

USS UNDERWOOD (FFG 36)

SEMAT II SHELL CONDITION ASSESSMENT SURVEY
INTERIOR AREAS

7/23/01 TO 8/3/01



PREPARED BY
SUPERVISOR OF SHIPBUILDING CONVERSION AND REPAIR
PORTSMOUTH, VIRGINIA

8/8/01



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9 July 2001
Serial #1697AT-15

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 UNDERWOOD (FFG-36) during the period of 23 July 2001 – 3 August 2001.

The survey was conducted by Francis J. (Joe) LaRock II, Certified Level I on 9 March 2001.

The instrument used was a Kraut Kramer Branson, Model DMS-2.

Serial Number: 00N3V8
Calibration Date: 22 February 2001
Probes Used: TC 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.


Francis J. LaRock
Certified Level II
9 March 2001

FJI:hiw

USS UNDERWOOD (FFG-36)

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SHELL CONDITION ASSESSMENT SURVEY SUMMARY

Interior Areas

A Semat II Shell and Supporting Structure survey of all accessible interior areas was conducted on board the USS UNDERWOOD (FFG-36) at NAVAL STATION MAYPORT in Mayport Florida, from 23, July through 03, AUGUST 2001.

The survey was conducted in accordance with Hull Structure MRC 1102 using a Delmhorst model BD 2100 moisture meter and a Krautkramer Branson model DM2TC ultrasonic test instrument, serial no. 00NV8 calibration due date; 02/22/02.

During the survey, areas historically prone to corrosion (hot spots) on (FFG-7) class vessels were inspected and noted along with other areas where corrosion was found. The most critical area found was the hull thinning on the starboard side of the Main Engine Room. The corrosion in Sonar Cooling is caused by water being trapped under the lagging. Removing the lagging on the shell plate and stringers and painting the entire area with anti-sweat paint will reduce the corrosion problem.

USS UNDERWOOD'S condition was better than average for (FFG-7) class ships.

FFG-36 STRUCTURAL INSPECTION RESULTS
UNSATISFACTORY AREAS.

LOCATION	AREA	RESULTS
5-292-0-E AUX 3	STBD SIDE, BETWEEN BHD (292) AND WF (300) UNDER HOT POTABLE WATER ACCUMULATOR TANK, STRINGER (8)	STRINGER (8) IS HOLED WITH HEAVY DETERIORATION.
5-292-0-E AUX 3	PORT SIDE, BETWEEN BHD (292) AND WF (300) INSIDE THE #4 SSDG ENCLOSURE	APPROXIMATELY 80 SF OF SHELL PLATE AND STRINGERS HAS SURFACE RUST AND HEAVY PAINT SEPARATION.
5-292-0-E AUX 3	PORT SIDE, FROM WF (316) TO BHD (328) STRINGERS (7-12)	STRINGERS (7-12) HAVE APPROXIMATELY 42 SF OF SURFACE RUST AND PAINT SEPARATION.
5-292-0-E AUX 3	INBOARD SIDE, WATER TANK (5-292-1-W) APPROXIMATELY 3 FT AFT OF BHD (292)	APPROXIMATELY 6 SQ INS. OF HEAVY PITTING ON THE INBOARD SIDE / TOP, AND APPROXIMATELY 50 SF OF ENTIRE TANK TOP HAS RUST AND PAINT SEPARATION.
5-292-0-E AUX 3	PORT SIDE, POTABLE WATER TANK TOP (5-308-2-W)	APPROXIMATELY 40 SF OF HEAVY RUST AND PAINT SEPARATION.
5-250-0-E MER	STBD SIDE, BETWEEN WF (258-264), APPROXIMATELY 10" AFT OF WF (258) ON STRINGER (11) AND SHELL PLATE AT STRINGER (11) FROM WF (258) TO APPROXIMATELY 3' AFT	APPROXIMATELY 3 SF OF SHELL PLATE IS THINNING AND STRINGER (11) IS HOLED.
5-250-0-E MER	PORT SIDE, APPROXIMATELY 2' AFT OF WF (264) BETWEEN STRINGERS (9-10)	APPROXIMATELY ONE 2" X 3" PIT WAS FOUND AND SURROUNDING AREA HAS SURFACE RUST AND PAINT SEPARATION.
5-250-0-E MER	PORT SIDE, BETWEEN BHD (250) AND WF (264) STRINGERS (10-11)	APPROXIMATELY 16 SF OF RUST AND PAINT SEPARATION.
5-250-0-E MER	STBD SIDE, FROM WF (264-270), STRINGERS (10-12)	APPROXIMATELY 24 SF OF SURFACE RUST AND PAINT SEPARATION.
5-212-0-E AUX 2	PORT SIDE, BETWEEN BHD (212) AND WF (220), FROM STRINGERS (10-13)	SHELL PLATING HAS RUST AND PAINT SEPARATION AND STRINGERS (10-13) ARE FILLED WITH WATER APPROXIMATELY 80 SF.
5-212-0-E AUX 2	STBD SIDE, BETWEEN WF (246-244) BILGE AREA AND STRINGERS (3-5)	STRINGERS (3-5) AND BILGE AREA HAVE APPROXIMATELY 32 SF OF SURFACE RUST AND PAINT SEPARATION.
5-180-0-E AUX 1	PORT SIDE, FROM STRINGERS (4-9), AT BHD (204)	APPROXIMATELY 32 SF OF AREA HAS RUST AND PAINT SEPARATION.
5-51-0-Q FWD EDUCTOR ROOM	FWD EDUCTOR ROOM, STRINGER (1), FIRST VERTICAL STIFFNER AFT FO BHD (51), SECOND VERTICAL STIFFNER AFT OF BHD (51), SHELL PLATE AND ENTIRE BILGE AREA.	FLANGE ON STRINGER (1) AND ON FIRST VERTICAL STIFFNER AFT OF BHD (51) ARE CORRODED AND SECOND VERTICAL STIFFNER AFT OF BHD (51) IS HOLED. SHELL AND BILGE AREA HAS SURFACE RUST AND PAINT SEPARATION. APPROXIMATELY 100 SF
4-172-1-E FIRE PUMP ROOM	STBD SIDE, BILGE POCKET	APPROXIMATELY 24 SF OF BILGE POCKET HAS SURFACE RUST AND PAINT SEPARATION.
4-160-0-Q CHT ROOM	STBD SIDE, BETWEEN BHD (160) AND WF (164) STRINGERS (8-9)	STRINGERS (8-9) ARE HOLED, APPROXIMATELY 8 LF OF 6 X 6 1/2 T-BEAM
4-100-0-E APU	PORT AND STBD SIDE BILGE POCKETS	BOTH STBD AND PORT BILGE POCKETS ARE FULL OF WATER, SURFACE RUST AND PAINT SEPARATION. APPROXIMATELY 64 SF.
4-48-1-Q SONAR COOLING ROOM	STBD SIDE, THIRD VERTICAL STIFFNER AFT OF BHD (48)	THIRD VERTICAL STIFFNER AFT OF BHD (48) HAS A HOLE, APPROXIMATELY 6 LF OF (3"X2") VERTICAL STIFFNER.
4-48-1-Q SONAR COOLING ROOM	STBD SIDE, SHELL PLATE	APPROXIMATELY 32 SF OF SATURATED LAGGING, CORROSION AND PAINT SEPARATION.

FFG-36 STRUCTURAL INSPECTION RESULTS
SATISFACTORY AREAS.

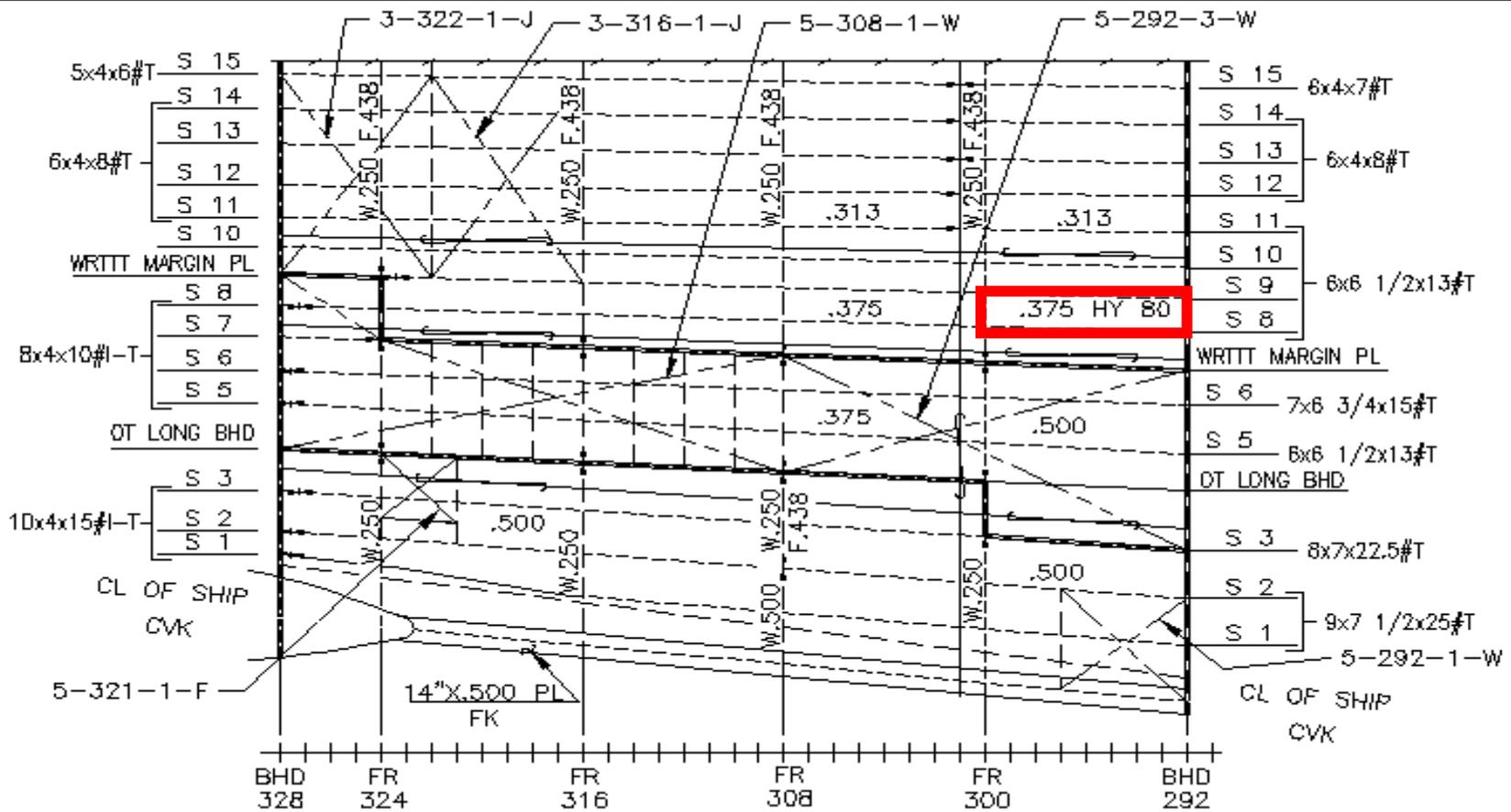
LOCATION	AREA	RESULTS
3-32-1-K	FLAMMABLE LIQUID STORAGE	SAT
3-36-2-T	TRUNK	SAT
3-46-1-A	SPECIAL CLOTHING STORE ROOM	SAT
3-48-2-A	STORAGE ROOM	SAT
3-53-2-A	STORAGE ROOM	SAT
3-56-1-A	STORAGE ROOM	SAT
3-84-0-E	A/C MACHINERY ROOM	SAT
3-93-1-Q	ELECTRICAL EQUIPMENT ROOM	SAT
3-100-0-L	BERTHING SPACE	SAT
3-100-1-L	CREW LOUNGE	SAT
3-113-0-L	SANITARY SPACE	SAT
3-140-1-L	CREW BERTHING	SAT
3-144-1-L	CREW LOUNGE	SAT
3-154-1-Q	EQUIPMENT ROOM	SAT
3-156-2-Q	PIPING SPACE	SAT
3-180-2-C	SWITCH GEAR ROOM	SAT
3-328-0-A	SUPPLY STORE ROOM	SAT
4-32-0-Q	SONAR EQUIPMENT ROOM	SAT
4-48-2-L	P-WAY	SAT
4-52-2-A	DECK STOWAGE	SAT
4-56-1-M	SMALL ARMS ROOM	SAT
4-140-0-Q	LAUNDRY	SAT
4-140-2-A	LAUNDRY STORE ROOM	SAT
4-140-3-A	REPAIR LOCKER	SAT
4-152-1-A	CHEMICAL WARFARE LOCKER	SAT
5-368-0-E	STEERING GEAR ROOM	SAT
5-393-1-A	STORE ROOM	SAT

**FFG-36 STRUCTURAL INSPECTION RESULTS
UNASSESSABLE AREAS.**

LOCATION	AREA	RESULTS
3-20-0-Q	CHAIN LOCKER	UNASSESSABLE/REQUIRES GAS FREE
3-64-2-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
3-64-1-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
3-236-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-236-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-240-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-240-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-272-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-272-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-278-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-278-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-286-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-286-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-292-8-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-316-1-J	JP5 FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
3-322-1-J	JP5 FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
4-H-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
4-27-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-FF-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-32-0-W	SALT WATER TANK	UNASSESSABLE/REQUIRES GAS FREE
5-56-0-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-64-0-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-84-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-84-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-100-3-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-100-4-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-116-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-116-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5½-116-0-V	VOID	UNASSESSABLE/REQUIRES GAS FREE
5-132-0-F	CONTAMINATED OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-137-1-T	UNDERWATER LOG TANK	UNASSESSABLE/REQUIRES GAS FREE
5-140-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-140-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-0-F	CONTAMINATED OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-164-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-170-0-F	CONTAMINATED OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-192-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-201-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-201-3-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-204-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-204-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-220-2-W	WASTE STORAGE TANK	UNASSESSABLE/REQUIRES GAS FREE
5-222-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-250-1-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-250-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-270-0-F	HYDRAULIC OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-276-0-F	LUBE OIL TANK	UNASSESSABLE/REQUIRES GAS FREE
5-290-2-F	FUEL TANK	UNASSESSABLE/REQUIRES GAS FREE

