Ship/HULL NO.	Ship/HULL NAME	JON:	ICN:	Rev:	Key Op:
	DIVE BOAT		89ZAA85005		A01

TITLE:

Freeboard and Underwater Hull; repair and preserve

JOB SPECIFICATION

Anticipated Award Date:	Production Completion Date:	PREPARING ACTIVITY:
6/30/2026	10/30/2026	SASEBO
POP Start Date: 7/30/2026	**POP End Date:** 12/30/2026	

PREPARED BY: H. MUTA	CODE H_MU	DATE 3/23/2026
APPROVED BY: S. MURAKAMI	CODE S225	
CONCURRED BY: S. MOROOKA	CODE S231	
ASSIST PLANNER'S NAME:	CODE	
ASSIST PLANNER'S NAME:	CODE	
ASSIST PLANNER'S NAME:	CODE	

WORK TO BE DONE IN DRY-BERTHING

DESCRIPTION:

JSN(S): CASREP #

S/F CONTACT: CWP # CCNS # DIVEBOAT-002-26

Approved by S300/S900 Date: 3/26/26 Avl: 6A1

LWC:

Work Completed

S/Force: Rate: Date:

Ship Supt: Date: SRF CONTROL NO.: 1301370704

WORK CERTIFICATION SIGNATURES

COMPLETION OF WORK REVIEW:	BADGE NO.:	SHOP/CODE:	PHONE:	DATE:

Ship/HULL NO.	Ship/HULL NAME	JON:	ICN:	Rev:	Key Op:
	DIVE BOAT		89ZAA85005		A01

TITLE:

Freeboard and Underwater Hull; repair and preserve

1. **SCOPE:**

1.1 Title: Freeboard and Underwater Hull; repair and preserve

1.2 Location of Work:

1.2.1 Throughout the Boat

1.3 Identification: Quantity (One), Dive Boat, Principal Dimension as Follows

Length Over All	; 54 Feet
Breadth Over All	; 13 Feet 9 Inch
Depth, Amidship	; 8 Feet 11 Inch

1.3.1 Quantity (2 EA), Flange Plate for Diver Platform (3/16 Inch Thick by 1-1/2 Inch Width CRES 304 Plate), See ENCLOSURE (A)

1.3.2 Quantity (2 EA), Lock Pad for Hatch at FWD and AFT of the Pilot House (1/4 Inch Thick, Mild Steel, Detail 5-E of 2.9)

1.3.3 A Total of (70 SF) of Bottom Shell Plate (3/16 Inch Thick, Mild Steel)

1.3.4 A Total of (70 SF) of Deck Plate (3/16 Inch THK, Mild Steel Floor Plate)

1.3.5 A Total of (90 SF) of Port and STBD Side Shell Plate (1/8 and 1/4 Inch Thick, Mild Steel)

1.3.6 A Total of (10 SF) of Forward End Shell Plate (1/8 Inch Thick, Mild Steel)

1.3.7 A Total of (10 SF) of AFT End Shell Plate (3/16 Inch Thick, Mild Steel)

1.3.8 A Total of (50 LF) of Existing Seam and Butt

1.3.9 A Total of (50 LF) of Half Pipe Fender (6 Inch and 8 Inch NPS STD, Mild Steel)

1.3.10 A Total of (3,480 SF) of Preservation Area for Dive Boat as Follows

1.3.10.1 A Total of (1,200 SF) of Underwater Hull **"CRITICAL COATED AREA"**

1.3.10.2 A Total of (800 SF) of Freeboard above the Boottop Including Diver Stage **"CRITICAL COATED AREA"**

1.3.10.3 A Total of (590 SF) of Exterior Deck Including Each Deck Fitting, Except Scuttle, Deck Access Plate, and Hatch (See NOTE 4.5 and 4.6)

1.3.10.4 A Total of (730 SF) of Exterior Hull above the Deck Including Each Structural Member, Awning Support, Portable J-Bar Davit and Socket, Pilot House, and Handrail

