

APPROVALS:

Originator:

Date: 12-17-97

First Reviewer:

Date: 12-20-97

Preliminary Reviewer(Lvl 2 & 3)

Date: 12/20/97

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		
	Completed Job Procedures reviewed by:	☐ Yes		
	Operations _____ Safety _____ Envir. _____	☐ 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		
☒ Applicable	Personnel trained on the change. Method: _____	☐ Yes		
☐ 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		
☐ Applicable	Field switches, equipment, & MCC starters checked & labeled.	☐ Yes		
☐ Applicable	Log sheets/controlled forms updated.	☐ Yes		
☐ Applicable	GPI flow diagram & history/EDAS updated.	☐ Yes		
☐ Applicable	GEMTS, PPM, & MSMS updated.	☐ Yes		
☐ Applicable	Mod V program change checklist completed.	☐ Yes		
☐ Applicable	Fugitive emission tags added to valves.	☐ Yes		
☐ Applicable	Equipment RTO Checklist completed.	☐ Yes		
☐ Applicable	Follow-up action plan completed prior to Final Approval(attached).	☐ Yes		

APPROVAL:

Final Approver:

Date:

12/20/97

Complete 12/20/97

SOLV/EDC & CMP PLANT NOTIFICATION OF PROCESS CHANGE CHECKLIST

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

Originator: R. Rolke Date of Origination: 12/15/97 Plant: Methanes

Actual Date of Change: 12-16-97 Area: Thermal Equipment: R-1300

Permanent ☐ Yes Temporary ☒ Yes From: 12/13/97 To: 1/13/98

Description and Location of Change (Scope): Use an open flame burner to preheat N₂ gas coming from E-1515 & going into R-1300.

Technical Basis for Change: This preheater will be used to heat R-1300 up to a light off temp. of 300°C.

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

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#	☐ Yes	<u>R. Rolke</u>	<u>12-16-97</u>
☐ Applicable	Project economics; attached.	☐ Yes		
☒ Applicable	Consult piping and equipment specifications; Spec. # <u>X</u>	☐ Yes	<u>R. Rolke</u>	<u>12-16-97</u>
☐ Applicable	Comply with Engineering Practices.	☐ Yes		
☒ Applicable	Consult Technology Center or comply with Tech. Ctr. guidelines.	☐ Yes	<u>R. Rolke</u>	<u>12-17-97</u>
☒ Applicable	Equipment access/congestion considered.	☐ Yes	<u>R. Rolke</u>	<u>12-17-97</u>
☒ Applicable	Consult Environmental function	☐ Yes	<u>R. Rolke</u>	<u>12-16-97</u>
☐ 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	<u>R. Rolke</u>	<u>12-16-97</u>
☐ 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	<u>R. Rolke</u>	<u>12-16-97</u>
☒ Applicable	Consult Instrument function.	☐ Yes	<u>R. Rolke</u>	<u>12-17-97</u>
☐ 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. <u>N/A</u>	☐ Yes	<u>R. Rolke</u>	<u>12-16-97</u>
☒ Applicable	Consult Area Technologist	☐ Yes		
☐ Applicable	Consult Inventory Management	☐ Yes		
☐ Applicable	Consult Process Engineering.	☐ Yes		
☐ Applicable	Evaluate and modify relief system.	☐ Yes		
☐ Applicable	Work Order written. (List them)	☐ Yes		
☐ Applicable	Consult Construction/Small Projects	☐ Yes		
☐ Applicable	Consult Site Logistics	☐ Yes		
☐ Applicable	Consult Quality (Customer Notification ?)	☐ Yes		
☐ Applicable	Other (Name them) _____	☐ Yes		

* Screwed pipe for fuel gas is a deviation from spec. OK as temp.

MOC Checklist

APPROVALS:

Originator: Richard Rolhe

Date: 12-16-97

First Reviewer: Richard Rolhe

Date: 12-16-97

Preliminary Reviewer(Lvl 2 & 3): [Signature]

Date: 11/2/97

Post-modification Checklist: (BEFORE START-UP)

Applicable		Follow-up	Signature	Date
☒ Applicable	Perform prestartup audit: major equipment addition/mod. lvl 3; attach.	☒ Yes	<u>R. Rolhe</u>	<u>12-16-97</u>
☐ Applicable	PSM files updated(such as piping circuits).	☐ Yes		
☐ Applicable	Project list updated.	☐ Yes		
☒ Applicable	Documented in Operating Discipline Library	☐ Yes	<u>[Signature]</u>	<u>12-16-97</u>
	Completed Job Procedures reviewed by:	☐ Yes		
	Operations _____ Safety _____ Envir. _____	☐ 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		
☒ Applicable	Personnel trained on the change. Method: <u>Verbal Training</u>	☒ Yes	<u>R. Rolhe</u>	<u>12-24-97</u>
☐ 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		
☐ Applicable	Field switches, equipment, & MCC starters checked & labeled.	☐ Yes		
☐ Applicable	Log sheets/controlled forms updated.	☐ Yes		
☐ Applicable	GPI flow diagram & history/EDAS updated.	☐ Yes		
☐ Applicable	GEMTS, PPM, & MSMS updated.	☐ Yes		
☐ Applicable	Mod V program change checklist completed.	☐ Yes		
☐ Applicable	Fugitive emission tags added to valves.	☐ Yes		
☐ Applicable	Equipment RTO Checklist completed.	☐ Yes		
☐ Applicable	Follow-up action plan completed prior to Final Approval(attached).	☐ Yes		

