4 CRUDE MAJOR EWO NO. :	BE102-O1	REV: 1

PLANT: 4 CRUDE	SAP COST CENTER: DD173-EXP
W/O # 313079-001	PROJECT / OUTAGE #: SDD108A

OP'S PROCESS VALVE LIST

MOC #:

Level 1 - Management of Change Review

Will This Change:

- [ ] Cause the use of different feeds, chemicals, or catalysts?
- [ ] Cause the use of different process conditions, instrumentation, process control, or affect upstream/downstream plants?
- [ ] Cause the use of new or modified equipment (which is other than in-kind)?
- [ ] Alter equipment siting, building, trailer locations, roads, or fire protection?
- [ ] Require modifying existing and/or developing new procedures?
- [ ] Affect employee emergency response due to an organizational change?
- [ ] Transfer the responsibility for any environmental, health, or safety-related task?
- [ ] Alter the permanent staffing level or organization of any safety-sensitive job?

SAFETY OPERATOR	IN VOC SERVICE?	IN PLANT WELDING?
[X] Yes [ ] No	[ ] Yes [ ] No	[ ] Yes [X] No

APPROVALS

OPERATIONS :	K. Sohnrey	DATE: 9/28/11	PHONE: 2-2042
IMPACT. T.L :	M. Greenfield	DATE: 9/28/11	PHONE: 2-1179
MAINTENANCE:	V. Massaro	DATE: 9/29/11	PHONE: 2-5995

Add 3 Orbit Valves (ORB-VLV'S 1,2 & 3)

R. RAMIREZ

SEP 28 2011

D&R Distillation

Valve Repair List

26 #	313079-001	Process Area: Distillation	Plant: 4Crude	Impact Team Leader:	Greenfield, Matthew R.
EWO #	BE102-E1	Type of List: Process Valve List		Impact Supervisor:	Smith, Bruce D.
MOC #		Shutdown Title: 2011 4CU SHUTDOWN	List Rev Date: 9/9/2011 12:06:24 PM	Maint. Supervisor:	Massaro, Vincent R.
				Ops. Coordinator:	Sohnrey, Kenneth C.

Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location: Line# / PipeClass	Insp Drwg No.	P&ID No.	Service	Tag Section Removed E Date / Init	D Date / Init	C Date / Init	B Date / Init	A Date / Init	Work #	Staging	Fresh Air
ORB-VLV-01	12_ 4C U	10"	Orbit Valve	150	Flex		K-1100B 1st Stage Suction valve			Off Gas							No	No
							AB1	0955-016-002	D-308316	Other Work:								
ORB-VLV-02	10_ 4C U	2"	Orbit Valve	150	Flex		V-1172A Safety Bypass (C7-55)			Off Gas						7	No	No
							1CS12	0955-010-017	D-308334	Other Work:								
ORB-VLV-03	12_ 4C U	1.5"	Orbit Valve	600	Welded		V-1104 Safety Bypass (C7-25)			Naphtha						7	No	No
							AF1	0955-019-028	D-308314	Other Work:								

Work Note: 1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other

Pints to Tag MFG-7289 DB Rev. 8.6.2

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D&R Distillation

Valve Repair List

26 #	313079-001	Process Area:	Distillation	Plant:	4Crude
EWO #	BE102-E1	Type of List:	Process Valve List		
MOC #		Shutdown Title:	2011 4CU SHUTDOWN	List Rev Date:	9/9/2011 12:06:24 PM

Impact Team Leader: Greenfield, Matthew R.
Impact Supervisor: Smith, Bruce D.
Maint. Supervisor: Massaro, Vincent R.
Ops. Coordinator: Sohnrey, Kenneth C.

Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location (Line# / PipeClass / Insp Drwg No. / P&ID No.)	Service	Tag Section Removed E (Date / Init)	D (Date / Init)	C (Date / Init)	B (Date / Init)	A (Date / Init)	Work #	Staging	Fresh Air
GENVLV-001	9_4CU	2.0"	Gate Valve		Flex		V-1190 Sight Glass Top Lead 2" Block Valve 3CS11 8318/ 0955-	Naphtha Other Work:						7	Yes	No
GENVLV-002	5_4CU	4"	Globe Valve		Flex		11PV622 F-1160 FG Bypass 1CS12 8335/ 0955-	Fuel Gas Other Work:						2	No	No
GENVLV-003	5_4CU	6"	Globe Valve		Flex		11PV111 F-1100A FG Bypass 1CS12 8321/ 0955-	Fuel Gas Other Work:	stiff - frozen					2	No	No
GENVLV-004	5_4CU	6"	Globe Valve		Flex		11PV211 F-1100B FG Bypass 1CS12 8322/ 0955-	Fuel Gas Other Work:	stiff - frozen					2	No	No
GENVLV-005	7_4CU	12"	Gate Valve		Flex		E-1103 Outlet Block Valve 3CS11 8301/ 0955-	Crude Other Work:						7	No	No
GENVLV-006	7_4CU	12"	Gate Valve		Flex		E-1106 Outlet Block Valve 3CS11 8301/ 0955-	Crude Other Work:						1,7	Yes	No
GENVLV-007	1_4CU	3"	Orbit Valve		Flex		11LV079 BP; K-1171/A Make-up H2O to Loop Seal 1CS11 D-308332	Utility Water Other Work:	replace - broke					8	No	No
GENVLV-008	11_4CU	4"	Gate Valve		Flex		11LV052 Upstream Block Valve 3CS33 8319/ 0955-	Effluent/H2O Other Work:						2	No	No
GENVLV-009	11_4CU	4"	Gate Valve		Flex		11LV052 Downstream Block Valve 3CS33 8319/ 0955-	Effluent/H2O Other Work:						7	No	No
GENVLV-010	12_4CU	10"	Gate Valve		Flex		E-1111 ABCR B/P 3CS24 305/ 0955-0	ABCR Other Work:						5	No	No

Work Note: 1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other

Pints to Tag MFG-7289 DB Rev. 8.6.2

CUSA-CSB-0019147
EPA

D&R Distillation

Valve Repair List

26 #	313079-001	Process Area: Distillation	Plant: 4Crude	Impact Team Leader:	Greenfield, Matthew R.
EWO #	BE102-O1	Type of List: Process Valve List		Impact Supervisor:	Smith, Bruce D.
MOC #		Shutdown Title: 2011 4CU SHUTDOWN	List Rev Date: 9/9/2011 12:06:24 PM	Maint. Supervisor:	Massaro, Vincent R.
				Ops. Coordinator:	Sohnrey, Kenneth C.

Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location (Line# / PipeClass)	Insp Drwg No.	P&ID No.	Service	Tag Section Removed E Date Init	D Date Init	C Date Init	B Date Init	A Date Init	Work #	Staging	Fresh Air
GENVLV-011	10_4CU	8"	Gate Valve		Flex		V-1160 Off-Gas to K-1171's Block Valve			Off Gas						2	Yes	No
							1CS12		8331/ 0955-	Other Work:	replace							
GENVLV-012	10_4CU	1/2"	Gate Valve		N/A		11FI067 1/2" Root Valve Upstream Flange			Off Gas						5	Yes	No
							1CS12		8331/ 0955-	Other Work:	bad seat							
GENVLV-013	2.2_4CU	0.75"	Gate Valve		Flex		150# Steam Supply to W/D stations-Street Side F-1100A			150# Steam						5	No	No
							1CS13		D-308343	Other Work:	drop gate							
GENVLV-014	7_4CU	16"	Gate Valve		Flex		E-1107 Crude Inlet Block Valve			Crude						5	Yes	No
							3CS11		8301/ 0955-	Other Work:	shot by team							
GENVLV-015	7_4CU	16"	Gate Valve		Flex		E-1107 Crude Outlet Block Valve			Crude						7	Yes	No
							3CS11		8301/ 0955-	Other Work:								
GENVLV-016	9_4CU	2.0"	Gate Valve		Flex		150# Steam to V-1190(clean-up) @ V-1190 stanchion			150# Steam						5	No	No
							1CS13		D-308318	Other Work:	leaks by							
GENVLV-017	7_4CU	4"	Gate Valve		Flex		150# Steam Block Valve to P-1101A Discharge			150# Steam						7	No	No
							3CS13		8300/ 0955-	Other Work:								
GENVLV-018	7_4CU	12"	MOV		Flex		P-1101A Suction Block Valve			Crude						3	No	No
							1CS12		8300/ 0955-	Other Work:	bonnet leaked on start up							
GENVLV-019	10_4CU	3"	Gate Valve		Flex		Wash Oil Block Valve P-1189			Wash Oil						1	No	No
							3CS11		8327/ 0955-	Other Work:								
GENVLV-020	10_4CU	0.75"	Gate Valve		N/A		E-1109 7S/C Bleeder Valve			7 S/C						7	No	No
							3CS11		8304/ 0955-	Other Work:								

