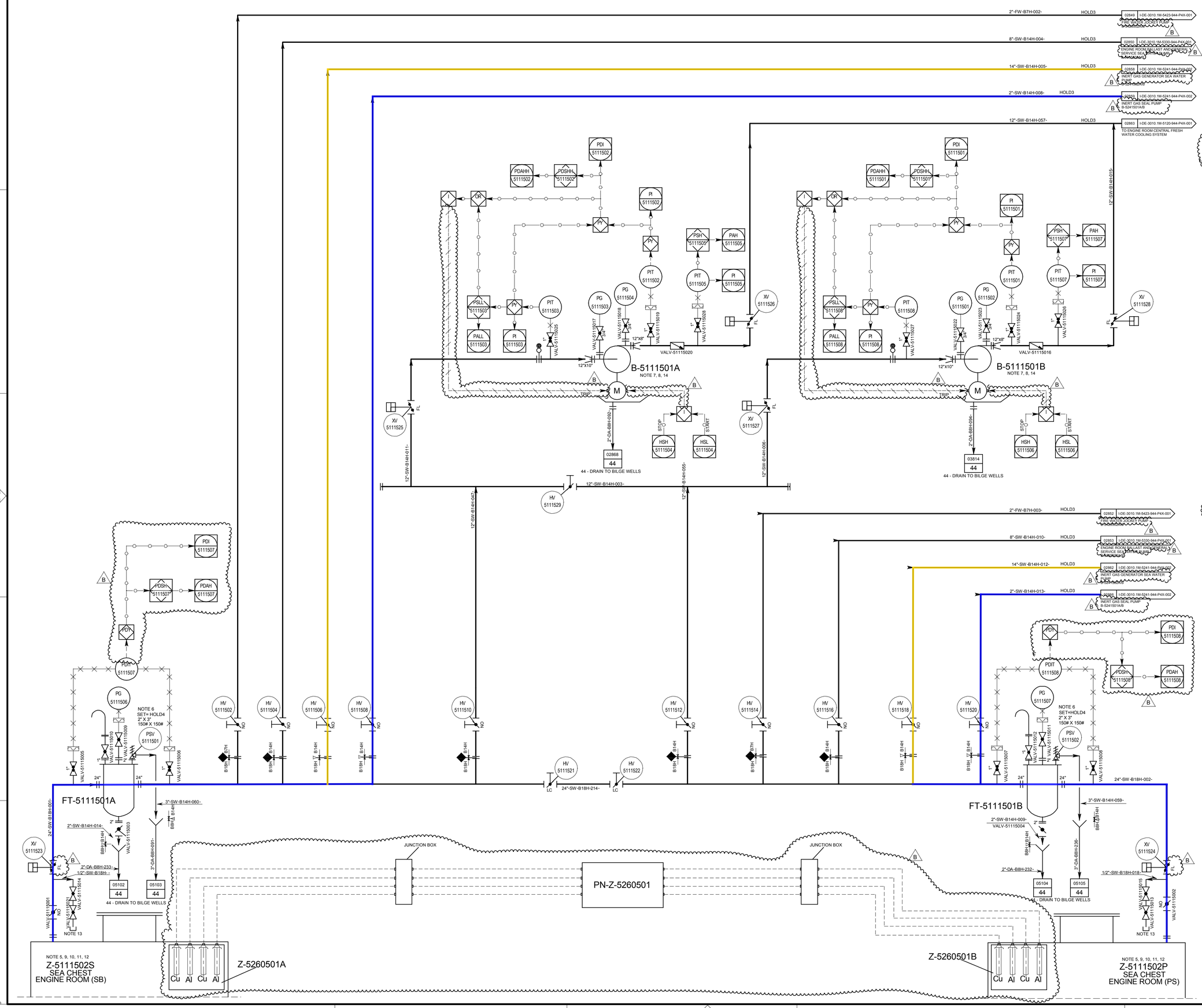

REFERENCE DOCUMENTS

- I-MD-3010.1M-1200-940-P4X-017 - DESCRIPTIVE MEMORANDUM - GENERAL
- I-DE-3010.1M-1200-944-P4X-001 - PIPING AND INSTRUMENT DIAGRAM - GENERAL NOTES
- I-ET-3010.1M-1200-200-P4X-002 - PIPING SPECIFICATION FOR HULL
- I-ET-3000.00-0000-940-P4X-002 - SYMBOLS FOR PRODUCTION UNITS DESIGN
- I-ET-3000.00-1200-940-P4X-001 - TAGGING PROCEDURE FOR PRODUCTION UNITS DESIGN
- I-DE-3010.1M-1350-960-P4X-002 - CAPACITIES PLAN
- I-ET-3010.00-1200-800-P4X-013 - GENERAL CRITERIA FOR INSTRUMENTATION PROJECTS
- I-ET-3010.00-5140-712-P4X-001 - LOW VOLTAGE INDUCTION MOTORS FOR OFFSHORE UNITS

