><td>1</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>2</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>3</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>5</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>6</td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>										PART NO.	NOMENCLATURE	QTY	NSN	COST	1					2					3					4					5					6				
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5																																												
6																																												
FIRST CONTACT HENDRICK		RATE DCC		SECOND CONTACT GREEN		RATE MR2		PHONE																																				
ASSESSOR / ACT / TECH ID# J. LaROCK / C. SHORT QED SYSTEMS INC.				TD	TL		LOGISTICIAN		TSP																																			

USS HAWES (FFG-53)
AUXILIARY MACHINERY ROOM 2 (5-212-0-E)
PORT SIDE LOWER LEVEL



CORROSION HIDDEN BY SATURATED HULL INSULATION BETWEEN FRAMES (220-228)
JSN-A558

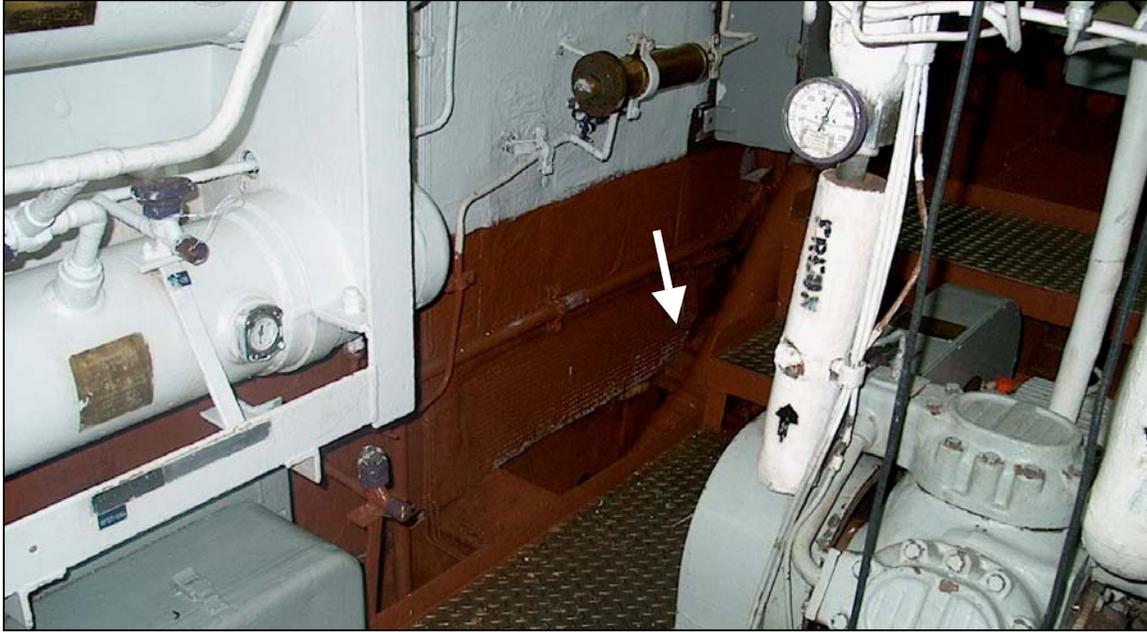


CORROSION ON SHELL AND STRINGERS AT FRAME (228)

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 5-180-0-E	WORK CENTER EM04	JSN A525	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.8	
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 100	COMPLETED ACTION TAKEN	S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION	1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE		
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: AMR1 (5-180-0-E) APPROX.6 FEET INBOARD					
OF PORT SIDE SHELL ON BHD (204) BELOW DRAIN LINE. CLOGGED DRAIN LINE IS OVER FLOWING ON TO SHELL AND CAUSING					
CORROSION AND PAINT SEPARATION.					
RECOMMENDED REPAIRS:					
RECOMMEND SHIPS FORCE REPAIR CLOGGED DRAIN LINE, POWER CLEAN LOWER 2 FT. OF BHD (204) .POWER CLEAN APPROX. 60 SF SHELL FROM PORT OVER BOARD DISCHARGE AND FWD OF BHD (204).					
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N TAGLIANETTI					
CSMP SUMMARY: CLOGGED DRAIN LINE/ RUST AND CORROSION ON BHD AND SHELL				TEST # MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE	QTY	NSN	COST	
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK / C. SHORT QED SYSTEMS INC.		TD	TL	LOGISTICIAN	TSP

USS HAWES (FFG-53)
AUXILIARY MACHINERY ROOM 1(5-180-0-E)



BULKHEAD (204) ARROW INDICATES LOCATION OF CORROSION.