1.3.10.5 A Total of (160 SF) of Interior Deck of the Pilot House

2. **REFERENCES:**

2.1 Standard Items (FY26)

2.2 145-4777404 Rev C, 50 Workboat Outboard Profile, Plan and Bow View

2.3 145-98-010 Rev A, General ARR for Dive Boat (Preliminary)

2.4 600-6577276 Rev A, Outfitting Arrangement for New Dive Boat

2.5 145-6577272 Rev A, General Arrangement for New Dive Boat

2.6 111-6577273 Rev B, Structural Modification for Dive Boat Conversion

2.7 145-4777405 Rev E, 50 Workboat Hull Construction and Details

2.8 145-4777405 Rev D, 50 Workboat Hull Construction and Details

2.9 803-1624107 Rev D, Hatch WTRTT FL & L PF Ramped, INDV DG & QA, Grab, Lock Box & Misc Details

2.10 803-1624102 Rev F, Hatch WTRTT Flush INDV Dogged 48 x 48 W/O Scuttle-5 PSI ARR

2.11 631-6628003 Rev B, 50 FT. Workboat painting Schedule & Cathodic Protection

2.12 S9086-CH-STM-010/CH-074/V1/Rev 6, Welding and Allied Processes

2.13 S9086-DA-STM-010/CH-100/Rev 4, Hull Structures

2.14 T9074-AS-GIB-010/271 Rev-1, Requirements for Nondestructive Testing Methods

3. **REQUIREMENTS:**

3.1 After the craft is in dry dock or marine railway, remove marine growth and clean entire underwater hull using fresh water for visual inspection and preservation work on this work item. (See NOTE 4.4)

3.2 Open, ventilate, conduct gas free, empty, clean, render dry, and maintain each half pipe fender through the work item performance period.

3.2.1 Ensure that each harmful vapor, fume, and mist is ventilated to the exterior of the vessel.

(V) "REPORT"

3.2.1.1 Submit one legible copy of a report listing the location, origin, and quantity of each plug removed in 3.2 with respect to its half pipe fender, ship's frame and distance off centerline to SUPERVISOR after the inspection.

3.2.2 Remove and dispose of waste liquid that is not being stored for reuse to a Contractor provided waste liquid conveyance.

3.2.2.1 Contact the SRF-JRMC Detachment Sasebo ESH Division, Environmental Branch, S106.3 prior to transfer of waste liquid to the conveyance.

3.2.2.2 Provide watches and following spill kits (absorbent pads, booms, etc. for oil or chemical spill containment) at each affected area where waste liquid is being transferred to ensure that each liquid is not released to any shipboard compartment or the sea. In case of a spill, take immediate action to contain the spill, and contact S106.3.

3.2.2.3 Identify each transfer hose to the conveyance by affixing the company's name and each location pumping from on each hose.

3.2.2.4 Establish and maintain communication between the pumping station and the conveyance when the waste liquid is being transferred.

(V) "INSPECT PIPING AND HOSE ALIGNMENT"

3.2.2.5 Inspect alignment of each hose, valve and piping in the flow path prior to the start of pumping, purging, or flushing.

3.2.2.6 Accomplish a periodic walkthrough of each piping, hose, and valve alignment for leaks at least once an hour.

3.2.2.7 Pumping after sunset is not authorized unless approved by SUPERVISOR.

3.2.3 Steam clean each area where the removal of preservative is required.

3.2.4 Coordinate the off-loading or transferring of each fluid through the ship's Damage Control Assistant (DCA), via SHIPSUPT, to maintain ship's stability and to prevent flooding.

3.2.5 Upon completion of the repair and preservation work, preserve each existing steel pipe fender interior surface with new rust preventive compound conforming to MIL-PRF-16173, Grade One or 3, by completely filling and draining, using each new plug where missing or damaged.

(V) "REPORT"

3.3 Submit one legible copy of Marine Chemist certificate to SUPERVISOR including certified location.

3.4 Remove each existing coating for each area listed in 1.3.10 through 1.3.10.5 for visual inspection and UT thickness reading.

