

BUREAU OF STANDARDS

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Section No. 4

Version: 1.2

Procedure No. 4

TITLE: LP Gas Bulk Delivery Truck Inspection

PURPOSE: This document details the procedures used to conduct a LP Gas Inspection of a Liquefied Petroleum Gas Bulk Delivery Vehicle.

Safety inspections will be carried out using the procedures detailed below. Guidelines for operation and maintenance of Liquefied Petroleum Gas Bulk Delivery Vehicles are detailed in NFPA 58, CFR Title 49, Chapter 527, F.S. and Rule 5J-20 F.A.C. All data and observations are recorded on the inspection worksheet.

1. Pre-inspection:
 - 1.1. Review the list of trucks registered in the LP Gas Data Base at the licensed facility
NOTE: Have the list available the date of the inspection
 - 1.2. Notify the dealer 5 working days prior to your scheduled date of inspection to verify the availability of the truck(s) and driver(s).
 - 1.3. Review the list of trucks on record to inspect.
 - 1.4. Discuss and reconcile any discrepancies
 - 1.4.1. Where a truck is listed and no longer at the facility – remove from service in the data base.
 - 1.4.2. Where the facility has a truck not listed add the truck to the data base prior to the entry of the inspection.
 - 1.4.3. Where trucks are listed but not available for inspection, document reason.
2. Inspection:
 - 2.1. Use the LP Gas Bulk Truck Inspection check list to conduct the majority of the inspection of the following areas:
 - 2.2. Cab
 - 2.2.1. Verify shipping papers
 - 2.2.2. Verify Pre-trip and Post-trip inspections
 - 2.2.3. Review and confirm the current or previous months Monthly Emergency Shut-Off Device Test was documented
 - 2.2.4. Review and confirm the current or previous months monthly inspection of delivery hose was documented
 - 2.2.5. Review the driver training records with minimum refresher training of 3 year intervals**NOTE: If documents are not maintained in the vehicle cab, review records maintained in the office.**
 - 2.3. Container
 - 2.3.1. Initial inspection for new trucks

- 2.3.1.1. The data plate is accessible with the specifications to be type MC 330, MC331, or DOT 51
 - 2.3.1.1.1. Non specified containers must comply with 49 CFR 173.315(k)
- 2.3.1.2. Quenched and tempered steel (QT) or other than quenched and tempered (NQT) Labels are affixed next to the data plate
- 2.3.1.3. Gauging device (rotary, fixed or dip tube style)
- 2.3.1.4. Roll-Over protection for the container relief valves
- 2.3.1.5. Container shall be designed for proper support and all container anchor points are securely fastened to the chassis.
- 2.3.1.6. All container valves are protected, assessable and equipped with flow protection (excess flow or back-check)
- 2.3.1.7. Internal valves are equipped with thermal actuation
- 2.3.1.8. Threaded primary valves and fittings directly into the container are steel, malleable or ductile iron
- 2.3.2. Routine Inspection
 - 2.3.2.1. Painted a light reflective color
 - 2.3.2.2. 1075 Placard on all 4 sides of vehicle and not within 3" advertising
 - 2.3.2.3. Common product name is affixed on all 4 sides of the vehicle separate from advertisement with minimum 2" lettering
 - 2.3.2.4. Emergency Shut off Valve (ESV) remote closure station is identified using minimum ¾" lettering with contrasting background
 - 2.3.2.5. Required periodic testing decals reflect current inspections
 - 2.3.2.5.1. Pressure test (P/PI)—5-year interval or 10-year interval for MC331 cargo tanks < 3,500 gallons water capacity in dedicated propane service constructed of nonquenched and tempered NQT SA-612 steel
 - 2.3.2.5.2. External Visual/Leakage Test (VK)—annually
 - 2.3.2.5.3. Mechanical—annually
 - NOTE: Where the decals cannot be located, documentation of the most recent test must be available for review.**
 - 2.3.2.5.4. If periodic testing is found out of date 3 working days are given to comply. Failure to comply results in the issuance of a Stop Use Order. The inspector is required to contact their supervisor prior to issuing the Stop Use Order.
 - 2.3.2.6. Inspect electrical components and wiring to insure no exposed wiring and is secured in place
 - 2.3.2.7. Check for missing, loose or broken bolts where container is attached to the chassis
 - 2.3.2.8. Verify a protective cap/cover is in place over the relief valve and relief valve is not obstructed
 - 2.3.2.9. Inspect the container and container welds for damage such as corrosion, dents, or gouges
 - 2.3.2.10. Verify all container openings are labeled, liquid or vapor as applicable
 - 2.3.2.11. Inspect the container for leakage in accordance with the departments adopted procedure for the detection of leaks
- 2.4. Piping, Transfer Equipment and Hose
 - 2.4.1. Initial inspection shall inspect the following:

- 2.4.1.1. Pump, Meter and piping is securely mounted and protected from expansion, contraction and vibration.
- 2.4.1.2. Flex hoses do not exceed 36" in length.
- 2.4.1.3. Piping is schedule 80 threaded or schedule 40 welded.
NOTE: Schedule 80 will be marked with pressure rating
- 2.4.1.4. Valves are rated @ 350 psig
- 2.4.1.5. Hydrostatic relief valves, are rated @ 450 psig and installed in sections of liquid piping where the liquid can be isolated between shut off valves
- 2.4.1.6. Hydrostatic relief valves are installed in the motor fuel lines and rated @ 375 psig
- 2.4.1.7. Pump bypass valve is installed for positive displacement pumps.
- 2.4.1.8. A differential or excess flow valve is installed before the delivery hose.
- 2.4.1.9. Locate the data plate on the meter and note the manufacturer and serial number
- 2.4.1.10. Verify the meter is temperature compensated.
- 2.4.2. Inspect the entire piping system to include motor fuel system for leakage in accordance with the departments adopted procedure for the detection of leaks
- 2.4.3. Inspect for piping corrosion
- 2.4.4. Inspect flex connectors for excessive cracking or damage
- 2.4.5. Inspect markings on flex connectors and hoses for date placed in use. Hoses including flex connects are required to be replaced at maximum 10 year intervals
- 2.4.6. Inspect delivery hose and hose assembly for the following:
 - 2.4.6.1. Pull hose to full length to inspect.
 - 2.4.6.2. Damage to outer cover that exposes reinforcement.
 - 2.4.6.3. Kinked or flattened hose.
 - 2.4.6.4. Soft spots or bulges in the hose.
 - 2.4.6.5. Couplings that have slipped on the hose, are damaged, missing parts, or loose bolts.
 - 2.4.6.6. Leakage other than permeability leakage.
- 2.4.7. Where hose damage or leakage is observed the inspector shall contact the supervisor to discuss the issue of a Stop Use Order.
- 2.5. Equipment
 - 2.5.1. Inspect the Fire Extinguisher
 - 2.5.1.1. Minimum 18 lb B:C rating
NOTE: Fire extinguishers having more than one letter classification with the B:C rating are acceptable.
 - 2.5.1.2. Fully charge
 - 2.5.1.3. Annual certification
 - 2.5.2. Chock blocks shall be set when parked or when pump is engaged.
- 2.6. Test
 - 2.6.1. Test Emergency Shut Down and conduct Meter Creep Test
 - 2.6.1.1. The driver/operator is to initiate flow of product through the meter and at the inspector's direction shut down at the ESV located on the vehicle.
NOTE: When the ESV is activated this should close the cargo valve leaving the Power Take Off (PTO) engaged

- 2.6.1.2. The inspector will clock the time it takes for the meter to come to a complete stop. The meter must completely stop within 30 seconds and hold for an additional 5 to pass.
- 2.6.1.2.1. Where the meter does not stop or hold as required, the inspector shall contact the supervisor to discuss the issue of a Stop Use Order.
- 2.6.2. Test the remote shut down device for operation
- 2.6.2.1. With the PTO engaged, the driver is to walk the full length of the delivery hose and perform the shut down using the device.
- 2.6.2.1.1. If the PTO does not disengage and the truck is shut down, the inspector shall contact the supervisor to discuss the issue of a Stop Use Order.

Version	Rev. Date	Change Control Comments	Approver
1.1	9/19/16	Add to section 2.4.6 for hose inspection. Updated 2.4.7	AES
1.2	12/13/16	Updated 2.2, 2.3.2.5.1. Added 2.3.2.5.4 and removed note from 2.4.6.6	AES