SOLV/EDC & CMP PLANT NOTIFICATION OF PROCESS CHANGE CHECKLIST

Type: ☐ LEVEL 1 (minor) ☒ LEVEL 2 (moderate) ☐ LEVEL 3 (major)

Originator: Jim Haney **Date of Origination:** 06/03/97 **Plant:** Methanes

***Actual* Date of Change:** _____ **Area:** Quench/Condensing **Equipment:** D-1320

Permanent ☒ **Yes** **Temporary** ☐ **Yes** **From:** _____ **To:** _____

Description and Location of Change (Scope): Convert the manual D-1 feed valve from D-1320 to an automated block valve.

Technical Basis for Change: Automation of this valve will reduce the amount of operator time required to backflush V-1540.

Impact on: ☐Safety ☐Loss Prevention ☐Environment ☐Health ☐Quality ☐Production ☒Other: Job Procedure

Type of Change:

☐Alarm	☒Process Computer Control	☐Equip./Material Modification	☐Process Set Point Change
☐Shutdown Point	☐Addition/Removal of Equip.	☐Chemical	☐Piping Spec.
☒Instrument	☐Piping Modification	☐Job Procedure No.	☐Other: _____

Pre-modification Checklist:

	Applicable		Follow-up	Signature	Date
	☒Applicable	Written job scope and sketch of proposed change; POD# 1924.	☐ Yes	Jim Haney	6/6/97
	☒Applicable	Project economics; ~~attached~~. Negative Value	☐ Yes	Jim Haney	6/6/97
	☐Applicable	Consult piping and equipment specifications; Spec. #	☐ Yes		
	☒Applicable	Comply with Engineering Practices.	☐ Yes	Jim Haney	6/6/97
	☐Applicable	Consult Technology Center or comply with Tech. Ctr. guidelines.	☐ Yes		
	☐Applicable	Equipment access/congestion considered.	☐ Yes		
	☐Applicable	Consult Environmental function	☐ Yes		
	☐Applicable	Environmental project checklist complete.	☐ Yes		
	☐Applicable	Chemicals listed in the (TSCA) inventory before use.	☐ Yes		
	☐Applicable	Perform Reactive Chemicals testing or review.	☐ Yes		
	☐Applicable	Consult Safety function for compliance with S&LP and Block requirements	☐ Yes		
	☐Applicable	Consult Process Safety for impact on PHA(F&EI, CEI, & Fire protection).	☐ Yes		
	☐Applicable	State Fire Marshall notified.	☐ Yes		
	☐Applicable	Consult Industrial Hygiene function	☐ Yes		
	☐Applicable	Consult maintenance/Reliability Eng.	☐ Yes		
HA	☒Applicable	Consult Instrument function.	☐ Yes		6/19/97
	☐Applicable	Consult Electrical function.	☐ Yes		
	☐Applicable	Consult Analyzer function.	☐ Yes		
	☐Applicable	Consult/Inform Computer/Programming Support.	☐ Yes		
	☐Applicable	Consult Area Engineer.	☐ Yes		
	☒Applicable	Consult Operations.	☐ Yes		6/6/97
JC	☒Applicable	Consult Area Technologist	☐ Yes		6-9-97
	☐Applicable	Consult Inventory Management	☐ Yes		
	☐Applicable	Consult Process Engineering.	☐ Yes		
	☐Applicable	Evaluate and modify relief system.	☐ Yes		
	☐Applicable	Work Order written. (List them)	☐ Yes		
QC	☒Applicable	Consult Construction/Small Projects	☐ Yes		6/19/97
	☐Applicable	Consult Site Logistics	☐ Yes		
	☐Applicable	Consult Quality (Customer Notification ?)	☐ Yes		
	☐Applicable	Other (Name them)_____	☐ Yes		

RR 4/96

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APPROVALS:

Originator: _____ Date: 6/6/97

First Reviewer: _____ Date: 6-9-97

Preliminary Reviewer(Lvl 2 & 3): _____ Date: 6-9-97

Post-modification Checklist: (BEFORE START-UP)