3.4.1 Accomplish a visual inspection of each exposed plating and fitting for deterioration, pitting, crack and damage of distortion for structural integrity to determine each repair area and repair recommendation, using Section 6 of 2.12, 100-2.8 of 2.13, and 2.2 through 2.10 for guidance.

(I) "UT THICKNESS READING"

3.4.1.1 Accomplish UT thickness reading of each expected reducing plating with ultrasonic thickness reading machine in accordance with Chapter 6 of 2.14, using 2.2 through 2.10 for guidance.
-Certified Contractor (Estimated 300 points)

(V) "REPORT"

3.4.1.2 Submit one legible copy of a report listing the results of requirement of 3.4.1 and 3.4.1.1 to SUPERVISOR including "exact location" and "repair size" on repair recommendation.

3.5 Accomplish the requirements for repair of dive boat structure as follows, using 2.2 through 2.10 for guidance.

3.5.1 Remove each existing, template, fabricate, and install each new flange plate listed in 1.3.1 out of each new 3/16 inch thickness CRES 304 plate conforming to ASTM A240 with each new CRES fastener.

3.5.2 Remove each existing, template, fabricate and install each new lock pad listed in 1.3.2 out of each new 1/4 inch thickness mild steel plate conforming to ASTM A36.

3.5.3 Remove each damage section, template, fabricate and install each new plate listed in 1.3.3 through 1.3.7 out of each new 1/8 inch thick mild steel plate (ASTM-A569), 3/16 and 1/4 inch thick mild steel plate (ABS Grade A), and 3/16 inch thick mild steel floor plate (ASTM-A786).

3.5.4 Vee-out and weld each damaged welding seam, butt and unwelded joint listed in 1.3.8.

3.5.5 Remove each damaged section, fabricate and install each new half pipe fender listed in 1.3.9 out of 6 and 8 inches NPS SCH-40 mild steel pipe conforming to ASTM A53.

3.5.6 Accomplish the requirements of **009-012** of 2.1, including Table 4, Column A, Line One through 7 for welding of 3.5.2 through 3.5.5. (See NOTE 4.3)

(V) "REPORT"

3.5.6.1 Ensure to notify which welding standard has been selected to SUPERVISOR.

3.5.6.2 Accomplish nondestructive test of each welded joint of primary structure in accordance with Line 9.

3.5.7 Accomplish the requirements of **009-025** of 2.1 for a local air hose test of each new welded joint of watertight boundary. Allowable leakage: None.

3.6 Accomplish the requirements of **009-025** of 2.1 for a completion air test of each half pipe fender listed in 1.3.9. Test pressure must be 2 PSIG. Allowable drop in pressure: None.

3.7 Accomplish the requirements of **009-032** of 2.1 including Table One, Line 5, Columns A, B, E (Black, Red and Black), and G for underwater hull listed in 1.3.10.1, Table 2, One system out of Line One, 1A, 2, and 4, Columns A, B, C, and G, or Line 3, Columns A, B, and G for freeboard above the boottop area listed in 1.3.10.2 and exterior hull above the deck area listed in 1.3.10.4, Table 2, One system out of Line One, 1A, 2 and 4, Columns A, B, C, and E, or Line 3, Columns A, B, and E for exterior deck area listed in 1.3.10.3, and Table 3, Line 6, Columns A, B, and E for interior deck of the pilot house area listed in 1.3.10.5, using 2.11 for guidance.

3.7.1 Power tool clean each narrow area to SSPC-SP-11 where blast nozzle cannot reach.

3.7.1.1 Power tool clean each narrow area to SSPC-SP-3 where power tool in 3.7.1 cannot reach.

3.7.1.2 Hand tool clean each narrow area to SSPC-SP-2 where power tool in 3.7.1.1 cannot reach.

3.7.2 Each draft mark must be same as existing.

3.8 Accomplish the requirements of **009-032** of 2.1 for cleaning and preservation of each new and disturbed surface to match surrounding areas.

