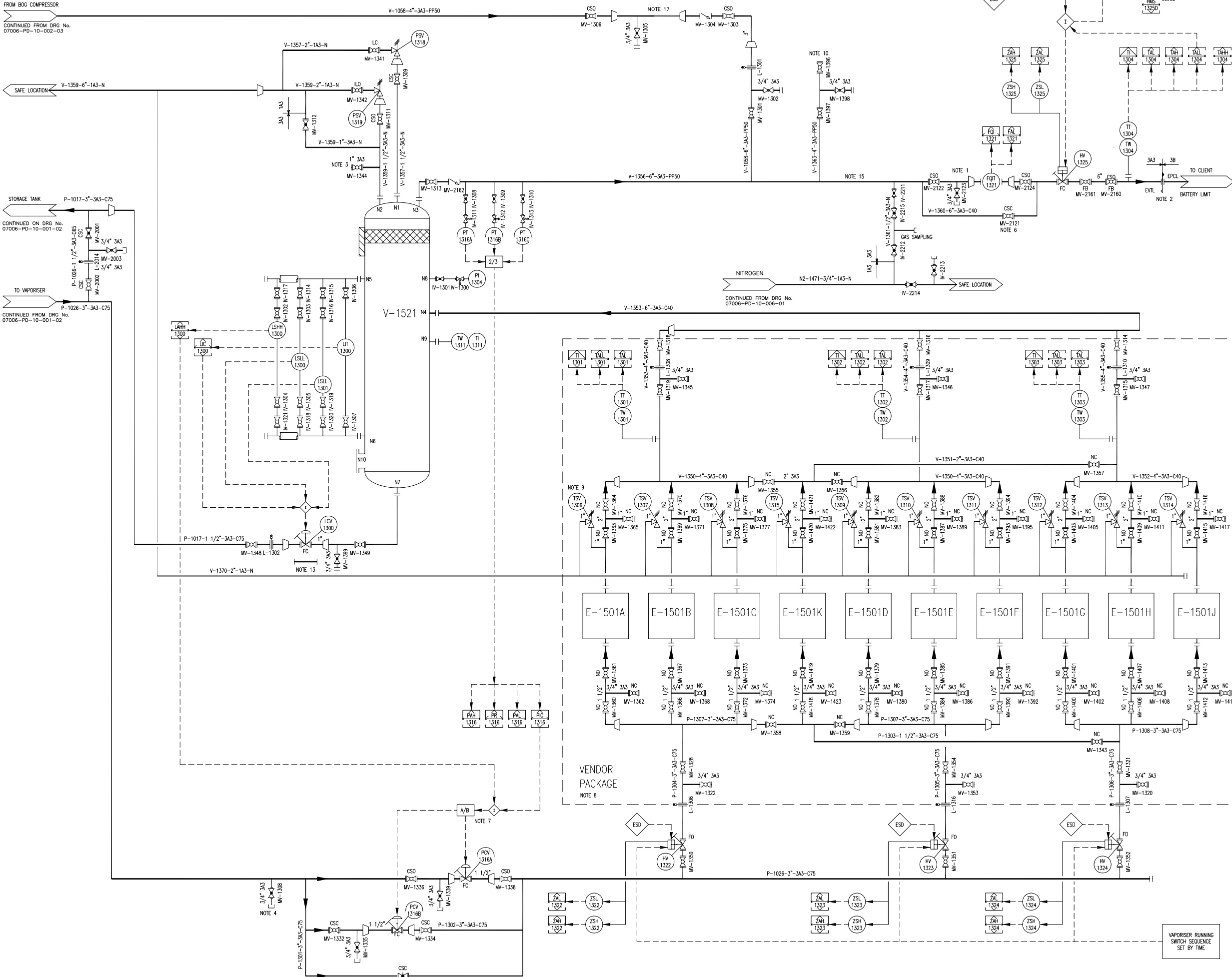
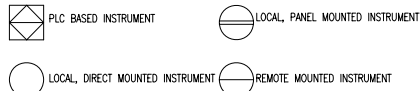


By Ismail at 9:51 am, Dec 17, 2014



LEGEND



CCR = CENTRAL CONTROL ROOM

PROCESS EQUIPMENT TRIP FUNCTION

LINE CLASSES

1B :ANSI 150# RATED SYSTEM, A106 Gr.B CARBON STEEL, MIN. TEMP. -10°C
3B :ANSI 300# RATED SYSTEM, A106 Gr.B CARBON STEEL, MIN. TEMP. -10°C
1A3 :ANSI 150# RATED SYSTEM, A312 Gr.304 STAINLESS STEEL, MIN. TEMP. -104°C
3A3 :ANSI 300# RATED SYSTEM, A312 Gr.304 STAINLESS STEEL, MIN. TEMP. -104°C

