



Corporate Office
 5060 Arsenal St.
 St. Louis, MO 63139
 Phone: 314-772-4501
 Email: Service@NeumayerEquipment.com

NAME MURPHY 6362 TECH _____
 ADDRESS 2501 PROGRESS PARKWAY PHONE NO _____
 CITY SHELBYVILLE STATE IN ZIP 46176
 DATE 9/23/2024 PO# 70438141
 START TIME _____ STOP TIME _____ MILES _____

08/29/2024 AT 14:24 : CALL DESCRIPTION: INCONCLUSIVE: PUL LINE COULD NOT BE TESTED DUE TO EXCESSIVE AIR IN THE LINE. NON-PASS: BOTH RUL AND PUL LEAK DETECTORS WOULD NOT PRESSURE UP TO OPERATING PRESSURE AFTER LEAK RATE CHECK. EXCESSIVE AIR IN ALL THE LINES. DSL LEAK DETECTOR FAILED TO METER. DSL AND PUL OVERFILL DID NOT PASS. DROP TUBES DO NOT MEET THE 95% MEASUREMENT REQUIREMENTS. PASS: RUL AND DSL LINES AND IMPACT VALVES PASSED. ALL S1PD, VENT CAPS, E-STOP AND RUL OVERFILL PASSED. CUSTOMER SURVEY COMPLETE. MAINT. NOTES: BOTH RUL STPS AND PUL STP HAVE WATER PRESENT. RULS ARE FULL AND PUL HAS 9".
 NOT TO EXCEED (NTE): \$500.00

09/10/24 at 13:50: FOUND THE SITE TANK CHARTS, REMOVED THE DIESEL AND PUL DROP TUBES, FOUND BOTH SHUTOFFS ABOVE 95%, WILL NEED 2 OPW 71SO DROP TUBES SENT TO SITE TO BE ASSEMBLED AND INSTALLED.

09/23/24 at 11:13: INSTALLED THE NEW PUL AND DIESEL DROP TUBES, BOTH NOW SET AT 95%.

APPENDIX C-5

UST OVERFILL EQUIPMENT INSPECTION AUTOMATIC SHUTOFF DEVICE AND BALL FLOAT VALVE

Facility Name: MURPHY 6962-5	Owner:	
Address: 2501 PROGRESS PARKWAY	Address:	
City, State, Zip Code: SHELBYVILLE IN 46176	City, State, Zip Code:	
Facility I.D. #:	Phone #:	
Testing Company: NEUMAYER EQUIPMENT	Phone #:	Date:

This data sheet is for inspecting automatic shutoff devices and ball float valves. See PEI/RP1200, Section 7 for inspection procedures.

Product Grade	PUL	DSL				
Tank Number	2	3				
Tank Volume, gallons	7817	11849				
Tank Diameter, inches	120	120				
Overfill Prevention Device Brand	EMCO	EMCO				
Type:	<input checked="" type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve	<input checked="" type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve	<input type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve	<input type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve	<input type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve	<input type="checkbox"/> Automatic Shutoff Device <input type="checkbox"/> Ball Float Valve

AUTOMATIC SHUTOFF DEVICE INSPECTION

1. Drop tube removed from tank?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Drop tube and float mechanisms are free of debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Float moves freely without binding and poppet moves into flow path?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Bypass valve in the drop tube is open and free of blockage (if present)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Present
5. Flapper is adjusted to shut off flow at 95% capacity?*	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

A "No" to any item in Lines 1-5 indicates a test failure.

BALL FLOAT VALVE INSPECTION

1. Tank top fittings are vapor-tight and leak-free?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Ball float cage free of debris?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Ball is free of holes and cracks and moves freely in cage?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Vent hole in pipe is open and near top of tank?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Ball float pipe is proper length to restrict flow at 90% capacity?†	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

A "No" to any item in Lines 1-5 indicates a test failure.

Test Results	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
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* Use manufacturer's suggested procedure for determining if automatic shutoff device will shut off flow at 95% capacity.

† Use manufacturer's suggested procedure for determining if flow restriction device will restrict flow at 90% capacity.

Comments:

Tester's Name A.J. ANDERSON Tester's Signature A.J. ANDERSON



Coincident Use of Overfill Prevention Devices in Underground Storage Tanks

Office of Land Quality

(317) 234-4112 • (800) 451-6027

www.idem.IN.gov

100 N. Senate Ave., Indianapolis, IN 46204

Introduction:

Every owner or operator of regulated petroleum underground storage tanks (USTs) in Indiana must comply with state and federal requirements for overfill prevention equipment as required by the Indiana Code (*IC 13-23-1*), and the Code of Federal Regulations (*40 CFR, Part 280, Subparts B and C*). Owners and operators must follow these requirements:

- Use overfill prevention equipment that will do one of the following:
 - Automatically shut off flow into the tank when the tank is no more than 95% full; or
 - Alert the transfer operator when the tank is no more than 90% full by restricting the flow into the tank or triggering a high-level alarm; or
 - Restrict flow 30 minutes prior to overfilling, alert the transfer operator with a high level alarm one minute before overfilling, or automatically shut off flow into the tank so that none of the fittings located on top of the tank are exposed to product due to overfilling.
- Ensure that releases due to spilling or overfilling do not occur. The owner and operator must ensure that the volume available in the tank is greater than the volume of product to be transferred to the tank before the transfer is made and that the transfer operation is monitored constantly to prevent overfilling and spilling.

Some UST owners and operators have flow restrictor devices, commonly known as ball float vent valves, installed on UST systems as overfill prevention equipment. Some UST owners and operators have or will opt to use automatic shut off devices, commonly known as flapper valves, in place of ball float vent valves.