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4. NOTES:

4.1 Initial Condition - Require repair and preservation for Dive Boat.

4.2 SRF Tool room will issue pressure gauges when required.

4.3 OPTION A) of Table 4 of 009-12 of 2.1 has been allowed to utilize under ELM-255171.

4.4 Dry docking and undocking of this dive boat will be covered by ICN 89ZAA85004_A01.

4.5 Replacement and preservation work for two scuttles and one deck access plate (removable hatch) will be covered by ICN 89ZAA85003_A01.

4.6 Repair and preservation work for two hatches will be covered by ICN 89ZAA85006_A01.

4.7 Cleaning work for each port and starboard fuel tank in the machinery room (2-12-0-E) will be covered by ICN 89ZAA85016_A01.

4.8 Cleaning work for each bilge area of the generator room (2-9-0-E) and the machinery room (2-12-0-E) will be covered by ICN 89ZAA85008_A01.

4.9 Removal and installation work for the engine propeller shaft cover will be covered by ICN 89ZAA85007_A01.

4.10 Replacement work for the awning will be covered by ICN 89ZAA85014_A01.

4.11 The contractor is responsible to dispose all waste generated by this work item in accordance with Japanese Environmental Governing Standards (JEGS).

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5. GOVERNMENT FURNISHED MATERIAL (GFM) :

5.1 Government Furnished Material as follows.

MATERIAL LIST

MATERIAL LIST									
ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	HAZ MAT	DOC NO.	QTY REQD/ UNIT	PARA NO.
001			M	PLATE,FLOOR,METAL,STEEL FLOOR PLATE, 4 FT X 10 FT X 3/16"THK, ASTM-A786	9B 9515 001873957	9		2/PM	3.5
002			M	PLATE,METAL,STEEL PLATE, 4 FT X 6 FT X 1/4"THK, ABS GR A (ASTM A36)	9B 9515 002336261	9		2/PM	3.5
003			M	PLATE,METAL,STEEL PLATE, 5 FT X 20 FT X 3/16"THK, ABS GR A (ASTM A36)	9B 9515 002375333	9		1/PM	3.5
004			M	SHEET,METAL,STEEL SHEET, 3 FT X 10 FT X 1/8"THK, ASTM-A569	9B 9515 001848467	9		3/SH	3.5
005			M	PLATE,METAL,50" X 12 FT X 3/16"THK, CRES 304, ASTM-A240	3B 9515 002044571	9		1/PM	3.5
006			M	PIPE,METALLIC,6"NPS SCH 40, ASTM-A106 GR B	9B 4710 010142591	9		20/FT	3.5
007			M	PIPE,METALLIC,6"NPS SCH 40, ASTM-A106 GR B	9B 4710 010142591	9		20/FV	3.5
008			M	PIPE,METALLIC,8"NPS SCH 40, ASTM-A106 GR B	9B 4710 003475110	9		20/FT	3.5
009			M	PIPE,METALLIC,8"NPS SCH 40, ASTM-A106 GR B	9B 4710 003475110	9		20/FT	3.5
010			M	ELECTROD,WELDING ROD, 3/32 IN DIA X 14 IN L, 7018-M, P/N 255014102, MIL-E-22200/10, U/I: 1CN=10LB NOTE: CERTIFICATION IS NOT REQUIRED	9G 3439 SA4742861	9		10/CN	3.5
011			M	ELECTROD,WELDING ROD, 1/8 IN DIA. X 14 IN L, 7018-M, P/N 255014110, MIL-E-22200/10, U/I: 1CN=10LB NOTE: CERTIFICATION IS NOT REQUIRED.	9G 3439 SA4742863	9		15/CN	3.5
012			M	ELECTROD,WELDING ROD, 5/32 INCH DIA, 14 INCH LG, 7018-M, MIL-E-22200/10, U/I; 10LBS/CN, P/N; 255014128 CERTIFICATION IS NOT REQUIRED.	9G 3439 SA4742865	9		10/CN	3.5
013			M	CORROSION PREVENTIVE,COMPOUND, MIL-PRF-16173 CL1 GR1, 5GL/CN	9B 8030 002441299	H		2/CN	3.2

