

Ethanolamines/Glycol Ethers

Tier 3 Procedure

Section Number :215
Issue Number :1.4
Original Date :12-23-91 **Author:** Terry Pellowski
Revision Date :02-08-96
Title :Addition Of NaBH₄ Powder To Tea Tanks
References :Glossary For Equipment Identification
:Charging Borohydride (NaBH₄) Pots Area 2)

215 Addition Of NaBH₄ Powder To TEA Tanks

1.0 Objective:

1.1 To avoid spillage to the environment and protect personnel while adding NaBH₄ powder to tea tanks.

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 complied with.

3.0 Safety Notation:

3.1 Safety equipment needed for this job is monogoggles, rubber gloves, dust mask, long sleeve shirt and or slicker top.

4.0 Special Notation:

4.1 Never charge a tea tank while on recirculation. It's possible that a mixture of product and NaBH₄ powder may exit the PVRV or strapping hatch while charging. Have about a 20% level in the tank before charging.

4.2 The maximum amount of NaBH₄ in TEA is 200 PPM. If the TEA has been filtered through the NaBH₄ pots at DV-272A/B, the TEA will contain approximately 64 PPM NaBH₄. No more than 8 LB of NaBH₄ should be added to every 100,000 LB of TEA that has been previously filtered through the NaBH₄ pots.

5.0 Procedure:

5.1 Red tag the nitrogen and recirculation valves closed to the tank.

5.2 Bleed pressure off the tank through the PVRV or strapping hatch.

- 5.3 Remove PVRV or open strapping hatch and pour NaBH₄ powder into tank.
- 5.4 Replace PVRV or close strapping hatch.
- 5.5 Remove red tags and clear master.
- 5.6 Open nitrogen block valve to the tank.
- 5.7 Recirculate charged tank for about one hour and then sample.

6.0 Revisions:

Revision No. 1	06-10-93	Yearly Review
Revision No. 2	12-20-94	Yearly Review
Revision No. 3	12-29-95	Yearly Review
Revision No. 4	02-08-96	Added 4.2