EQUIPMENT

TAG	DESCRIPTION	TYPE	CAPACITY
B-5111501A/B (2 x 100%)	ENGINE ROOM COOLING SEA WATER PUMP	CENTRIFUGAL	600 m³/h
FT-5111501A/B (2 x 100%)	ENGINE ROOM COOLING SEA WATER PUMP STRAINER	BASKET	600 m³/h
PN-Z-5260501 (1 x 100%)	MARINE GROWING PROTECTION SYSTEM CONTROL PANEL	CONTROL PANEL	-
Z-5260501A/B (2 x 100%)	MARINE GROWING PROTECTION SYSTEM		-

GENERAL NOTES

1 - SYSTEM DATA
ENGINE ROOM COOLING SEA WATER SYSTEM
A) WORKING PRESSURE = HOLD2
B) DESIGN PRESSURE = HOLD2
C) TEST PRESSURE = HOLD2
D) WORKING TEMPERATURE = 27 °C
E) DESIGN TEMPERATURE = 50 °C

2 - THE CONNECTIONS FITTED BETWEEN THE SHELL AND THE VALVES ARE TO BE AT LEAST EXTRA HEAVY, IN ACCORDANCE WITH CLASSIFICATION SOCIETY.

3 - THE SEA CHESTS SHALL BE PROVIDED WITH WATERTIGHT COVER TESTED AT SHIPYARD.

4 - THE VALVES SHALL HAVE MEANS FOR MANUAL OPERATION IN CASE OF FAILURE OF THE HYDRAULIC SYSTEM.

5 - FOR SEA CHEST VENT SEE DRAWING I-DE-3010.1M-5415-944-P4X-004 - PIPING AND INSTRUMENT DIAGRAM VENTING AND SOUNDING SYSTEM.

6 - SAFETY VALVES DIAMETERS TO BE CONFIRMED.

7 - ELECTRIC MOTORS SHALL BE ACCORDING TO I-ET-3010.00-5140-712-P4X-001 - LOW-VOLTAGE INDUCTION MOTORS FOR OFFSHORE UNITS.

8 - AUTOMATIC STANDBY INDICATION IN SUPERVISORY SYSTEM.

9 - CLASSIFIED SEA SIDE VALVE, TO COMPLY WITH CLASSIFICATION SOCIETY RULES.

10 - MANHOLES SHALL BE PROVIDED IN SEA CHEST IN ORDER TO ALLOW MAINTENANCE AND INSPECTION.

11 - SEA CHEST SHALL BE PROTECTED BY MGPS (MARINE GROWTH PREVENTION SYSTEM).

12 - THE DETAIL FASE SHALL REPRESENT THE ANODES AND THE LOCAL PANEL OF THE SYSTEM.

13 - SHIPSIDE VALVE LEAK TESTING FACILITY CONNECTION.

14 - THE PARTICULATE SIZE ADMISSIBLE FOR THE PUMP SHALL BE IN ACCORDANCE WITH THE SEA CHEST FILTERS' MESH (FT-5111505P/S). IF IT WAS NOT POSSIBLE, ANOTHER FILTER SHALL BE ADDED UPSTREAM FOCUS DESIGN OF THE PUMP.

15 - THIS P&ID SHALL BE UPDATED DURING THE DETAIL DESIGN PHASE FOLLOWING ALL EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.

HOLD TABLE

1 - CANCELLED
2 - FINAL SYSTEM DATA
3 - DIAMETERS TO BE CONFIRMED.
4 - SAFETY VALVE SET PRESSURE CONFIRMATION.

REV.	DESCRIPTION	DATE	EXEC.	CHECK	APPROV.
B	REVISED WHERE INDICATED ACCORDING TO HAZOP COMMENTS	29 Jul 2019	APMORERA.TGP	RODBAT	CHRISTINO
A	REVISED WHERE INDICATED	04 Jun 2019	GMONTERO	RODBAT	CHRISTINO
0	ORIGINAL ISSUE	13 Mar 2019	MPERRONE.TGP	GEHRING	CHRISTINO

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SPPID/V2014/I-DE-3010.1M-5111-944-P4X-004_B.pid

PETROBRAS — DP&T-SRGE

CLIENT: SRGE
JOB: REFERENCE BASIC DESIGN
AREA: BÚZIOS
TITLE: PIPING AND INSTRUMENT DIAGRAM ENGINE ROOM SEA WATER COOLING SYSTEM

DESIGN	EXEC.	CHECK	APPROV.
ESUP	MPERRONE.TGP	GEHRING	CHRISTINO
SCALE: NO SCALE	DRAWING	1001056398 0010	SHEET 01 of 01
NP-1		ESUP	
DATE 6/11/2019	No. I-DE-3010.1M-5111-944-P4X-004		

A1 841mm X 594mm