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 EMO4		JSN A341	
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 2	MAN HRS REMAINING 400	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: (5-292-0-E), STBD SIDE, BETWEEN BHD (292) AND WF (300) UNDER HOT POTABLE WATER ACCUMULATOR TANK STRINGER (8) HAS HEAVY DETERIORATION AND LARGE HOLES. UNABLE TO DO U/T SURVEY, DUE TO LOCATION. REFER TO PICTURE PAGE FOR REFERENCE.							
RECOMMENDED REPAIRS: CUT OUT AND REPLACE APPROXIMATELY 8 LINEAR FEET OF 6X6 T-BEAM. PRESERVE AND PAINT TO MATCHL. FTSC IS TO CONDUCT RISK ASSESSMENT AND MAKE FINAL REPAIR RECOMMENDATIONS.							
CSMP SUMMARY: STRINGER 8 IS HEAVILY DETERIORATED.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
					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 LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK / T. ILGENFRITZ QED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP



USS UNDERWOOD (FFG-36)
 AUXILIARY MACHINERY ROOM 3
 (5-292-0-E) STBD SIDE

RED BOX INDICATES LOCATION
 OF HOLE ON STRINGER 8
 PICTURE ON FOLLOWING PAGE

AUXILIARY MACHINERY ROOM 3 (5-292-0-E)



STRINGER 8 UNDER THE HOT POTABLE WATER ACCUMULATOR TANK
ARROW INDICATES HOLE IN WEB.

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)				
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 EMO4	JSN A343	
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		0. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		0. 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		
0. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	0. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	0. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 0. NOT APPLICABLE	0. 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 8. NOT APPLICABLE	0. 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 120	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: PORT SIDE (5-292-0-E) BETWEEN BHD (292) AND WF (300)						
INSIDE THE #4 SSDG ENCLOSURE. APPROXIMATELY 80SF OF SHELL PLATE AND STRINGERS HAS SURFACE RUST AND HEAVY PAINT SEPARATION.						
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 80SF OF AREA, PRESERVE AND PAINT TO MATCH.						
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI						
CSMP SUMMARY: PORT SIDE OF #4 SSDG ENCLOSURE HAS RUST AND PAINT SEPARATION.				TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:						
PART NO.	NOMEMCLATURE			QTY	NSN	COST
1						
2						
3						
4						
5						
6						
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP

AUXILIARY MACHINERY ROOM 3 (5-292-0-E)



OVBD DISCHARGE INSIDE THE SSDG ENCLOSURE HAS SURFACE RUST



SHELL PLATE AFT OF BHD (292) INSIDE SSDG ENCLOSURE.

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 EMO4		JSN A346	
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 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 180	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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT SIDE, (5-292-0-E) FROM WF (316) TO BHD (328)							
STRINGERS (7-12) APPROXIMATELY 46SF OF SURFACE RUST AND PAINT SEPARATION.							
SEE ATTACHED DRAWING FOR U/T READINGS							
RECOMMENDED REPAIRS: NEEDLE GUN APPROXIMATELY 46 SF OF AREA, PRIME AND PAINT TO MATCH							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: SURFACE RUST AND PAINT SEPARATION.					TEST # MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP # 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK / T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

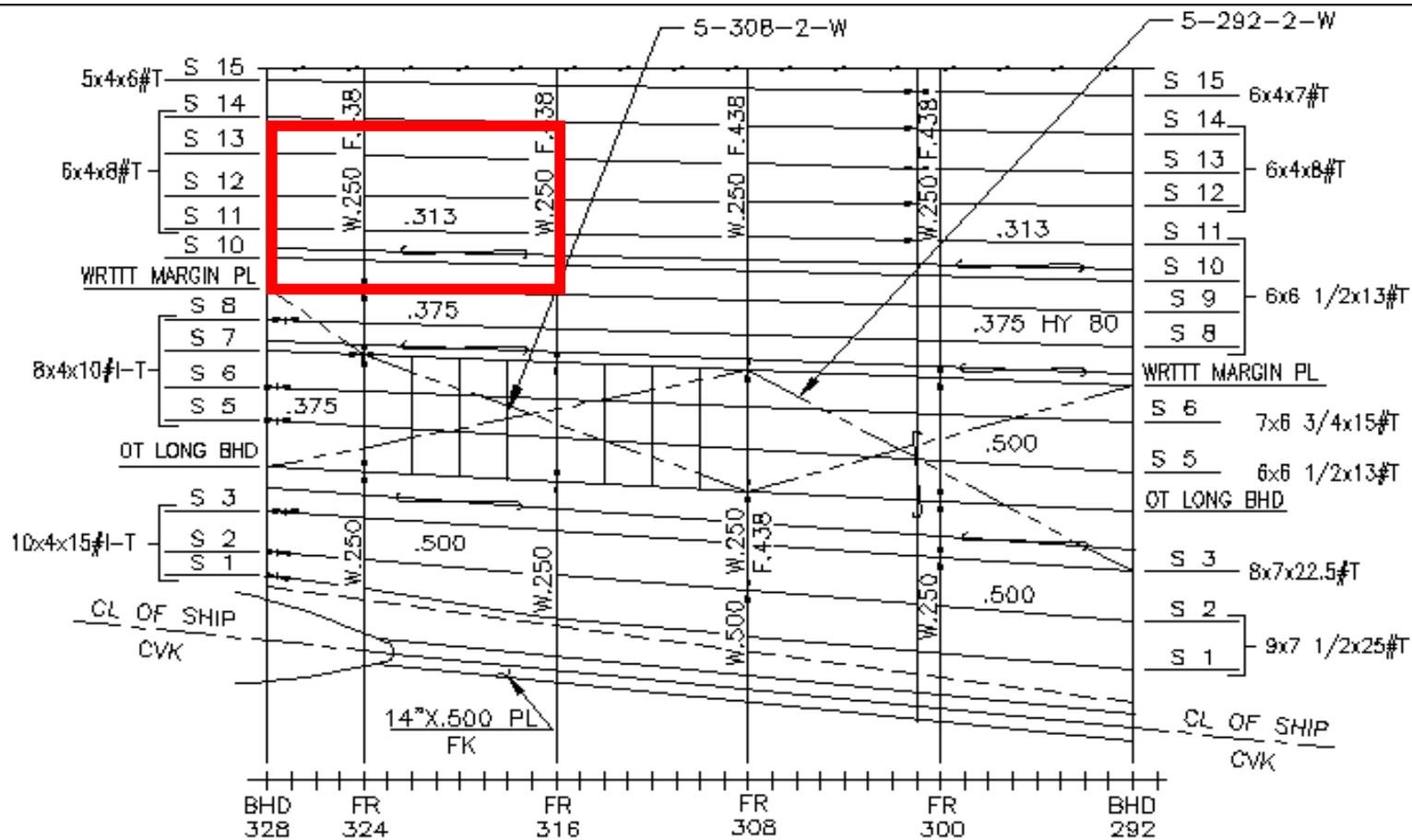
AUXILIARY MACHINERY ROOM 3 (5-292-0-E)



PORT SIDE, AREA WHERE U/T READINGS WERE TAKEN
REFER TO DRAWING.



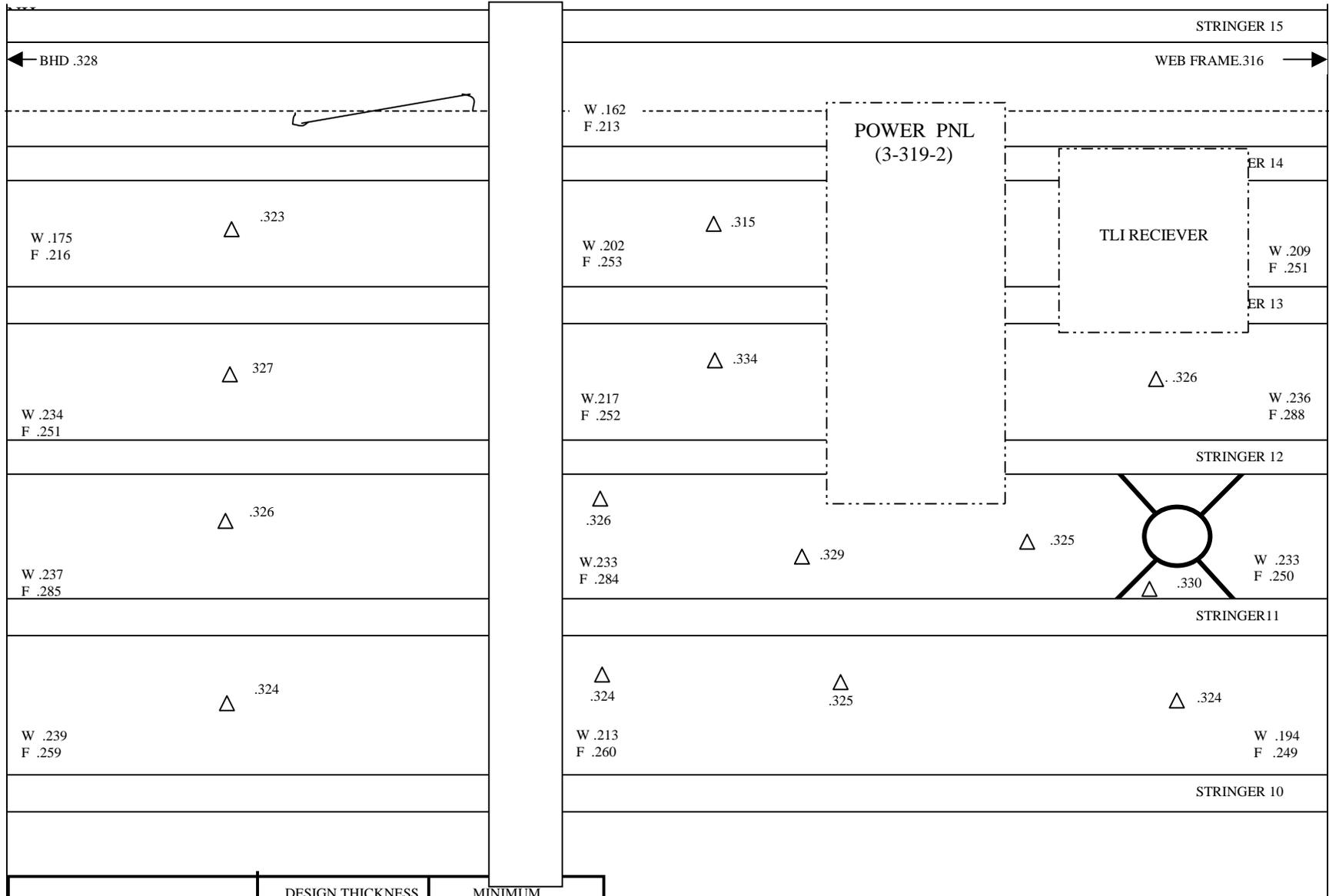
CLOSE UP OF BILGE AREA



USS UNDERWOOD (FFG-36)
 AUXILIARY MACHINERY ROOM 3
 (5-292-0-E) PORT SIDE

RED BOX INDICATES LOCATION
 OF U/T READINGS
 DRAWING ON FOLLOWING PAGE

WEB FRAME
.324



△	SHELL PLATE	DESIGN THICKNESS	MINIMUM
		.313	.234
W	STRINGER WEB	.220	.165
F	STRINGER FLANGE	.265	.198

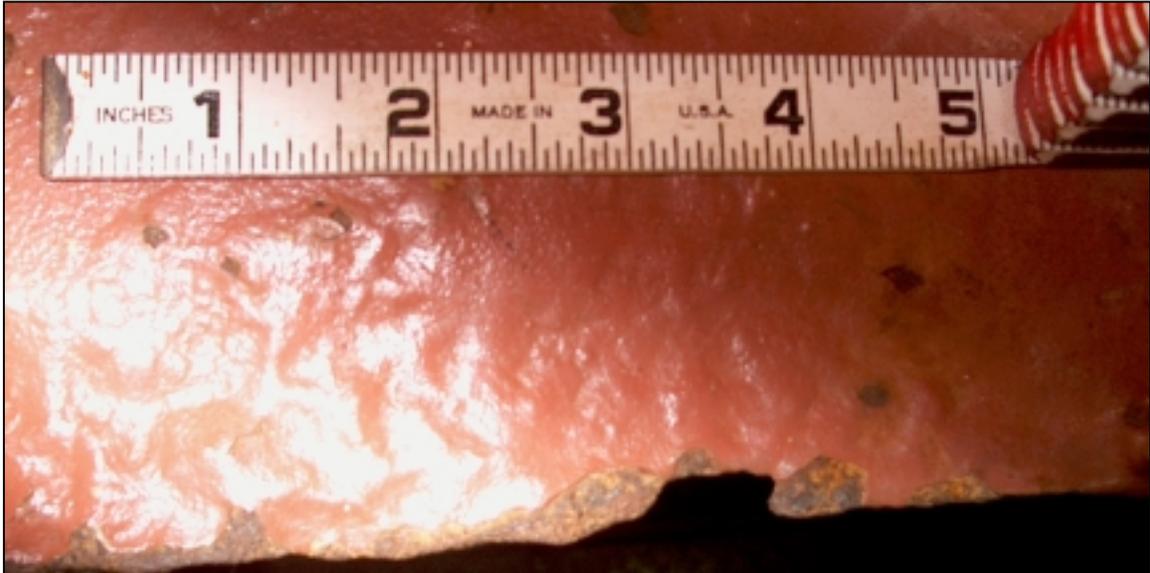
USS UNDERWOOD (FFG 36)
AUXILLIARY MACH RM 3
(5-292-0-E) PORT SIDE

J. LaROCK / T. ILGENFRITZ
QED SYSTEMS INC
07/24/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 EMO4	JSN A347		
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 2	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: WATER TANK (5-292-1-W) AFT OF BHD (292) HAS APPROXIMATELY 6 SQ. INS. OF HEA VY PITTING ON THE INBOARD SIDE ON TOP, APPROXIMATELY 3FT FROM BHD (292) AND ENTIRE TOP HAS SURFACE RUST AND PAINT SEPARATION APPROXIMATELY 50SF.							
REFER TO DRAWING FOR U/T READINGS.							
RECOMMENDED REPAIRS: REMOVE AND REPLACE APPROXIMATELY 1SF OF TANK TOP, WITH .250 STEEL. NEEDLE-GUN APPROXIMATELY 50SF OF TANK TOP, PRESERVE AND PAINT TO MATCH.							
FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: WATER TANK (5-292-1-W) HAS PITS AND HEAVY PAINT SEPARATION.				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

