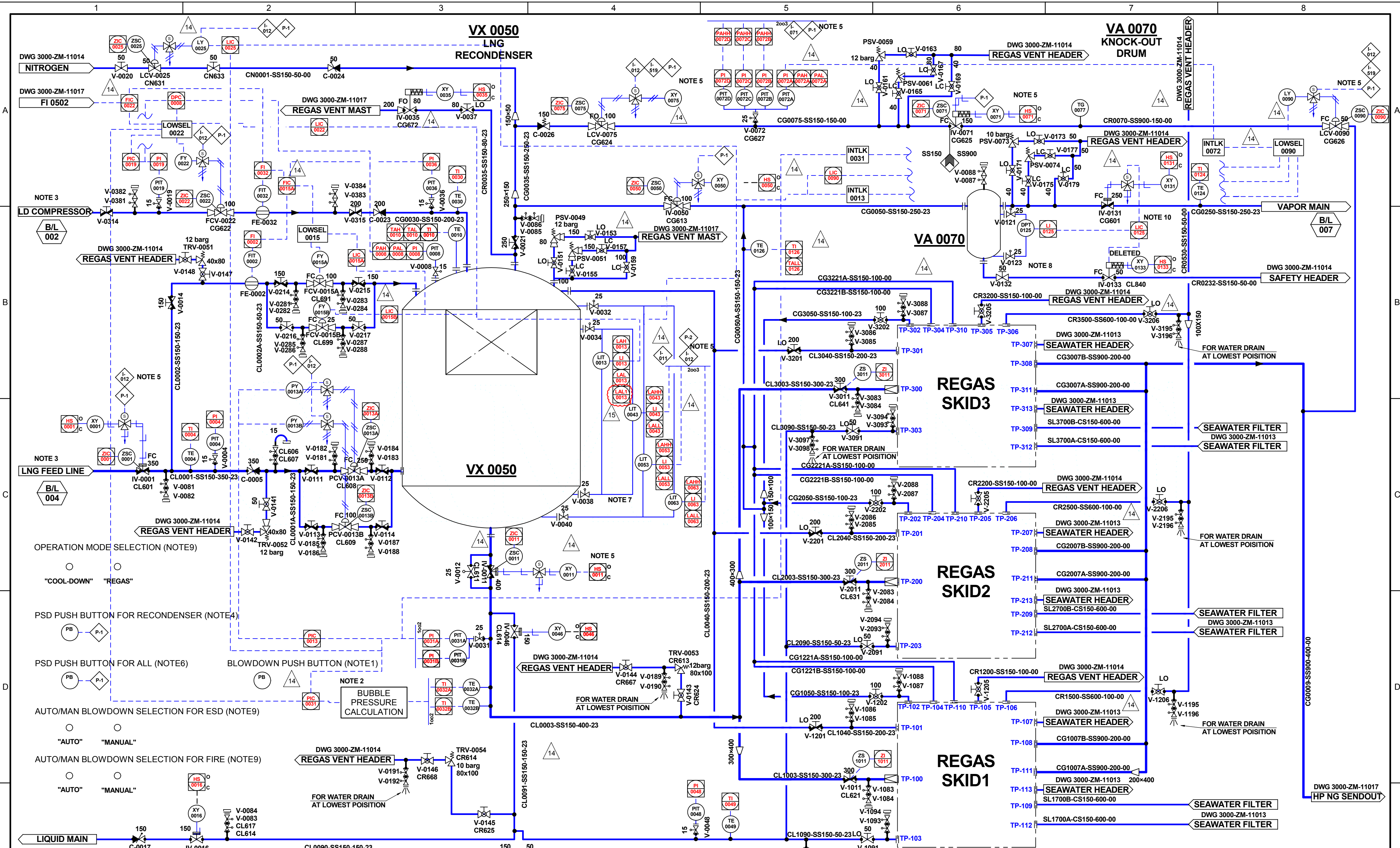


1		2		3		4		5		6		7		8					
PIPING SYMBOL		VALVE SYMBOL		CONTROL AND OPERATING DEVICE		TAGGING OF PIPING AND LINE		TAGGING OF INSTRUMENTATION / EQUIPMENT				IDENTIFICATION OF PIPING							
A		NOT CONNECTED CROSSING PIPES			GLOBE STOP VALVE		HAND-OPERATED	AA B XXX Y EENN DD CC		AA B XXX Y				CL LIQUID LINE					
		CONNECTED CROSSING PIPES			3-WAY VALVE		REMOTE CONTROL	AA	IDENTIFICATION OF PIPING		AA	IDENTIFICATION OF LETTER / EQUIPMENT		CS SPRAY / STRIPPING LINE					
		TEE PIPE			LIFT CHECK VALVE (ARROWHEAD MAY BE OMITTED)		SPRING	B	EQUIPMENT LOCATION CODE		B	EQUIPMENT LOCATION CODE		CG VAPOUR / GAS LINE					
		FLEXIBLE JOINT FLEXIBLE PIPE JOINT			SCREW DOWN STOP CHECK VALVE (ARROWHEAD MAY BE OMITTED)		WEIGHT	XXX	SEQUENTIAL NUMBER		XXX	SEQUENTIAL NUMBER		CN NITROGEN LINE					
		FLANGED JOINT			SWING CHECK VALVE (ARROWHEAD MAY BE OMITTED)		FLOAT	Y	PARALLEL ITEM		Y	PARALLEL ITEM		CR RELIEF LINE					
		REDUCER			PRESSURE REDUCING VALVE		HYDRAULIC CONTROL	EENNN	PIPING CLASS IDENTITY						SA SAMPLING LINE				
		SCREWED JOINT			SPRING LOADED CHECK VALVE (FLAP) (ARROWHEAD MAY BE OMITTED)		DIAPHRAGM MEMBRANE	DD	NOMINAL DIAMETER (DN)						FM FLOW METER				
		WELDED JOINT			FLAP SWING CHECK VALVE (ARROWHEAD MAY BE OMITTED)		ELECTRIC MOTOR DRIVEN	CC	INSULATION CLASS						SL SEAWATER LINE				
		SLEEVE TYPE EXPANSION JOINT			SAFETY VALVE		AIR MOTOR DRIVEN	IDENTIFICATION OF LETTERS				EQUIPMENT IDEDNTIFICATION							
		DRESSER TYPE EXPANSION JOINT			SELF CLOSING VALVE (ARROWHEAD MAY BE OMITTED)		SOLENOID DRIVEN												
B		BELLOWS TYPE EXPANSION JOINT			REGULATING VALVE		WAX DRIVEN		1st LETTER		2nd LETTER		3rd LETTER		4th LETTER		5th LETTER	CA REGENERATIVE FILTER	