CORROSION ON BHD(204) AND SHELL.
JSN-A525

USS HAWES (FFG-53)
AUXILIARY MACHINERY ROOM 1 (5-180-0-E)



OVER FLOW FROM CLOGGED DRAIN IS CAUSING CORROSION ON THE SHELL AND
BULKHEAD (204)
JSN-A525

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 4-172-1-E	WORK CENTER EM04	JSN A481	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.9	
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 1	MAN HRS REMAINING 100	COMPLETED ACTION TAKEN	S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: FIRE PUMP ROOM (4-172-1-E) STBD SHELL MARGIN PLATE AND BHDS (172-180) HAVE APPROX. 60 SF. OF SURFACE RUST AND PAINT SEPARATION. ZINC ANNODE IS DETERIORATED.					
RECOMMENDED REPAIRS: RECOMMEND SHIPS FORCE REMOVE ZINC ANNODE, POWER CLEAN AREA TO BARE METAL PRIME AND PAINT USING EURO-NAVY COATING. REPLACE ZINC ANNODE.					
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N TAGLIANETTI					
CSMP SUMMARY: ZINC ANNODE DETERIORATED/CORROSION ON SHELL				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE	QTY	NSN	COST	
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK / C. SHORT QED SYSTEMS INC.		TD	TL	LOGISTICIAN	TSP

USS HAWES (FFG-53)
FIRE PUMP ROOM (4-172-1-E)



DETERIORATED ZINC ANNODE,SURFACE RUST AND PAINT SCALING OUTBOARD OF FIRE PUMP. JSN-A481



CORROSION ON SHELL, MARGIN PLATE AND BULKHEAD (172)

CSMP REVIEW

ITEM NUMBER				SHIP USS HAWES (FFG-53)			
SYSTEM STRUCTURAL		ESWBS 6621	EIC A 500000	APL X-SYSTEMS		RIN N/L	
EQUIPMENT NAME APU ROOM		IDENT/SERIAL		LOCATION 4-100-0-E	WORK CENTER EM03		JSN P625
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE 4. D - DOWN 5. L - LIMITED			
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE		DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY DEADLINE DATE: 03/01/03	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE		1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED	MAN HRS REMAINING	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY		
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE		
PER SEMAT-1 INSPECTION APU ROOM (4-100-0-E) PORT AND STBD SHELL STRUCTURE WERE FOUND CORRODED BETWEEN FR 100 AND FR 108. THE SHELL (APPROX. 32 SQ. SF) IS LOCATED BELOW THE DECK GRATING AND INCLUDES SHELL PLATE MARGIN PLATE AND BLKHDS. ### TOTAL 64 SQ. SF. ###XXX REMOVE CORROSION AND PRESERVE. DEADLINE DATE: 1MAR 2003. RECOMMEND REPAIR DURING POST DEPLOYMENT AVAILABILITY. ASSESSED BY D.SMITH/R.MANALANG, POC J.BRUCKNER, SPORT CODE 221, DSN 961-4001, COMM (757) 396-4001. / ASSESS/ SEMAT-1/ NORFOLK /D/UNSAT/SF/I /0.9/1201/1 /1.A/**/ TECH/D.SMITH/R.MANAL/SPORT 221 /(757) 396-4001/* ### PE:TOTAL 64 SQ. SF. ### VP-03/29/01 ### 1361310862C68 01-OCT-0030-SEP-10							
CSMP SUMMARY:						TEST#	
APU RM (4-100-0-E) CORRODED							
ROOT CAUSE/AMPLIFICATION						STEP#	
SYSTEM LEVEL IMPACT:							
TECHNICIAN MARK APPROPRIATE BLOCKS:				UPLOAD VALIDATION INFORMATION / CORRECTIONS TO SNAP:			
2-KILO IS: X VALID (NO CORRECTIONS) REWRITE (VALID) _____ FOUND COMPLETE _____ COMPLETED BY SEMAT _____ CANCEL (WORK NOT REQUIRED) _____ NOT VALIDATED _____ _____				YES _____ NO _____			
FIRST CONTACT	RATE	SECOND CONTACT GANDY		RATE	PHONE		
BLUEPRINTS: TECH MANUALS, PLANS, ETC.						ON BRD YES NO	
ASSESSOR: J. LAROCK / C. SHORT QED SYSTEMS INC.				TD	TL	LOGISTICIAN	PAGE NO
CODE							