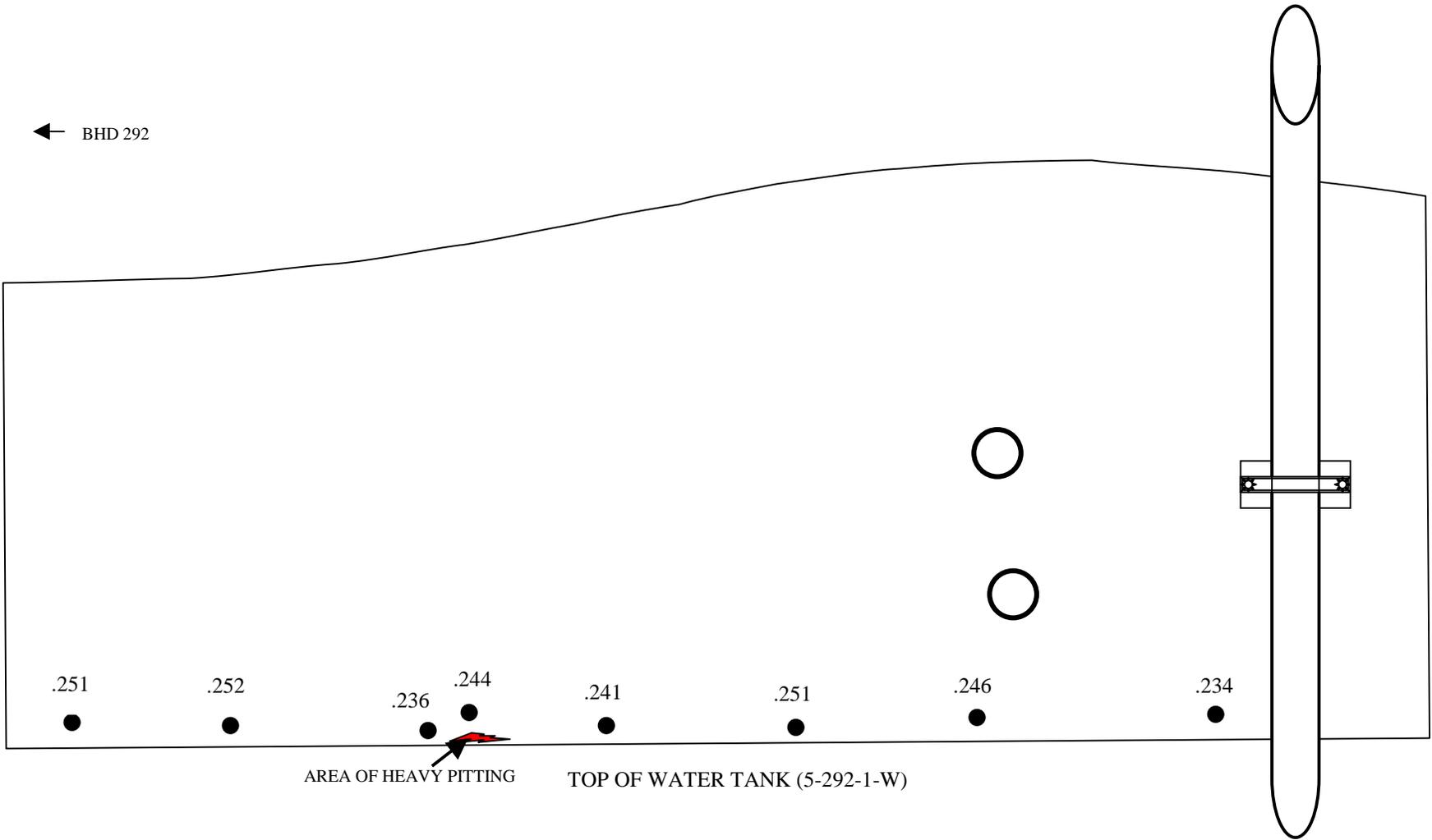
AUXILIARY MACHINERY ROOM 3 (5-292-0-E)



TOP OF WATER TANK (5-292-1-W)
WHERE LOW U/T READINGS WERE TAKEN.
REFER TO DRAWING FOR U/T READINGS.



TOP OF WATER TANK (5-292-1-W) NOTE STANDING WATER
WHICH IS MAIN CAUSE FOR CORROSION.



MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 5-292-0-E	WORK CENTER EMO4		JSN A340	
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 120	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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT SIDE (5-292-0-E) POTABLE WATER TANK TOP (5-308-2-W) HAS APPROX 40SF OF HEAVY RUST AND PAINT SEPARATION. U/T READINGS WERE SATISFACTORY. SEE ATTACHED DRAWING.							
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 40SF OF TANK TOP, PRESERVE AND PAINT AREA TO MATCH.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: TANK TOP (5-308-2-W) HAS RUST AND PAINT SEPARATION.					TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

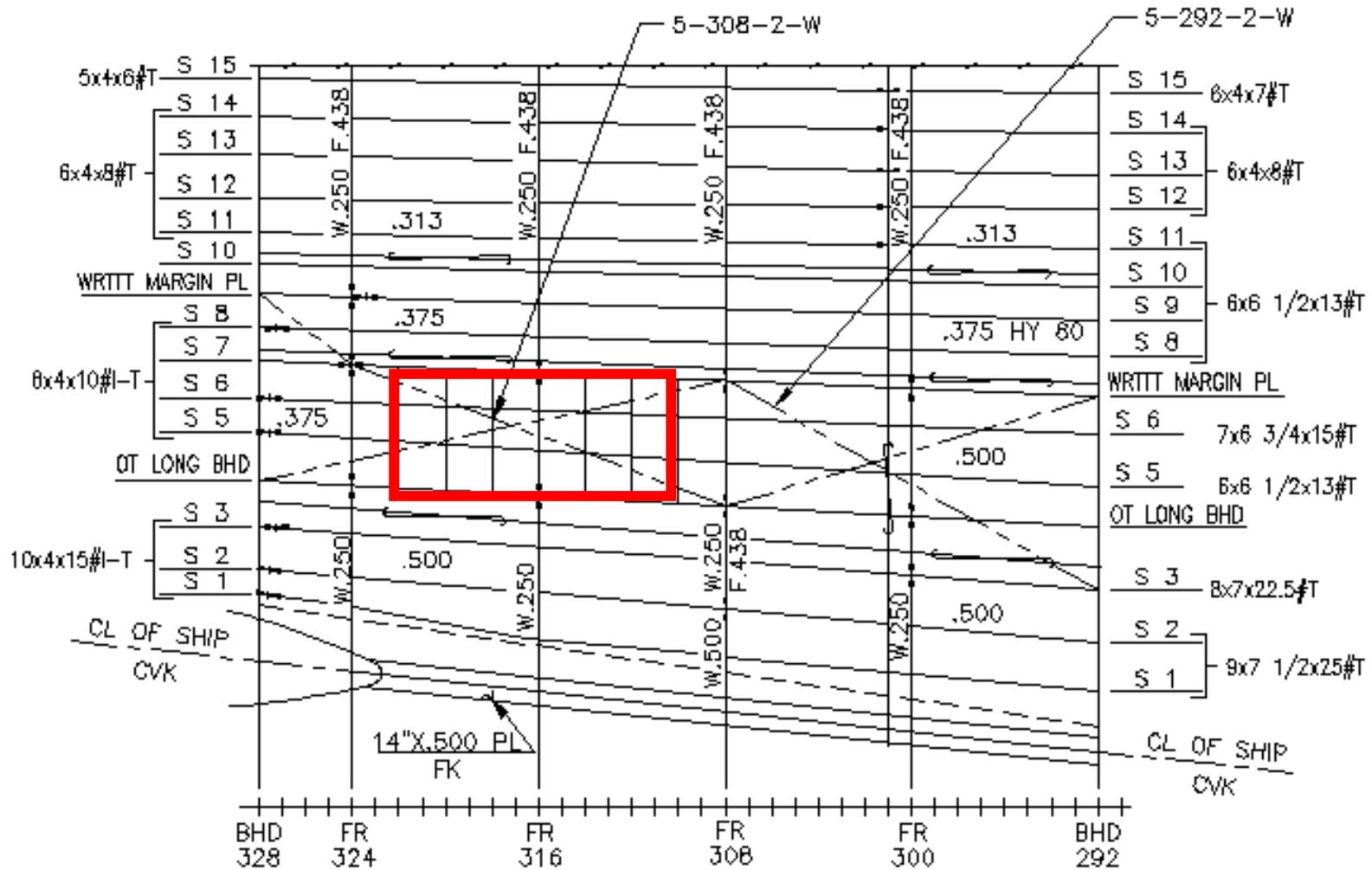
AUXILIARY MACHINERY ROOM 3 (5-292-0-E)



TOP OF POTABLE WATER TANK (5-308-2-W)

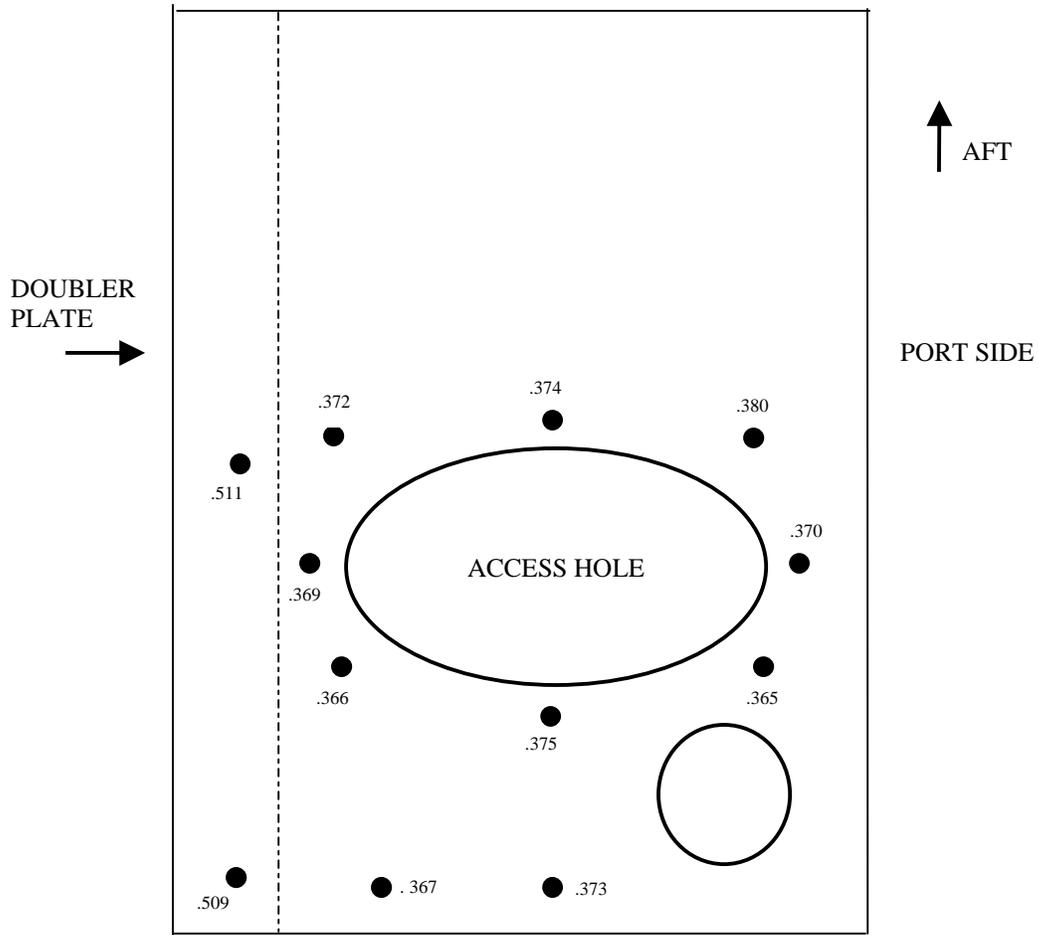


CORROSION ON TOP OF TANK REFER TO DRAWING FOR U/T READINGS.