		RUBBER COMPENSATOR			BUTTERFLY VALVE (WAFER)	LC	LOCKED CLOSED	A	ABSOLUTE		ALARM / ABNORMAL		ALARM		CONTROL / CLOSE		CONTROL	HA SHELL AND TUBE HEAT EXCHANGER	
		EXPANSION PIPE JOINT			BUTTERFLY VALVE (FLANGED OR LUGGED)	LO	LOCKED OPENED	C			CONTROL							PA CENTRIFUGAL PUMP	
		BLANK(BLIND) FLANGE			GATE VALVE	NO	NORMAL OPENED	D	DIFFERENTIAL		DIFFERENTIAL								VA SEPERATOR
		SPOOL PIECE			HOSE VALVE	NC	NORMAL CLOSED	E	EXTREME		ELEMENT		EXTREME		ELEMENT				
		HOSE COUPLING			NEEDLE VALVE			F	FLOW/FLOAT										
		SPECTACLE FLANGE (OPEN)			RELIEF VALVE			G	GAS		GAUGE		GAUGE						
		SPECTACLE FLANGE (CLOSE)			COCK			H	HAND		HIGH		HIGH		HIGH		HIGH		
		CONICAL TYPE STRAINER			3-WAY COCK (L-PORT)			I	CONSOLE OPERATED		INDICATOR		INDICATOR						
		SIMPLEX STRAINER			3-WAY COCK (T-PORT)			L	LEVEL		LEVEL / LIGHT		LOW / LEVEL		LOW		LOW		
C		Y TYPE STRAINER			BALL VALVE			P	PRESSURE		PRESSURE		OPEN						
		ORIFICE			3-WAY BALL VALVE (L-PORT)			O			OUTPUT								
		FLOWMETER			REMOTE OPERATED VALVE			R			RELIEF / READY								
		RUPTURE DISC			SELF REGULATING VALVE			S	STATE		SWITCH / SAFETY		SWITCH						
		OFF CONNECTION						T	TEMPERATURE		TRANSMITTER		TRANSMITTER						
		PIPING SPEC BREAK						U											
		TIE POINT						V	VERY / VELOCITY		VALVE		VALVE						
		BATTERY LIMIT						W											
	EQUIPMENT SYMBOL		CONNECTION TYPE		GENERAL NOTES														
D																			
E			CENTRIFUGAL PUMP		LINES														
			SHELL & TUBE HEAT EXCHANGER																
			ELECTRICAL MOTOR																
			SUBMERGED HIGH PRESSURE PUMP																
			VESSEL																