USS HAWES (FFG-53)
AUXILIARY PROPULSION MACHINERY ROOM (4-100-0-E)



STARBOARD BILGE AREA BETWEEN BULKHEAD (100) AND CONTROL PANELS.
CSMP-JSN P625

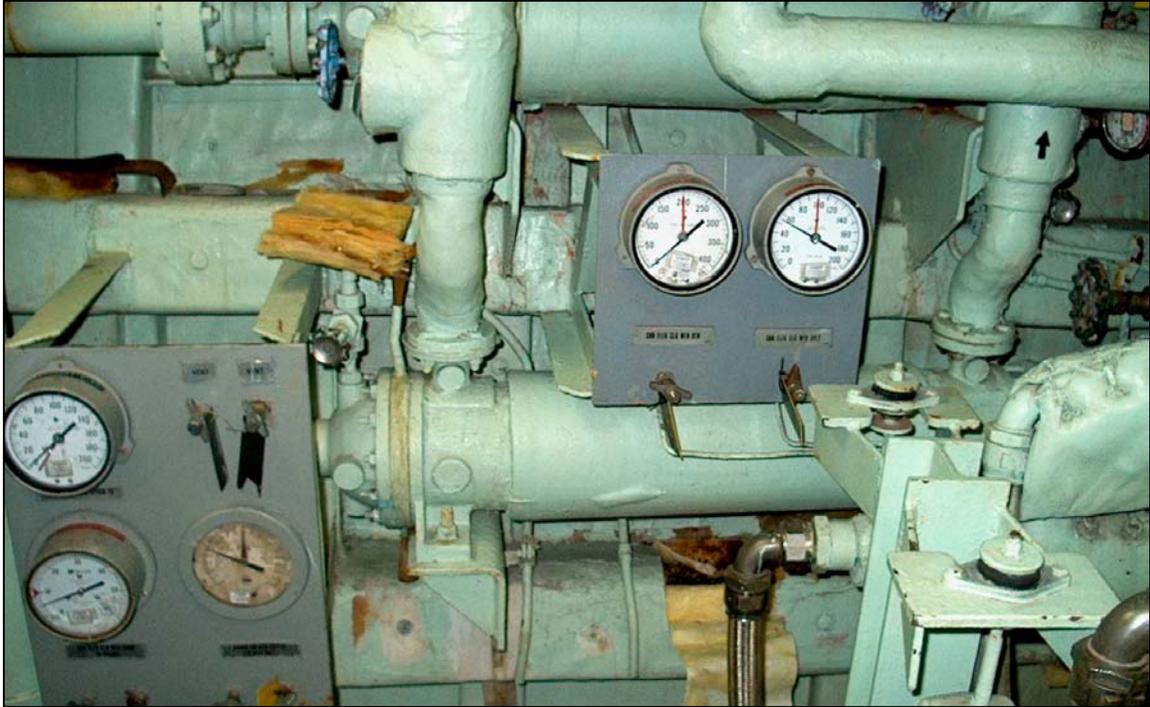


SHELL PLATING AT BULKHEAD (100) STARBOARD SIDE.