AUXILIARY MACHINERY ROOM 3
 (5-292-0-E) PORT SIDE
 POTABLE WATER TANK (5-308-2-W)

RED BOX INDICATES WHERE U/T
 READINGS WERE TAKEN
 SEE FOLLOWING PAGE



USS UNDERWOOD (FFG-36)
 POTABLE WATER TANK (5-308-2-W)
 AUXILIARY MACHINERY ROOM 3
 5-292-0-E

J. LaROCK/T. ILGENFRITZ
 QED SYSTEMS INC.
 7/25/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 5-250-0-E	WORK CENTER EMO4		JSN A390	
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 1500	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: STBD SIDE (5-250-0-E) BETWEEN WF (258-264) STRINGER (11) IS HOLED APPROXIMATELY 10" AFT OF WF (258). SHELL PLATE AT STRINGER (11) FROM WF (258) TO APPROXIMATELY 3' AFT, SHELL IS THINNING APPROXIMATELY 3SF. REFER TO DRAWING FOR U/T READINGS.							
RECOMMENDED REPAIRS: REMOVE AND REPLACE APPROXIMATELY 8LF OF 6X4 T-BEAM. REMOVE AND REPLACE APPROXIMATELY 3SF OF SHELL PLATE PRESERVE AND PAINT TO MATCH AREA. FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: STRINGER (11) IS HOLED, SHELL IS THINNING.				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

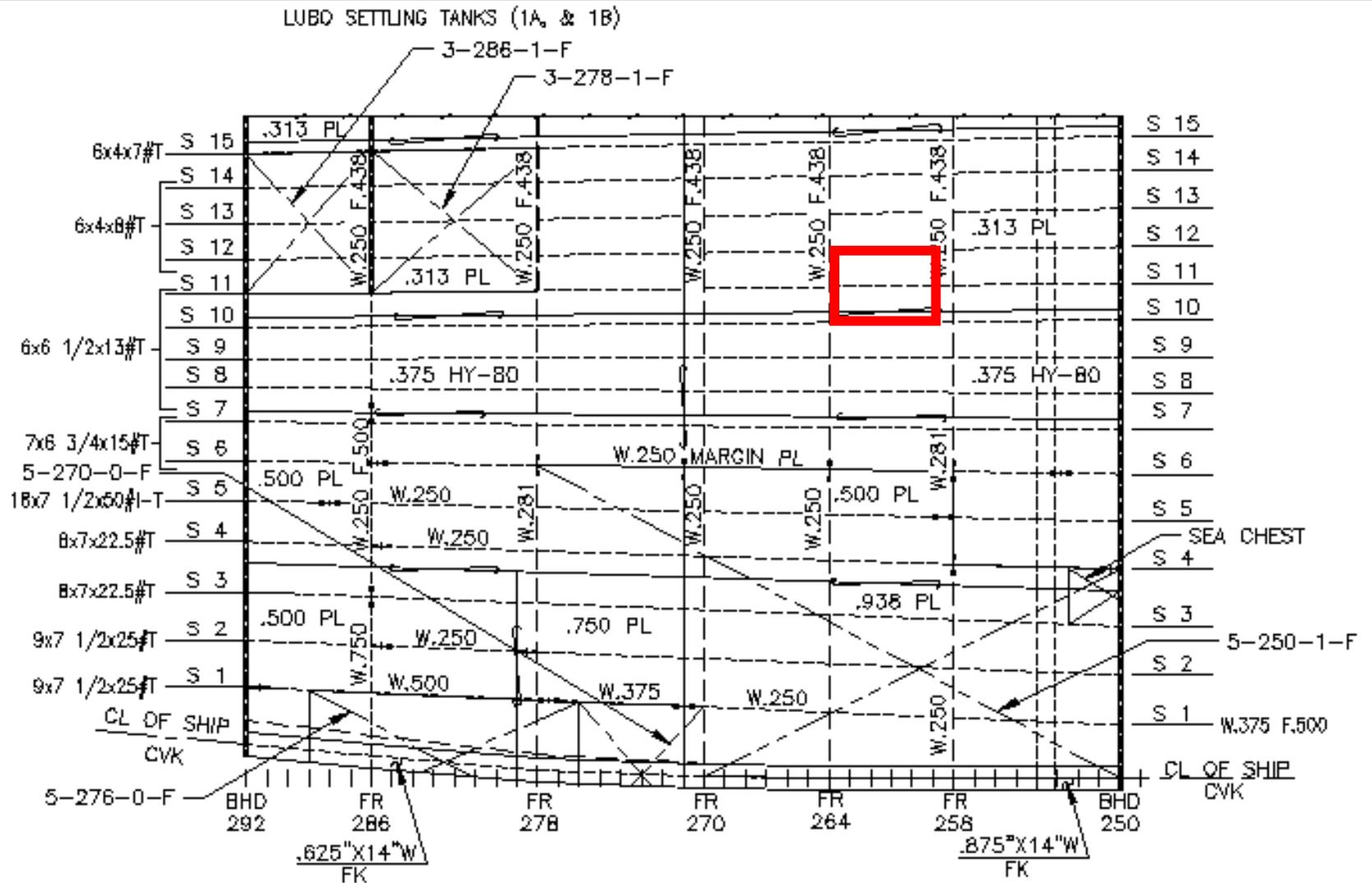
MAIN ENGINE ROOM (5-250-0-E)



STBD SIDE, BETWEEN WF (258-264) STRINGER (11) HOLE IS APPROXIMATELY 10" AFT OF WF (258).



STBD SIDE, AFT OF WF (258) SHELL PLATE AT STRINGER (11) IS THINNING. REFER TO DRAWING FOR U/T READINGS.



MAIN ENGINE ROOM (5-250-0-E)
STBD SIDE AT STRINGER (11)

RED BOX INDICATES WHERE U/T
READINGS WERE TAKEN
SEE FOLLOWING PAGE FOR DRAWING

WF 258

WF 264

	DESIGN THICKNESS	MINIMUM
SHELL PLATE	.313	.234
W STRINGER WEB	.220	.165
F STRINGER FLANGE	.265	.198

W .221
F .282

W .218
F.282

W .215
F .285

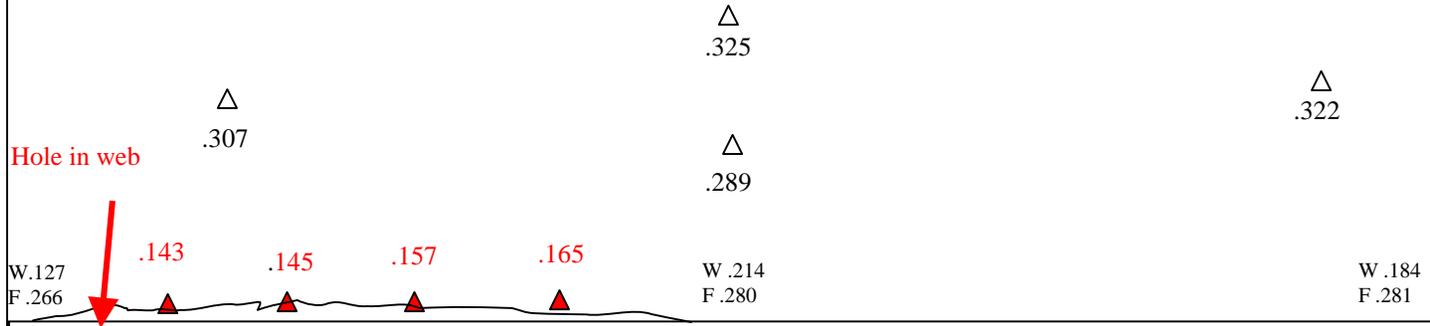
STRINGER 12

W.127
F .266

W .214
F .280

W .184
F .281

STRINGER 11



USS UNDERWOOD (FFG-36)
MAIN ENGINE ROOM (5-250-0-E)
STBD SIDE

J. LaROCK/ T. ILGENFRITZ
QED SYSTEMS INC.
07/27/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 5-250-0-E	WORK CENTER EMO4		JSN A379	
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 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 4	MAN HRS REMAINING 400	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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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:PORT SIDE (5-250-0-E), APPROXIMATELY 2' AFT OF WF (264)							
BETWEEN STRINGERS (9-10) A 2"X3" PIT WAS FOUND, U/T READING IN THIS AREA WAS (.210), THE MINIMUM IS (.234)							
REFER TO DRAWING FOR U/T READINGS IN SURROUNDING AREA. APPROXIMATELY 20 SF OF AREA SURROUNDING THE							
OVBD DISCHARGE HAS SURFACE RUST AND PAINT SEPARATION.							
RECOMMENDED REPAIRS: CLAD WELD APPROXIMATELY 6 Sq INCHES OF PITTED AREA, NEEDLE-GUN APPROXIMATELY 20 SF OF SURROUNDING AREA PRESERVE AND PAINT TO MATCH.							
FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: BETWEEN STRINGERS (9-10) SHELL HAS 2"X3" PIT.				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

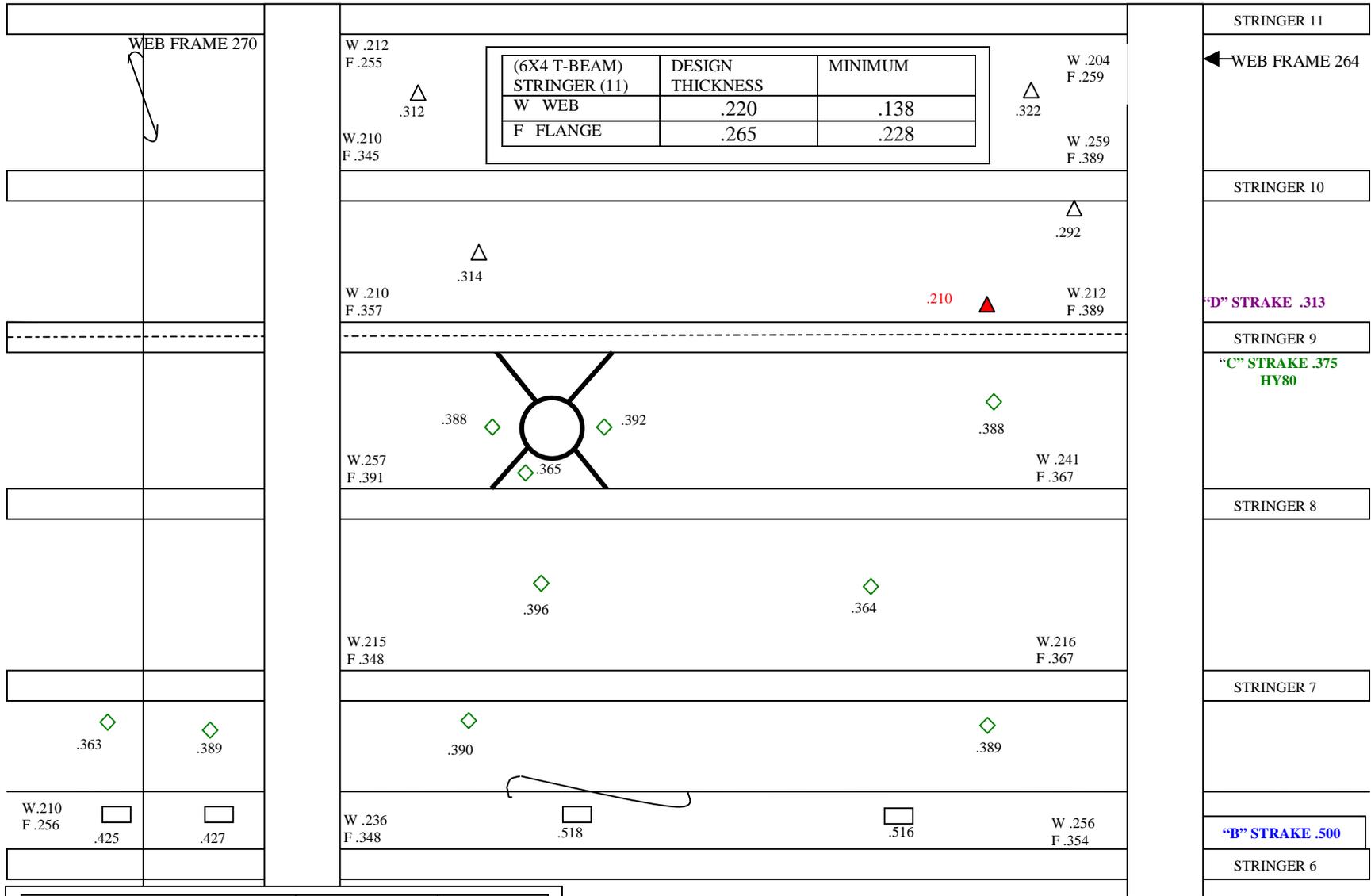
MAIN ENGINE ROOM (5-250-0-E)



PORT SIDE, LARGE PIT IN SHELL PLATING U/T READING IN THIS AREA WAS (.210)
REFER TO DRAWING FOR LOCATION AND U/T READINGS OF SURROUNDING AREA.



PORT SIDE, TRANSVERSE WELD SEAM AFT OF WF (270)
U/T READINGS ARE NOTED IN DRAWING.