Applicable		Follow-up	Signature	Date
☐ Applicable	Perform prestartup audit: major equipment addition/mod. Lvl 3;attach.	☐ Yes		
☐ Applicable	PSM files updated(such as piping circuits).	☐ Yes		
☐ Applicable	Project list updated.	☐ Yes		
☒ Applicable	Documented in Operating Discipline Library	☐ Yes	James V. Henry	6/20/97
	___/___ Completed Job Procedures reviewed by: Operations ___ Safety ___ Envir. ___	☐ Yes ☐ Yes		
	___ Emergency Procedures	☐ Yes		
	___ Training Aids (IPT, etc.)	☐ Yes		
	___ Controlled copies of Critical Oper. Procedures updated	☐ Yes		
	___ Safety/Environmental (cleaning, vessel entry, red tag)	☐ Yes		
	___ Update plant Roundsheets, forms	☐ Yes		
☐ Applicable	Plant equipment files updated.	☐ Yes		
☒ Applicable	P&ID's, process flow sheets, and plot plans updated.	☐ Yes	James V. Henry	6/27/97
☒ Applicable	Personnel trained on the change. Method: Conversation	☒ Yes	James Henry	6/6/97
☐ Applicable	Critical instrument checklist updated.	☐ Yes		
☐ Applicable	Updated HAZCOM Manual & equip. List.	☐ Yes		
☐ Applicable	Pressure vessels, PVRV's, & PRD registered.	☐ Yes		
☒ Applicable	Instrument loops checked and documented.	☐ Yes	James V. Henry	6/27/97
☐ Applicable	Field switches, equipment, & MCC starters checked & labeled.	☐ Yes		
☐ Applicable	Log sheets/controlled forms updated.	☐ Yes		
☐ Applicable	GPI flow diagram & history/EDAS updated.	☐ Yes	James V. Henry	6/27/97
☒ Applicable	GEMTS, PPM, & MSMS updated.	☒ Yes	James V. Henry	6/27/97
☒ Applicable	Mod V program change checklist completed.	☐ Yes	James V. Henry	6/27/97
☐ Applicable	Equipment RTO Checklist completed.	☐ Yes		
☐ Applicable	Follow-up action plan completed prior to Final Approval(attached).	☐ Yes		

APPROVAL:

Final Approver: _____ Date: 6/27/97

Add loop to EMTs Al Shanklin by 7/15/97

Methanes MOC Training Signoff Sheet

MOC TITLE:_____ **DATE:**_____

Mark the box next to the appropriate individual that the communication/training is intended to reach.