NOTES:

1. LOCATED AT CARGO CONTROL CONSOLE.

2. LD COMPRESSOR LOAD IS LIMITED BY LNG CONDITION AT THE SUCTION OF HP BOOSTER PUMP.

3. COMMUNICATION SIGNALS TO BE CONFIRMED LATER.

4. LOCATE AT LOCAL. (NEAR TO THE RECONDENSER)
5. P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-011: LALL-LI 0013/0043/0053
I-012: LAHH-LI 0013/0043/0053
I-071: PAHH-PI 0072B/C
I-095: LAHH-LI 0125
I-096: TALL-TI 0126

6. LOCATE AT BOSUN STORE ENTRANCE, FWD END TRUNK DK, HIGH PRESS. MANIFOLD PORT/STBD (TOTAL 4 EA AT LOCAL).

7. MINIMUM DISTANCE FROM NOZZLE TO LIT: 4m.

8. IF THE LEVEL IS INDICATED, INTERLOCK IS ACTIVATED.

9. MODE SELECTION IS PREPARED ON THE REGAS CONTROL MIMIC.

10. ON/OFF CONTROL

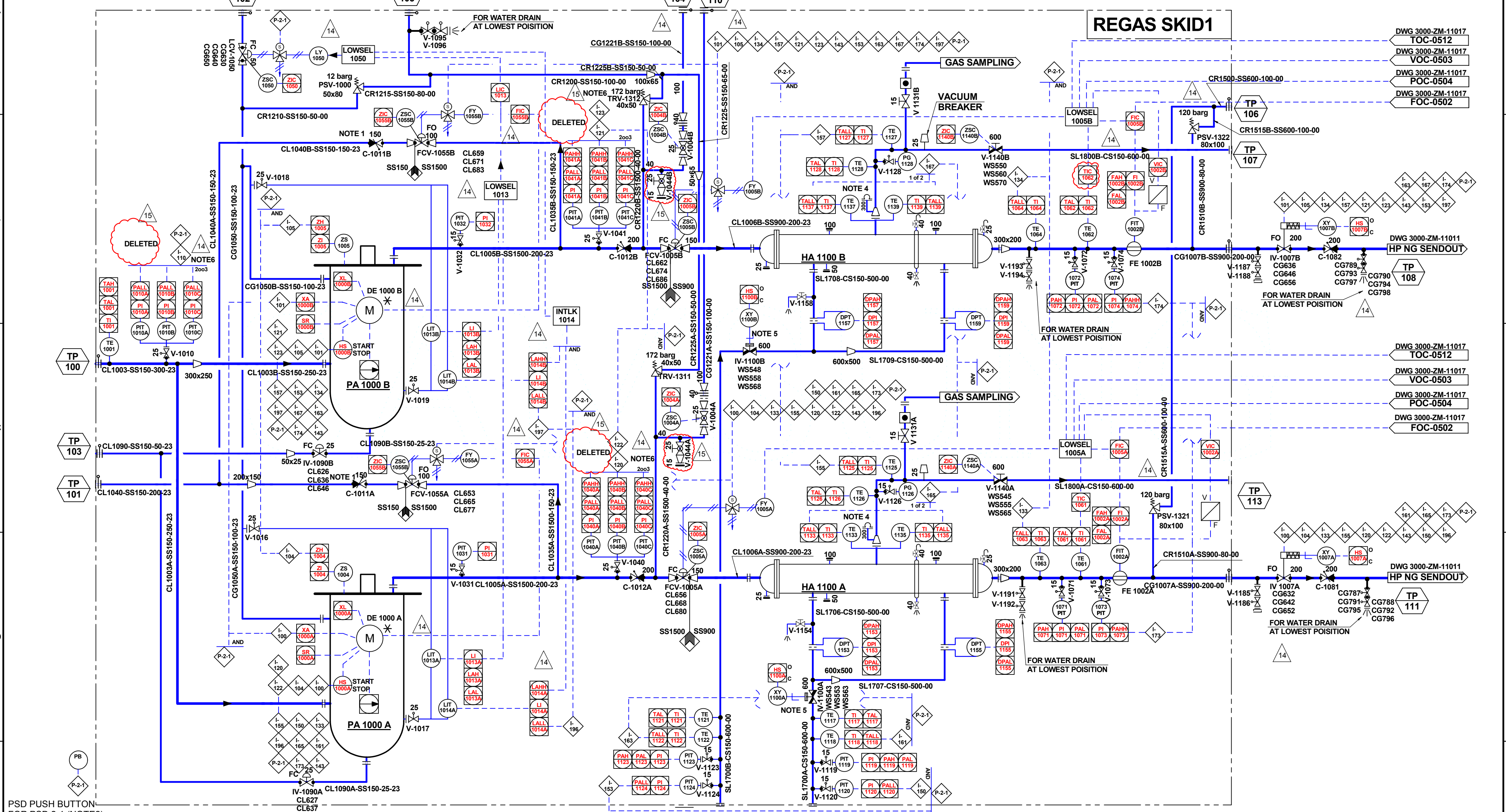
TITLE : REGAS				
P&ID - LNG Regasification				
HULL NO.: SN2074		DWG.NO. : 3000-ZM-11011		15 / 01 05
