



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-761.900(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-761.850, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Preferred Utilities MFG. Corp. Contact Name: Jacob Powell
Company Address: 31-35 South St. City, State: Danbury, Connecticut Zip: 06810
E-mail: jpowell@preferred-mfg.com Contact Number: (203)743-6741
Product Name: Overfill Protection Devices: Liquid Level Switch, Model PLS and Overfill Models FA-AV and FA-AV-D3
Model Number(s): PLS, FA-AV, and FA-AV-D3 Product Type: AST/UST Spill Containment
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), _____

F.A.C.: Write a brief description of equipment registration request including product limitations:

This is a renewal request for EQ-819. The product has not changed since the product was last submitted to the DEP.

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☐	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☐	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☐	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☐	☒	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☐	☒	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☐	☒	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☐	☒	☐
10. Any requirements for company-certified installers or trainers?	☐	☒	☐
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- <u>819</u>	☐	☐	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Jacob Powell Engineer
Printed Name and Title

Jacob Powell
Signature (right click to sign)

03/18/2022
Date

For Department Use Only:

Date Application Received: 03/18/2022 Application complete: Yes: ☒ No: ☐

EQ- 819 Date of complete or incomplete letter sent: 04/12/2022 Date Equipment Requires Renewal: 4/12/2027

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-761.850(2), F.A.C.

OVERFILL ALARM STATION

Model FA-AV Fil-A-Larm System

For Overfill Prevention of Fuel Oil Storage Tanks per NFPA 30 and NFPA 31

The Model Fil-A-Larm system is designed to be located near the tank fill terminal to notify of a potential overfill condition. It triggers a high level alarm that alerts the filling operator that the tank is filled to its predetermined capacity. When an overfill alarm occurs, the alarm bell sounds and the corresponding alarm light flashes. The bell is automatically silenced in 90 seconds or instantly silenced when the operator selects the "alarm silence" pushbutton. The visual alarm is highly visible even in direct sunlight. The enclosure top mounted flashing lamp is visible from 180°. A "test" pushbutton is provided to verify the operation of the flashing alarm light(s) and bell. The alarm automatically resets when liquid level goes below the overfill alarm setpoint. A digital display of tank volume is available.

The Model Fil-A-Larm system is surface-mounted, NEMA 4 rated, moisture-proof enclosure. The box material is carbon steel. The interior is prime coated and painted with a durable white enamel.

Specifications

Enclosure: 12" W x 12" H x 6" D, NEMA 4

Audible Alarm: 4" 92 db bell

Visual Alarm: Lens 3 1/4" H, 4 3/8" Dia.
with 40 Watt bulb

Alarm Silence button: Silences bell (auto time-out also)

Alarm Test: Verifies flashing alarm light(s)
and bell

Ordering Information

Standard Unit FA-AV: Available for 1, 2, or 3 tanks

Order FA-AV-[1, 2, or 3 (*number of tanks*)]-D3

Example: FA-AV-2-D3 would be for two tanks

To add gallons display unit:

order FA-AV-[1, 2, or 3]-R-D3



FIL-A-LARM System Model FA-AV-2 shown

Suggested Specifications

Provide and install where shown on the drawings an Audible/Visual Overfill Alarm Station for (1, 2, or 3) tanks to be activated by Preferred Utilities HLS high level switch, TG-EL-D3 or TG-EL-D5 Tank Gauges. The system shall consist of a Preferred FA-S caution sign and NEMA 4 weather-proof cabinet to include a 4" weather-proof bell with automatic silencing, 180° visible flashing lamp, bell silencing pushbutton, and alarm test pushbutton. Overfill alarm station shall be a Preferred Utilities Mfg. Corp., Danbury, CT, Model FA-AV. **To add gallons display** to FA-AV add: "to include a digital display of tank content, reading directly in gallons without multiplier."

*Gallons Display Unit - Without "sticking" the tank, the gallons display unit allows the filling operator to read tank contents prior to filling. A digital display reads directly in gallons (0-150,000 gallons without multiplier). Display unit is available for up to three tanks.

FIL-A-LARM CAUTION SIGN

Model FA-S

Installed near the FA-AV Alarm System or Model 2 In-Wall Spill Container, the sign reduces the possibility of tank overfilling by alerting the operator to the presence of the Fil-A-Larm System and Model 2 In-Wall Spill Container. The sign is 20" W x 14" H, 18 gauge steel with porcelain enameled bright yellow background and 2" black lettering.

