

Ethanolamines/glycol ethers

Tier 3 procedure

Section No.: 5009
Issue No.: 1.1
Original Date: 02-24-94 **Author:**
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Title: T-271 Boil Out (March 03, 1994)
References: Glossary Of Equipment Identification (Txt.114) Pdp-11

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5009 T-271 Boil Out (March 03, 1994)

1.0 Objective:

- 1.1 To complete this job in a safe and environmentally sound manner.

2.0 Responsibility:

- 2.1 It is the responsibility of the shift supervisor to ensure that this job is completed in a safe, environmentally sound and efficient manner.

3.0 Safety Equipment:

- 3.1 Block safety equipment.

4.0 Safety Notations:

- 4.1 We need to save an 8 oz. Sample of each boil out material for r&d. Fred I. Will pick these up.
- 4.2 Both charcoal beds will be changed out with new charcoal while t-271 is down.

5.0 Job Scope:

- 5.1 Boil out of tower.

6.0 Equipment:

- 6.1
 - A. (2) 20 ft. By 2" flex hoses
 - B. (2) 20 ft. By 1" flex hoses
 - C. (2) 2" flex gaskets
 - D. (2) 18" pipe wrenches
 - E. (2) 1 1/16" combination wrenches
 - F. Big amines trailer empty
 - G. Bullet trailer

7.0 Pre-Shutdown Procedures (3/2/94)

- 7.1
 - A. Make out tags & master for shutdown.
 - B. Empty dv-243a & dv-272a/b before 3-2-94.
 - C. Empty big amines trailer.

D. Assemble all equipments out in the field.

E. Flush out cf-271 and cf272 on wed. Night so they could be re-charged.

8.0 Shutdown:

- 8.1
- A. Remove east t-271 feed filter
 - B. Hook up 2" flex hose from east filter to the 2" bleed on t-271 o/h line at the control loop.
 - C. Put t-260 btms. To dv-272a thru e-272p.
 - D. Pump t-271 empty to dv-275 thru the heel line.
 - E. Hook up 1" flex hose to the d/s bleed on t-271 O/h c/l.
 - F. Shutdown t-271 ejector and pressure up the tower with nitrogen to 35#.
 - G. Blow tower btms. To dv-273a and o/hs to waste trailer.
 - H. Isolate t-271.
 - I. Open boil out valve.
 - J. Hook up condensate at the u/s bleed on t-271 reflux c/l & start a flow.
 - K. Hook up condensate at the t-271 recirculation c/l & start a flow.
 - L. Tie flex hose at dv-273's to the big trailer.
 - M. When level reaches 90%, start a btms pump on recirculation. Start steam to e-270 & bring to a boil.
 - N. Boil to the big trailer until t-271 btm's tod is less than 40,000.
 - O. Open all bleeds & boil to the slab until stream is clear but no less than 8.0 hours. don't forget reflux.
 - P. Blow N2 thru tower until all free water is removed but no more than two hours.
 - Q. Close all bleeds and put t-271 on the ejector in preparation for start up.

9.0 Revisions:

Revision No.1

12-29-95

Yearly Review