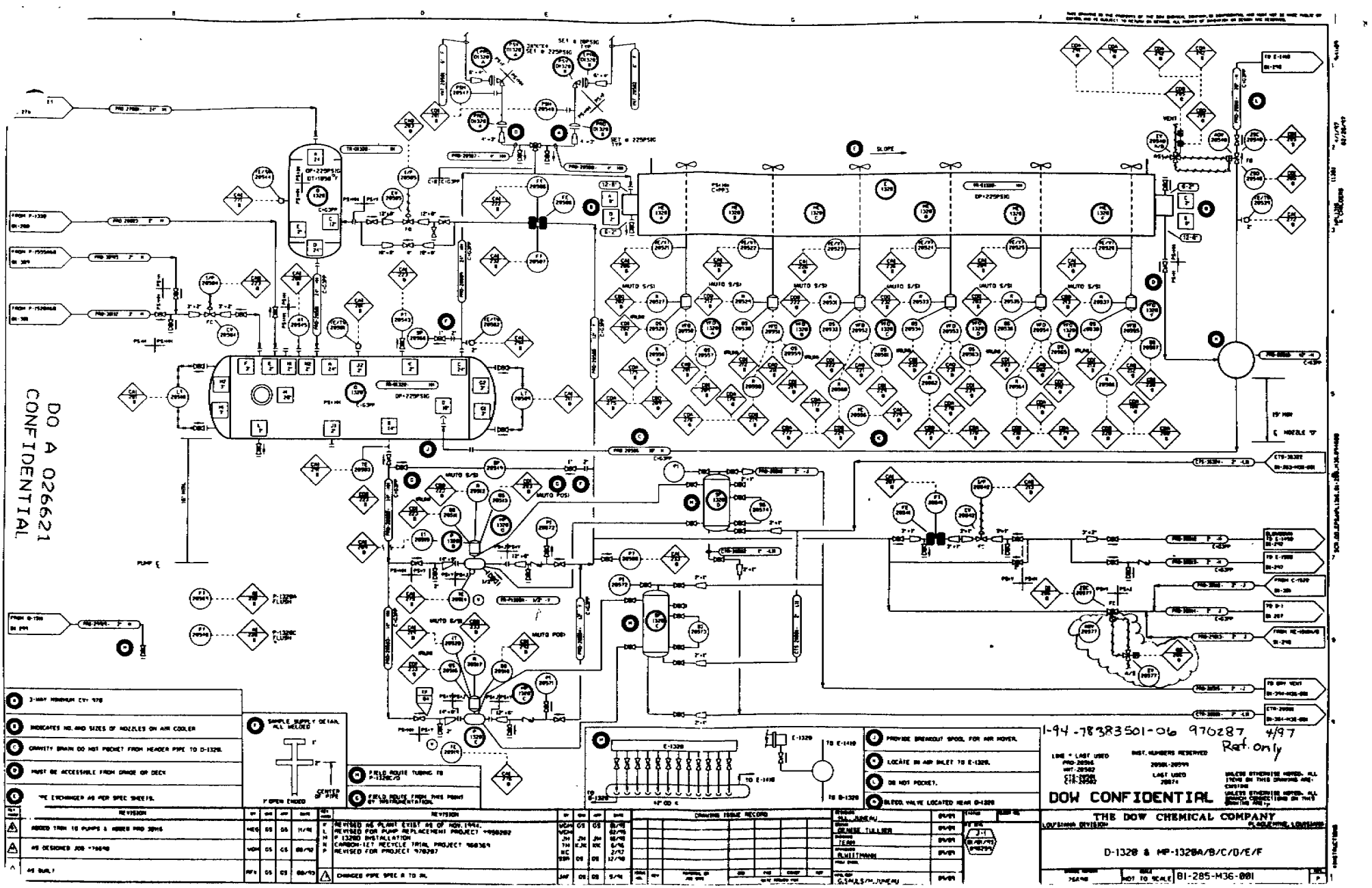
	Engineering Staff	Master #	Signature	Date
	Taylor, D.	434501		
	Haney, J.	091506		
	Kelley, K.	239424		
	Storm, C.	249497		
	Hunt, L.C.	088600		
	Rolke, R.W.	097946		
	Stallcup, J.S.	240558		
	White, W.S.	434499		
	Young, Barry.	433620		

	Day Personnel	Master #	Signature	Date
	Michel, A.	432203		
	Cook, J.	433658		
	Dugas, D.	432407		
	Brown, M.S.	433928		
	Rizzo, G.	432580		
	Johnson, J.	432541		
	Donatto, B.	434031		
	Carrier, B.P.	085908		
	Witt, J.	241996		
	Vavasseur, T.	434160		
	Landry, C.P.	434292		

	Site Logistics	Master #	Signature	Date
	Clebert, J.	432385		
	Mathis, J.	432997		
	Simonson, F.	432477		
	Armond, N.L.	098664		
	Doucet, K.	432056		

	SOS	Master #	Signature	Date
	Breaux, R.	433793		
	Beieler, B.	281334		
	Bickham, C.J.	432411		
	Cook, F.	431977		
	Cavalier, N.	241889		
	Grant, W.C.	432637		
	Gravouilla, D.C.	434255		
	Jackson, R.	433457		
	Metrejean, D.J.	241773		
	Harrison, W.	096480		

	OS	Master #	Signature	Date
	Bishop, C.E.	432026		
	Bourg, J.	094487		
	Davis, C.	433015		
	~~Ekey, J.~~	~~202669~~		
	Jack, O.J.	094373		
	Looney, R.	276854		
	Wolfe, D.	246186		
	Millender, R.	432751		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DOW CONFIDENTIAL
THE DOW CHEMICAL COMPANY
D-1328 & MP-1328A/B/C/D/E/F
BI-285-M36-001
1-94-78383501-06 970287 4/97
Ref. only

Haney, Jim

From: Rizzo, Gary (GG)
S nt: Tuesday, June 03, 1997 1:29 PM
To: Haney, Jim
Subject: FW: DO(206) logic - (Corrected Xglossary)

This has the correct CX glossary.