APPROVAL:

Final Approver: [Signature]

Date: 1/2/98

Followup:

Run 1 temp. probe to control room + alarm on temp. deviation
check for another vent source by E-1320 Done E-1320

Find a spare high temp. valve for N₂ inlet

Add loss of flame + loss of Throx in procedure Done 12-16-97

Fuel gas deviation from piping spec. Added to moc.

12-17-97
6860
RWR/JC
RWR/JC

J5

RWR

Methanes MOC Training Signoff Sheet

MOC TITLE: Open Flame Preheater on R-1300

DATE: 12-16-97

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		
Young, Barry.	433620		
Storm, C.	249497	<i>C. Storm</i>	<u>12/16/97</u>
Hunt, L.C.	088600		
Rolke, R.W.	097946		
Stallcup, J.S.	240558		
White, W.S.	434499		

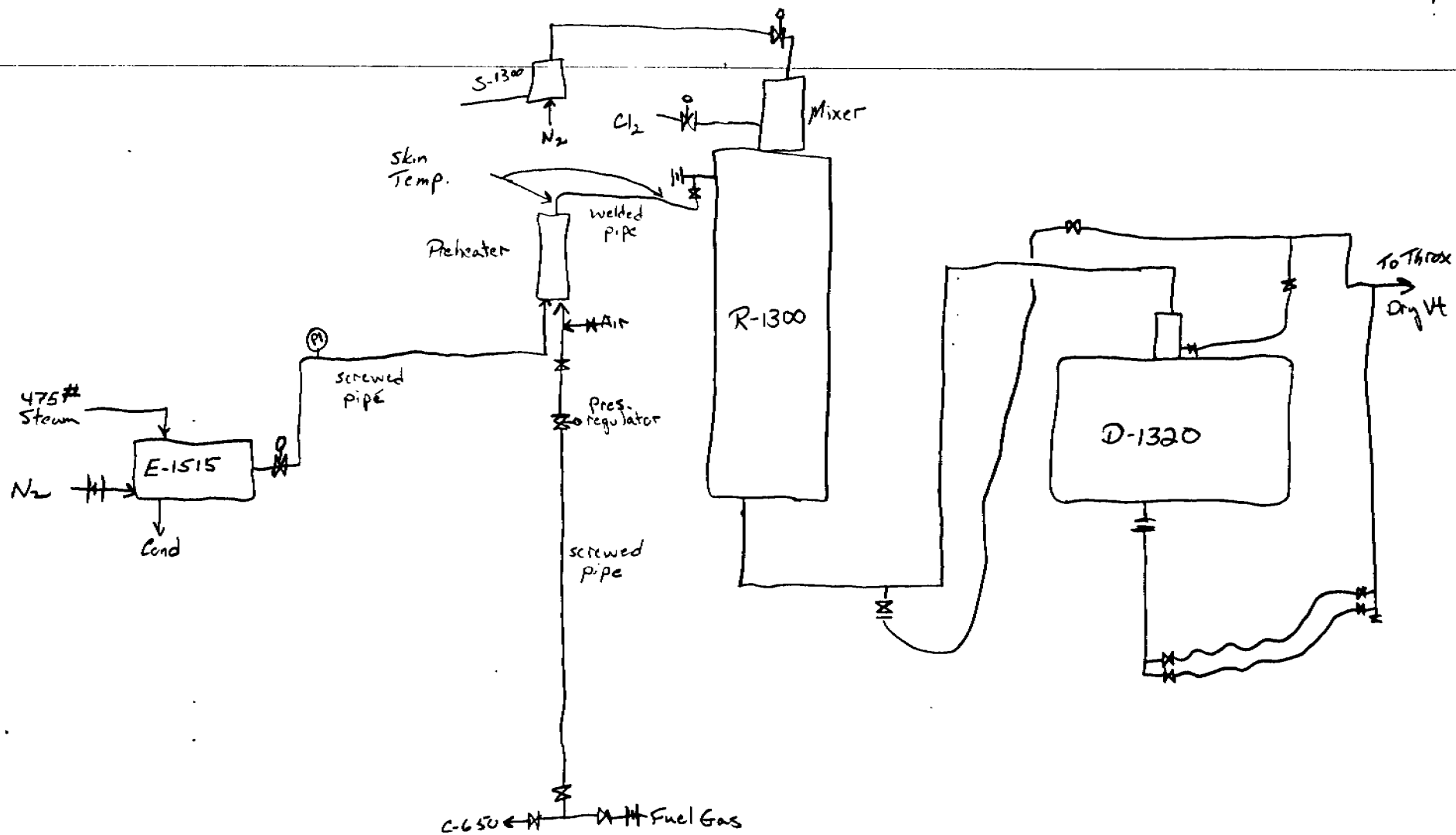
SOS	Master #	Signature	Date
Breaux, R.	433793	<i>R. Breaux</i>	<u>12/17/97</u>
Beiler, B.	281334	<i>B. Beiler</i>	<u>12/17/97</u>
Bickham, C.J.	432411	<i>C. Bickham</i>	<u>12/17/97</u>
Cook, F.	431977	<i>F. Cook</i>	<u>12-17-</u>
Cavalier, N.	241889	<i>N. Cavalier</i>	<u>12-17-97</u>
Grant, W.C.	432637	*	
Gravouilla, D. C.	434255	<i>D. Gravouilla</i>	<u>12-17-97</u>
Jackson, R.	433457	*	
Metrejean, D.J.	241773	*	
Harrison, D.	096480	*	

