

Ethanolamines/Glycol Ethers In Plant Training (IPT)

Section Number :10
Issue Number :1.2
Origination Date :06-17-92 Author: Mike Viator
Revision Date :12-18-94
Section Test :10

=====

Special Skills/Procedures Ethanolamines

Answers:

1. **Demonstrate the steps taken in swapping and cleaning an F-250, F-240 and F-251.**
Demonstrate.
2. **State the safety equipment needed to add NaBH₄ powder to a TEA check or storage tank.**
Monogoggles, rubber gloves, dust mask, long sleeve shirt or slicker top.
3. **State what must be checked on a pump (prior to startup) if the motor was disconnected for maintenance.**
Pump/motor rotation.
4. **Explain what extra steps should be taken when flushing an Anderson Greenwood pressure safety valve.**
The tubing must be disconnected and flushed out. After the tubing is flushed out, one side of the tubing must be reconnected.
5. **Demonstrate the steps taken in flushing, dumping and charging CF-271 or CF-272.**
Demonstrate (on the next occasion that one of these filters needs to be charged)
6. **According to the tier 3 procedure (handling and disposition of non-conforming product) state what steps should be taken after pumping a check tank to storage that is non-conforming to typical specifications but will blend with the storage tank.**
 - A. Hook up nitrogen at tank truck rack, drumming building, and check tank. Note. Until wafer checks can be removed from the glycol ethers lines at the tank truck rack it will be necessary to use the bleed valves located in the pipe rack upstream of the AOV's.
 - B. With the recirculation valve open on the storage tank start nitrogen blowing from all three stations.
 - C. When it is evident that nitrogen is reaching the storage tank. Block in the recirculation valve and allow the header to pressure up. Open the recirculation valve and allow header to depressure into the tank. Repeat this line popping until you feel that most of

the liquid is out of the header.

- D. Block in the nitrogen at all three locations and disconnect.
- E. Pump from the storage tank back into the check tank to help eliminate excess nitrogen in the header. An initial level rise is sufficient.

- 7. **Explain how you would put E-244 in service (E-244 being empty on both sides).**
It is important here that both sides be put into service at the same time. If not you could damage the gaskets.
- 8. **Explain the function of the flash steam header.**
To make use of low pressure steam generated by the high pressure condensate header.
- 9. **Explain how you would switch E-220 from 235 pound steam to flash steam including communications with the board operator.**
Explain.

Revisions:

Revision No. 1	06-18-93	Changed Answer To Question No. 6 To Match Section No. 1703: Blowing Out Product Lines And Equipment With Nitrogen.
Revision No. 2	12-18-94	Yearly Review