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD				

REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT
15	2015.07.23	Issued for SN2074	JCL	GJG	HBV	
14	2014.12.04	Issued for HN2074	JCL	KWM	HBV	
13	2013.09.01	Issued for HN2074	JCL	GJG	HBV	

PA 1000 A/B
HIGH PRESSURE
BOOSTER PUMP

HA 1100 A/B
LNG/SEAWATER
HEAT EXCHANGER

REGAS SKID1



PSD PUSH BUTTON
FOR PSD 2-1 (NOTE2)

NOTES:

- CONTAINS DRAIN HOLE
- LOCATED AT NEAR TO SKID 1
- P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2-1: PSD2 (SHUTDOWN SKID #1)
I-096: TALL-TI 0126
I-100: MOTOR A FAULT
I-101: MOTOR B FAULT
- I-104: PUMP A POSITION HIGH (ZI 1004)
I-105: PUMP B POSITION HIGH (ZI 1005)
I-110: PALL-PI 1010B/1010C
I-120: PALL-PI 1040A/B/C
I-121: PALL-PI 1041A/B/C
I-122: PAHH-PI 1040A/B/C
I-123: PAHH-PI 1040A/B/C
I-133: TALL-TI 1063
I-134: TALL-TI 1064
I-143: CARGO FEED PUMP TRIP (Time delay 3min.)