From: U432580
Sent: Tuesday, June 03, 1997 1:24 PM
To: Rizzo, Gary (GG)
Subject: DO(206) logic

[redacted]
x400.txt

C/* DO(206) D-1320 TO D-1 HEAVIES REMOVAL AOV (Fail Closed)
C* Start DO_INDEPEND02S
C Revision date 19970602
CB* DO(206) D-1320 TO D-1 HEAVIES REMOVAL AOV (Fail Closed)
CX1 DO(206)
CX
CX DESCRIPTION
CX ----------
CX
CX DO(206) operates D-1320 TO D-1 HEAVIES REMOVAL AOV
CX
CX When DO(206) is TRUE, D-1320 TO D-1 HEAVIES REMOVAL AOV is open
CX and maintains a continueous flow from D-1320 to the Tarpot
CX D-1.
CX
CX2 DO(206)
CX
CX OPERATION
CX ---------
CX
CX DO(206) opens when the following conditions are TRUE:
CX
CX - the quench system enters the RUN step, STEP(206)
CX - DC(2763) is TRUE, indicating the V-1540 filter bypass
CX valve, AO(305) is not being bypassed and backwashed.
CX - or DK(70) is TRUE
CX - and one of the P-1320 pumps are running.
CX
CX DC(2763) = DC(2763) will become false, closing the AOV, when the
CX operator request to backwash V-1540 filter by setting
CX DK(109) false on system (D).
CX
CX Once the filter is backwashed and DK(109) set to
CX TRUE, DO(206) will become enabled and open.
CX
CX DK(70) If it should become necessary to open the AOV ~~in a~~ when V-1540 is not being backwashed
CX ~~step other than the run step~~, the operator has the
CX option of setting DK(70) True. ~~DK(70) will autozero~~

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```
CX          upon entering the Run step.
CX
CX
CX3 DO(206)
CX
CX SPECIAL CONCERNS
CX ---------------
CX
CX   There are 2 DK'S for V-1540. DK(109) being set false, indicates
CX   that the filter is to be bypassed and backwashed. DK(119) being
CX   set false indicates that the filter is just supposed to be bypassed.
CX
CX9 DO(206)
CX
CX TOOLBOX QUESTIONS AND ANSWERS
CX ----------------------------
CX
CX   Fail Safe state for this DO:              Fail Closed
CX   Is this DO wired to a hardware Abort board: No
CX   Operator Station:                        No
CX
C- Calculate Digital Output
C
C- - - - AUTOZERO DK(70)
C
 CALL DKZERO(DK(70)) IF STEP(206)   Delete

  DO(206) IF STEP(206) AND DC(2763) OR DK(70) C
       AND [#DI(223) OR #DI(233)]
C
CG DO(206) D-1320 TO D-1 HEAVIES REMOVAL AOV - OPENED WHEN TRUE
CG DC(2763) V-1540 HAS BEEN REQUESTED TO BE BYPASSED AND BACKWASHED.
CG DK(70) ENABLED DO(206)
C* End DO_INDEPEND02S
```

Haney, Jim

From: Haney, Jim
Sent: Monday, June 09, 1997 3:22 PM
To: Beieler, B; Bickham, Clarence; Bishop, Cecil; Bourg, Jason; Breaux, Richard; Cavalier, Neal; Cook, Frederick; Ekey, John; Grant, William; Gravouilla, Dale; Harrison, Donald; Jack, Oliver; Jackson, Russell; Looney, R; Metrejean, Darren; Millender, Ronald; Wolfe, Dennis
Cc: Michel, Adam
Subject: D-1320 to D-1 Valve Automation

In the next week or so, Hebert valve will come in and install an actuator on the 2" manual valve from D-1320 to D-1 (at D-1320) to convert it to an AOV. The AOV will be located on system B, DO(206). The control code for this AOV will be loaded in the next couple of days. Automation of this valve will reduce the operational time required to backwash V-1540 (action item from the Thermal team). When DK(109) is set to zero to backwash V-1540, the D-1320 to D-1 valve will close. A new DK for system D, DK(119), is being written to enable you to bypass V-1540 without closing the valve to D-1 (if you need to bypass the filter but you don't intend to backwash it). Also, new DK's will be written in system B to enable you operate the D-1320 to D-1 valve exclusively. Please review the code after Gary loads it and sign off on the MOC in the communique book. If you have any questions, please let me know.

Thanks,

Jim Haney
Run Plant Engineer
CMP Plant
Louisiana Operations