	DESIGN THICKNESS	MINIMUM
△ D-STRAKE	.313	.234
◇ C-STRAKE	.375	.281
□ B-STRAKE	.500	.375
W STRINGER WEB (6X61/2 T-BEAM)	.230	.196
F STRINGER FLANGE	.380	.323

USS UNDERWOOD (FFG-36)
MAIN ENGINE ROOM
(5-250-0-E) PORT SIDE

J. LaROCK / T. ILGENFRITZ
QED SYSTEMS INC
07/27/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 5-250-0-E	WORK CENTER EMO4	JSN A391		
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT SIDE (5-250-0-E), BETWEEN BHD (250) AND WF (264)							
STRINGERS (10-11) HAVE APPROXIMATELY 16 SF OF RUST AND PAINT SEPARATION. REFER TO DRAWING FOR U/T							
READINGS.							
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 16 SF OF AREA, PRESERVE AND PAINT TO MATCH AREA.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: AREA BETWEEN BHD (250) AND WF (264) HAS RUST AND PAINT SEPARATION.				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

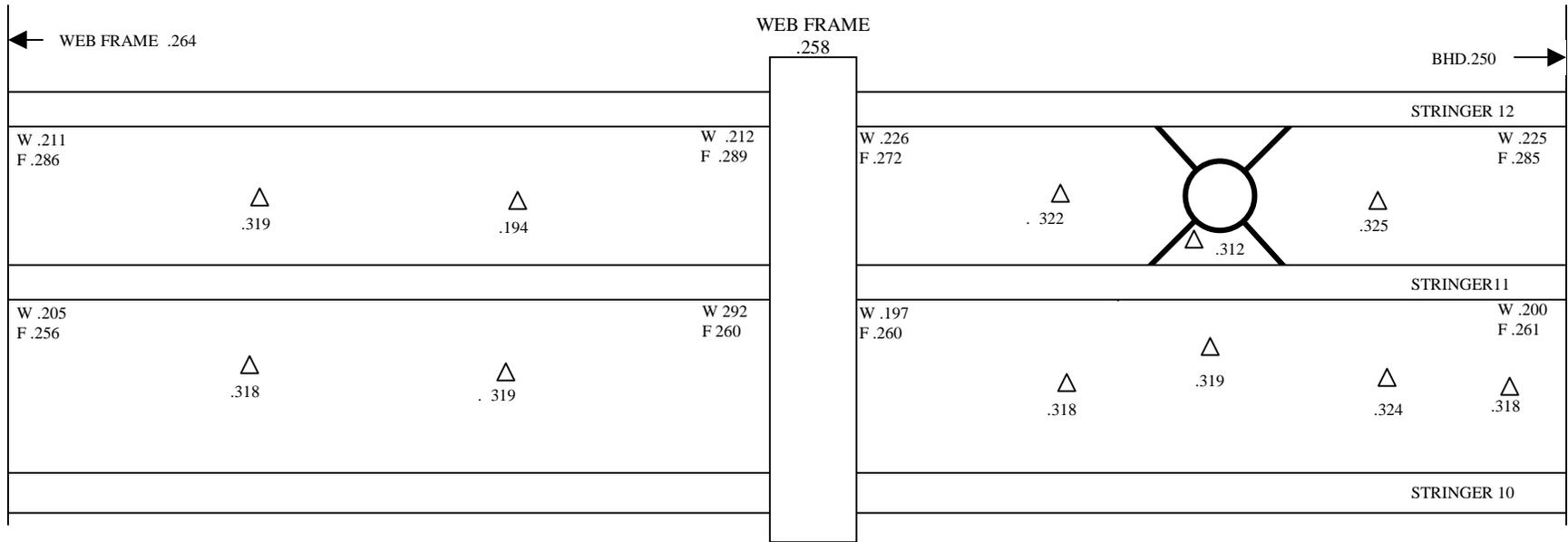
MAIN ENGINE ROOM (5-250-0-E)



PORT SIDE, OVBD DISCHARGE AFT OF BHD (250) BETWEEN STRINGERS (10-11)



PORT SIDE, STRINGER (10) BETWEEN BHD (250) AND WF (264)
REFER TO DRAWING FOR U/T READINGS.



	DESIGN THICKNESS	MINIMUM
△ SHELL PLATE	.313	.234
W STRINGER WEB	.220	.165
F STRINGER FLANGE	.265	.198

USS UNDERWOOD (FFG 36)
 MAIN ENGINE ROOM
 (5-250-0-E) PORT SIDE

J. LaROCK / T. ILGENFRITZ
 QED SYSTEMS INC
 07/27/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 5-250-0-E	WORK CENTER EMO4		JSN A375	
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 120	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 - WAVIER 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: STBD SIDE (5-250-0-E) FROM WF 264 TO 270 BETWEEN STRINGERS (10-12), HAVE APPROXIMATELY 24 SF OF SURFACE RUST AND PAINT SEPARATION.							
SEE ATTACHED DRAWING FOR U/T READINGS							
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 24SF OF AREA, PRESERVE AND PAINT TO MATCH.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: BETWEEN WF 264 AND 270 HAS SURFACE RUST AND PAINT SEPARATION.					TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN		RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

MAIN ENGINE ROOM (5-250-0-E)



STBD SIDE BETWEEN WF (264-270) CORROSION ON STRINGER (12).
REFER TO DRAWING FOR U/T READINGS OF AREA.



STBD SIDE, STRINGER (10) BETWEEN WF (264-270).

WF 264

WF 270

	DESIGN THICKNESS	MINIMUM
△ SHELL PLATE	.313	.234
W STRINGER WEB (11 & 12) 6X4 T-BEAM	.220	.165
F STRINGER FLANGE (11 & 12) 6X4 T-BEAM	.265	.198
W STRINGER WEB (10) 6X6 T-BEAM	.230	.138
F STRINGER FLANGE (10) 6X6 T-BEAM	.380	.228

W .176
F .273

W .212
F .280

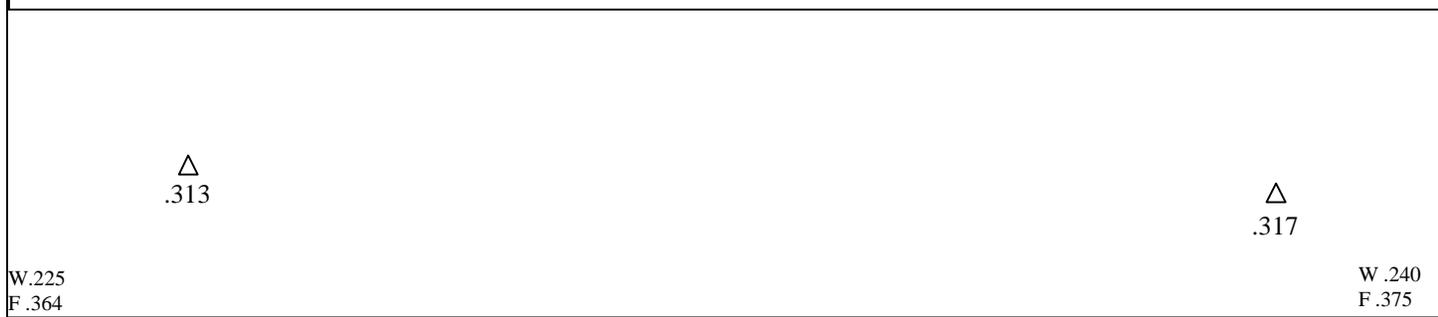
STRINGER 12



W.185
F.239

W.185
F.257

STRINGER 11



W.225
F.364

W .240
F .375

STRINGER 10

△ .320

△ .315

USS UNDERWOOD (FFG-36)
MAIN ENGINE ROOM (5-250-0-E)
STBD SIDE

J. LaROCK/ T. ILGENFRITZ
QED SYSTEMS INC.
07/27/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)				
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 5-212-0-E	WORK CENTER EMO4		JSN A387	
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. 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 - WAVIER 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT SIDE (5-212-0-E), BETWEEN BHD (212-220) FROM								
STRINGERS (10-13) AND SHELL PLATING HAVE SURFACE RUST AND PAINT SEPARATION, STRINGERS ARE FULL OF WATER								
APPROXIMATELY 80 SF OF SHELL AND STRINGERS. REFER TO DRAWING FOR U/T READINGS.								
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 80 SF OF AREA, CLEAN OUT WEEP HOLES IN STRINGERS TO DRAIN WATER, PRESERVE AND PAINT TO MATCH SURROUNDING AREA.								
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI								
CSMP SUMMARY: SHELL AND STRINGERS HAVE SURFACE RUST AND WATER.					TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1					STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:								
PART NO.	NOMEMCLATURE			QTY	NSN		COST	
1								
2								
3								
4								
5								
6								
FIRST CONTACT LARSEN		RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP	

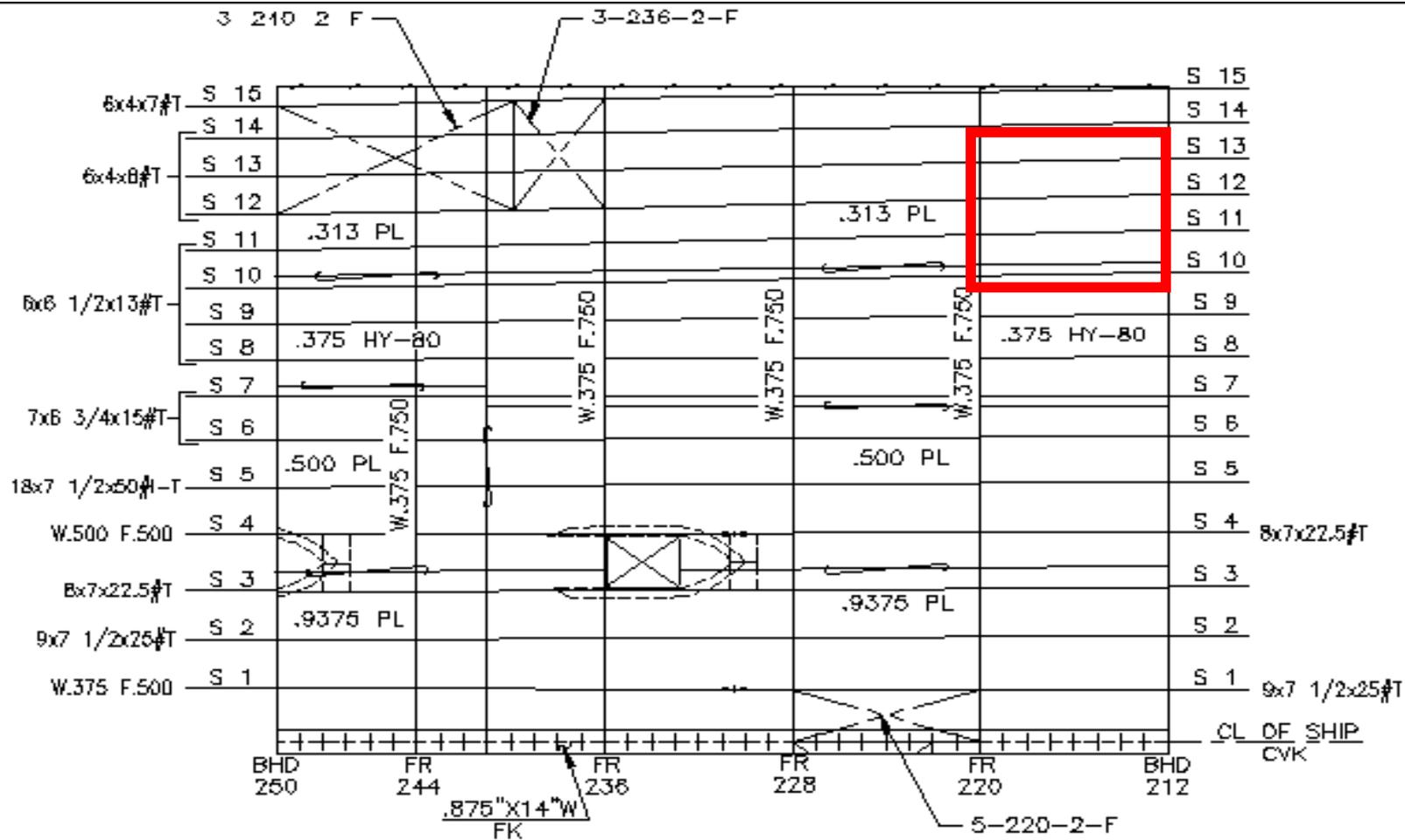
AUXILIARY MACHINERY ROOM 2(5-212-0-E)



PORT SIDE, NEXT TO HPAC
NOTE WATER TRAPPED IN STRINGER.



PORT SIDE, UNDER HPAC, NEXT TO OVBD DISCHARGE.