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS HAWES (FFG-53)			
SYSTEM SHELL & SUPPORTING STRUCTURE 110	ESWBS 11011	EIC A100	APL X-SYSTEMS	RIN N/L	
EQUIPMENT NAME HULL STRUCTURE 1102XY	IDENT/SERIAL N/A	LOCATION 4-48-1-Q	WORK CENTER EM04	JSN A524	
EQUIPMENT STATUS	PROBLEM STATUS	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTORY 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD	1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H - HARDWARE	4. D - DOWN 5. L - LIMITED	.8	
TYPE AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 0. NOT APPLICABLE	1. S/F BACKLOG/OPERATIONAL PRIORITY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 0. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 1	MAN HRS REMAINING 200	COMPLETED ACTION TAKEN	S/F MANHOURS	PRIORITY	
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 7. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 0. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: SONAR COOLING EQUIPMENT RM (4-48-1-Q)					
HULL INSULATION IS SATURATED, CAUSING CORROSION ON THE SHELL AND STRINGERS. APPROXIMATELY 64 SF.					
RECOMMENDED REPAIRS:					
RECOMMEND SHIPS FORCE REMOVE ALL HULL INSULATION, POWER CLEAN CORRODED AREAS TO BARE METAL, PRIME AND PAINT WITH AN ANTI-SWEAT COATING. REPLACEMENT OF INSULATION IS NOT RECOMMENDED.					
SSPORT C221 POC: A.DAVIS (757-396-4001) TPOC: N TAGLIANETTI					
CSMP SUMMARY:				TEST #	
SATURATED INSULATION/CORROSION ON SHELL AND STRINGERS				MRC 1102/1	
ROOT CAUSE/AMPLIFICATION:				STEP#	
H1				1,2,3,4 & 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE	QTY	NSN	COST	
1					
2					
3					
4					
5					
6					
FIRST CONTACT HENDRICK	RATE DCC	SECOND CONTACT GREEN	RATE MR2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK / C. SHORT QED SYSTEMS INC.		TD	TL	LOGISTICIAN	TSP

USS HAWES (FFG-53)
SONAR COOLING EQUIPMENT ROOM (4-48-1-Q)



SONAR COOLING EQUIPMENT IS PRODUCING CONDENSATION THAT IS SATURATING HULL INSULATION, CAUSING CORROSION. JSN-A524



FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
3RD DECK					
3-20-0-Q	N	N	Y		SPACE REQUIRES GAS FREE
3-32-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-32-1-K	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-36-1-A	Y	Y	Y		
3-36-2-T	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-40-2-A	Y	Y	Y		
3-46-1-A	Y	Y	Y		
3-48-2-A	Y	Y	Y		
3-53-2-A	Y	Y	Y		
3-56-0-A	Y	Y	Y		
3-64-2-V	NOT DURING SHIP CHECK	N	Y		SPACE REQUIRES GAS FREE
3-64-1-V	NOT DURING SHIP CHECK	N	Y		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
3RD DECK					
3-84-0-E	Y	Y	Y	FRS 94-100 STBD SIDE SHELL, DECK TO OVERHEAD FR 95, PORT SIDE, ON TANK TOP	ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT SIDE SHELL ASSESSABLE) ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA - STBD FWD BHD 84 TO FRAME 93, 5'-6" OFF DECK ELECT PANELS)
3-93-1-Q	Y	Y	Y		ACCESSIBLE LAGGING 100% STBD SIDE
3-100-0-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA PORT AND STBD FROM FRAME 115 TO AFT BHD 140, 6' 3" OFF DECK - BUNKS)
3-100-1-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 100 TO 113)
3-113-0-L	Y	Y	Y	FR 113-124, STBD SIDE OF SHELL, DECK TO OVERHEAD	LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 113 TO 123)
3-140-2-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 140 TO 155)

