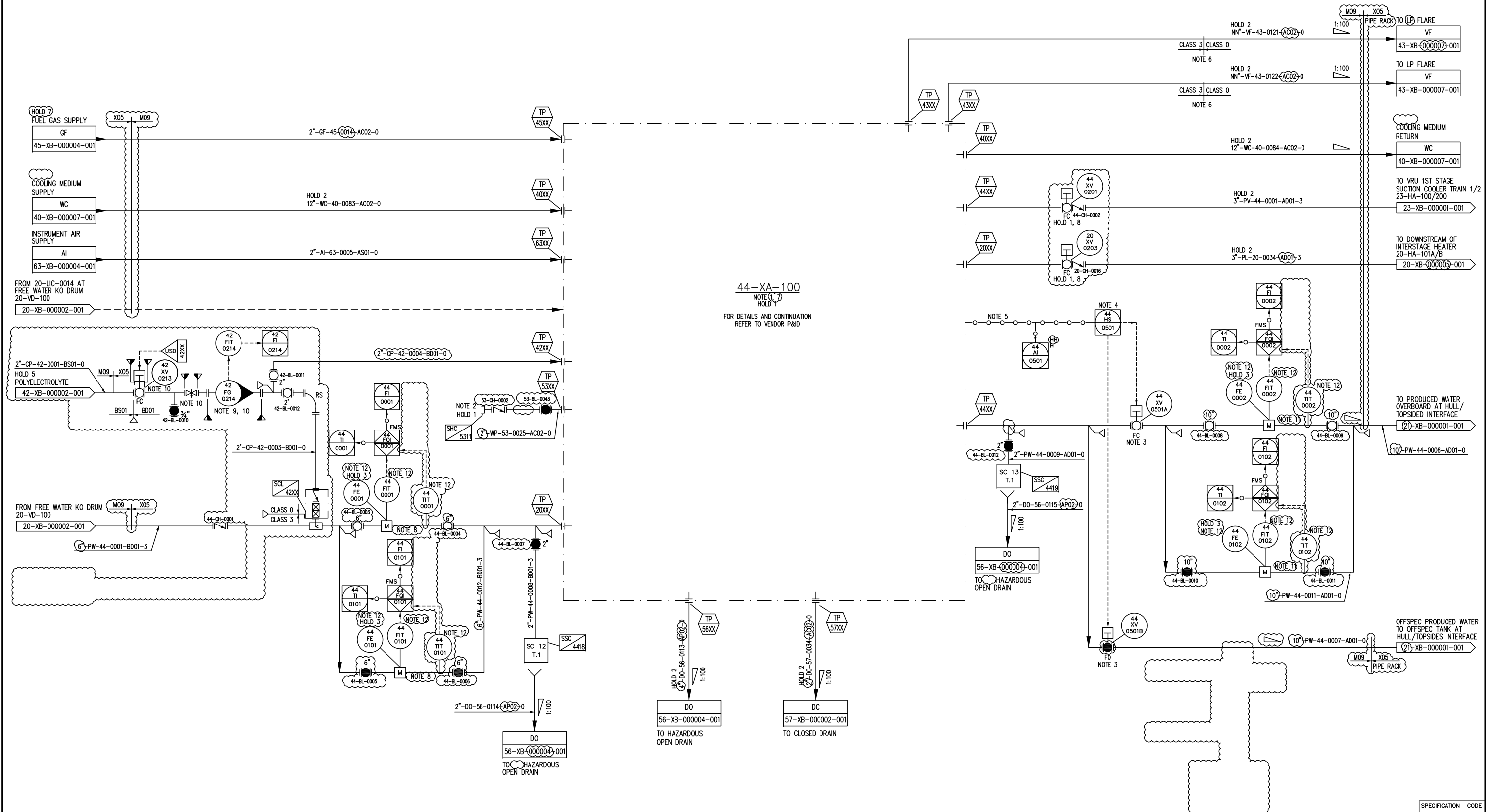


44-XA-100 (NOTE 1)  
 PRODUCED WATER PACKAGE  
 RATED CAPACITY (m<sup>3</sup>/d) (4800)