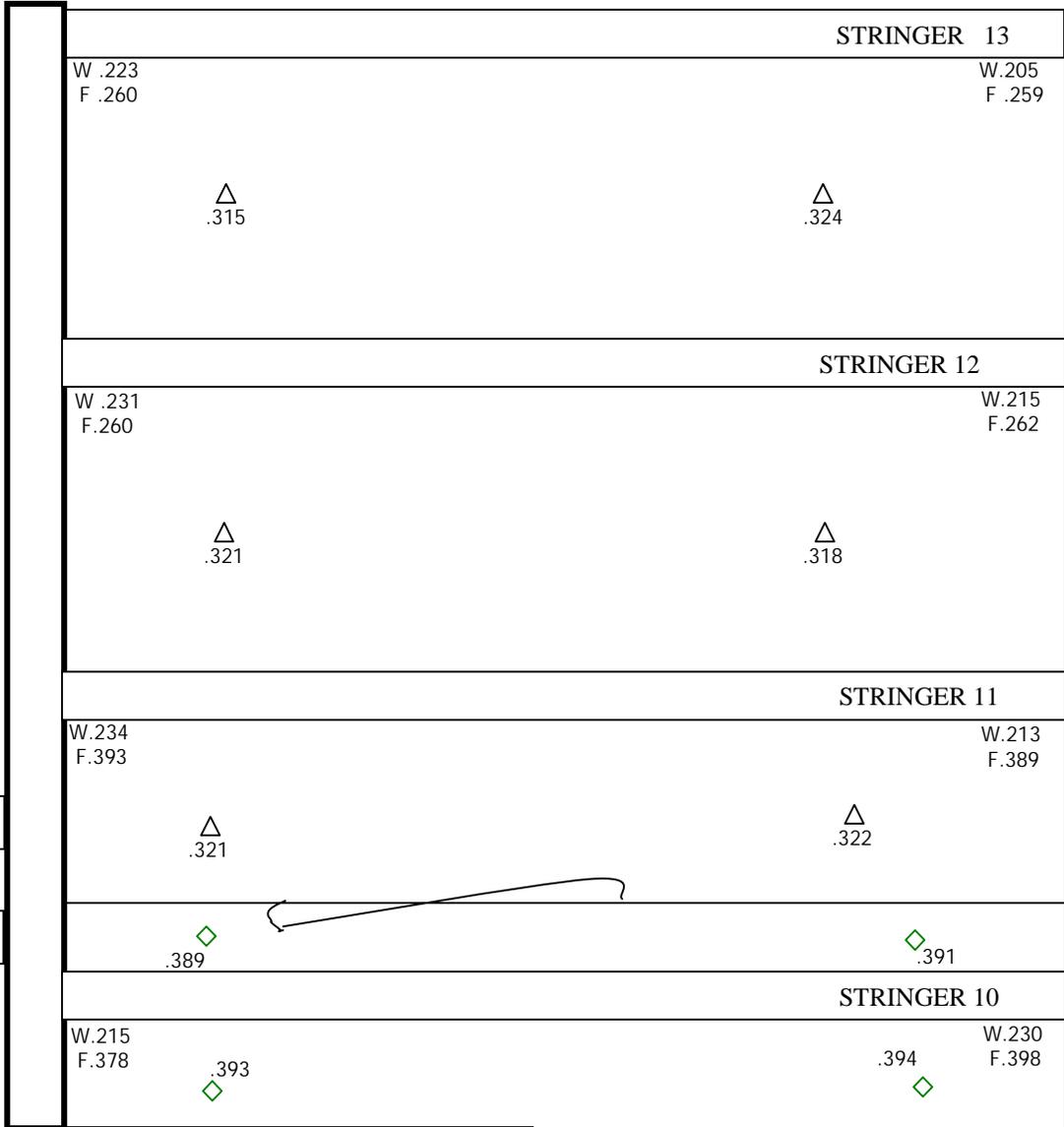
AUXILIARY MACHINERY ROOM 2 (5-212-0-E)
 PORT SIDE, BETWEEN BHD (212) AND WF
 (220), FROM STRINGERS (10-13)

RED BOX INDICATES AREA WHERE U/T
 READINGS WERE TAKEN.
 REFER TO FOLLOWING PAGE FOR DRAWING.

WF 220

BHD 212

	DESIGN THICKNESS	MINIMUM
△ D STRAKE	.313	.234
◇ C STRAKE	.375	.281
W STRINGER WEB (6X4 T-BEAM) (12-13)	.220	.138
F STRINGER FLANGE	.265	.228
W STRINGER WEB (6X6 1/2 T-BEAM) (10-11)	.230	.196
F STRINGER FLANGE	.380	.323



D STRAKE

C STRAKE

USS UNDERWOOD (FFG-36)
AUXILIARY MACHINERY ROOM 2
(5-212-0-E) PORT SIDE

J. LaROCK/T. ILGENFRITZ
QED SYSTEMS INC.
07/29/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 5-212-0-E	WORK CENTER EMO4	JSN A384	
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY		EOC .9	
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. 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 - WAVIER 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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:STBD SIDE (5-212-0-E), BETWEEN WF (236-244) STRINGERS (3-5) APPROXIMATELY 32 SF OF BILGE AREA HAS SURFACE RUST AND PAINT SEPARATION. U/T READINGS WERE TAKEN 4' AFT OF WF (236) LOWEST READING WAS (.395) THE MINIMUM IS (.375) FOR (.500) STEEL.							
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 32 SF OF AREA, PRESERVE AND PAINT TO MATCH.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: BILGE AREA HAS SURFACE RUST AND PAINT SEPARATION.					TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

AUXILIARY MACHINERY ROOM 2 (5-212-0-E)



STBD SIDE, INBOARD OF SSDG ENCLOSURE BETWEEN WF (236-244)



CLOSER VIEW OF AREA, U/T READING IN CENTER OF RUST IS (.395)
THE MINIMUM FOR (.500 IS .375)

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 EMO4		JSN A382	
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 120	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 - WAVIER 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT SIDE (5-180-0-E), FROM STRINGERS (4-9) AT BHD (204) APPROXIMATELY 32 SF OF AREA HAS RUST AND PAINT SEPARATION. U/T READINGS ARE SATISFACTORY.							
RECOMMENDED REPAIRS: NEEDLE-GUN APPROXIMATELY 32 SF OF AREA, PRESERVE AND PAINT TO MATCH.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: BILGE AREA AT BHD (204) HAS RUST AND PAINT SEPARATION.					TEST # MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP # 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN		RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

AUXILIARY MACHINERY ROOM 1 (5-180-0-E)



PORT SIDE, BHD (204)
CORROSION FOUND IN BILGE AREA.



BILGE AREA AT BHD (204)

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 5-51-0-Q	WORK CENTER EMO4	JSN A494		
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 4. 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 8. 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 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS REMAINING 220	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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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(5-51-0-Q) FWD EDUCTOR ROOM. FLANGE ON STRINGER (1)							
IS CORRODED, FLANGE ON FIRST VERTICAL STIFFNER AFT OF BHD (51) IS CORRODED. SECOND VERTICAL STIFFNER AFT OF BHD (51) IS HOLED, ENTIRE BILGE AREA AND SHELL PLATE HAS MILD SURFACE RUST AND CORROSION.							
APPROXIMATELY 100 SF OF ENTIRE SPACE							
RECOMMENDED REPAIRS:							
CUT OUT AND REPLACE FLANGE ON STRINGER (1), APPROXIMATELY 6 LF. REPLACE FLANGE ON FIRST VERTICAL STIFFNER APPROXIMATELY 2 LF OF 2"X .250 STEEL. REPLACE APPROXIMATELY 4 LF OF VERTICAL STIFFNER 3"X2". CLEAN, PRESERVE AND PAINT ENTIRE SPACE.							
FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: CORROSION IN STRINGERS AND STIFFNERS.				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 LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

FORWARD EDUCTOR ROOM(5-51-0-Q)



STBD SIDE, CORRODED FLANGE ON STRINGER (1)



STBD SIDE, CORRODED FLANGE ON STIFFNER.

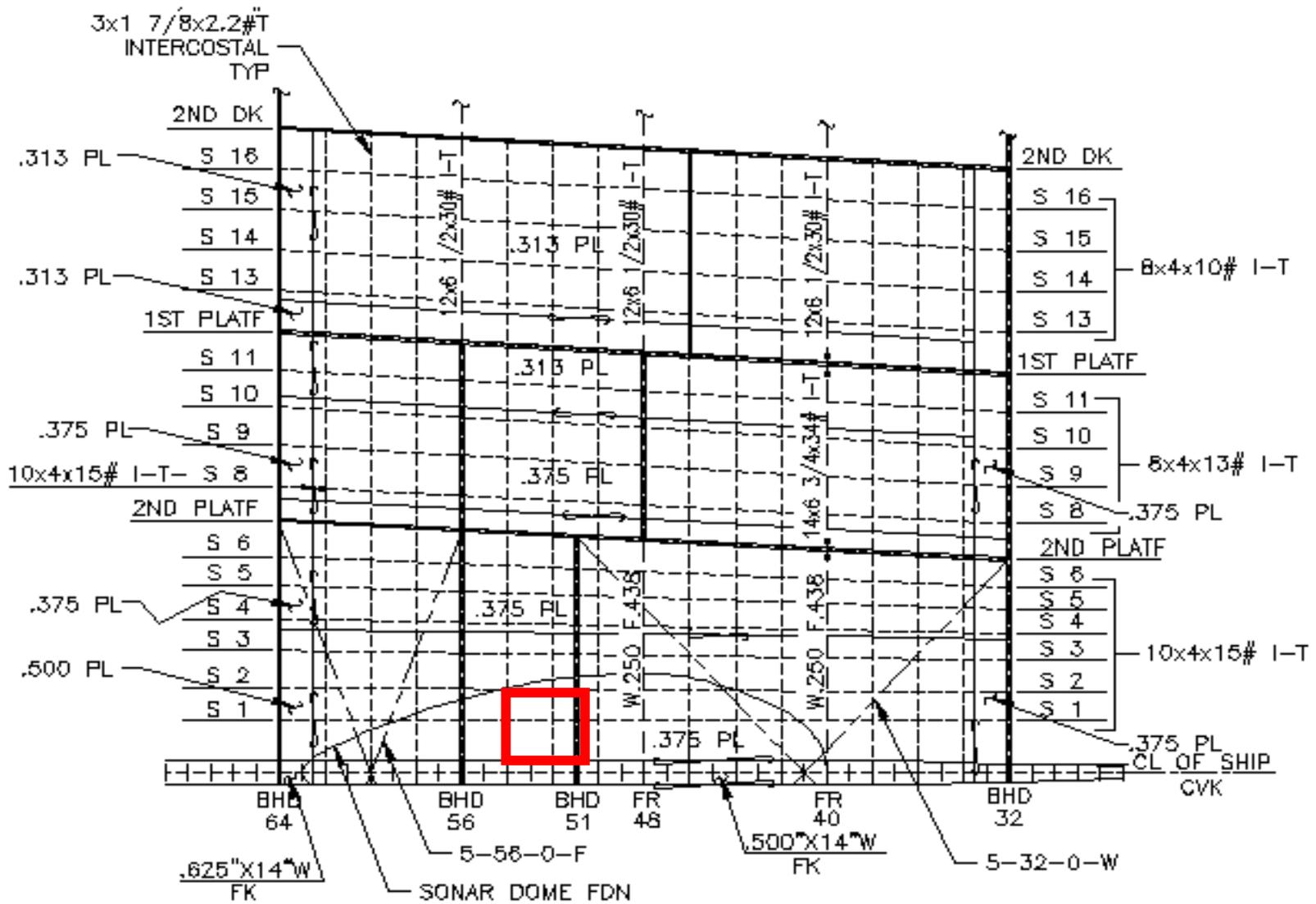
FORWARD EDUCTOR ROOM(5-51-0-Q)



STBD SIDE, HOLES IN VERTICAL STIFFNER.
STIFFNER IS UNDER WATER CAUSING PICTURE DISTORTION.



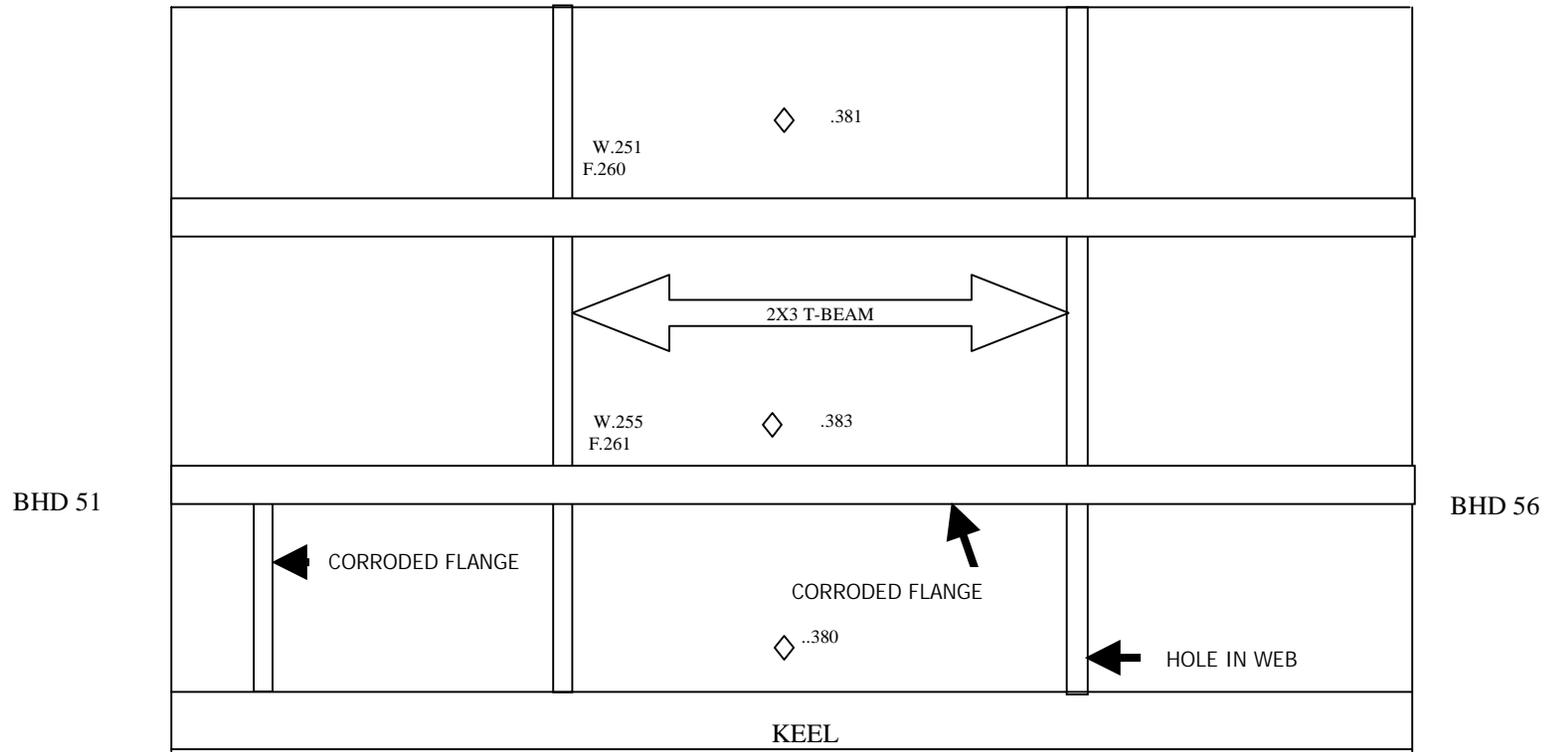
PORT SIDE, SURFACE RUST ON STRINGERS.



