

Ethanolamines/Glycol Ethers In Plant Training (IPT)

Section Number :10
Issue Number :1.3
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Special Skills/Procedures Miscellaneous

Answers:

1. **State the safety valve policy for the Ethanolamines/Glycol Ethers plant.**
Systems are protected by two safety valves (a & b). Gate valves are to be chained, and both valves cannot be taken out of service at the same time. One must always protect the system.
2. **State what the position of the valves should be when placing a chlorine cylinder in its operating position.**
Vertical.
3. **State at what temperature the freeze precaution procedure goes into effect.**
25 degrees C or below.
4. **Define how the 30 pound steam header pressure is maintained.**
The primary source is d-510 with makeup from the 235 pound steam header.
5. **State what safety equipment is needed when racking in or out a 2300 volt motor starter switchgear.**
 - A. Nomex suit.
 - B. Hood with face shield.
 - C. Rubber and leather gloves.
 - D. Safety observer
6. **State the definition of vessel entry as far as the S&LP is concerned.**
Any work on equipment which must be entered through a manhole or vessel deeper than four (4) feet including sewers, sumps and tower skirts.
7. **State what must be checked prior to putting a pump in service if the motor power leads were disconnected.**
Pump rotation.
8. **Define what special piece of equipment is needed when blowing out product lines and equipment with nitrogen.**

Double block and bleed arrangement with a check valve.

9. Explain how you would put a reboiler in service.

- A. Take a bleed on the upstream side of the control loop through the upstream bleed. When the condensate stops flowing, reduce the flow to keep the line warm.
- B. With a level in the reboiler, take a little steam flow through the bypass to start warming up the reboiler itself. (About 2 units of flow on the chart)
- C. Take a reverse flow of hot condensate from the condensate header through the downstream side of the control loop through the downstream bleed to heat up the return line.
- D. After about 15 minutes in this mode of warm up, close the bypass block valve and line up the control loop.
- E. Call the board person and inform them that they now have control of the steam to the reboiler.
- F. Close all bleeds and open the condensate return header block valve all the way.

Revisions:

Revision No. 1	06-16-93	Yearly Review
Revision No. 2	12-13-94 12-13-94	Yearly Review Added 6d
Revision No. 3	12-29-97	Yearly Review