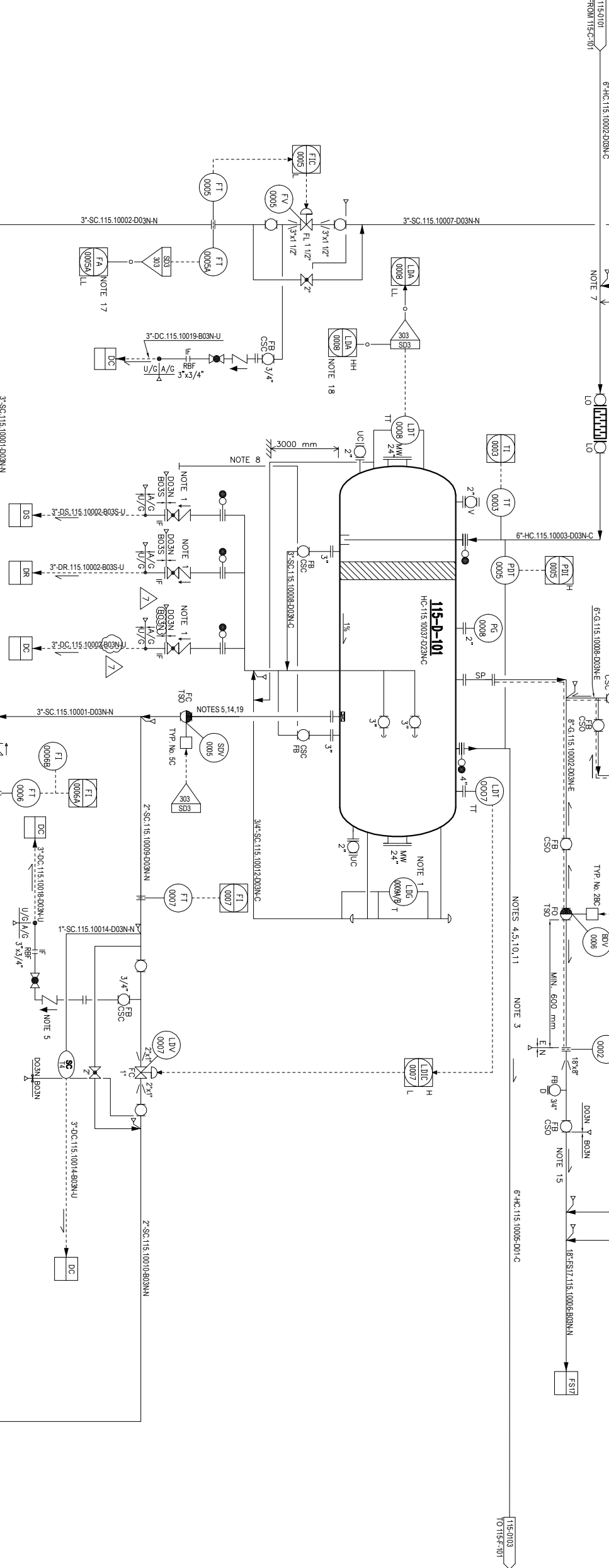


ITEM	115-D-101	SERVICE	C4 WATER WASH DRUM
SERVICE	C4 WATER WASH DRUM	TYPE	2300 mm x 9200 mm
DESIGN PRESSURE	24.0 / FV barg	CAPACITY	10.0 m ³ /h
DESIGN TEMPERATURE	85°C	DIFFERENTIAL PRESSURE	3.8 bar
INSULATION	YES	ABSORBED POWER	3.3 kW

ITEM	115-P-101 A/B (2x100%)	SERVICE	C4 WATER CIRCULATION PUMPS
SERVICE	C4 WATER CIRCULATION PUMPS	TYPE	CENTRIFUGAL
DESIGN PRESSURE	24.0 barg	CAPACITY	10.0 m ³ /h
DESIGN TEMPERATURE	85°C	DIFFERENTIAL PRESSURE	3.8 bar
INSULATION	YES	ABSORBED POWER	3.3 kW

ITEM	115-P-104 A/B (2x100%)	SERVICE	C4 WATER MAKE-UP PUMPS
SERVICE	C4 WATER MAKE-UP PUMPS	TYPE	RECIPROCATING
DESIGN PRESSURE	24.0 barg	CAPACITY	0.2 m ³ /h
DESIGN TEMPERATURE	85°C	DIFFERENTIAL PRESSURE	3.5 bar
INSULATION	YES	ABSORBED POWER	3 kW