Suggested Specifications

Provide and install an "overfill caution sign" near the overfill alarm station. The sign shall be 20"W by 14"H of 18 gauge steel with porcelain baked enamel finished bright yellow background and minimum 2" H black lettering. The caution sign shall read: **CAUTION WHEN ALARM BELL SOUNDS OIL TANK FILLED TO CAPACITY DO NOT OVERFILL.** Sign shall be a Preferred Utilities Mfg. Corp., Danbury, CT, Fil-A-Larm Sign Model FA-S.



Ordering Information

Model: FA-S

LIQUID LEVEL SWITCH

Model PLS

The Model PLS Level Switch provides up to six independent liquid level switches on one sealed probe up to 72" in length. Magnetic reed switches are encapsulated in the sealed brass probe where they are protected from liquids and vapors. Buna-N floats, containing magnets, slide on the outside of the brass probe. A rising liquid level causes each float to rise to its upper travel stop position where it actuates a switch. For integration into a Preferred fuel oil handling system the PLS switches are supplied with the switch contacts "closed" when the float is in the down position, but either orientation can be ordered.

Application

The Model PLS level switch may be used with any clean, low viscosity, non-adhering fluid compatible with brass, solder, epoxy and Buna-N. It is commonly used on fuel oil day tanks to control the addition of oil from remote pumps, and to alarm high and low levels. Other applications include pressurized or vented tanks for water, hydraulic fluid, lubricating oils or distillate fuels. Insert the unit vertically and then thread it into a 1¼" NPT half coupling on the tank shell. The wiring enclosure is not designed to be submerged. A suitable protective enclosure for access, such as the Preferred sidewalk fill box, should be provided when installing underground. (See page 83.)

Suggested Specifications

The tank level control shall be Model PLS-XX-Y (XX" long with Y switches) as manufactured by Preferred Utilities Mfg. Corp. Danbury, CT. Control shall be float operated, installed through and threaded into a single 1¼" tapping on the top of the tank. Control shall be suitable for pressures up to 150 PSIG and temperatures up to 180°F and shall be entirely of nonferrous material with ___ switches each rated at 100 watts.

Specifications:

Mounting:	1¼" NPT coupling
Fluid Temperature:	180° F maximum
Fluid Specific Gravity:	0.5 minimum
Fluid Pressure:	150 PSI maximum
Electrical*:	100 W at 120 VAC resistive 8 VAC relay coil pilot duty
Switch Action:	Can be N.O. or N.C.
Housing:	Cast aluminum, UL listed
Wetted Parts:	Brass probe and Buna-N float

* Do not operate tungsten lamps directly from the contacts of the Model PLS as the cold filament inrush current will damage the contacts



Liquid Level Switch
Model PLS

Ordering Information

Model PLS-[length in inches]-[# of switches]

Preferred Level Switches are custom fabricated. The probe can be up to 72" long with up to 6 switching points that may be specified to be either "open" or "closed" at any point along the probe length. At least 3" must be provided between adjacent operating points, 2" between the lower end of the probe and the lowest operating point, and 2" between the highest operating point and the bottom of the mounting plug. Please contact the factory and request Form 344 which details the information required for each assembly.

Specifications subject to change without notice.



**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

March 21, 2014

Mr. Dexter Bullard
Preferred Utilities Mfg. Corp.
31-35 South Street
Danbury, CT 06810

Subject: Approval of the Preferred Utilities Mfg. Corp.
Overfill Protection Devices: Liquid Level Switch, Model PLS and Overfill
Models FA-AV and FA-AV-D3.
File No. EQ-819

Dear Mr. Bullard:

The Office of District and Business Support has concluded its review of the Equipment Approval request dated November 8, 2013 that was submitted for Preferred Utilities Mfg. Corp. the liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3, of which there are three versions, for one, two, and three tank, pursuant to Rules 62-761.500(5)(b), 62-761.850(2), 62-762.501(2)(d), and 62-762.851(2), Florida Administrative Code (F.A.C.). The liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3 provides overfill protection associated with underground and aboveground storage tanks. The liquid level switch, Model PLS can be set for each tank and the overfill alarm panels Models FA-AV and FA-AV-D3 can provide an alarm to stop the filling of the tank when the product level has been reached. The liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3 meet the technical requirements of the Florida storage tank system rules.

Based on the information provided by Preferred Utilities Mfg. Corp., the liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3 provide environmental protection substantially equivalent to that provided by compliance with the requirements established in to Rules 62-761.500(5)(b), and 62-762.501(2)(d), F.A.C. and may be used to provide overfill protection associated with underground and aboveground storage tanks.