USS UNDERWOOD (FFG-36)
EDUCTOR ROOM (5-51-0-Q)

RED BOX INDICATES AREA WHERE U/T
READINGS WERE TAKEN
SEE FOLLOWING PAGE FOR DRAWING

4TH DECK



	DESIGN THICKNESS	MINIMUM
◇ SHELL	.375	.281
W STRINGER WEB (8X4 T-BEAM)	.230	.173
F STRINGER FLANGE	.255	.192

USS UNDERWOOD (FFG-36)
 EDUCATOR ROOM (5-51-0-Q)
 SIDE VIEW LOOKING STARBOARD

J.LAROCK / T.ILGENFRITZ
 QED SYSTEMS INC.
 08/01/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 EMO4		JSN A450	
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 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: STBD SIDE (4-172-1-E), ENTIRE BILGE POCKET HAS SURFACE RUST AND PAINT SEPARATION. APPROXIMATELY 24 SF							
RECOMMENDED REPAIRS: DRAIN WATER FROM BILGE, NEEDLE-GUN APPROXIMATELY 24 SF, PRESERVE AND PAINT TO MATCH AREA.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: BILGE POCKET HAD SURFACE RUST AND PAINT SEPARATION.					TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1					STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN		COST
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

FIRE PUMP ROOM (4-172-1-E)



BILGE POCKET SHOWING SURFACE RUST AND PAINT SEPARATION.
AREA RECOMMENDED FOR PRESERVATION.,

MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 4-160-0-Q	WORK CENTER EMO4		JSN A377	
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 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: STBD SIDE (4-160-0-Q), BETWEEN BHD (160) AND WF (164) STRINGERS (8-9) ARE HOLED. APPROXIMATELY 8 LF OF 6 X 61/2 T-BEAM. REFER TO DRAWING FOR U/T READINGS.							
RECOMMENDED REPAIRS: CUT OUT AND REPLACE APPROXIMATELY 8 LF OF EACH STRINGER, (16 LF TOTAL). PRESERVE AND PAINT TO MATCH.							
FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: STRINGERS (8-9) ON STBD SIDE CHT ROOM ARE HOLED.					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 LARSEN		RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ QED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

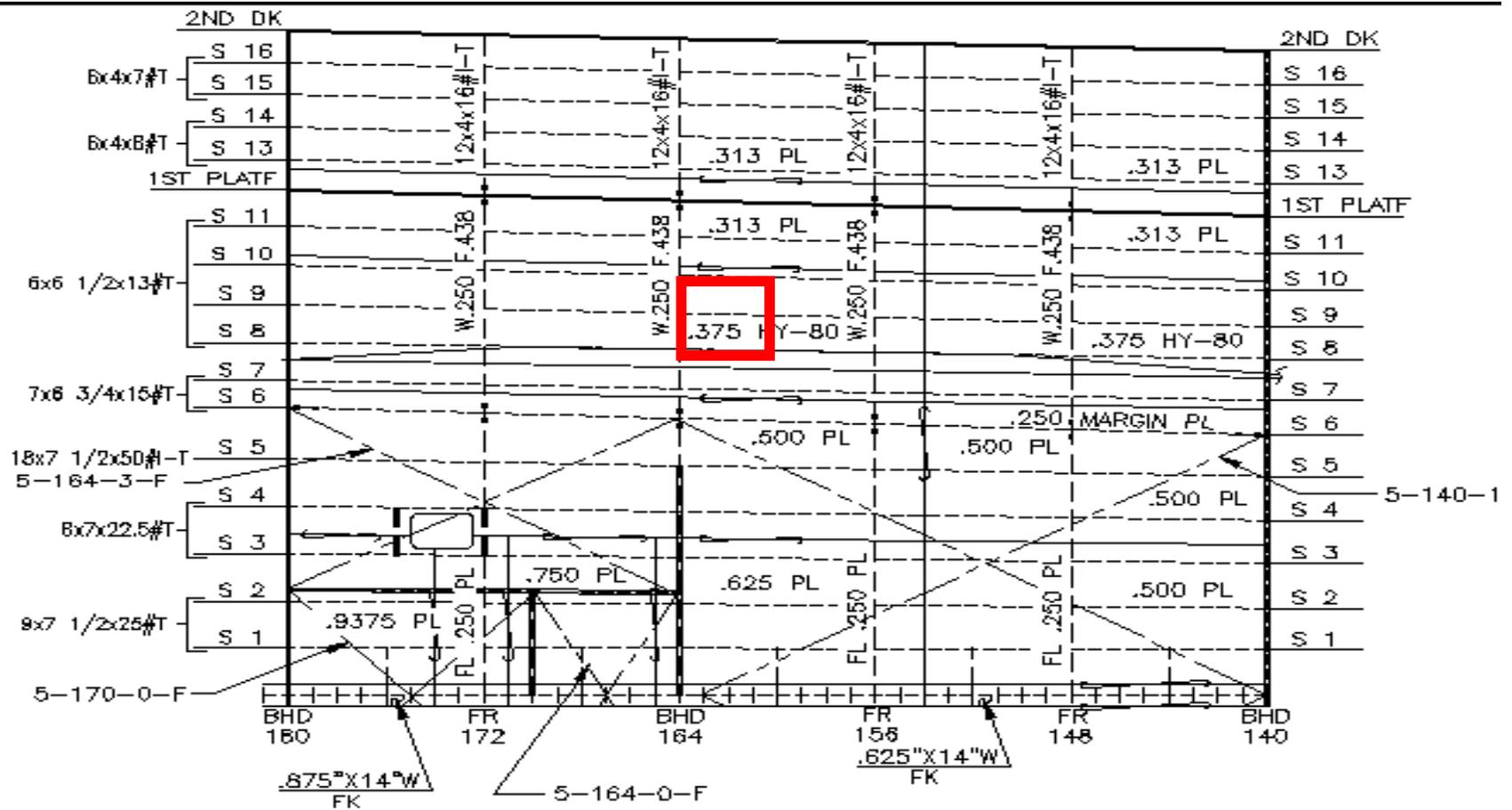
CHT ROOM (4-160-0-Q)



STBD SIDE, STRINGER (8) ARROW INDICATES HOLE IN WEB.
NOTE HEAVY DETERIORATION.



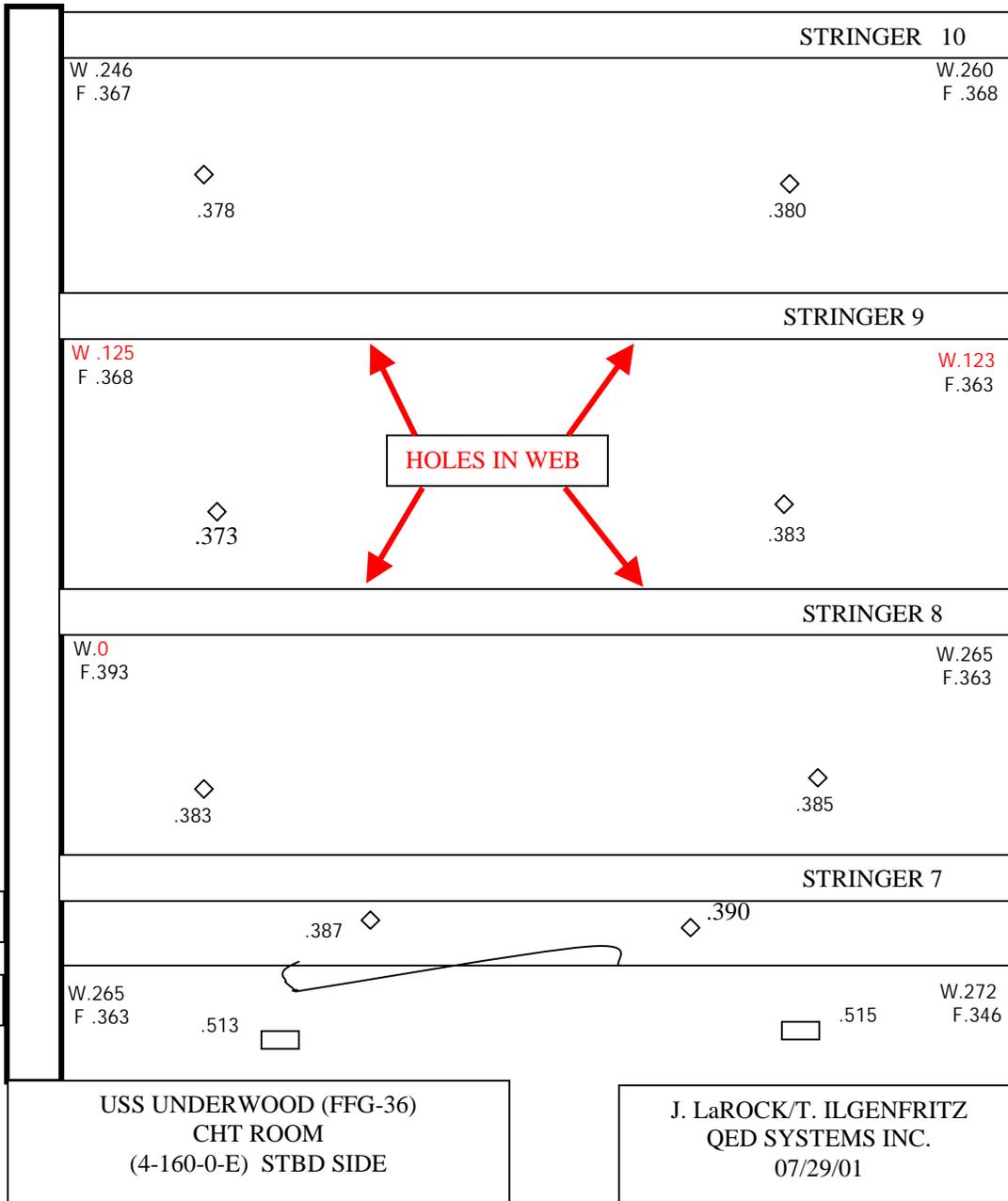
STBD SIDE, LARGE HOLE IN WEB OF STRINGER (9).



CHT ROOM (4-160-0-Q)
STBD SIDE, BETWEEN BHD (160) AND WF
(164) STRINGERS (8-9)

RED BOX INDICATES AREA WHERE U/T
READINGS WERE TAKEN
SEE THE FOLLOWING PAGE FOR DRAWING

	DESIGN THICKNESS	MINIMUM
□ B STRAKE	.500	.375
◇ C STRAKE	.375	.281
W STRINGER WEB (6X61/2 T-BEAM) (10-11)	.230	.196
F STRINGER FLANGE	.380	.323



MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)				
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 4-100-0-E	WORK CENTER EMO4	JSN A451	
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 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: PORT AND STBD BILGE POCKETS (4-100-0-E), ARE FULL OF WATER, SURFACE RUST AND PAINT SEPARATION. APPROXIMATELY 64 SF TOTAL.						
RECOMMENDED REPAIRS: DRAIN BOTH STBD AND PORT BILGE POCKETS, CLEAN, PRESERVE AND PAINT APPROXIMATELY 64 SF TO MATCH.						
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI						
CSMP SUMMARY: BILGE POCKETS HAVE SURFACE RUST AND PAINT SEPARATION.				TEST# MRC 1102/1		
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IMPACT:						
PART NO.	NOMEMCLATURE			QTY	NSN	COST
1						
2						
3						
4						
5						
6						
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE	
ASSESSOR / ACT / TECH ID# J. LaROCK/ T. ILGENFRITZ OED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP

AUXILIARY PROPULSION UNIT (4-100-0-E)



STBD SIDE, AFT OF BHD (100) BILGE POCKET.
NOTE STANDING WATER AND CORROSION.



PORT SIDE BILGE POCKET.

