

Ethanolamines/Glycol Ethers

In Plant Training (IPT)

Section Number :4
Issue Number :1.2
Origination Date :08-14-91 Author: L.C. Hughes
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Section Test :8

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Loading Familiarization

Marine Loading

1.0 Purpose:

1.1 To familiarize you with various equipment associated with marine loading. Upon completion you should have a basic understanding of the functions and locations of this equipment.

2.0 Resources:

2.1 Ethanolamines/Glycol Ethers orientation, plant P&ID's, supervision and other experienced personnel.

3.0 Required level of performance:

3.1 100% complete and correct.

4.0 Objectives:

1. Physically locate.

- A. The block 55 amines pig trap.
- B. The block 55 PM pig trap.
- C. The block 55 EB pig trap.
- D. Block 55 pig trap area safety showers.
- E. Block 55 pig trap area intercoms.
- F. Block 55 pig trap area loading emergency shutdown button.
- G. Block 55 pig trap area deluge gun(s).
- H. Block 55 pig trap area sump and pump.
- I. Block 55 pig trap area drains to outfall (canal).
- J. Old dock amines pig trap.
- K. Old dock PM pig trap.
- L. Old dock EB pig trap.
- M. Old dock hot water tracing system.
- N. Old dock pig trap area safety shower.
- O. Old dock ship loading area.
- P. Old dock barge loading area.
- Q. Old dock ship and barge emergency block valves.
- R. Block 55 pig trap area emergency block valves.

2. State the flammable products loaded to barges and ships.
3. State the combustible products loaded to barges and ships.
4. State the corrosive products loaded to barges and ships.
5. State the safety equipment needed at block 55, block 5, and the old docks for loading barges and ships.
6. State what your actions would be if you were sprayed with product.
7. State what happens when you push the loading emergency trip button.
8. State what must be done prior to opening a pig trap.
9. Explain launching pigs with nitrogen to a ship or barge.
10. Explain filling a marine line with the last contained product.
11. State how a drip pan is drained at the old dock. State when this should be done.
12. Explain how to operate the pig trap doors. The pig trap doors (both in the block and at the old dock) are opened and closed without the use of tools.

13. Explain the flushing procedure for marine lines with product.
14. State the procedure for ship tank enclosure entry. State who goes into the tank 1st, 2nd and 3rd. State the procedure for amines ship tank heating coils as related to enclosure entry.
15. Explain ullage and why it is important.
16. Explain what a ship file consists of.
17. State how stop readings are calculated for a given product and tank if line is to be pigged into the ship or barge:

Revisions:

No. 1	07-12-93	Yearly Review
No. 2	12-08-94	Deleted # 9, 10 & 16 and renumbered. Deleted word "amines" in #14.
	12-13-95	Yearly Review, no changes.
	02-22-96	Yearly Review, no changes.