Day Personnel	Master #	Signature	Date
Michel, A.	432203	<i>A. Michel</i>	<u>12-16-97</u>
Cook, J.	433658	<i>J. Cook</i>	<u>12/16/97</u>
Dugas, D.	432407	<i>D. Dugas</i>	<u>12/16/97</u>
Brown, M.S.	433928	<i>M. Brown</i>	<u>12/16/97</u>
Rizzo, G.	432580	<i>G. Rizzo</i>	<u>12/16/97</u>
Johnson, J.	432541		
Donatto, B.	434031		
Carrier, B.P.	085908		
Witt, J.	241996		
Vavasseur, T.	434160		
Landry, C.P.	434292		

OS	Master #	Signature	Date
Millender, R.	432751	<i>R. Millender</i>	<u>12/17/97</u>
Bourg, J.	094487	<i>J. Bourg</i>	<u>12-18-97</u>
Davis, C.	433015	*	
Jack, O.J.	094373	<i>O.J. Jack</i>	<u>12-19</u>
Looney, R.	276854	<i>R. Looney</i>	<u>12-17-97</u>
Wolfe, D.	246186	*	
Settoon, C.	433368	*	
Ronald Skinner	243124	*	

* work complete before training needed.

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



12/16/97

Pre Start-Up Audit for R-1300

Alonzo Hester

