

BULK PLANT and INDUSTRIAL PLANT INSPECTION ITEMS

Regularly checking the items on this list will aid you in keeping your bulk or industrial plant in good repair. It may also help you prepare for a successful inspection. These inspections apply to sites where there are containers larger than 4000 gallons water capacity or the tanks present have an aggregate capacity exceeding 4000 gallons water capacity.

Each item includes a reference to the section of the *LP-Gas Code*, 2024 edition of NFPA 58 2024, where the requirement is stated. This is not an exhaustive list. Please note that there is one item labeled as Other, where violation(s) of any requirement(s) in the code may be listed. The items' descriptions are brief, as needed by the limited space on the inspection form.

1. TANKS

- Data Plate Legible (5.2.8.3)
- 250 PSI Working Pressure (5.2.4.3)
- Quantity Gage (5.9.4.3(2))
- Pressure Gauge (5.9.4.3(3))
- Temperature Gauge (5.9.4.3(4))
- Contour Concrete or Welded Steel Saddles on Concrete Pier (6.8.3.1)
- Corrosion Protection between tank & saddle/pier (6.8.3.2)
- Paint (6.8.1.4)
- Relief Valves, Proper (5.9.2)
- Relief valve discharge, upward, away (6.9.2.3)
- Relief valve discharge/riser cover (6.9.2.4, 6.9.2.5)
- Excess-flow, back check, or internal valves located in container (5.9.8.1)
- Shutoff valves as close to container as practical (5.9.8.1 (E))
- Internal valves thermal and remote closure (6.13.3, 6.13.4)
- Remote Shutdown Station and Sign (6.13.4, 4.10)
- Leak Free (6.17.1.1)
- Openings labeled LIQUID or VAPOR (5.9.8.5)
- Proper separation from buildings, property lines ()
- 5 ft (or as required) between tanks (Table 6.4.1.1)
- 20 ft from other fuels greater than 660-gallon capacity (6.5.3.6)
- 6 ft horizontally from overhead power line of 600V or more (6.5.3.13)
- Protected from vehicular traffic (6.8.1.2)
- Tank or property identified as to owner/user (GS 119.58 (b))
- Cathodic protection for UG/mounded tank (6.8.7.1(I), 6.20)

2. PIPING

- Proper material, schedule 40 or 80 (5.11.3.1, 6.11.3.5)
- Supported (6.11.3.10)
- Protected from vehicles (6.8.1.2, 6.11.3.11)
- Protective coating if underground (6.11.3.15, 6.20.2)
- Painted/protected if above ground (6.11.3.12, 6.19.1, 6.20.1)
- Leak Free (6.17.1)
- Hydrostatic Relief valve where liquid can be trapped (6.16)
- Caps on hydrostatic relief valves (6.9.2.4)
- Flexible connectors no more than 60" or 36", proper condition (6.21.2.2.1, 6.21.4.2.1)
- Excess-flow valve in piping for continuing process (6.14.2)

- Piping & valves on pump pressure -350 PSI min (5.14.2.1)

3. TRANSFER POINTS (Bulkhead, Rail Loading)

- Cargo vehicles 10' minimum from tank (7.2.3.3)
- 25 ft from public ways (6.7.2.1)
- 25 ft from buildings, openings, pits, property lines, railroad tracks (6.7.2.1)
- 50 ft from outdoor public assembly (6.7.2.1)
- 5 ft from driveways (6.7.2.1)
- 20 ft from other fuel containers (6.7.2.1)
- 15 ft from non-Class 1, Division 2, electrical wiring and fixture (6.26.2)
- 10 ft from containers other than those being filled -includes stored tanks (6.7.2.1)
- Hoses 350 PSI-labeled, good condition (5.11.7.4)
- Backflow check valve tested annually (6.15.11)
- Bulkhead design protects plant piping (6.15.8)
- Automatic closure of ESVs (6.15.6, 6.15.9)
- Back check, emergency shutoff valves (ESV) located behind bulkhead (6.15.8)
- ESV has remote actuations and is operational (5.15.2.3, 6.15.10)
- ESV thermal actuation (6.15.6, 5.15.2.3)
- ESV remote 20-100 ft toward exit (4.10)
- Pump operating controls (6.21.2.4)
- Observed smoking within 25 ft (7.2.3.2 (B))
- Source of ignition control (7.2.3.2)
- Piping designed to exclude debris (6.22.2.5)

4. TRUCKS IN BULK PLANT AREA

- Parked 10 ft min from tanks for loading/unloading (7.2.3.3)
- Parking brake and wheel stops used (9.4.8)
- Evidence of smoking in trucks (9.4.10)

5. PROCEDURES

- Operating Procedures (15.2, 15.3, 15.4, &15.5, as applicable)
- Maintenance Procedures (15.6, 15.7)
- Fire safety analysis (6.30.3)

6. CYLINDER FILLING ROOM (in addition to 3)

- Excess-flow device - pipe at hose (6.28.3.6)
- Must comply with Chapter 10 if enclosed (6.28.3.2)
- Fire extinguisher -18 lbs dry chemical with B:C rating (6.30.4.2)
- Breakaway for vehicle dispenser, hose length (6.28.4.1, 6.28.3.20)

7. RAIL DELIVERY POINT (in addition to 3)

- Level (6.22.2.3 (A))
- Barriers at end of siding (6.22.2.3 (C))
- Sign TANK CAR CONNECTED (7.2.3.6 (1))
- Wheels chocked (7.2.3.6 (2))
- ESV at tank car end of hose or swivel type piping (or excess-flow for flow to car)(6.22.2.6, 7.2.3.7)

8. VAPORIZERS

- Make, Model Approved (5.25.2.1, 5.25.3.1)
- Location (6.25)

9. FIRE PROTECTION AND SECURITY

- Fence 6 ft industrial w/ 2 gates (6.22.4.2)
- Fire Extinguisher, 18 lb dry chemical with B:C rating (6.30.4.2)
- Combustibles not accumulated or stored within 10 ft from tanks and transfer points (6.5.3.3, 6.7.2.1)
- Lighting (if night loading, unloading or operations are conducted) (6.22.5)
- Stored tanks kept at least 5 ft from Bulk Tank (6.3.2(2)(f))
- NO SMOKING sign on fence around plant (6.26.3)
- ESV remote marked with sign (4.10)
- Tanks stored outside fenced area must have openings plugged or capped (5.9.7.2)
- Plant locked when unattended (6.22.4)
- Container ESVs and internal valved closed if unattended (15.2.1.4)
- Valid LP-Gas Dealer License, if applicable (GS 119-56)
- Personnel trained for safe fueling (7.2.2.1, 4.4)

10. Other (This means anything else in the code that the inspector thinks needs attention.)