- I-150: PALL-PI 1120
I-153: PALL-PI 1124
I-155: TALL-TI 1125
I-157: TALL-TI 1127
I-161: TALL-TI 1118
I-163: TALL-TI 1122
I-165: TALL-TI 1133/1135
I-167: TALL-TI 1137/1139
I-173: PAHH-PI 1073
I-174: PAHH-PI 1074

- I-196: LALL-LI 1014A
I-197: LALL-LI 1014B
- THE OUTLET FLOW OF RUPTURE DISC TO BE DIRECTED TOWARD OPEN DECK
- THE VALVE WILL BE KEPT POSITION IN CASE OF FAILURE

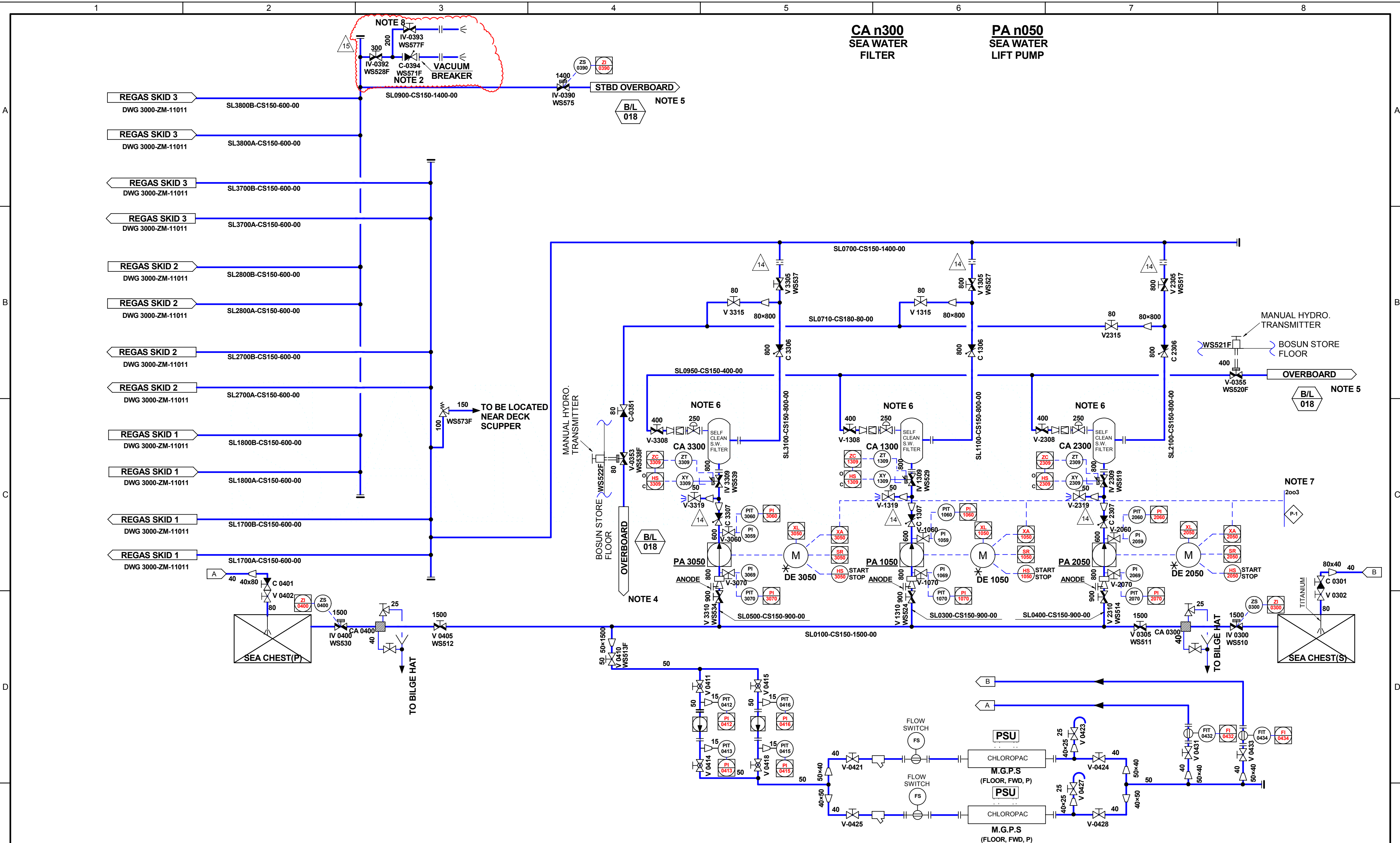