Scott White

W. J. Hester

Don Taylor

B. J. Taylor

Ricky Vaughn

John A. Sells

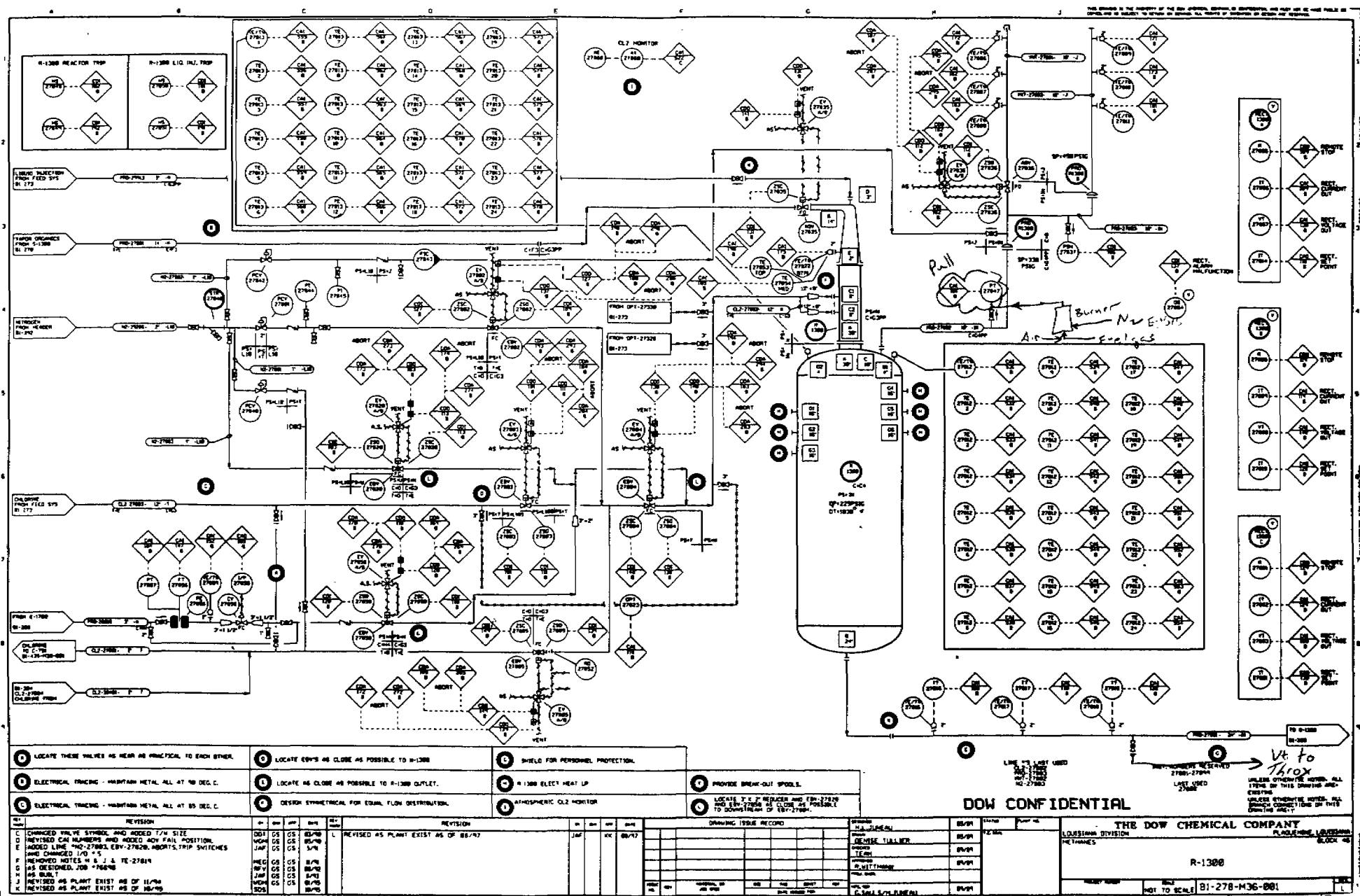
John Sells

William S. Sells

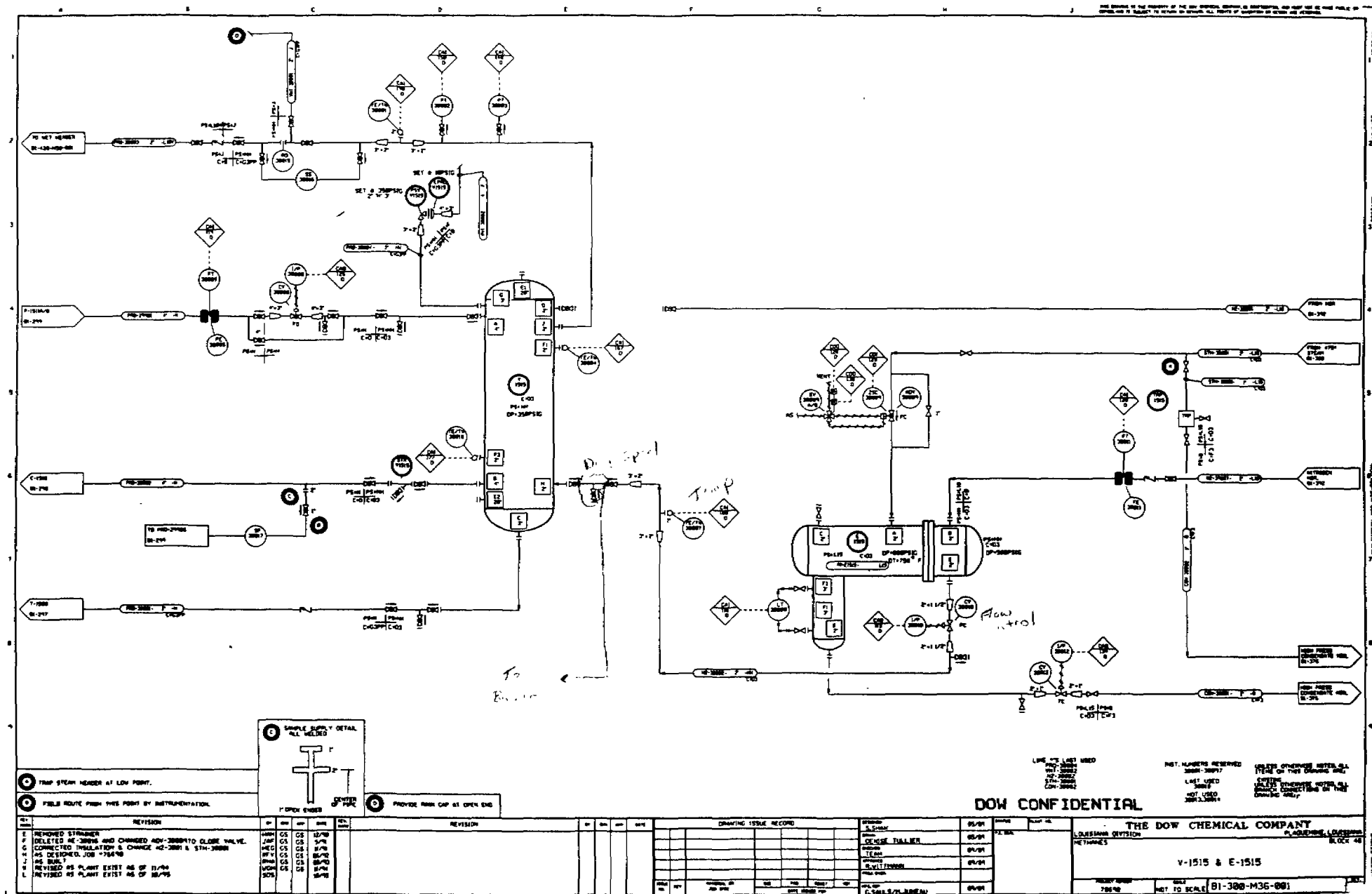
John Sells

William S. Sells

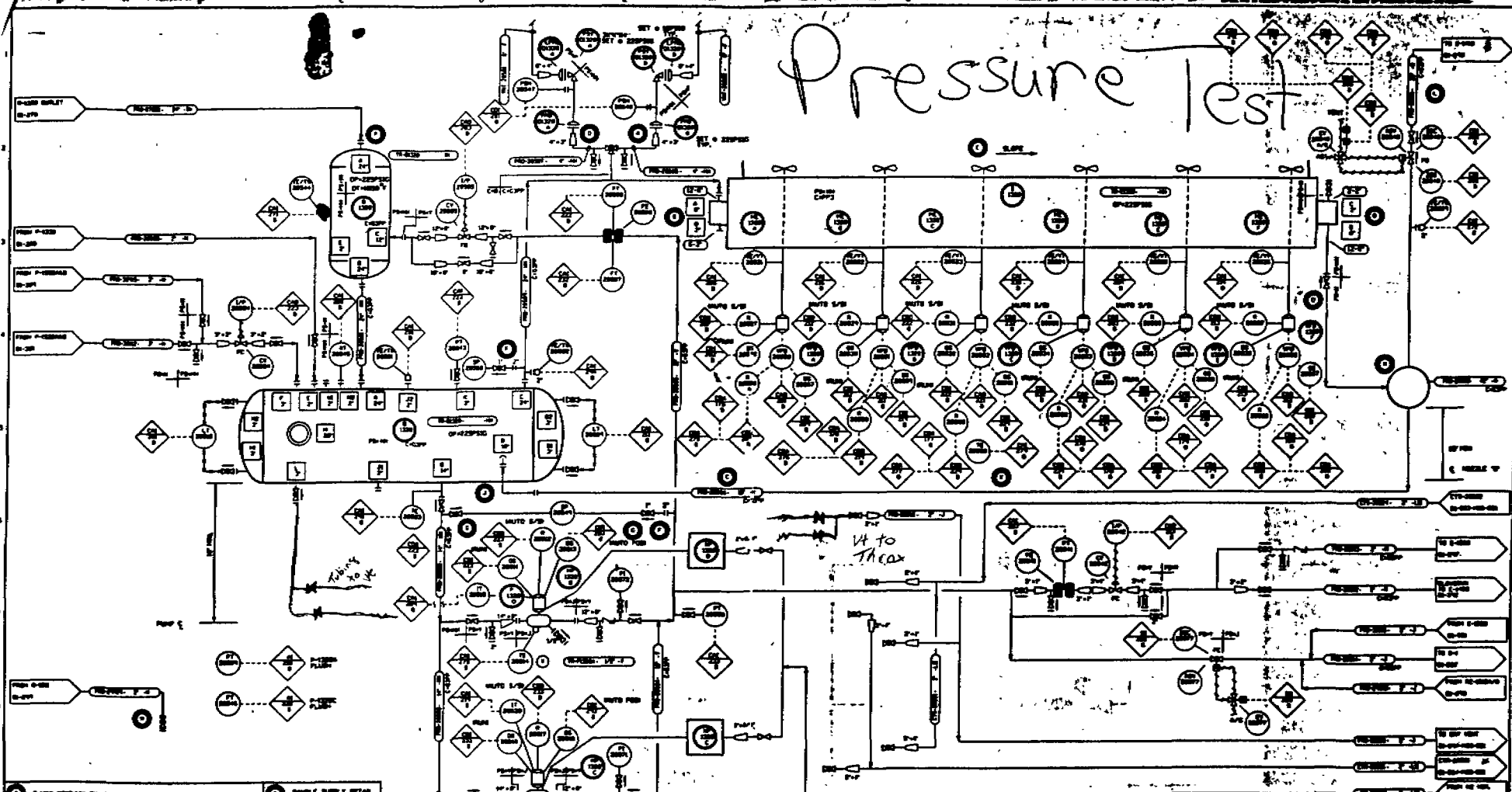
DO A 025873
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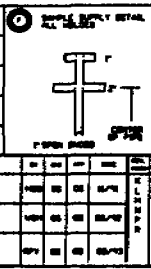
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CONFIDENTIAL