Work Note: 1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other

Pints to Tag MFG-7289 DB Rev. 8.6.2

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D&R Distillation

Valve Repair List

26 #	313079-001	Process Area: Distillation	Plant: 4Crude	Impact Team Leader:	Greenfield, Matthew R.
EWO #	BE102-O1	Type of List: Process Valve List		Impact Supervisor:	Smith, Bruce D.
MOC #		Shutdown Title: 2011 4CU SHUTDOWN	List Rev Date: 9/9/2011 12:06:24 PM	Maint. Supervisor:	Massaro, Vincent R.
				Ops. Coordinator:	Sohnrey, Kenneth C.

Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location: Line# / PipeClass	Insp Drwg No.	P&ID No.	Service	Tag Section Removed E Date Init	D Date Init	C Date Init	B Date Init	A Date Init	Work #	Staging	Fresh Air
GENVLV-021	12_4CU	0.75"	Gate Valve		N/A		V-1100 Sample Draw Root Valve			Sour H2O						5	Yes	No
							1CS23		8314/ 0955-	Other Work:								
GENVLV-022	12_4CU	8"	Gate Valve		Flex		P-1148A Discharge Block Valve			ABCR						3	No	No
							3CS24		8309/ 0955-	Other Work:	bonnet has clamp on it							
GENVLV-023	12_4CU	2.0"	Gate Valve		Flex		11PT002 2" Manifold Block Valve			2 S/C						7	No	No
							1CS12		D-308308	Other Work:								
GENVLV-024	12_4CU	0.75"	Gate Valve		N/A		11PT002 3/4" Root Valve on Manifold			2 S/C						7	No	No
							1CS12		D-308308	Other Work:								
GENVLV-025	10_4CU	1.5"	Gate Valve		Flex		V-1170 Bottoms to V-1198			Sour H/C						5	No	Yes
							AB4		8315/ 0955-	Other Work:								
GENVLV-026	2.3_4CU	0.75"	Gate Valve		N/A		P-1179 50# Steam Quench Upstream Block Valve			50# Steam						1	No	No
							1CS13		D-308345	Other Work:								
GENVLV-027	2.2_4CU	0.75"	Gate Valve		N/A		P-1188 Suction Steam Tracing Block Valve (Trap# B-0981)			150# Steam						5	No	No
							1CS13		D-3083434	Other Work:								
GENVLV-028	12_4CU	0.75"	Gate Valve		N/A		P-1105 Warm-up line Upstream Block Valve			Atmos. Crude						1	No	No
							TF1		7211/ 0955-	Other Work:								
GENVLV-029	12_4CU	4"	Gate Valve		Flex		11FV059 Downstream Block Valve			5 S/C						1	No	Yes
							3CL11		8309/ 0955-	Other Work:								
GENVLV-030	2.2_4CU	0.75"	Gate Valve		N/A		Steam Trap by P-1148 (11FT073) Upstream Block Valve			150# Steam						1	No	No
							1CS13		D-308352	Other Work:								

Work Note: 1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other

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D&R Distillation

Valve Repair List

26 #	313079-001	Process Area: Distillation	Plant: 4Crude	Impact Team Leader:	Greenfield, Matthew R.
EWO #	BE102-O1	Type of List: Process Valve List		Impact Supervisor:	Smith, Bruce D.
MOC #		Shutdown Title: 2011 4CU SHUTDOWN	List Rev Date: 9/9/2011 12:06:24 PM	Maint. Supervisor:	Massaro, Vincent R.
				Ops. Coordinator:	Sohnrey, Kenneth C.

Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location: Line# / PipeClass	Insp Drwg No.	P&ID No.	Service	Tag Section Removed E Date Init	D Date Init	C Date Init	B Date Init	A Date Init	Work #	Staging	Fresh Air
GENVLV-031	10_4CU	6"	Gate Valve		Flex		P-1175 Suction Block Valve			Sour H2O						8	No	No
							1CS23		8332/ 0955-	Other Work:	rotate for clearance							
GENVLV-032	10_4CU	6"	Gate Valve		Flex		P-1175A Suction Block Valve			Sour H2O						7,8	No	Yes
							1CS23		8332/ 0955-	Other Work:	Repair & rotate for clearance							
GENVLV-033	2.2_4CU	0.75"	Gate Valve		N/A		P-1168 Case Vent Line, Steam Tracing Trap, Downstream Block Valve			150# Steam						1	No	No
							1CS13		8342/ 0955-	Other Work:								
GENVLV-034	7_4CU	12"	Gate Valve		Flex		E-1115 Shell Side Inlet Block Valve			Crude						1	No	No
							3CS11		304/ 0955-0	Other Work:								
GENVLV-035	10_4CU	6"	Orbit Valve		Flex		K-1109B Upstream Block Valve (Orbit)			7 S/C						5	No	No
							3CS24		8304/ 0955-	Other Work:	change to gate valve							
GENVLV-036	10_4CU	6"	Orbit Valve		Flex		K-1109B Downstream Block Valve (Orbit)			7 S/C						5	No	No
							3CS24		304/ 0955-0	Other Work:	change to gate valve							
GENVLV-037	2.2_4CU	0.75"	Gate Valve		N/A		E-1178 Upstream Block Valve Steam Tracing Shellside Outlet			150# Steam						5	No	No
							1CS13		D-308343	Other Work:	hole through weld							
GENVLV-038	2.2_4CU	0.75"	Gate Valve		Flex		P-1198 150# Pilot Steam Valve			150# Steam						5	No	No
							1CS13		D-308348	Other Work:	valve broke							
GENVLV-039	12_4CU	8"	Gate Valve		Flex		P-1119 Suction Valve			1 S/C						7	No	No
							1CS12		310/ 0955-0	Other Work:								
GENVLV-040	12_4CU	4"	Gate Valve		Flex		P-1119 Discharge Valve			1 S/C						7	No	No
							3CS11		8310/ 0955-	Other Work:								

Work Note: 1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other

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D&R Distillation

Valve Repair List

26 #	313079-001	Process Area: Distillation	Plant: 4Crude	Impact Team Leader:	Greenfield, Matthew R.
EWO #	BE102-O1	Type of List: Process Valve List		Impact Supervisor:	Smith, Bruce D.
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Tag Number	Sys No	Size (in.)	Valve Type	Valve Rating	Gasket Type	VOC No / MOC No	Location (Line# / PipeClass / Insp Drwg No. / P&ID No.)	Service	Tag Section Removed E Date Init	D Date Init	C Date Init	B Date Init	A Date Init	Work #	Staging	Fresh Air
GENVLV-041	4_4CU	3"	Gate Valve		Flex		P-1119 PO Block Valve 1CS12 8310/ 0955-	Pump Out Other Work:						7	No	No
GENVLV-042	10_4CU	4"	Gate Valve		Flex		11PV972 Downstream Block Valve 3CS11 338/ 0955-0	Pump Out Other Work: broken						5	No	No
GENVLV-043	12_4CU	0.75"	Gate Valve		N/A		11LT051 Bottom Lead Block Valve 1CS12 D-308308	Pump Out Other Work:						1	No	No
GENVLV-044	7_4CU	1"	Gate Valve		N/A		Sarco Pot "A" Process Inlet 1CS11 1337/ 0955-	Recovered Oil Other Work: frozen						5	No	No
GENVLV-045	7_4CU	1"	Gate Valve		N/A		Sarco Pot "B" Process Inlet 1CS11 1337/ 0957-	Recovered Oil Other Work: frozen						5	No	No
GENVLV-046	7_4CU	1"	Gate Valve		N/A		Sarco Pot "A" Process Outlet 1CS11 1337/ 0957-	Recovered Oil Other Work: frozen						5	No	No
GENVLV-047	7_4CU	1"	Gate Valve		N/A		Sarco Pot "B" Process Outlet 1CS11 1337/ 0957-	Recovered Oil Other Work: frozen						5	No	No
GENVLV-048	1_4CU	1.5"	Gate Valve		Flex		D-3110 Loop Deal Water Charge Line AB2 1337/ 0957-	H2O Other Work:						7	No	No
GENVLV-049	12_4CU	12"	Gate Valve		Flex		E-1107A/B ATCR Outlet Block Valve 3CS11 8301/ 0955-	ATCR Other Work:						7,5	Yes	No
GENVLV-050	7_4CU	10"	Gate Valve		Flex		E-1102A/B/C Crude Inlet Block Valve 3CS11 8301/ 0955-	Crude Other Work:						1	No	No

Work Note: **1-Repack; 2- Free Up; 3-Repair Bonnet Leak; 4-Repair Flange Leak; 5-Replace Valve ; 6-Open and Inspect; 7-Leaks By; 8-Other**

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