- PSD VOTING FUNCTION AS 2 OUT OF 3 BY THREE(3) PSD SIGNAL

REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT
15	2015.07.23	Issued for SN2074	JCL	GJG	HBV	
14	2014.12.04	Issued for HN2074	JCL	KWM	HBV	
13	2013.09.01	Issued for HN2074	JCL	GJG	HBV	

TITLE : REGAS

P&ID - LNG Regasification

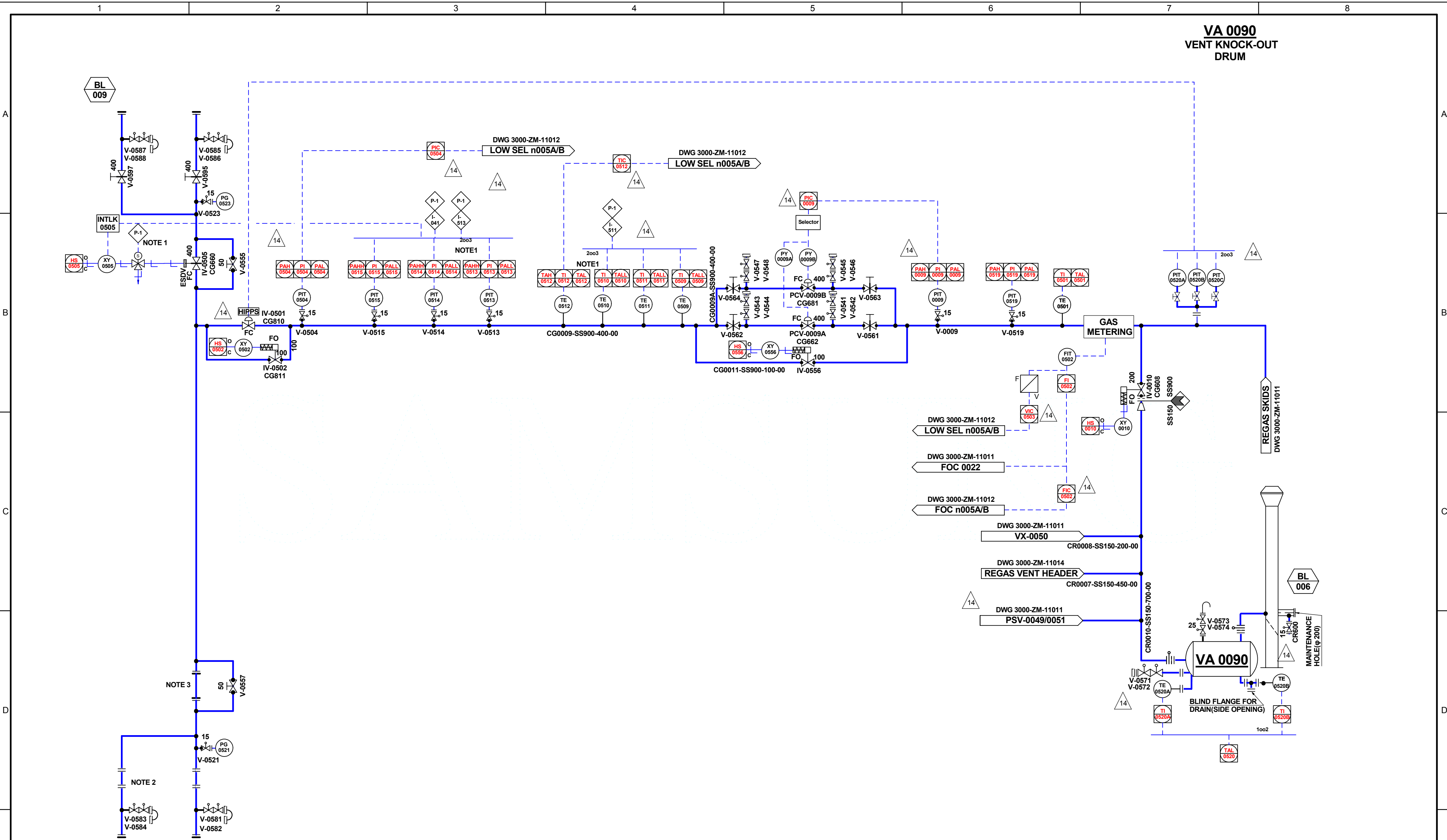
HULL NO.: SN2074	DWG. NO.: 3000-ZM-11012	15	02
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD			



