

Anhydrous Ammonia Operator's Self Audit Checklist

		Yes	No
1. Are the tanks and piping free of rust and leaks?			
2. Are the tank supports in good condition?			
3. Is the tank structure in good condition?			
4. Is the paint (white or light reflective color) in good	condition?		
5. Are "Anhydrous Ammonia" labels (minimum of 4) or or group of tanks?	n at least 2 sides of each tank		
6. Are "Inhalation Hazard" labels (minimum of 2") on or group of tanks?	at least 2 sides of each tank		
7. Is the dealer's name, address and telephone numbe display (must be in at least 2" lettering)?	er to contact in an emergency on		
8. Is the plant locked during non-business hours? A. Ma valves locked?	ain valves locked? B. Hose end		
9. Container locations shall comply with the following	table:		
Line of adjoining property which may be b	ouilt upon, highways & mainline of railr	oad	
Normal Capacity of Container (gallons):	Minimum Distances (feet) from contain		
Over 500 to 2,000	25		
Over 2,000 to 30,000	50		
Over 30,000 to 100,000	50		
Over 100,000	50		
Place of Pub	olic Assembly		
Normal Capacity of Container (gallons):	Minimum Distances (feet) from contain	er to:	
Over 500 to 2,000	150		
Over 2,000 to 30,000	300		
Over 30,000 to 100,000	450		
Over 100,000	600		
Institution	Occupancy		
Normal Capacity of Container (gallons):	Minimum Distances (feet) from contain	er to:	
Over 500 to 2,000	250		
Over 2,000 to 30,000	500		
Over 30,000 to 100,000	750		
Over 100,000	1,000		
10. Does the container have a manufacturer's name pl11. Are the liquid and vapor valves labeled as such, or and yellow for vapor)	-		



STORAGE TANKS (cont'd)

	Yes	No
12. Are all hoses within their current service life?		
13. Are the hoses marked for anhydrous ammonia use?		
14. Are the hoses in good condition; free from cuts, soft spots or bulges, blistering, kinking, flattening, or indications that the hose may have been stretched, or damaged at the coupling?		
15. Does the storage tank have an operational pressure indicating gauge?		
16. Are automatic back-check valves installed?		
17. Are pressure relief valves installed and within five years of the manufacture date?		
18. Are relief valves installed at correct height?		
19. Are rain caps on pressure relief valves in place?		
20. Does the tank have an operational pressure indicating gauge?		
21. Does the tank have an operational fixed liquid level float gauge?		
22. Is piping ASME schedule 80 (threaded) or ASME schedule 40 (welded)?		
23. Is piping protected from vehicular damage?		
24. Does the storage tank have an operational percentage fill gauge?		
25. Are only approved NH3 valves installed?		
26. Safety water container of sufficient size (50 gal) to immerse an employee body or drench shower available?		
27. Full face gas mask with a current ammonia canister or a self-contained breathing apparatus available?		
28. Rubber protective gloves available?		
29. Rubber protective boots available?		
30. Rubber protective rain suit, including both pants and coat, available?		
31. Flexible fitting, splash proof pair of goggles available?		
32. Does the storage facility have a valve suitable for venting ammonia from transfer hoses into water?		



STORAGE TANKS (cont'd)

SAFE HANDLING STANDARDS FROM ANSI, DOT, EPA, OSHA

Emergency shut off valve with manually activated shutoff from a remote location and at the installed location.

Release Protection Devices (break away couplings) on risers to prevent the uncontrolled release of anhydrous ammonia at loading stations.

Transfer Instructions posted

First Aid Procedures posted



NURSE TANKS

	Yes	No
1. Are the containers, valves, and gauges free of rust and leaks?		
2. Are "Anhydrous Ammonia" labels (minimum 4") on all 4 sides (exception: 3 sides for front fill tanks) in place?		
3. Are "Inhalation Hazard" labels (minimum of 2") on right and left sides in place?		
4. Are 1005 Placards on all 4 sides (exception: 3 sides for front fill tanks)?		
5. Is the tank identification number evident?		
6. Is the tank structure in good condition?		
7. Is the paint in good condition?		
8. Does the tank have the dealer's name, address and phone number (recommend 2" lettering)?		
9. Are tires safe and in good operating condition?		
10. Does the tank have an operational fixed liquid level float gauge?		
11. Does the tank have an operational pressure indicating gauge?		
12. Is the filling connection fitted with an approved combination back-pressure check valve and excess-flow valve or an internal excess flow valve?		
13. Does the tank have an approved vapor return valve?		
14. Does the tank have acme caps on vapor and liquid valves when not in use?		
15. Are hoses within the service life?		
16. Are the hoses in good condition; free from cuts, soft spots or bulges, blistering, kinking, for indications that the hose may have been stretched, or damaged at the coupling?	lattenin	g,
17. Are the liquid and vapor valves labeled as such, or color coded? (red/orange for liquid and yellow for vapor)		
18. Is there a functional pressure relief valve, with a rain cap?		
19. Is the pressure relief valve rusty or in need of replacement?		
20. Have means to secure both ends of the hose during transit to prevent damage to either hose or connections been installed?		
21. Has a decal been applied with the safety information detailed in the Anhydrous Ammonia Safety Rules section 4-10-6(d)(2)?		



	Yes	No
22. Is the tongue of the trailer straight and in good condition?		
23. Are adequate safety chains utilized any time the tank is in transit?		
24. Is a five gallon container of fresh clean water attached to the nurse tank? Does it have one pair of safety goggles and one pair of rubber gloves?		
25. Are any tanks parked within 50 feet of public streets?		
26. Are people engaged in handling anhydrous ammonia wearing appropriate safety equipment?		
27. Is an adequate area allocated for parking nurse tanks assigned to this location?		

NURSE TANKS (cont'd)

SAFE HANDLING STANDARDS FROM ANSI, DOT, EPA, OSHA

Emergency shut off valve with manually activated shutoff from a remote location and at the installed location.

Release Protection Devices (break away couplings) on risers to prevent the uncontrolled release of anhydrous ammonia at loading stations.

Transfer Instructions posted

First Aid Procedures posted

Slow-moving vehicle emblem (if tank will be in transit at 25 mph or less)





APPLICATOR TANKS

	Yes	No
1. Is the tank free of rust and leaks?		
2. Is the paint in good condition?		
 Are "Anhydrous Ammonia" labels (minimum 4") on all 4 sides? (Exception: no label required on the area occupied by valves and gauges) 		
4. Are "Inhalation Hazard" labels (min 2") affixed on 2 sides?		
5. Is an identification number or letter evident?		
6. Does the tank have the dealer's name, address and phone number? (We recommend 2" lettering be used)		
7. Has a decal been applied with the safety information detailed in Colorado Anhydrous Ammonia Safety Rule 9 (d)(2)(a)-(k)?		
8. Is the filling connection fitted with either an approved combination back pressure check valve or a positive shut off valve?		
9. Does the tank have an operational pressure indicating gauge?		
10. Does the tank have an operational liquid level float gauge?		
11. Does liquid level gauge indicate product? (Vehicles used for application of anhydrous amm shall not be used for the transportation of the product on roads or highways).	onia 	
12. Is a five gallon container of fresh clean water made available to each user? Does it have one pair of safety goggles and one pair of rubber gloves?		
13. Are the anhydrous ammonia hoses on the applicator tool bar free from cuts, soft spots or bulges, blistering, kinking, flattening, or slippage at the coupling?		
14. Has the applicator tool bar been equipped with a breakaway coupler?		
15. Has the breakaway coupler been properly maintained?		