

ETHANOLAMINES\GLYCOL ETHERS TIER 3 PROCEDURE

Section number: 208
Issue number: 1.4
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Title: Putting Ethylene Oxide Pay Meter and Piping in Service
References: Glossary of Equipment Identification (Text # 114)

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208. Putting Ethylene Oxide Pay Meter and Piping in Service

1.0 Objective:

- 1.1 To place pay meter and piping in service without damage to equipment or injury to personnel.

2.0 Responsibility:

- 2.1 It is the responsibility of the operations supervisor and the senior operations specialist to ensure that this procedure is fully complied with.
- 2.2 It is the responsibility of the senior operations specialist and the operations specialist to ensure that this procedure is utilized to protect themselves, the equipment and the environment.

3.0 Safety Notations:

- 3.1 Safety equipment needed for this job is breathing air, slicker suit, rubber boots and rubber gloves.

4.0 Special Notations:

- 4.1 Close communications with the control room will be required to perform this task.

5.0 Procedure:

- 5.1 Run tubing from downstream bleed of pay meter to the sump, making sure the tubing is below the liquid level of the sump.
- 5.2 Open the up stream block valve to the pay meter slowly and bleed through tubing until line is liquid full.
- 5.3 Block in the bleed to the sump and open up stream block valve completely.
- 5.4 Open the down stream block valve slowly and at this point the incoming oxide will be flowing through the pay meter and the bypass line.

- 5.5 Block in the bypass line to divert all oxide flow to the pay meter.
- 5.6 Install a section of tubing from the down stream bleed on the bypass line into the sump liquid level.
- 5.7 Red tag the up stream and downstream block valves on the bypass line closed and the downstream bleed valve open.
- 5.8 After the bypass line is depressured into the sump, hook up nitrogen to the upstream bleed and purge into the sump for about 30 minutes and then flush with condensate for about 30 minutes.
- 5.9 Bypass line can now be removed and the blinds reinstalled on the bypass line block valves.
- 5.10 Flush all tubing after disconnecting and replace all plugs in bleed valves.
- 5.11 Pull all red tags and clear master.
- 5.12 Clean up work area.

6.0 Revisions:

Revision No. 1	05-21-93	yearly review
Revision No. 2	12-19-94	yearly review
Revision No. 3	12-29-95	Yearly Review
Revision No. 4	02-19-96	Yearly Review