

Ethanolamines/Glycol Ethers

Tier 3 Procedure

Section Number: 1712
Issue Number: 1.4
Original Date: 11-11-91 **Author:** Dwayne Leglue
Revision Date: 01-21-98
Title: Warming Up Reboilers
References: Glossary For Equipment Identification (Text # 114)
22 PM Series Start-up (For E110 Specifically)
23 EB Mode Start-up (For E110 Specifically)

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1712 Warming Up Reboilers

1.0 Objective:

1.1 To prevent damage to equipment (reboilers) and personnel by pre-heating the reboiler prior to service in a safe and efficient manner.

2.0 Responsibility:

2.1 It is the responsibility of the operations personnel to ensure that this procedure is fully complied with.

3.0 Procedure:

- 3.1 Let the boardman know you are going to warm up the reboiler.
- 3.2 Call the boardman and make sure he/she has the steam control valve closed.
- 3.3 Slowly open the upstream block valve on the steam control loop to the reboiler you are warming up.
- 3.4 Open the upstream bleed valve on the control loop.
- 3.5 Bleed cold condensate from line until you start getting steam from bleed.
- 3.6 Crack the bypass valve slowly around the control loop to allow a small amount of flow to the reboiler to start warming the shell. (NOTE: Before putting steam on a reboiler it must have a product flow going through it.)
- 3.7 Open the downstream block valve and bleed valve on the condensate return line and allow a flow to the slab. (This will warm up the condensate return line.)

3.8 Once the chest pressure on the reboiler is higher than the condensate header, close the condensate bleed valve and open up to the condensate header.

3.9 By this time the reboiler should be warm enough to close the steam bypass and open up the control loop so the boardman can have control of the steam.

3.10 Call the control room and let the boardman know the reboiler is warmed up and he/she can now has control of the steam valve.

4.0 Revisions:

4.1	Revision #1	04-21-93	Yearly Review
4.2	Revision #2	12-23-94	Yearly Review
4.3	Revision 3	12-11-95	Yearly Review
4.4	Revision #4	01-21-98	Revised 2.1 Deleted 2.2