Pursuant to Rules 62-761.850(2) and 62-762.851(2), F.A.C., the request for the use of the Preferred Utilities Mfg. Corp. the liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3 is approved in the State of Florida as overfill protection devices associated with underground and aboveground storage tanks. The installation and operation of the liquid level switch, Model PLS and the overfill alarm panels Models FA-AV and FA-AV-D3 shall be made in accordance with the manufacturer's recommendations.

Please be advised that the above referenced DEP rules are subject to change. If the above rule standards are modified in the future, this order may be modified or rescinded for future upgrades and installations. Additionally, if the product(s) show a consistent pattern of failure(s), and therefore does not provide substantially equivalent environmental protection, the Department may rescind this order.

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57, F.S., within **21** days of receipt of this Order. Persons who have filed such a petition may seek to mediate the dispute and choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning a hearing and pursuing mediation are set forth below.

Persons affected by this Order have the following options:

- A. If you choose to accept the Department's decision regarding the Order, you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.
- B. If you choose to challenge the decision, you may do the following:
 - 1. File a request for an extension of time to file a petition for hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order. This request should be made if you wish to meet with the Department in an attempt to resolve any disputes without first filing a petition for hearing or negotiate an agreement to mediate; or
 - 2. File a petition for administrative hearing with the Department's Agency Clerk in the Office of General Counsel within **21** days of receipt of this Order.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation under Section 120.573, F.S., and must negotiate an agreement to mediate within **10** days after the deadline for filing a petition.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant, shall mail a copy of the request to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida, 32399-3000, within **21** days of receipt of this Order. Petitioner, if different from the applicant shall mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information.

- a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the DEP facility number, and the name and address of the facility;
- b) A statement of when and how the petitioner received notice of the Department's action or proposed action;
- c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- e) A concise statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

How to Pursue Mediation

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for hearing). The agreement must contain all the information required by Rule 28-106.404, F.A.C. The agreement, signed by all parties, must be received by the Agency Clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000 within **10** days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

Pursuant to Rule 28-106.404, F.A.C., an agreement to mediate must include the following.

- (i) The name, address, and telephone number of the persons who may attend the mediation, (also the DEP facility number, the name and address of the facility if applicable);
- (ii) The name, address, and telephone number of the mediator agreed to by the parties;
- (iii) How the costs and fees associated with the mediation will be allocated (the Department will not pay any of the costs of mediation);
- (iv) The agreement of the parties regarding the confidentiality of discussions and documents introduced during mediation to the extent authorized by law;
- (v) The date, time, and place of the first mediation session;
- (vi) The name of the party's representative who shall have authority to settle or recommend settlement; and
- (vii) The signature of the parties.

As provided in Section 120.573, F.S., the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57, F.S., for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within **21** days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57, F.S. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57, F.S., are resumed.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or mediation settlement.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Agency Clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department (see below).

Mr. Dexter Bullard EQ-819

March 21, 2014

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Questions

Any questions regarding the Department's review of your equipment approval should be directed to John Svec at (850)245-8845. Questions regarding legal issues should be referred to Rebecca Robinette, Office of General Counsel, at (850)245-2242. Contact with any of the above does not constitute a petition for administrative hearing, a request for a time extension to file a petition for hearing or an agreement to mediate.

Sincerely,



John A. Coates, PE, Assistant Division Director
Division of Waste Management

JAC/js

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to §120.52 Florida Statutes,
with the designated Department Clerk, receipt of
which is hereby acknowledged.



Clerk
(or Deputy Clerk)

____03/24/2014_____
Date

LIQUID LEVEL SWITCH

Model PLS

The **Model PLS Level Switch** provides up to six independent liquid level switches on one sealed probe up to 72" in length. Magnetic reed switches are encapsulated in the sealed brass probe where they are protected from liquid and vapors. Buna-N floats, containing magnets, slide on the outside of the brass probe. A rising liquid level causes each float to rise to its upper travel stop position where it actuates a switch. Any switch may be specified "open" or "closed" with the float at its lower stop position.

Application

The Model PLS Level Switch may be used with any clean, low viscosity, non-adhering fluid compatible with brass, solder, epoxy and Buna-N. It is commonly used on fuel oil day tanks to control the addition of oil from remote pumps, and to alarm high and low levels. Other applications include pressurized or vented tanks for water, hydraulic fluid, lubricating oils or distillate fuels. Insert the unit vertically and then thread it into a 1¼" NPT half coupling on the tank shell. The wiring enclosure is not designed to be submerged. A suitable protective enclosure for access such as the Preferred Sidewalk Box should be provided when installing underground.