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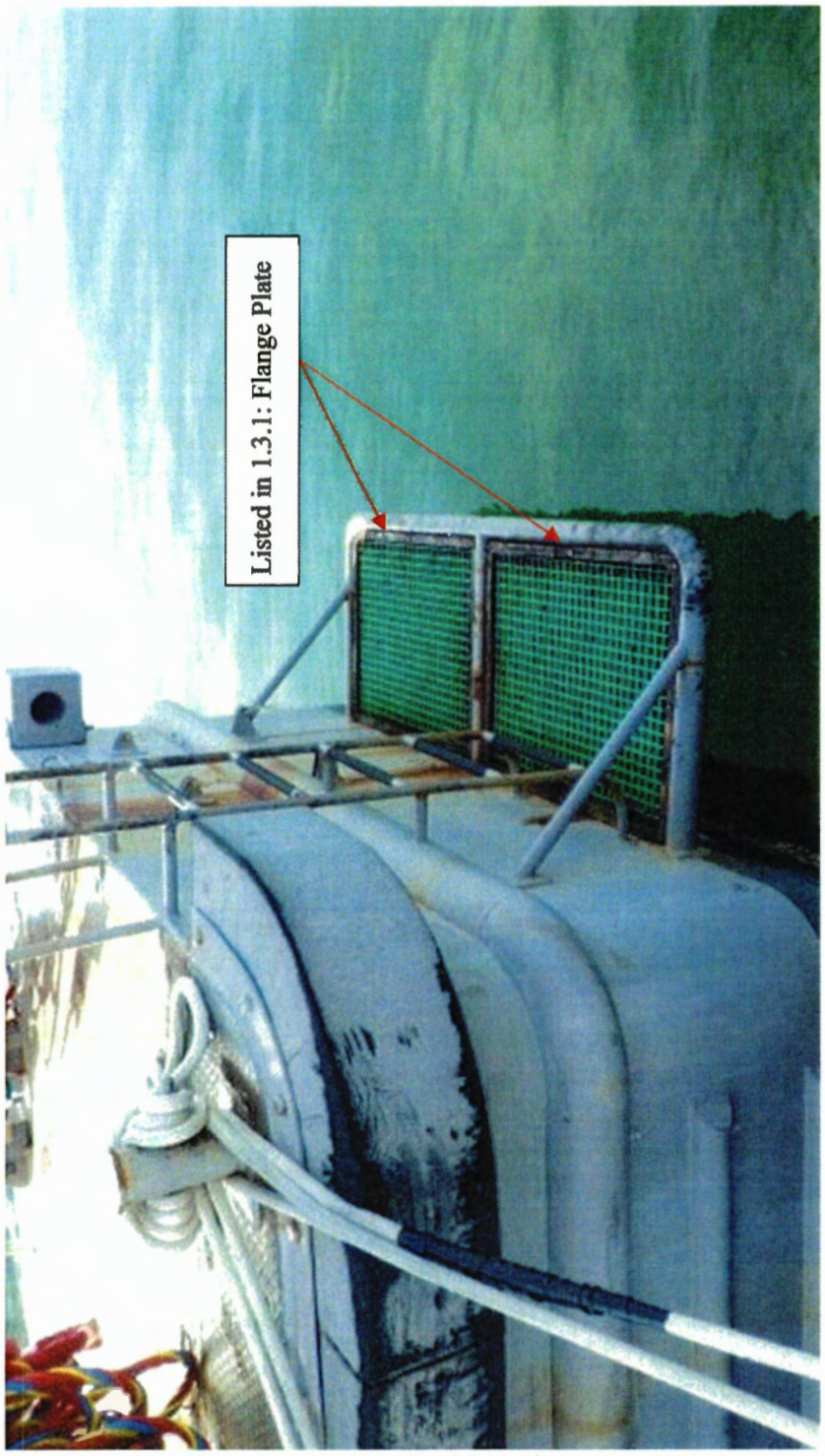

ENCLOSURE (A) 1/1