GENERAL NOTES

VENTS / TESTING DRAINS TO BE PLACED IN APPROPRIATE POSITIONS BY OTHERS
1/P'S AND REMOTE OPEN/CLOSE FACILITIES PROVIDED FOR ALL CONTROL VALVES
RUNNING AND FAULT INDICATION PROVIDED FOR ALL MOTORS
ALL PSV AND TSV OUTLETS TO CONNECT INTO TOP OF HEADER

NOTES

1. PROCESS CONNECTIONS OF FOIT FLOW METER ARE 4".
2. GALVANIC ISOLATION TO BE PROVIDED AT PLANT BATTERY LIMIT (EVL7 STAINLESS STEEL, EXPLCL CARBON STEEL)
3. TEMPORARY LINE FOR PURGING/ GASSING UP TO VENT.
4. NITROGEN CONNECTION FOR PURGING.
5. VAPORISER UNITS - THREE (3) OPERATING, THREE (3) REGENERATING, THREE (3) STANDBY, WITH ONE (1) VAPORISER SPARE TO BE USED FOR MAINTENANCE PURPOSES.
6. FOIT FLOW METER TEMPERATURE TRANSMITTER TO BE LOCATED ON BATTERY LIMIT ON EVTL SIDE.
7. DUTY/STANDBY CONTROL SYSTEM.
8. VAPORISER PACKAGE SUPPLIED BY EVTL'S VENDOR TCC.
9. THERMAL SAFETY VALVES ON ALL TEN VAPORISER UNITS TO BE VENTED TO SAFE LOCATION VIA V-1359-6"-1A3-N.
10. TE-IN LOCATION OF FUTURE INSTALLATION OF BUFFER VESSEL.
11. NC: NORMALLY CLOSED, NO: NORMALLY OPEN.
12. PNEUMATIC ACTIVATED VALVE, INSTRUMENT AIR SUPPLIED LOCALLY AT BATTERY LIMIT.
13. TEMPORARY SPOOL PIECE FOR COMMISSIONING PURPOSES WHICH REPLACES LCV-1300.
14. GLOBE NEEDLE VALVE WITH CONICAL SEAT.
15. PP INSULATION CONTINUED UP TO THE TURNING POINT OF MAIN EAST/WEST PIPE SLEEPERS.
16. FLOW METER, FOIT-1321 & HV-1325 TO BE LOCATED NEAR PROCESS AREA. IT-1304 TO REMAIN AT BATTERY LIMIT.
17. PCV-1317 IS REPLACED WITH A SPOOL PIECE.

DESIGN DATA						
ITEM No	SERVICE	INNER D X TAN TO LENGTH (mm)	DESIGN PRESSURE (bar g)	DESIGN TEMPERATURE (°C)	INSULATION (mm)	VOLUME (m ³)
V-1521	VAPORISER LEVEL DRUM	850 x 2750	37.5	-104°/+80°	80	1.75

ITEM No	SERVICE	DUTY (kW)	DESIGN PRESSURE (bar g)	DESIGN TEMPERATURE (°C)	INSULATION (mm)
E-1501 A-C	ETHYLENE VAPORISER	1720	38	-196°/+80°	N

09	05/09/09	AS BUILT	SZH	BIK	-
08		AS BUILT (CR-088)	JS		
07	12/11/08	BALL VALVES WERE GLOBE VALVES, REDUCER & NOTE 16 ADDED	JS	JM	JGC
		AND NOTE 15 & INSTRUMENT NOS MODIFIED (CR-073 & CR-078)			
06	08/08/08	CLIENT COMMENTS ADDED & LINE NUMBERING CHANGED (CR-064)	LE	LUC	AGS
05	17/07/08	LSL-1301 ADDED AND MV-2182 MOVED (CR-060)	JS	AGS	AGS
04	28/06/08	APPROVED FOR CONSTRUCTION (CR-041)	JS	LUC	AGS
03	14/03/08	APPROVED FOR CONSTRUCTION	JS	LUC	MH
		(CR-014, CR-025 AND CR-032)			
02	20/12/07	POST DESIGN REVIEW (CR-018)	JS	AGS	AGS
01	19/10/07	POST DESIGN REVIEW / HAZOP (CR-002)	JS	LUC	MH
00	20/07/07	FOR DESIGN REVIEW / HAZOP	JS	LC	AJS
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPR.

CLIENT  ENGRO VOPAK TERMINAL LIMITED

PROJECT	ETHYLENE STORAGE AND HANDLING FACILITY KARACHI, PAKISTAN
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Excellent
Engineering
Solutions

DIFFUSION, NEUTRON & GAS

WEIR LGE PROCESS

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TITLE	P&I Diagram ETHYLENE VAPORISATION
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DRAWING No.	REV.	NEXT SHEET	SCALE	SIZE
07006-PD-10-001-03	10	04	NTS	A1

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