



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: 3S International Inc Contact Name: John Kuykendall
Company Address: 1073 Neely Ferry Road City, State: Laurens SC Zip: 29360
E-mail: john.kuykendall@3sinternational.com Contact Number: 864-575-1777
Product Name: UL 142-A Sub Base Generator Tank
Model Number(s): 3SI 2000G & 1000G Product Type: Sub Base Tank
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762 AST
Sub-belly fuel tank (double-walled with an integrated spill bucket)

Write a brief description of equipment registration request including product limitations:

AST - Double-walled tank, with an integrated containment and spill bucket. Tanks are required to be equipped with approved overfill protection device and with an interstitial release detection system. All equipment shall be installed and testing in accordance to manufacturer's recommendations, current industry standards, and all local, State, and Federal regulations prior to dispensing any regulated substances from the tank.

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- _____	☐	☒	☐
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.:

Please see the attached UL profile documents.

Equipment Registration Certification:

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

John Kuykendall CEO

Printed Name and Title

John Kuykendall

Signature (right click to sign)

Digitally signed by John Kuykendall
Date: 2021.12.16 12:02:50 -05'00'

12/16/2021

Date

For Department Use Only:

Date Application Received: 01/05/2022 Application complete: Yes: ☒ No: ☐

EQ- 970 Date of complete or incomplete letter sent: 01/31/2022 Date Equipment Requires Renewal: 01/31/2027

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.



John Kuykendall
3S INTERNATIONAL CORP
1073 NEELY FERRY RD
LAURENS SC 29360

Date: 2020/02/21
Subscriber: None
PartySite: 1337073
File No: MH64198
Project No: 4789369678
PD No: 20009252
Type: L
PO Number: 3S-9000-UL2500

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2020/02/20	1	1	Cert of Compliance	
2020/02/20	1	1	Add New Volume	

Inspections at your plant will be conducted under the supervision of Marcus Fulkerson, Field Engineering Area Manager, UL LLC - Field Engineering Services, 3482 Keith Bridge Road, #326, Cumming, GA 30041, PHONE: 812-205-5246, EMAIL: Marcus.Fulkerson@ul.com

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

This material is provided on behalf of UL LLC(UL) or any authorized licensee of UL.

NBK File

UL INSPECTION CENTER 221

Follow-Up Service Procedure

DO NOT DISCARD THIS PAGE

It is important to keep UL Procedures and Test Reports up-to-date as new or revised pages are received. Correct maintenance will decrease the amount of time the UL Representative spends when visiting your facility.

UL LLC offers MyHome @UL, a dedicated website providing secure access to online tools and databases that can help simplify your compliance activities. You can customize your personal MyHome @UL page to include the content needed most, including timely information about certification updates and links to other Web sites you visit regularly. Visit <http://my.home.ul.com/> to sign up today!

PAGES (in content order)	FUNCTION	HOW TO UPDATE
Authorization Page	Displays the Product Category, the type of Follow-Up Service (Type R=Reexamination / Type L=Label), the File Number and the Volume Number associated with each Applicant's, Manufacturer's and Listee's company name and address.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Addendum to Authorization Page*	Lists the additional names and addresses of manufacturing locations, when multiple locations exist	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Listing Mark Data (LMD), Classification Mark Data (CMD) or Recognized Component Mark Data (RCMD) Pages* #	Used only for products covered under Type R Service. Displays the correct LMD, CMD, or RCMD Mark, the Control Number for Listed and Classified categories and additional information regarding minimum size, application, procurement, and any other optional markings, in addition to the UL Mark.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Multiple Listing (ML) Correlation Sheet*	Correlates product model numbers between those products made by a Manufacturer for the Basic Applicant and those supplied to another company, the Multiple Listee.	Replace, add or delete page(s) with most current "Issued" or "Revised" date.
Index*	Catalogs the contents of the Procedure by some logical means, i.e. Section Number, Report Reference Number, or Issue Date.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Appendices* # (App.)	Contains instructions for the Manufacturer and UL Representative concerning specific responsibilities and required periodic tests. May also outline tests to be conducted on samples to be forwarded to UL's facilities.	Replace present page by matching the UL File Number, Volume Number, Appendix letter (eg. App. A), Page Number and most current "Revised" date.
	Standardized Appendix Pages are the same for all manufacturers within a particular product category.	Replace present page by matching the Appendix letter (eg. App. A), Page Number and most current "Revised" date.
Follow-Up Inspection Instructions (FUII) Pages*	Contains information similar to that in the Appendices. FUII Pages are issued as part of the Procedure when a UL Standard is used in conjunction with the Procedure, and are the same for all manufacturers within a particular category.	Replace present pages by matching the Page Number and most current "Issued" or "Revised" date.
Section General* # (Sec. Gen.)	Contains description, requirements, identifications and/or specifications that are common to all products covered by the entire volume and supplements the information provided in the Description Section.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Description, or Section (Sec.)*	Contains the specific description of one or more products or systems. This includes written text supplemented by photographs, drawings, etc., as necessary, to define features that affect compliance with the applicable requirements.	Replace present page by matching the UL File Number, Volume Number, Section Number, Page Number and most current "Issued" date.