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
3RD DECK					
3-140-1-L	Y	Y	Y		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAMES 140 TO 155)
3-144-0-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA, PORT & STBD FRAME 165 TO 180, 6'3" OFF DECK BUNKS)
3-156-2-Q	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT SIDE SHELL ASSESSABLE)
3-154-1-Q	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-2-C	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-5-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-196-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-236-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-236-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-240-1-F	Y	N	Y		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
3RD DECK					
3-240-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-272-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-272-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-278-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-278-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-286-2-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-286-1-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-292-8-F	Y	N	Y		SPACE REQUIRES GAS FREE
3-316-1-J	Y	N	Y		SPACE REQUIRES GAS FREE
3-322-1-J	Y	N	Y		SPACE REQUIRES GAS FREE
3-328-0-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
4TH DECK					
4-H-0-V	Y	N	Y		SPACE REQUIRES GAS FREE
4-20-0-W	Y	N	Y		SPACE REQUIRES GAS FREE
4-27-0-V	N	N	Y		SPACE REQUIRES GAS FREE FR 27 FR 32 P/S FROM 3' UP 26' 4 1/16
4-32-0-Q	Y	N	Y		
4-48-2-L	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-48-1-Q	Y	Y	Y	FR 49-55 STBD SIDE OF SHELL, 4'-0' OFF DECK	ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA FRAME 50 TO AFT BHD 56, 4'-0' OFF DECK HEATEX & PPG)
4-56-2-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-56-0-M	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
4TH DECK					
4-64-0-Q	Y	N	Y		
4-100-0-E	Y	Y	Y	FR 100-101 STBD SIDE OF SHELL 6'BELOW GRATING	ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT & STBD SHELL ASSESSABLE)
4-100-0-Q	Y	Y	Y	TANK TOP FOR 5-140 & 5-164-2F	STAINLESS STEEL 100% (100% OF PORT SIDE SHELL ASSESSABLE)
4-140-3-A	Y	N	Y		ACCESSIBLE HIDDEN LAGGED 100%(100% OF SHELL ASSESSABLE)
4-152-1-A	Y	N	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-160-0-Q	Y	N	Y		100% OF PORT AND STBD SHELL ASSESSABLE
4-172-1-E	Y	Y	Y	FR 174-180 STBD OF SHELL 6" BELOW GRATING BETWEEN L7-L9	100% OF PORT & STBD SHELL ASSESSABLE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-FF-0-V	N	N	N		INACCESSIBLE VOID FR 18 - FR 32, P/S. FROM STEM UP 4FT. FR 5 - FR 18, P/S. FROM STEM UP ~6FT; FR E -12, P/S. FROM STEM UP ~10FT
5-32-0-W	N	N	Y		SPACE REQUIRES GAS FREE
5-51-0-Q	Y	N	Y		100% OF PORT & STBD SHELL ASSESSABLE
5-56-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-64-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-84-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-84-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-100-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-100-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-100-4-F	N	N	Y		SPACE REQUIRES GAS FREE
5-100-3-F	N	N	Y		SPACE REQUIRES GAS FREE
5-116-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-116-1-F	N	N	Y		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
51/2-116-0-V	N	N	N		INACCESSIBLE VOID FR 116 - FR 132, P/S FROM KEEL UP ~4FT
5-132-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-137-1-T	N	N	N		SPACE REQUIRES GAS FREE
5-140-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-140-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-164-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-170-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-180-0-E	Y	Y	Y	FRAME 180, PORT 15'-0" OFF CL, 8' SQFT	SHELL NON-ASSESSABLE ON PORT SIDE FRAME 180 TO 195, FRAME 204 TO 212, OVERHEAD TO BILGE, TANK & FND
5-180-01-E	Y	Y	Y		100% OF STBD SHELL ASSESSABLE
5-192-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-201-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-201-3-F	N	N	Y		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-204-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-204-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-212-0-E(UL)	Y	Y	Y	FRS 215-220 PORT SIDE OF SHELL, U/L BETWEEN L13-L14	ACCESSIBLE HIDDEN LAGGED UPPER LEVEL. (NOT ACCESSIBLE AREA, PORT SIDE FRAME 220 TO 224, 5'-0" OFF U/L GRATING VOLTAGE REGULATOR)
5-212-0-E(LL)	Y				ASSESSABLE HIDDEN, LAGGED LOWER LEVEL, ACCESSIBLE AREA PORT FRAME 212 TO 228, L10 TO BILGE AREA, STBD FRAME 212 TO 228 L8 TO BILGE AREA. (NOT ACCESSIBLE AREA - PORT & STBD FRAME 228 TO 250, FROM U/L TO BILGE AREA FUEL OIL HEATER)
5-220-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-222-1-F	N	N	N		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-226-2-E	Y	Y	Y		SHELL NON-ASSESSABLE FRAME 225 TO 229, 4'-2" OFF U/L GRATING, FRAME 235 TO 250, 6'-3" OFF U/L GRATING - AIR FLASK, MANIFOLD & FUEL TANK
5-226-1-E	Y	Y	Y		SHELL NON-ASSESSABLE FRAME 225 TO 229, 4'-2" OFF U/L GRATING, FRAME 235 TO 250, 6'-3" OFF U/L GRATING, AIR FLASK, MANIFOLD & FUEL TANK
5-250-0-E	Y	Y	Y	FR 271-272 PORT SIDE OF SHELL TOP OF L0 TANK TOP	LAGGED EXCEPT FOR BILGE AREA, AT 18" ABOVE GRATING INTO BILGE AREA, (SHELL NON-ASSESSABLE ON PORT 1'-0" AFT OF FRAME 270 TO FRAME 292, FROM 5'-0" OFF GRATING, STBD FRAME 265 TO 270 FROM 1'-0" FROM OVERHEAD TO 6" BELOW GRATING, 14" AFT OF FRAME 270 TO 273, 5'-0" OFF GRATING POWER PANELS)