Pressure Test



- 1. Check pressure on the
- 2. Pressure on the side of the vessel on the other
- 3. Safety valve on the side of the vessel on the other
- 4. Must be accessible from inside of tank
- 5. Valve disconnector as per spec sheets



REVISION

NO.	DATE	DESCRIPTION
1	10/1/77	REVISED AS PLANT EXIST AS OF NOV. 1976.
2	10/1/77	REVISED FOR PUMP REPLACEMENT PROJECT.
3	10/1/77	REVISED FOR PUMP REPLACEMENT PROJECT.
4	10/1/77	REVISED FOR PUMP REPLACEMENT PROJECT.
5	10/1/77	REVISED FOR PUMP REPLACEMENT PROJECT.

EQUIPMENT		TANKS		PUMPS		VALVES		PIPE	
1	T-100	1	T-100	1	P-100	1	V-100	1	P-100
2	T-100	1	T-100	1	P-100	1	V-100	1	P-100
3	T-100	1	T-100	1	P-100	1	V-100	1	P-100
4	T-100	1	T-100	1	P-100	1	V-100	1	P-100
5	T-100	1	T-100	1	P-100	1	V-100	1	P-100

THE DOW CHEMICAL COMPANY

CONFIDENTIAL

0-1328 & 10-1328A/6/7/7

81-285-436-881

DO A 025875
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Item	Completed ?		
	Yes	No	N/A
Equipment Commissioning Plans Complete:	✓		
Pressure Testing	✓		
Dry Run/Simulation	✓		
Fail Safe & Interlocks Verified			✓
Instruments Calibrated	✓		
Instruments Loop Checked	✓		
Pump Rotation checked			✓
System Leak Free	✓		
Other (specify):			✓
Monitoring Plans in place for during and after startup (sampling, emissions or leak testing, etc.)			
Mechanical Integrity Programs updated:			
Pressure Vessel			
Relief Device			
In Block Piping Registration & Inspection			
Critical Instruments			
Rotating Equipment (Vibration, Lubrication, etc.)			
Other Preventative Maintenance Programs updated			
List of Glass Devices Updated			
SEOLD's Updated			
Compliance Checklists Updated (Safety, IH, Env., etc.)			
SPC/SPCC Plans Updated			
Necessary Spare Parts Obtained			
Equipment Inspected for Compliance with Design Specifications and Standards			

Attachment 1

Audit Checklist

To be completed prior to Pre-Startup meeting
(Brother's Keeper Pre-Startup Audit form acceptable for R&D Projects)

Project Name _____ Project Rep _____ Date _____

Item	Completed ?		
	Yes	No	N/A
Procedures are complete for:			
startup	✓		
shutdown	✓		
normal operations	✓		
emergency operations	✓		
line/equipment openings			✓
confined space entry			✓
lockout / tagout			✓
sampling			✓
filter changes			✓
spill containment			✓
loading / unloading			✓
decontamination			✓
other emergency (freeze, power loss, etc.)			✓
Other (specify)			✓
Consequences of deviation defined	✓		
Training Modules/Tests Complete			✓
Training Conducted or Scheduled	✓		
Plant IH Manual Updated:			✓
New MSDS's			✓
Area Maps (noise, etc.)			✓
Programs (PPE, Hearing, Hazcom, etc.)	✓		✓
Chemical & Physical Agent Inventory (CPAI)			✓
Other (specify)			✓

