SHIP SYSTEM	SUBSYSTEM	MRC CODE
Shipboard Piping Systems		R-

SYSTEM	EQUIPMENT	RATES	M/H
		GS-11/12	24.0

TOTAL M/H

ELAPSED TIME

MAINTENANCE REQUIREMENT DESCRIPTION

1. Conduct SEMAT assessment procedure for piping system assessment.

SAFETY PRECAUTIONS

1. Forces afloat comply with NAVOSH Program Manual for Forces Afloat, OPNAVINST 5100.19 series.

TOOLS, PARTS, MATERIALS, TEST EQUIPMENT

TOOLS

1. [1350] Tape, measuring, 3/8" steel, 100 FT, hand crank
2. [2271] Flashlight, Type 3, style 1, explosive proof

NOTE: Numbers in brackets can be referenced to Standard PMS Materials Identification Guide (SPMIG) for stock number identification.

PROCEDURE

NOTE 1: Accomplish before availability, after availability, and before deployment.

1. **Conduct SEMAT Assessment Procedure for Piping System Assessment.**
   a. Assess the piping system for the following:
   (1) Piping hangers and valve supports for evidence of strain or twisting, deteriorated or missing bolting, cracked welds, and obstructions that would interfere with normal movement and expansion.
   (2) Loose, missing, improper size, incorrect material, ill-fitting or deteriorated bolts, studs, and nuts on mechanical fittings.
   (3) Rust, pitting, leaks or cracks in valves, piping, and mechanical joints.
   (4) Proper label, identification, and instruction plates. (Plates are inscribed, legible, and installed in readily visible locations.)
   (5) Missing, damaged, water or oil soaked insulation or lagging.

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LOCATION	DATE
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PROCEDURE (Contd)

(6) Damaged or missing handwheels or levers for valves.
(7) Damaged or crimped piping or gage lines. (8) Cracked, damaged, or deteriorated rubber expansion joints or flexible hose assemblies.
(9) Check instrumentation for evidence of physical damage or improper installation. Assess electrical instrumentation for damaged or exposed leads.
(10) Check all gages and instrumentation for calibration status.

NOTE 2: Pressure and temperature gages are required to be calibrated in accordance with section 504 of NSTM and GSO. CALIBRATION NOT REQUIRED labels shall be verified with the work center cognizant for the machinery or system served.

(11) Check inspection status on all flexible hose assemblies. Test and certification label plate should be attached to all flexible hose assemblies.
(12) Soft patches or other types of temporary pipe repairs.

NOTE 3: When leaks or cracks (other than at joints) or temporary pipe repairs are discovered, the affected section of piping shall be ultrasonically tested to ensure minimum wall thickness has not been compromised. Refer to SEMAT Assessment Procedure for Ultrasonic Testing of Piping Systems.

b. All discrepancies identified shall be indicated on the appropriate SEMAT discrepancy identification form (2-K or Material Assessment Form).

NOTE 4: The information provided on the discrepancy form must be sufficient to allow the component or section of the system affected to be identified without further assessment.

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