115-M-101



NOTES

- LDG ON 115-D-105 TO BE READABLE FROM GLOBE VALVES ON VESSEL DRAINS.
- BY-PASS FOR 101 C4 WATER WASH DRUM FILLING DURING START-UP.
- LINE TO BE DRAINABLE TO 115-D-101 OR TO 115-F-101 TO AVOID WATER ACCUMULATION IN LOW POINTS.
- VALVE EQUIPPED WITH AIR RESERVE.
- FIRE RESISTANT VALVE/ALL INSTRUMENTS BOX PROTECTION, TUBING CABLES, ETC. WILL BE SELECTED AND CLASSIFIED ACCORDING TO THIS PROTECTION.
- DELETED.
- CONNECTION ON TOP OF THE LINE.
- PRESERVE OF PG POSSIBILITY OF FREEZING VALVES IN CASE OF MISOPERATION. MINIMUM DISTANCE BETWEEN 2 VALVES SHALL BE 600 mm.
- SPARE RELIEF VALVES STORED IN WAREHOUSE.
- VALVE LOCATED AT HIGH POINT.
- AIR RESERVE TO BE SIZED TO BE ABLE TO COMMAND FOR 3 STROKES VALVE OPERATING DURING AIR INSTRUMENT FAILURE.
- DELETED.
- TO BE LOCATED FAR FROM PUMPS. FLOW RATE IS ADJUSTED MANUALLY.
- SOLUTION VALVE TO BE LOCATED AT MINIMUM DISTANCE FROM 115-D-101.
- TWO PHASES FLOW LINES, NEED FOR REINFORCED ANCHORING.
- FOR FILTER ARRANGEMENT REFER TO TABLE 'X' ON PD-178-999-003-0006
- ON LOW FLOW DUTY PUMP IS STOPPED AND STRANDBY PUMP STARTED.
- AFTER 30 SECONDS FLOW REMAINS LOW LOW BOTH PUMPS ARE TRIPPED.
- LAHH-0008 IS ALARM ONLY.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104A WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104B WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104C WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104D WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104E WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104F WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104G WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104H WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104I WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104J WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104K WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104L WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104M WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104N WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104O WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104P WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104Q WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104R WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104S WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104T WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104U WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104V WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104W WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104X WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104Y WHEN RUNNING.
- SDV-0005 CLOSED INDICATION TRIPS ALINE SOLUTION CIRCULATION PUMPS 115-P-104Z WHEN RUNNING.

GENERAL NOTES

- ALL INSTRUMENT TAGS TO READ:
LETTERS: NUMBER
1151 FFFF NNNN

HOLDS

- DELETED.
- DELETED.
- DELETED.

THIS P&ID IS BASED ON DRAWING NO. 115-SPD-288 SUPPLIED BY AXENS.

EQUIPMENT LIST		
DRUM	WATER	PUMPS
115-D-101	115-P-101A/B	
	115-P-104A/B	

UTILITY PID NUMBER

DC	PD-1718-186-004-0005
DR	PD-1718-186-004-0005
FS17	PD-1718-186-004-0004
SC	PD-1718-186-004-0005

REV	DATE	DESCRIPTION	ORIG	PREP	CHKD	APPD	AUTHD
7	28/01/13	APPROVED FOR CONSTRUCTION	QEC1	SD	SM	SM	RM
6	02/02/12	APPROVED FOR CONSTRUCTION	QEC1	SM	MA	MA	RM
5	28/11/10	APPROVED FOR CONSTRUCTION	QEC1	SM	MA	MA	RM
4	09/10/10	APPROVED FOR CONSTRUCTION	QEC1	SM	MA	MA	RM
3	22/12/09	APPROVED FOR DESIGN	QEC1	SM	MA	MA	RM
2	03/09/09	ISSUED FOR COMMENT	QEC1	SM	MA	MA	RM
1	28/11/08	APPROVED FOR DESIGN	QEC1	SM	MA	MA	RM
0	03/09/08	ISSUED FOR HAZOP	QEC1	SM	MA	MA	RM

SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17&18
ASSALUYEH-RAN
ONSHORE FACILITIES

PROJECT No: PDGC-8481-244	DOC CLASS	1	SCALE	N/A
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UNIT 115 BUTANE TREATMENT AND DRYING
WATER WASH DRUM
PIPING AND INSTRUMENT DIAGRAM

DRAWING No.	PID-1718-115-0030-0102	REVISION	7
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