CMP/SOLVENTS PROCEDURE

R-1300 Preheat with Methane Burner

PURPOSE	To safely heat nitrogen to preheat R-1300 with an open flame methane burner before startup.
SCOPE	This procedure will outline all the necessary steps involved in the operation of the open flame preheater ...safety, setup, startup, running, and shutdown modes.
RELATED PROCEDURES	R-1300 Startup, R-1300 Long Heatup
DEFINITIONS	Open Flame Preheater : The coiled preheater that heats up partially heated nitrogen flow into the R-1300 reactor utilizing fuel gas/air mixture to supply a flame for the heat.
SAFETY CONCERNS & EQUIPMENT	This job entails many hazards that could prove to be quite dangerous. Below is a listing of those hazards: 1) Fire - from open flame of the preheater 2) Explosion - from a combustible mixture of methane/air inside the vessel of the preheater 3) Temperature Exposure - from the temperature generated from this type of preheating (>600 deg. C) on outlet piping. The inlet nitrogen piping will be 200 C. 4) Falls - the clutter of piping, hoses, etc. in congested area 5) Flammable Spills - Shutdown fuel gas to burner, shutdown steam to E-1515, & apply deluge gun to burner to cool it off. 6) Burner Tube Failure - Shutdown fuel gas, shutoff N2 @ E-1515 & R-1300. To combat these various job hazards, it is necessary for personnel working with this system to have the following safety equipment available as outlined below: 1) Lighting/adjusting the Flame - Flashsuit with Safety hood, Asbestos Gloves, Torch rig, and normal safety equipment and clothing for this area. 2) Safety Observing the Preheater - Normal block safety equipment and clothing for this area along with an explosive meter. Due to the nature of this open flame Preheater, it is necessary for a safety observer to continuously monitor the preheater while it is being used to verify that no problems are evident. This round involves an explosive meter reading and visual inspection of the flame, preheater outlet line, and preheater coil for problems.

Dow Confidential

This procedure is valid for 24 hours from the date viewed, 12/23/97 08:07 AM

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R-1300 Preheat with Methane Burner

ENVIRONMENTAL CONCERNS

The fuel gas flow to the preheater should be monitored every 2 hours and recorded in the logbook. This can be done by getting the difference between the block limit fuel gas flow and the Throx and C-650 feed flows.

The outlet vents from R-1300 will be sent to the Throx through the dry vent header. If the Throx can not handle the entire flow, some of the flow can be sent to Vinyl II.

The reportable spill amount for methane fuel gas is 100 lbs.

SPECIAL CONCERNS

The R-1300 pressure should be monitored at all times. The D-1320 pressure will have to be used since the R-1300 pressure is disconnected for the hot nitrogen purge.

A small nitrogen purge will be maintained in the mixer to prevent the mixer from getting too hot while preheating the reactor. Try to maintain the mixer gun barrel temperature is than 150 C. The nitrogen can be purged through the organics inlet line on top of the reactor from S-1300 bottom valve.

PROCEDURE RECOMMENDATIONS

If a procedure is currently active at relief, state in the relief notes the status off the job and the steps that have been completed up to this point.

Highlight the procedure steps as they are completed so operations personnel are aware of its status. This is especially important during shift relief when jobs are incomplete.

Avoid carryover of a job when possible. I.E. Starting a Job at 5:00 AM/PM, just prior to relief.

PROCEDURE A. Setting the Preheater

Step	Action
1	Place the 10 ft tall Preheater on the West side of R-1300. Have fire blankets placed under the preheater, especially if it is placed over the ditch on the West side of R-1300. Run 1" screwed pipe from the fuel gas line by C-650 to the burner. A 300# to 75# pressure regulator will be placed in the line by C-650. Install an emergency shutoff valve approximately 20 feet from the preheater.
2	2" screwed pipe will be used to send hot nitrogen to the preheater coils. The 2" inlet spool to V-1515 from E-1515 will be dropped and used as the N2 feed source. This N2 piping will be wrapped with insulation up to the preheater. A bleed will be placed in the line. Pressure check the line with N2 from E-1515 using the gauge mounted in the line.
3	Run ¾" tubing from the R-1300 tail line bleed to the dry vent header drop. Run ¾" tubing from the D-1320 drain manifold to the dry vent header drop. This will be used to vent the N2 to the Throx.
4	Hook up two air hoses to the inlet mixer on the preheater. This is used to mix the fuel gas and force the flume through the heater.

