

ANHYDROUS AMMONIA

ANHYDROUS AMMONIA (NH₃) TRANSFER

From Storage Tank to Nurse Tank

1. **SAFETY FIRST.** Keep and use all safety equipment readily available and in good condition:
 - Wear NH₃-rated goggles and gloves. Never wear contact lenses;
 - 150 gallons of clean water in open top container; or emergency shower/ plumbed eye wash unit;
 - Stand upwind while making transfers;
 - Check for defects/leaks in hoses, piping, valves;
 - Make sure riser pull-away protection devices function properly.
 - Be familiar with your emergency response plan; and
 - Keep unauthorized persons out of the NH₃ handling area.
2. **CHOCK** nurse tank wheels and disconnect towing vehicle from nurse tank.
3. **CONNECT** all vapor and liquid hoses/hose end valve assemblies to nurse tank vapor and liquid valves. **Tighten all fittings by hand.** Do NOT use a wrench to tighten hose-end valves onto nurse tank valves.
4. **CLOSE** all bleeder valves on vapor and liquid hose end valves.
5. **OPEN** the nurse tank valves, THEN the hose end valves.
6. **SLOWLY** open the vapor riser valve to equalize pressure between nurse and storage tanks.
7. **SLOWLY** open liquid riser valves. Turn on pump or compressor.
8. **WHILE** filling tank check liquid level by using the float and 85% fixed liquid level gauges. Inspect nurse tank components (use the Quick Checklist).
9. **WHEN** the tank is **full** (80-85%), close the following in this order:
 - Stop pump (if filling only one tank);
 - Liquid riser valve;
 - Vapor riser valve;
 - Liquid and vapor hose end valves; and
 - Nurse tank liquid and vapor valves.
10. **OPEN** bleeder valves to bleed off anhydrous ammonia in hose end valves.
11. **DISCONNECT** liquid and vapor hose end valves from liquid and vapor nurse tank valves.
12. **PLACE** hose/hose end valve assemblies in a secure place on the riser stand or platform.
13. **REPLACE** protective acme caps on nurse tank valves.
14. **CONNECT** towing vehicle (including chains) to nurse tank and remove chocks before moving towing vehicles/nurse tank