ANHYDROUS AMMONIA INSPECTION CHECKLIST

1. Are the tanks and piping free of rust and leaks?  
   Yes ☐ No ☐

2. Are the tank supports in good condition?  
   Yes ☐ No ☐

3. Is the tank structure in good condition?  
   Yes ☐ No ☐

4. Is the paint (white or light reflective color) in good condition?  
   Yes ☐ No ☐

5. Are “Anhydrous Ammonia” labels (minimum of 4) on at least 2 sides of each tank or group of tanks?  
   Yes ☐ No ☐

6. Are “Inhalation Hazard” labels (minimum of 2”) on at least 2 sides of each tank or group of tanks?  
   Yes ☐ No ☐

7. Is the dealer’s name, address and telephone number to contact in an emergency on display (must be in at least 2” lettering)?  
   Yes ☐ No ☐

8. Is the plant locked during non-business hours? A. Main valves locked? B. Hose end valves locked?  
   Yes ☐ No ☐

9. Container locations shall comply with the following table:

<table>
<thead>
<tr>
<th>Line of adjoining property which may be built upon, highways &amp; mainline of railroad</th>
<th>Normal Capacity of Container (gallons):</th>
<th>Minimum Distances (feet) from container to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over 500 to 2,000</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Over 2,000 to 30,000</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Over 30,000 to 100,000</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Over 100,000</td>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Place of Public Assembly</th>
<th>Normal Capacity of Container (gallons):</th>
<th>Minimum Distances (feet) from container to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over 500 to 2,000</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Over 2,000 to 30,000</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>Over 30,000 to 100,000</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>Over 100,000</td>
<td>600</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institution Occupancy</th>
<th>Normal Capacity of Container (gallons):</th>
<th>Minimum Distances (feet) from container to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over 500 to 2,000</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>Over 2,000 to 30,000</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Over 30,000 to 100,000</td>
<td>750</td>
</tr>
<tr>
<td></td>
<td>Over 100,000</td>
<td>1,000</td>
</tr>
</tbody>
</table>

10. Does the container have a manufacturer’s name plate showing it is a code container?  
    Yes ☐ No ☐

11. Are the liquid and vapor valves labeled as such, or color coded? (red/orange for liquid and yellow for vapor)  
    Yes ☐ No ☐
<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. Are all hoses within their current service life?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>13. Are the hoses marked for anhydrous ammonia use?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>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?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>15. Does the storage tank have an operational pressure indicating gauge?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>16. Are automatic back-check valves installed?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>17. Are pressure relief valves installed and within five years of the manufacture date?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>18. Are relief valves installed at correct height?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>19. Are rain caps on pressure relief valves in place?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>20. Does the tank have an operational pressure indicating gauge?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>21. Does the tank have an operational fixed liquid level float gauge?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>22. Is piping ASME schedule 80 (threaded) or ASME schedule 40 (welded)?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>23. Is piping protected from vehicular damage?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>24. Does the storage tank have an operational percentage fill gauge?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>25. Are only approved NH3 valves installed?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>26. Safety water container of sufficient size (50 gal) to immerse an employee body or drench shower available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>27. Full face gas mask with a current ammonia canister or a self-contained breathing apparatus available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>28. Rubber protective gloves available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>29. Rubber protective boots available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>30. Rubber protective rain suit, including both pants and coat, available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>31. Flexible fitting, splash proof pair of goggles available?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
<tr>
<td>32. Does the storage facility have a valve suitable for venting ammonia from transfer hoses into water?</td>
<td></td>
<td>□  □</td>
<td></td>
</tr>
</tbody>
</table>
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

1. Are the containers, valves, and gauges free of rust and leaks?  
   Yes  No

2. Are “Anhydrous Ammonia” labels (minimum 4”) on all 4 sides (exception: 3 sides for front fill tanks) in place?  
   Yes  No

3. Are “Inhalation Hazard” labels (minimum of 2”) on right and left sides in place?  
   Yes  No

4. Are 1005 Placards on all 4 sides (exception: 3 sides for front fill tanks)?  
   Yes  No

5. Is the tank identification number evident?  
   Yes  No

6. Is the tank structure in good condition?  
   Yes  No

7. Is the paint in good condition?  
   Yes  No

8. Does the tank have the dealer’s name, address and phone number (recommend 2" lettering)?  
   Yes  No

9. Are tires safe and in good operating condition?  
   Yes  No

10. Does the tank have an operational fixed liquid level float gauge?  
    Yes  No

11. Does the tank have an operational pressure indicating gauge?  
    Yes  No

12. Is the filling connection fitted with an approved combination back-pressure check valve and excess-flow valve or an internal excess flow valve?  
    Yes  No

13. Does the tank have an approved vapor return valve?  
    Yes  No

14. Does the tank have acme caps on vapor and liquid valves when not in use?  
    Yes  No

15. Are hoses within the service life?  
    Yes  No

16. 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?  
    Yes  No

17. Are the liquid and vapor valves labeled as such, or color coded? (red/orange for liquid and yellow for vapor)  
    Yes  No

18. Is there a functional pressure relief valve, with a rain cap?  
    Yes  No

19. Is the pressure relief valve rusty or in need of replacement?  
    Yes  No

20. Have means to secure both ends of the hose during transit to prevent damage to either hose or connections been installed?  
    Yes  No

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?  
   Yes  No

23. Are adequate safety chains utilized any time the tank is in transit?  
   Yes  No

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?  
   Yes  No

25. Are any tanks parked within 50 feet of public streets?  
   Yes  No

26. Are people engaged in handling anhydrous ammonia wearing appropriate  
   safety equipment?  
   Yes  No

27. Is an adequate area allocated for parking nurse tanks assigned to this location?  
   Yes  No

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

1. Is the tank free of rust and leaks?  
   Yes   No

2. Is the paint in good condition?  
   Yes   No

3. Are “Anhydrous Ammonia” labels (minimum 4”) on all 4 sides?  
   (Exception: no label required on the area occupied by valves and gauges)  
   Yes   No

4. Are “Inhalation Hazard” labels (min 2”) affixed on 2 sides?  
   Yes   No

5. Is an identification number or letter evident?  
   Yes   No

6. Does the tank have the dealer’s name, address and phone number?  
   (We recommend 2” lettering be used)  
   Yes   No

7. Has a decal been applied with the safety information detailed in Colorado Anhydrous Ammonia Safety Rule 9 (d)(2)(a)-(k)?  
   Yes   No

8. Is the filling connection fitted with either an approved combination back pressure check valve or a positive shut off valve?  
   Yes   No

9. Does the tank have an operational pressure indicating gauge?  
   Yes   No

10. Does the tank have an operational liquid level float gauge?  
    Yes   No

11. Does liquid level gauge indicate product? (Vehicles used for application of anhydrous ammonia shall not be used for the transportation of the product on roads or highways).  
    Yes   No

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?  
    Yes   No

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?  
    Yes   No

14. Has the applicator tool bar been equipped with a breakaway coupler?  
    Yes   No

15. Has the breakaway coupler been properly maintained?  
    Yes   No