



HBG-1020
TEST INLET HEATER
 DUTY, kW: 2,257
 SHELL SIDE DP, kPag / DT, °C: 2,500 / 180.0
 SHELL SIDE OP, kPag / DT, °C: 1,450 / 150
 TUBE SIDE DP, kPag / DT, °C: 3,500 / 180.0
 TUBE SIDE OP, kPag / DT, °C: 969 / 60
 CONFIGURATION: 1x100%
 MATERIAL: SHELL: CARBON STEEL + 3mm-CA
 TUBE: DUPLEX S.S.
 TUBESHEET: CARBON STEEL + DUPLEX WELD OVERLAY
 TEMA TYPE: AET

MBD-1015
FREEWATER KO DRUM
 DP, kPag / DT, °C: 3,500 / 110.0
 OP, kPag / DT, °C: 899 / 48 TO 77
 CONFIGURATION: 1x100%
 MATERIAL: BODY: CARBON STEEL
 + 3mm 904L CLADDING
 INTERNALS: DUPLEX S.S.

MBD-1025
TEST SEPARATOR
 DP, kPag / DT, °C: 3,500 / 110.0
 OP, kPag / DT, °C: 899 / 79.0
 CONFIGURATION: 1x100%
 MATERIAL: BODY: CARBON STEEL
 + 3mm 904L CLADDING
 INTERNAL: DUPLEX S.S.

PBA-1030A/B
TEST SEPARATOR OIL PUMP
 CAP., m³/day: 4,008
 AP, kPa: 918-1,072
 POWER, kW: 78.7
 TYPE: CENTRIFUGAL
 CONFIGURATION: 2x100%
 MATERIAL: API 610 D-1

- NOTES:**
- MOTIVE GAS DURING FLOWLINE PUMP OPERATION.
 - A 20m³ SLUG VOLUME IS PROVIDED BETWEEN NLL AND LAH SET POINT IN FWKO.
 - REQUIRED WHEN TEST SEPARATOR OPERATED LOWER THAN ELECTROSTATIC TREATER 1ST STAGE PRESSURE.
 - A 10m³ SLUG VOLUME IS PROVIDED BETWEEN NLL AND LAH SET POINT IN TEST SEPARATOR.
 - PROVISION TO ROUTE TO NON-METERED OFF-SPEC TANK FOR SPECIAL OPERATIONS.
 - ANY SAMPLING TO BE UPSTREAM OF CHEMICAL INJECTION POINT.

HOLDS:

ISSUED FOR CONSTRUCTION
 25 AUGUST 2015

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REV	DATE	REVISION DESCRIPTION	ORIG	CHKD	LDE	EM
0	25AUG15	IFC	VPN	LAL	SVK	TXM
C1	13APR15	REVISED - IFD	VPN	SAH	SVK	TXM
C	19JAN15	IFR	VPN	SAH	SVK	TXM
B4	04NOV14	IFR	VPN	KN	MY	TXM

Schahin **MODEC**

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 Checked by: S. ANAND
 Date: 03 NOVEMBER 2014
 Scale: NONE

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PETROBRAS

PROJECT: FPSO Cidade de Campos dos Goytacazes MV29

TITLE: PROCESS / UTILITY FLOW DIAGRAM
 FREEWATER KO DRUM / TEST SEPARATOR

MODEC DOCUMENT NUMBER: **0428-MI20-90DP-3010** REV: **0**