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-250-0-E (CONT'D)	Y	Y	Y	FR 250 PORT SIDE OF SHELL, BETWEEN L9-L12	
5-250-0-E (CONT'D)	Y	Y	Y	FR 258-264 STBD SIDE OF SHELL, BETWEEN L9-L12	
5-250-1-F	N	N	N		SPACE REQUIRES GAS FREE
5-250-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-270-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-276-0-F	N	N	N		SPACE REQUIRES GAS FREE
5-290-2-F	N	N	N		SPACE REQUIRES GAS FREE
5-292-0-E	Y	Y	Y	FR 316-328 PORT SIDE OF SHELL BETWEEN L5-L9	ACCESSIBLE HIDDEN LAGGED, ASSESSABLE AREA PORT FRAME 292 TO 318, DK GRATING TO OVERHEAD (SHELL NON-ASSESSABLE ON PORT FRAME 318 TO 328, 2'-0" FROM GRATING TO OVERHEAD OF SPACE, STBD FRAME 292 TO 300, 3'-0" OFF GRATING

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-292-0-E (CONT'D)	Y	Y	Y	FR 316-328 PORT SIDE OF SHELL BETWEEN L5-L9	TO OVERHEAD, FRAME 305 TO 308, 3'-0" OFF GRATING TO OVERHEAD, FRAME 313 TO 328, 6'-3" OFF GRATING & POWER PANELS
5-292-0-E (CONT'D)			Y	FR 292-328 PORT SIDE OF SHELL BETWEEN L1-L3	
5-292-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-292-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-292-3-W	N	N	N		SPACE REQUIRES GAS FREE
5-308-2-W	N	N	N		SPACE REQUIRES GAS FREE
5-308-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-328-0-J	N	N	N		SPACE REQUIRES GAS FREE
5-328-2-W	N	N	N		SPACE REQUIRES GAS FREE

FFG-7 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE NUMBER	SPACE ASSESSABLE	LAGGING INSTALLED ON BHD	IS THE SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
5TH DECK					
5-328-1-W	N	N	N		SPACE REQUIRES GAS FREE
5-344-0-J	N	N	N		SPACE REQUIRES GAS FREE
5-368-0-V	N	N	N		SPACE REQUIRES GAS FREE
5-386-0-V	N	N	N		INACCESSIBLE VOID FRAME 386 TO 392, P/S, FROM KEEL UP ~2FT; FRAME 392 TO 400, S, FROM KEEL UP ~2FT; FRAME 400 TO 408 P/S FROM KEEL UP ~2FT
5-392-0-V	N	N	N		SPACE REQUIRES GAS FREE
5-368-0-E	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
5-376-1-A	Y	Y	Y		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)