R-1300 Preheat with Methane Burner

5	Remove the R-1300 pressure transmitter located on the PRD nozzle. Run welded pipe from the outlet of the preheater to the 1" valve on the reactor PRD nozzle. Make sure the piping is supported properly along the West side of the R-1300 structure. The piping spec will need to handle 600C nitrogen. Insulate with foam glass.
6	Pressure check all the N2 and fuel gas piping.
	Starting Nitrogen Flow:
7	Open the nitrogen to E-1515. Line up the valves through the preheater coils and into R-1300. <i>Note: Monitor the throxx vent flow to make sure it does not over pressure the header.</i> Begin sending some of the flow to Vinyl as needed.
8	Start heating up the nitrogen with 475# steam in E-1515. The outlet temperature should be around 200 C.
9	Monitor the R-1300 pressure. Try to control the reactor at less than 20 psig. The reactor pressure can be controlled by increasing the vent flow to the Throx, or varying the nitrogen feed with AOV-115. The N2 flow can be monitored with AI-120 or the Throx dry vent flowmeter. During this same time, adjust the nitrogen flow to its maximum capability as defined by the Throx load (should be around 2200 #/hr) and any excess vents can be sent to Vinyl's Throx.
10	The preheater is ready to be lit at this point.
	Starting a Flame in the Preheater:
11	Round up the appropriate safety equipment for this job: flashsuit with safety hood, asbestos gloves, torch rig, and normal safety equipment and clothing for this area.
12	To ensure the burner is free of any restrictions, open air valves ¼ of a turn on both branches of the inlet air connections on the preheater. Allow it to blow at least a minute to clear the burner. Next, open fuel gas valve to the burner ¼ of a turn and allow it to blow for 10-20 seconds. Shut-off fuel gas valve and purge burner with air.
13	At this point, the safety observer for the lighting will sniff the area thoroughly with an explosion meter for combustibles. If combustibles are found, stop the lighting job at this point and notify operations team.
14	Once a good sniff is achieved, the person doing the lighting will don the safety equipment. During this time, the safety observer for the lighting will rope off the entire area of the steam heater and preheater with yellow caution tape.
15	With the appropriate safety gear on, the person doing the lighting will light the torch rig. Adjust the height of the flame to the appropriate length for lighting; approximately 12".
16	Now, adjust the air to the preheater by opening the valve to a 1/4 of turn in the open position on both branches of the inlet air connections.
17	Once air has been added, insert the flame into the burner and begin opening the fuel gas to the burner until the flame lights.

R-1300 Preheat with Methane Burner

18	Once a flame has been lit, adjust the air and fuel gas flows to achieve the desired heatup temperature. The burner flame should be blue if the air-to-fuel mixture is set properly. The outlet line temperature is monitored in the field with 2 skin temperature probes. Control the outlet line temperature at 650 C. There will be one field mounted probe and one sent to the control room. After the flame has been lit, we must maintain a N2 flow through the coils to prevent excess heat buildup and a coil failure.
	Flame Failure - If the flame fails, shutoff the fuel gas flow. Purge the burner with air for 3 minutes. After purging, restart the burner at Step #15. Throx Shutdown - Swap the vents to Vinyl II. If Vinyl can not take the flow, shutoff the fuel gas flow. Block in some of the vents from R-1300 and take a pressure rise in the reactor. Reduce the flow N2 flow to the coils, but maintain a flow until the coils cool down, then block in the N2 at E-1515 & R-1300.
19	Begin recording the fuel gas flow.
20	Periodically monitor the operation of the preheater by looking at the temperature and nitrogen flow into R-1300. Adjust the fuel gas, air, and nitrogen flows as needed to obtain the optimum heat input. Note: If more vent flow is desired, we may be able to vent the atmosphere if the reactor is clear. Make sure the area has been roped off with red hazard tape. Consult with the Environmental contact first.
21	During the operation of this preheater, a Dow person must be present at all times to check for problems with the system such as combustible mixture sniff, visual inspection of outlet line, and heater coil mechanical conditions (leaks, cracks, sagging, etc.). NOTE: Should any problems be found during these rounds, the outside operator will immediately shutdown the preheater and extinguish the open flame.
22	Monitor the R-1300 temperatures. If the mixer temperature gets to hot(>150 C), increase the nitrogen flow through the mixer. A Mod alarm will be setup in the control room for low and high temperatures. Continue heating until R-1300 light off conditions are met.
	Shutting Down the Preheater:
23	To shutdown the preheater, block in the fuel gas then the air. At this point the flame should be extinguished.
24	Notify the boardman that the preheater has been shutdown.
25	Shutdown the steam to E-1515. Block in the N2 to the preheater. Remove the N2 from the PRD nozzle. Extreme caution will be used because of the high heat. Use thick leather gloves. Reinstall the pressure transmitter.
26	Remove the temporary vent piping on the tail line.
27	Bleed the fuel gas pressure off the 1" line through the burner.

R-1300 Preheat with Methane Burner

R-1300 Preheat with Methane Burner**Document Control and History**

Note: To Automatically Update the following fields, Go to Edit menu and choose "Select All" , Press F9

File Name R-1300 Methane Burner Heatup

Created By Richard Rolke

Creation Date 12/15/97 9:47 AM

Last Saved By Jim Haney

Last Saved Date 12/15/97 8:07 PM

Last Print Date 12/23/97 8:07 AM

Location of This procedure will be located in the LANT51 Methproc/Procedures

Controlled Copies

NOTE TO AUTHOR: IF YOU DESIRE A HARD COPY OF THIS PROCEDURE
PLACED IN THE PROCEDURE BOOK IN THE CONTROL ROOM, INDICATE
THAT HERE AND SEND ME A MAIL MESSAGE.

DELETE THIS NOTE WHEN YOU ARE FILLING OUT THIS PROCEDURE

Copy	Location
	Procedure Book In Control Room

Revision History

Revision Date	Reviewer Name	Description of Revision
12/15/97	Jim Haney	Procedure Updates