- NOTES:**
- PRODUCED WATER PACKAGE CONSISTS OF THE HYDROCYCLONE (2x50%) AND GAS FLotation UNIT (1x100%) AND ITS ASSOCIATED EQUIPMENTS.
  - EQUIPMENT IN THE PACKAGE INCLUDES THE FOLLOWING (HOLD 1):
    - PRODUCED WATER COOLER (2x50%)
    - PRODUCED WATER BOOSTER PUMPS (2x100%)
    - SKIMMED OIL RETURN PUMPS (2x100%)
  - FRESH WATER FOR FIRST FILL/MAKE-UP.
  - PAIR OF VALVES, ONE OPEN, ONE CLOSE THAT ARE ACTUATED SIMULTANEOUSLY TO MOVE IN OPPOSITE DIRECTION.
  - OVERBOARD DISCHARGE SPECIFICATION BASED ON CONAMA RES 393/2007. ALLOWABLE OIL IN WATER DISPOSAL BASED ON 24 HOURS ROLLING AVERAGE OF <math>42\text{mg/l}</math> AND MONTHLY AVERAGE OIL IN WATER OF <math>29\text{mg/l}</math> WILL OPEN 44-XV-0501A TO OVERBOARD. 44-XV-0501B WILL OPEN TO SEND OFF-SPEC PRODUCED WATER TO OFF-SPEC TANK IF READINGS EXCEED EITHER ONE OF THE AVERAGE FIRST.
  - SIGNAL COMING FROM TOTAL OIL IN WATER ANALYSER (VENDOR SCOPE).
  - PERSONNEL PROTECTION INSULATION UP TO ACCESSIBLE AREA.
  - PACKAGE IS P2 TYPE. REFER TO VENDOR P&IDs FOR DETAILS.
  - ALLOCATION METERING SUPPLIED BY FLOW METERING SYSTEM.
  - ROTAMETER TO BE INSTALLED IN VERTICAL POSITION.
  - FLOW METER WITH TRANSMITTERS, THROTTLING VALVE AND SHUT-OFF VALVE TO BE SUPPLY LOOSE BY CHEMICAL PACKAGE VENDOR.
  - OPERATIONAL METERING SUPPLIED BY FLOW METERING SYSTEM.
  - FLOW METER (INCLUDING FLOW ELEMENT) AND TEMPERATURE TRANSMITTERS TO BE SUPPLY LOOSE BY FLOW METERING VENDOR.

- GENERAL NOTES:**
- REFER TO THE LEGEND SHEETS, 00GTR02-04-P-00-XB-000001-001 TO 000012-001 FOR THE SYMBOLS, ABBREVIATIONS AND P&ID STANDARD ARRANGEMENT USED IN THE P&IDs INCLUDING INSTRUMENT LOOP TYPES, ACTUATED VALVE TYPES, MOTOR CONTROL TYPES AND SAMPLING CONNECTION TYPES.
- HOLDS:**
- DETAILS OF EQUIPMENT AND NUMBER OF TIE-INS PENDING VENDOR SELECTION.
  - LINE SIZE.
  - STRAIGHT LENGTH REQUIREMENT UPSTREAM AND DOWNSTREAM OF FLOW METER TO COMPLY WITH FLOW METER SELECTION.
  - DELETED.
  - TYPE OF CHEMICALS REQUIRED.
  - DELETED.
  - REQUIREMENT OF INERT GAS REPLACING FUEL GAS.
  - SCOPE OF SUPPLY.

REV	DATE	DESCRIPTION	DRAWN	CHKD	APPD
B	13-FEB-2015	ISSUED FOR HAZOP	NNY	LQ/CGC	TCH
A	05-JAN-2015	ISSUED FOR REVIEW	NNY	LQ/CGC	TCH

SPECIFICATION CODE

**JURONG SHIPYARD PTE LTD**  
 (A Subsidiary of SembCorp Marine Ltd)  
 SINGAPORE  
 ENGINEERING DEPARTMENT D312 SECTION

OWNER:

PROJECT: **FP50 Pioneiro de Libra**

JOB NO: 22-0508

OOGTK DOCUMENT NO.: 00GTR02-04-P-44-XB-000001-001    OOGTK SFI: 444

SUB-CON DOCUMENT NO.: 5982-44-PID-0031-00001

CLASS: ABS

SCALE: NTS    JSPL DOCUMENT NO.: 0508-TP100-935-01-02-01

FORMAT: A1

SHEET: 001    REV: B    OOGTK DOC STATUS CODE: 3