Suggested Specifications

The tank level control shall be **Model PLS-XX-Y** (XX" long with Y switches) as manufactured by Preferred Utilities Mfg. Corp. Danbury, CT. Control shall be float operated, installed through and threaded into a single 1¼" tapping on the top of the tank, shall be suitable for pressures up to 150 PSIG and temperatures up to 180°F and shall be entirely of nonferrous material with ___ switches each rated at 100 watts.

Specifications:

Mounting:	1¼" NPT Coupling
Fluid Temperature:	180° F maximum
Fluid Specific Gravity:	0.5 minimum
Fluid Pressure:	150 PSI maximum
Electrical*:	100 W at 120 VAC resistive 8 VAC relay coil pilot duty
Switch Action:	Can be N.O. or N.C.
Housing:	Cast aluminum, UL listed
Wetted Parts:	Brass probe and Buna-N float

* Do not operate tungsten lamps directly from the contacts of the **Model HLS** as the cold filament inrush current will damage the contacts



*Liquid Level Switch
Model PLS*

Ordering Information

Model PLS-[length in inches]-[# of switches]

Preferred Level Switches are custom fabricated. The probe can be up to 72" long with up to 6 switching points which may be specified to be either "open" or "closed" at any point along the probe length. At least 3" must be provided between adjacent operating points, 2" between the lower end of the probe and the lowest operating point, and 2" between the highest operating point and the bottom of the mounting plug. Please contact the factory and request Form 344 which details the information required for each assembly.

Specifications subject to change without notice.

OVERFILL ALARM STATION

Model FA-AV Fil-A-Larm System

For Overfill Prevention of Fuel Oil Storage Tanks per NFPA 30 and NFPA 31

The **Model Fil-A-Larm System** is designed to be located near the tank fill terminal to notify of a potential overfill condition. It triggers a high level alarm that alerts the filling operator that the tank is filled to its predetermined capacity. When an overfill alarm occurs, the alarm bell sounds and the corresponding alarm light flashes. The bell is automatically silenced in 90 seconds or instantly silenced when the operator selects the "Alarm Silence" pushbutton. The visual alarm is highly visible even in direct sunlight. The enclosure top mounted flashing lamp is visible from 180°. A "Test" pushbutton is provided to verify the operation of the flashing alarm light(s) and bell. The alarm automatically resets when liquid level goes below the overfill alarm setpoint. A digital display of tank volume is available.

The Model Fil-A-Larm system is surface-mounted, NEMA 4 rated, moisture-proof enclosure. The box material is carbon steel. The interior is prime coated and painted with a durable white enamel.

Specifications

Enclosure:	12" W x 12" H x 6" D, NEMA 4
Audible Alarm:	4" 92 db bell
Visual Alarm:	Lens 3 1/4" H, 4 3/8" Dia. with 40 Watt bulb
Alarm Silence button:	Silences Bell (auto time-out also)
Alarm Test:	Verifies flashing alarm light(s) and bell

Ordering Information

Standard Unit FA-AV: Available for 1, 2, or 3 tanks

Order **FA-AV-[1, 2, or 3 (number of tanks)]-D3**

Example: FA-AV-2-D3 would be for two tanks

To add Gallons Display Unit:

order **FA-AV-[1, 2, or 3]-R-D3**



FIL-A-LARM System Model FA-AV

Suggested Specifications

Provide and install where shown on the drawings an Audible/Visual **Overfill Alarm Station** for (1, 2, or 3) tanks to be activated by Preferred Utilities **HLS** High Level Switch, **TG-EL-D3** or **TG-EL-D5** Tank Gauges. The system shall consist of a Preferred **FA-S** Caution Sign and NEMA 4 Weather-proof Cabinet to include a 4" weather-proof bell with automatic silencing, 180° visible flashing lamp, bell silencing pushbutton, and Alarm Test Pushbutton. Overfill Alarm Station shall be a Preferred Utilities Mfg. Corp., Danbury, CT, Model **FA-AV**. **To add Gallons Display** to **FA-AV** add: "to include a digital display of tank content, reading directly in gallons without multiplier."

*Gallons Display Unit - Without "sticking" the tank, the Gallons Display Unit allows the filling operator to read tank contents prior to filling. A digital display reads directly in gallons (0-150,000 gallons without multiplier). Display unit is available for up to three tanks.