Anhydrous Ammonia Storage Facility Inspection Checklist

Firm Name (As Licensed or Producer): Location (City/State): Date:

INSTRUCTIONS: UNLESS OTHERWISE NOTED, specify non-compliance by entering “[X]” in the boxes or next to item number.

PERIODIC INSPECTION REQUIRED—MN Rules 1513.0160, Subpart 13, requires that pressure relief devices (PRDs—hydrostats and pressure relief valves) receive a periodic visual external inspection to determine that PRDs: (A) are free of evidence of tampering, damage, corrosion, or foreign matter that might prevent proper operation; (B) are free of leakage when subject to pressures below the minimum allowable start to discharge setting; (C) has a properly secured rain cap or other device to avoid entry of moisture or other matter into the relief valve outlet; and (D) has an open weep hole to permit moisture to escape (weep holes – only for pressure relief valves)

MIN CITATION SITE IDENTIFICATION / LICENSING / RIGHT TO KNOW TRAINING SAFETY EQUIPMENT (1513.0040)

1513.0380 1. LEGIBLE SIGN AT SITE WITH SITE ID, ADDRESS, PHONE #5 OF SITE AND AFTER HOURS STAFF.
18C.415 2. CURRENT FERTILIZER LICENSE AND FERTILIZER LICENSE POSTING REQUIRED

18C.235 3. IRP – INCIDENT RESPONSE PLAN REQUIRED
IRP UPDATED EVERY 3 YEARS AND DOCUMENTED.
IRP REVIEWED WITH EMPLOYEES ONCE CALENDAR YEAR AND DOCUMENTED.
IRP MADE AVAILABLE TO LOCAL RESPONDERS AND DOCUMENTED.

1513.0400 4. NH3 SAFETY & COMPETENCY TRAINING REQUIRED

1513.0340 5. IF TWO+ TANKS, TANKS MUST BE AT LEAST 5 FT APART

TANKS IDENTIFICATION / LOCATION STORAGE TANK 1 STORAGE TANK 2 STORAGE TANK 3 STORAGE TANK 4

1513.0130 13. Clean area within 10 ft. of tank(s) of weeds, combustible materials, and materials not required for facility operation and access to emergency personnel and vehicles.

Nos. 15 – 18; Sides of each tank or outer sides of a group of tanks TANK PAINTING / MARKINGS / PLACARDING

1513.0220 14. Tank(s) requires painting
1513.0360 15. “Anhydrous Ammonia” 4-inch letters
1513.0360 16. “Inhalation Hazard” 4-inch letters
1513.0360 17. “1005” placards
1513.0360 18. Guaranteed grade analysis; one area per tank
1513.0140 19. System openings ID required for liquid / vapor phases

TANK NAMEPLATE DATA & NON–CODE WELDING STORAGE TANK 1 STORAGE TANK 2 STORAGE TANK 3 STORAGE TANK 4

1513.0140 20. Tank manufacturer
1513.0140 ASME construction code symbols
1513.0140 Tank Serial No. & Contract No.
1513.0140 National Board No.
1513.0140 Year or Date Built
1513.0140 Plant Manufactured
1513.0140 Tank PSI Rating @ °F
1513.0140 Overall length (OL) & Outside diameter (OD)
1513.0140 Tank Gallonage Sq. Ft. Area & CFM Required (See #61)
1513.0140 Head and shell metal thickness (inches)
1513.0120 21. Non–code welding on tank

R = Repair    RP = Replace TANK FOUNDATION / SUPPORTS / SADDLE CONTACTS (1513.0340)


22. Foundation / Support type - Concrete (C), Metal (M), Skid (SK), etc. Supports: Foundation: Supports: Foundation: Supports: Foundation: Supports: Foundation:

23. Tank foundation (F) / supports (S) R or RP required. Saddle support corrosion protection contacts (SC) requires R or RP.

24. Saddle supports covers at least 1/3 circumference of newly installed / relocated tank

25. Tank bottom at least 18 inches from ground level?

TANK APPURTENANCES STORAGE TANK 1 STORAGE TANK 2 STORAGE TANK 3 STORAGE TANK 4

1513.0140 26. 95% fixed liquid level gauge–operates properly, etc.
1513.0140 27. Magnetic / float liquid level gauge
1513.0320 28. 0–400 PSI / NH3–rated pressure gauge
1513.0190 29. Temperature Gauge
1513.0320 30. Excess Flow Valve before each shutoff valve in tank

PIPING & PIPING APPURTENANCES (System) STORAGE TANK 1 STORAGE TANK 2 STORAGE TANK 3 STORAGE TANK 4

1513.0160 31. NH3–rated piping/fittings required
1513.0160 32. Eliminate leaks in system
1513.0160 33. Traffic protection (tanks, piping, etc.)
1513.0160 34. Provision for expansion/contraction required
1513.0150 35. Main tank shut-off valves installed correctly?
1513.0370 36. Main tank valves closed/locked OR closed/securely fenced when facility is unattended.

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### PUMPING / COMPRESSOR / METER SYSTEM APPURTERANCES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1513.0200</td>
<td>Compressor and/or pump/sizes, pump inlet and outlet piping</td>
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<tr>
<td>1513.0200</td>
<td>Discharge side of liquid pump before or near the pressure actuated bypass valve/line</td>
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<tr>
<td>1513.0200</td>
<td>Both sides of compressor</td>
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<tr>
<td>1513.0200</td>
<td>Dirty or out of condition PRV and/or defective/rain cap</td>
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</tbody>
</table>

### NURSE TANK LOADING RISERS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1513.0200</td>
<td>Liquid Type = Pipe size =</td>
</tr>
<tr>
<td>1513.0200</td>
<td>Type = Pipe size =</td>
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</tbody>
</table>

### RAIL & TRANSPORT UNLOADING AREA

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>1513.0200</td>
<td>Liquid: Vapor:</td>
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### TRANSPORT UNLOADING AREA

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### TANK IDENTIFICATION / MANFOLD & PRV LOCATION

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<tbody>
<tr>
<td>1513.0200</td>
<td>Brand of manifold(s) (C = Continental; RD/RM = Rego Duoport/Multiport; ST = Squibb Taylor)</td>
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<tr>
<td>1513.0200</td>
<td>PRV Brand (C = Continental; RL/RS = Rego/large/small; ST = Squibb Taylor)</td>
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</tbody>
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**In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.**