Ball float vent valves and flapper valves cannot be allowed to coexist on the same UST if they are installed according to industry practice. Ball float vent valves are required to be installed so they activate when the UST is 90% full or less. Flapper valves must be installed so they activate at 95% or less. Under certain conditions, the use of both devices could lead to a release of fuel from the top of the vent pipe, which can be more than ten feet above ground level and pose an extreme fire or explosion risk, as well as harm to the environment. This dual use can also cause fuel to flow into the vapor recovery line which can then cause the fuel to be spilled on the surface when the hose is removed from the vapor recovery port.

Ball float vent valves used as flow restrictors may need to be accessed or removed for required testing in accordance with 40 CFR 280.35. In order to alleviate difficult circumstances that would be imposed on UST owners and operators, and possible damage to existing UST systems in situations where a ball float vent valve cannot be accessed and/or removed, alternatives are allowed as long as the alternative complies with the requirements of the applicable rules.

Alternatives Allowed:

While some form of overfill prevention equipment must be utilized, owners and operators will only be required to operate and maintain the overfill prevention equipment identified as the "primary" form in use on a specific tank if:

- The primary form of overfill prevention equipment has been identified by submitting a new UST Notification Form; and
- The owners and operators verify through adequate documentation that the multiple forms of overfill prevention equipment cannot interfere with each other; and
- The owners and operators verify through adequate documentation that the primary form of overfill prevention equipment is installed in accordance with the rules and the manufacturer's specifications.

UST owners and operators may install a flapper valve on the fill pipe of a UST while a ball float vent valve is also in use if:

- The owners and operators verify through adequate documentation that a ball float vent valve cannot be accessed and/or removed; and
- The owners and operators install a flapper valve set to activate at or below the level of the ball float vent valve installed on the same UST; normally at or below 90% full; and

- The owners and operators submit adequate documentation to IDEM, detailing at what level the flapper valve was installed, the diameter and length measurements of the UST, and that the flapper valve was installed in accordance with applicable national industry standards.

Any alternative utilized by an owner and/or operator, including installation and use of multiple overfill prevention mechanisms, must be installed, operated, and maintained in a manner that will prevent releases. The alternatives listed will be approved and permitted by the agency only as long as they continue to provide for adequate overfill prevention. Owners and operators must ensure an alternative applied at their site(s) functions as required to prevent releases due to overfilling of a UST.

Environmental Impacts:

- Indiana has over 4,100 operating UST sites that have over 12,000 USTs. If not managed properly, these sites can have negative impacts on human health and the environment from releases such as underground leaks and above ground spills.
- Refined petroleum products such as gasoline and diesel are a mixture of numerous compounds that have a detrimental effect on human health or the environment. These compounds are often toxic or carcinogenic.
- Contamination from leaking UST sites can migrate to streams or lakes, contaminate drinking water, or cause dangerous vapors in buildings and underground sewers.
- By ensuring that UST owners and operators operate and maintain appropriate overfill prevention equipment, releases can be prevented.

IDEM's Role:

IDEM is responsible for protecting human health and the environment while providing for safe industrial, agricultural, commercial, and governmental operations vital to a prosperous economy. IDEM's UST Compliance Section is responsible for inspecting all regulated UST systems in Indiana for compliance with applicable rules and regulations.

UST Owner or Operator's Role:

Owners and operators of petroleum USTs must ensure that a release, spill or overfill does not occur due to improper installation, operation or maintenance of overfill prevention equipment.

Owners and operators must be able to properly document all aspects of the physical characteristics of their UST systems and provide the documentation in accordance with 329 IAC 9 and 40 CFR, Part 280.

Additional Information:

- For questions regarding UST compliance, call the UST Program at (317) 234-4112 or (800) 451-6027, ext. 4-4112.
- Applicable laws are found at:
 - UST Rule- www.IN.gov/legislative/iac/T03290/A00090.PDF

Ball floats present? Tank #/grade 1 RUL yes no Tank #/grade 2 PUL yes no Tank #/grade 3 DSL yes no
 Tank #/grade _____ yes/no Tank #/grade _____ yes/no Tank #/grade _____ yes/no

If ball float cannot be removed the following procedure must be documented:

- Measure from the bottom of the tank to the top of the ball float riser = A _____
- Measure from the bottom of the tube where the ball would seal off the tube to the top of the ball float riser = B _____
- Record in inches the ball float activation height: A - B = C _____
- Tank Chart activation height = D _____ (95% if no ball float present)
- New install activation height = E _____ **If the ball float is left in place the ASD flapper must be set below value C by at least 1" instead of the calculated 95% shutoff height** Example: A=144", B=64", C= (144" - 64") = 80", D 95% = 90", but ASD still must be set to activate lower than ball float at C - 1 = 89" = E

New install activation height Value E:

Tank 1 95% Tank 2 95% Tank 3 95% Tank 4 _____
 Tank 5 _____ Tank 6 _____ Tank 7 _____ Tank 8 _____

NAME: A.J. ANDERSON Certification# _____ DATE 10/23/2024 CK Store # 6962

SIGNATURE:
 IDEM Fact Sheet
 CO0420L
A.J. ANDERSON





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Ball floats present? Tank #/grade 2- PUL yes/no Tank #/grade 3-DIESEL yes/no Tank #/grade _____ yes/no
 Tank #/grade _____ yes/no Tank #/grade _____ yes/no Tank #/grade _____ yes/no

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New install activation height Value E:

Tank 1 _____ Tank 2 _____ Tank 3 _____ Tank 4 _____
 Tank 5 _____ Tank 6 _____ Tank 7 _____ Tank 8 _____

NAME: A.J ANDERSON Certification# _____ DATE 9/23/24 CK Store # 6962

SIGNATURE:
 IDEM Fact Sheet
 CO0420L
A.J. ANDERSON