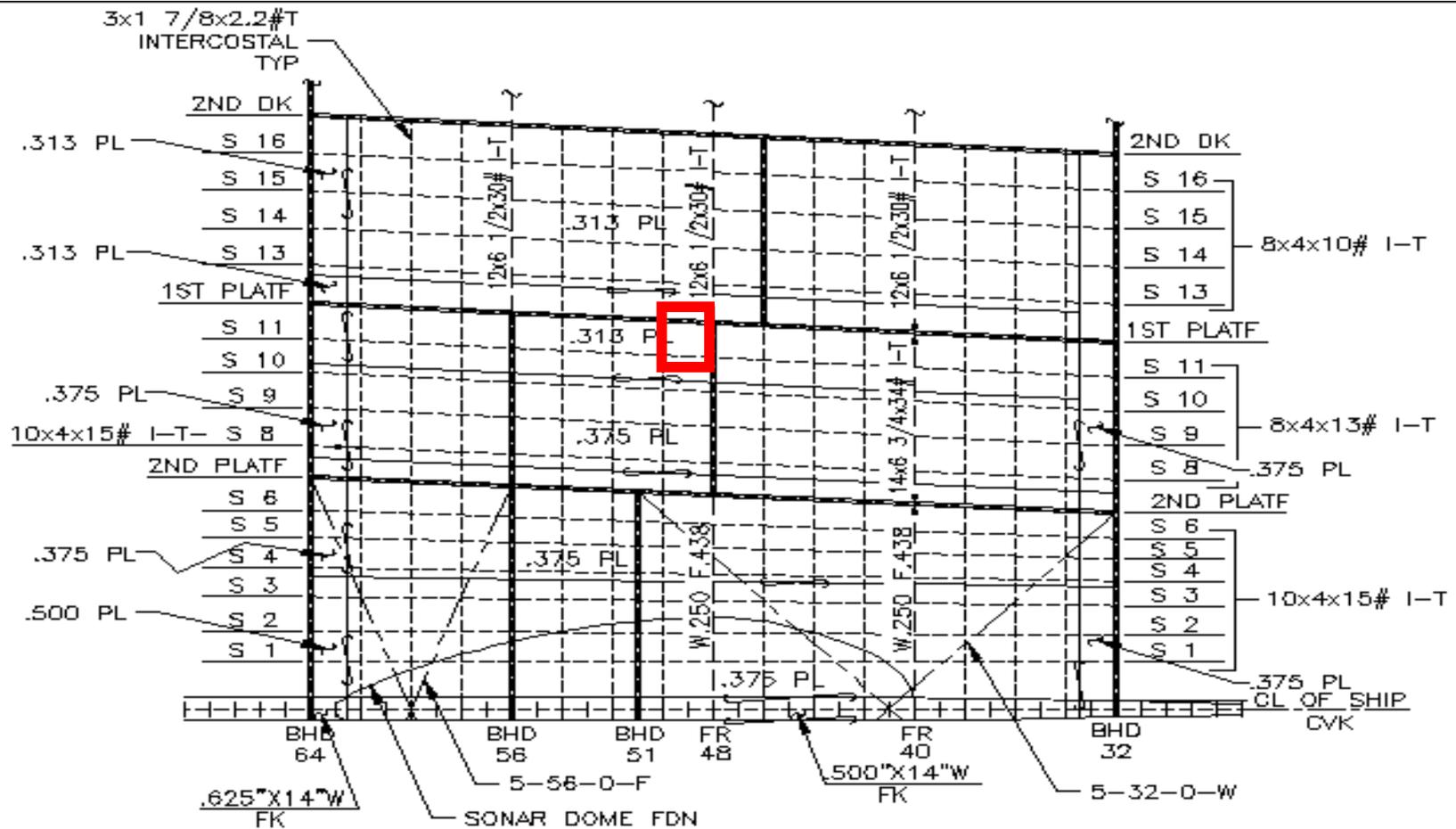
MATERIAL ASSESSMENT FORM

ITEM NUMBER				SHIP USS UNDERWOOD (FFG-36)			
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 EMO4		JSN A496	
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 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: STBD SIDE (4-48-1-Q) THE THIRD VERTICAL STIFFNER AFT OF BHD 48 HAS A HOLE. REFER TO DRAWING FOR U/T READINGS.							
RECOMMENDED REPAIRS: REPLACE 3X2 STIFFNER APPROXIMATELY 6 LF, PRIME AND PAINT WITH ANTI-SWEAT PAINT. FTSC is to conduct risk assessment and make final repair recommendations.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: 32 SF OF SATURATED LAGGING ON FIRST AND SECOND STRINGERS, HOLE IN STIFFNER				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK / T. ILGENFRITZ OED SYSTEMS INC.				TD	TL	LOGISTICIAN	TSP

SONAR COOLING ROOM (4-48-1-Q)



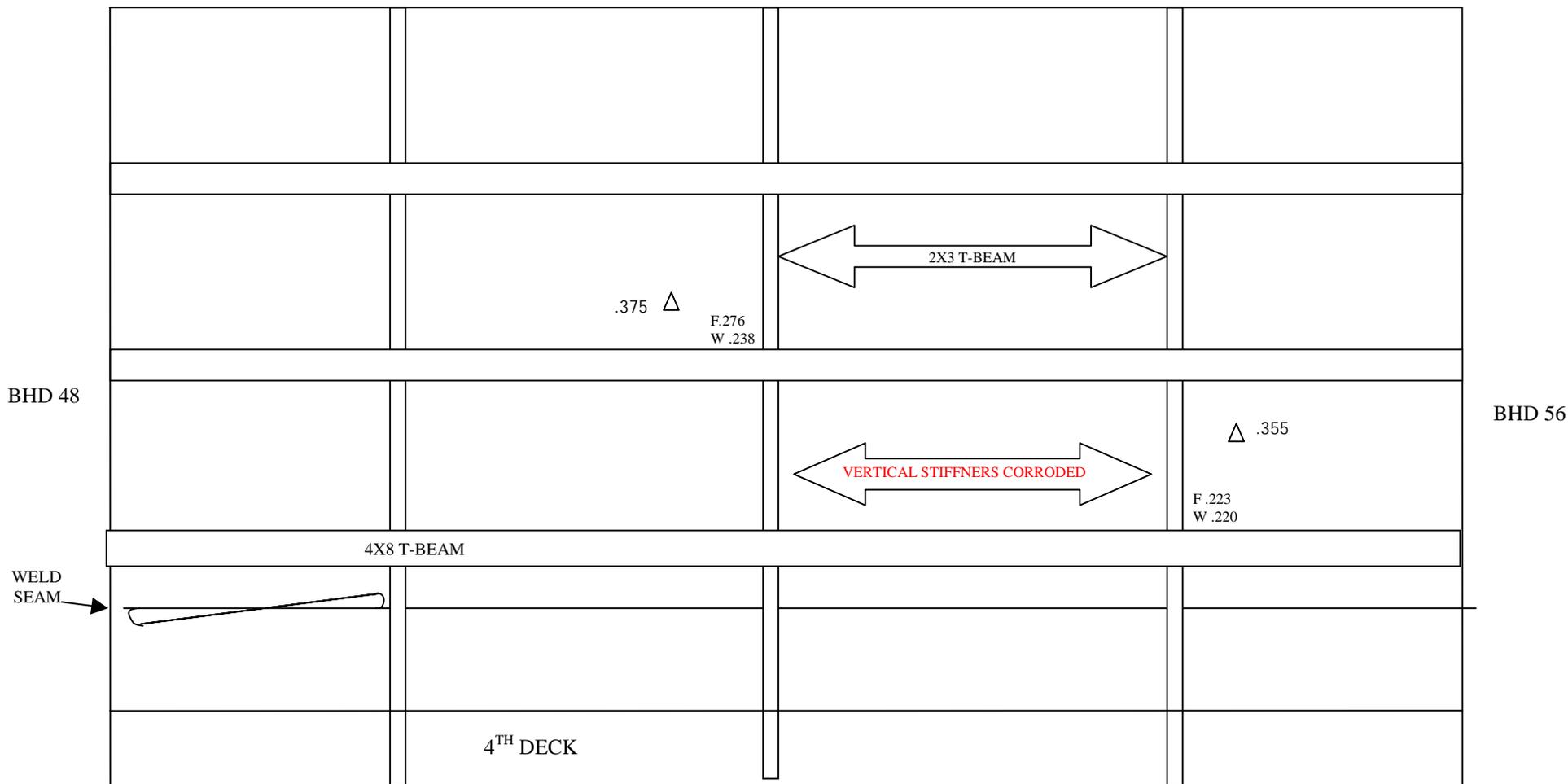
HOLE IN WEB OF VERTICAL STIFFNER.
REFER TO DRAWING FOR LOCATION AND U/T READINGS.



SONAR COOLING ROOM (4-48-1-Q)
STBD SIDE, AFT OF BHD (48)

RED BOX INDICATES AREA WHERE
U/T READINGS WERE TAKEN
REFER TO THE FOLLOWING PAGE FOR
DRAWING

3RD DECK



USS UNDERWOOD (FFG-36)
SONAR COOLING ROOM (4-48-1-Q)
SIDE VIEW LOOKING STARBOARD

J.LAROCK / T.ILGENFRITZ
QED SYSTEMS INC.
07/30/01

MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP USS UNDERWOOD (FFG-36)					
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 EMO4	JSN A495		
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. PIROR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. 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 8. 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 10. 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 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. 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: STBD SIDE (4-48-1-Q), APPROXIMATELY 32 SF OF SATURATED LAGGING ON THE SHELL PLATE, CORROSION AND PAINT SEPARATION.							
RECOMMENDED REPAIRS: RECOMMEND SHIPS FORCE REMOVE 32 SF OF SATURATED LAGGING. PRESERVE AND PRIME AREA AND PAINT WITH ANTI-SWEAT PAINT. APPROXIMATELY 32 SF.							
SSPORT C221 POC: F. PRAISSMAN (757) 396-4001 EXT 2130, TPOC: N. TAGLIANETTI							
CSMP SUMMARY: SATURATED LAGGING ON SHELL.				TEST# MRC 1102/1			
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1,2,3,4 & 5			
SYSTEM LEVEL IMPACT:							
PART NO.	NOMEMCLATURE			QTY	NSN	COST	
1							
2							
3							
4							
5							
6							
FIRST CONTACT LARSEN	RATE HT1	SECOND CONTACT DUNN		RATE HT2	PHONE		
ASSESSOR / ACT / TECH ID# J. LaROCK / T. ILGENFRITZ QED SYSTEMS INC.			TD	TL	LOGISTICIAN	TSP	

SONAR COOLING ROOM (4-48-1-Q)



CORROSION IS CAUSED BY WATER TRAPPED UNDER LAGGING.
REMOVAL OF LAGGING, AND PAINTING WITH ANTI-SWEAT COATING IS RECOMMENDED.



STANDING WATER ON INSULATION.
THIS PROBLEM IS COMMON FOR THIS AREA ON FFG-7 CLASS SHIPS

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	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-32-1-K	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-36-1-A	Y	Y	N		
3-36-2-T	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-40-2-A	Y	Y	N		
3-46-1-A	Y	Y	N		
3-48-2-A	Y	Y	N		
3-53-2-A	Y	Y	N		
3-56-0-A	Y	Y	N		
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

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	N	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	N		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	N		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 100 TO 113)
3-113-0-L	Y	Y	N	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	N		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAME 140 TO 155)

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	N		LAGGING 100% AND SS 50% (SS INSTALLED 49" OFF DECK, FRAMES 140 TO 155)
3-144-0-L	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (NOT ACCESSIBLE AREA, PORT & STBD FRAME 165 TO 180, 6'3" OFF DECK BUNKS)
3-156-2-Q	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF PORT SIDE SHELL ASSESSABLE)
3-154-1-Q	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-2-C	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-180-5-A	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
3-196-2-A	Y	Y	N		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

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	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

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	N		
4-48-2-L	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-48-1-Q	Y	Y	N	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	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-56-0-M	Y	Y	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)

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	N		
4-100-0-E	Y	Y	N	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	N	TANK TOP FOR 5-140 & 5-164-2F	STAINLESS STEEL 100% (100% OF PORT SIDE SHELL ASSESSABLE)
4-140-3-A	Y	N	N		ACCESSIBLE HIDDEN LAGGED 100%(100% OF SHELL ASSESSABLE)
4-152-1-A	Y	N	N		ACCESSIBLE HIDDEN LAGGED 100% (100% OF SHELL ASSESSABLE)
4-160-0-Q	Y	N	N		100% OF PORT AND STBD SHELL ASSESSABLE
4-172-1-E	Y	Y	N	FR 174-180 STBD OF SHELL 6" BELOW GRATING BETWEEN L7-L9	100% OF PORT & STBD SHELL ASSESSABLE

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	N		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

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	Y		INACCESSIBLE VOID FR 116 - FR 132, P/S FROM KEEL UP ~4FT
5-132-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-137-1-T	N	N	Y		SPACE REQUIRES GAS FREE
5-140-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-140-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-164-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-164-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-164-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-170-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-180-0-E	Y	Y	N	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	N		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

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	Y		SPACE REQUIRES GAS FREE
5-204-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-212-0-E (UL)	Y	Y	N	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	Y		SPACE REQUIRES GAS FREE
5-222-1-F	N	N	Y		SPACE REQUIRES GAS FREE

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	N		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	N		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	N	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)

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	N	FR 250 PORT SIDE OF SHELL, BETWEEN L9-L12	
5-250-0-E (CONT'D)	Y	Y	N	FR 258-264 STBD SIDE OF SHELL, BETWEEN L9-L12	
5-250-1-F	N	N	Y		SPACE REQUIRES GAS FREE
5-250-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-270-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-276-0-F	N	N	Y		SPACE REQUIRES GAS FREE
5-290-2-F	N	N	Y		SPACE REQUIRES GAS FREE
5-292-0-E	Y	Y	N	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

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	Y		SPACE REQUIRES GAS FREE
5-292-2-W	N	N	Y		SPACE REQUIRES GAS FREE
5-292-3-W	N	N	Y		SPACE REQUIRES GAS FREE
5-308-2-W	N	N	Y		SPACE REQUIRES GAS FREE
5-308-1-W	N	N	Y		SPACE REQUIRES GAS FREE
5-328-0-J	N	N	Y		SPACE REQUIRES GAS FREE
5-328-2-W	N	N	Y		SPACE REQUIRES GAS FREE

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)