NOTES:

1. THIS DRAWING SHALL BE REVISED IN ACCORDANCE WITH VENDOR'S DESIGN
2. CONSIDER VACUUM BREAKER AT HIGHEST POINT
3. P-1: PSD1 (REGAS SYSTEM ALL PSD)
4. DRAIN OVERBOARD ABOVE SEA WATER LEVEL
5. OVERBOARD BELOW NORMAL DRAFT LEVEL.
6. ONE BY ONE SEAWATER FILTER IS FLUSHED.
7. REFER THE REGASIFICATION CONTROL PHILOSOPHY (3000-IC-15050) FOR THE DETAILS.
8. WS577F IS FOR ADJUSTING VACUUM THROUGH THE VACUUM BREAKER. THIS VALVE SHOULD BE CLOSED WHEN ANY OF SW LIFT PUMP STARTS.

						TITLE : REGAS		
						P&ID - LNG Regasification		
						HULL NO.: SN2074	DWG.NO. : 3000-ZM-11013	15 03 05
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD	
15	2015.07.23	Issued for SN2074	JCL	GJG	HBV			
14	2014.12.04	Issued for HN2074	JCL	KWM	HBV			
13	2013.09.01	Issued for HN2074	JCL	GJG	HBV			



NOTES:

1. P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-041: PAHH-PI 0504/0513/0514
I-511: TALL-TI 0511/0512
I-513: PALL-PI 0504/0513/0514
I-519: PAHH-PI 0519
2. DISTANCE PIECE FOR FUTURE INSTALLATION OF ISOLATION VALVES (V-0595/ V-0597) LENGTH AND SUPPORTS SHALL BE TAKEN CONSIDERATION OF THESE VALVE INSTALLATION
3. BLIND FLANGE SPACE RESERV FOR ESD VALVE INSTALLATION

							TITLE : REGAS			
							P&ID - LNG Regasification HIGH PRESSURE NG SENDOUT LINE			
							HULL NO.:	DWG.NO. :	15	05
							SN2074	3000-ZM-11017		05
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD			
15	2015.07.23	Issued for SN2074	JCL	GJG	HBV					
14	2014.12.04	Issued for HN2074	JCL	KWM	HBV					
13	2013.09.01	Issued for HN2074	JCL	GJG	HBV					