* The above page(s) may not appear in all UL Follow-Up Service Procedures; UL's Conformity Assessment Services staff determines their inclusion.

These pages are combined in the **Generic Inspection Instructions** for International Style Reports, identified, as example by Vol. X1, X2, etc.

PLEASE NOTIFY YOUR LOCAL UL OFFICE OF ANY CHANGES IN CONTACT NAME, COMPANY NAME OR ADDRESS, SO THIS MATERIAL AND IMPORTANT INFORMATION CONTINUES TO BE DELIVERED TO YOUR FACILITY WITHOUT INTERRUPTION.



File MH64198

Vol 1

Auth. Page 1

Issued: 2020-02-20

Revised: 2020-02-20

FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

SPECIAL-PURPOSE TANKS
(EFVT)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 1337073 (Party Site)
3S International Corp
1073 Neely Ferry Rd
Laurens SC 29360

Listee: 1337073 (Party Site)
SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following web-site: <http://www.ul.com/fus> . Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <http://www.ul.com/aboutul/locations/> , select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <http://services.ul.com/fus-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body.

Bruce A. Mahrenholz
Director
Conformity Assessment Programs (CPO)
UL LLC

File MH64198 Vol 1 Addendum To Page 1 Issued: 2020-02-20
Authorization Page Revised: 2020-02-20

LOCATION

1337073 (Party Site)
3S International Corp
1073 Neely Ferry Rd
Laurens SC 29360

Factory ID: None
UL Contracting Party for above site is: UL LLC

ModelsSectionReport Date

Secondary Containment Generator Base Tanks

1

2020-02-20

**STANDARDIZED APPENDIX PAGES
SUBJECT 2067**

for

**SPECIAL PURPOSE TANKS (EFVT)
and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

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STANDARDIZED APPENDIX PAGES

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SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)

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**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

APPENDIX A – FIELD ENGINEER’S RESPONSIBILITIES AND INSTRUCTIONS FOR EXAMINATION OF PRODUCTS

I FIELD ENGINEER’S RESPONSIBILITIES

The Field Engineer’s general responsibilities, as part of the Follow-Up Services Procedure, are as noted in the published document titled, “UL Mark Surveillance Requirements”, and is available through UL’s secure customer portal MyHome@UL.com and/or through UL’s internet site www.UL.com. Manufacturers that do not have Internet access may obtain the current version of these requirements from their local UL Customer Service Representative or UL Field Engineer.

II PROCEDURE IN THE EVENT OF NONCONFORMANCE

When a product does not comply with the Follow-Up Service Procedure require that the manufacturer implement appropriate action as outlined in the “UL Variation Notice and Corrective Action Requirements” document.

III SPECIAL INSTRUCTIONS FOR STEEL TANKS

A. The Field Engineer shall pay particular attention to the critical items and/or perform special tasks related to inspection of steel tanks as described below:

1. Periodically witness (at least one shipment/year) manufacturer measurement and acceptance procedures of incoming steel plate and pipe stock as described in Appendix D – Steel Stock Verification.
2. Periodically witness (at least one test/year) manufacturer production tests on completely fabricated tanks as described in Appendix D - Tank Production Tests.
3. For cUL, ULC or cULus Marks Only - Periodically review (at least once/year) each manufacturer’s procedures and records for compliance with ULC-S601 Sec 4.3 and similar “welding” requirements in other ULC Standards covered under EFVT7.

The written welding procedure shall be 3rd party recognized (see examples below) to ensure that welders are trained and qualified, with records available for review to verify each welder’s compliance to it.

- a) American Welding Society (AWS) for AWS B2.1 Weld Procedure Specification and D Series Structural Codes,
- b) American Society of Mechanical Engineers (ASME) for ASME Sec 8 Pressure Vessels “U” or “H” Stamps,
- c) American Society of Mechanical Engineers (ASME) for ASME IX
- d) Canadian Welding Bureau (CWB) for CSA W47.1 Div 2 or 3,
- e) Alberta Boiler Safety Association (ABSA),
- f) Technical Safety Standards Association (TSSA),
- g) Mechanical Contractors Association of America,
- h) A PE who is Licensed for steel tank design, or
- i) Other equivalents as accepted by the Canadian Welding Bureau or Authority Having Jurisdiction

**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

B. The Field Engineer shall apply the following general guidelines for accessories and components that are shipped attached to or separately from the tank:

1. Tanks are permitted to have either UL Certified or unlisted accessories and/or components attached directly to, or shipped with the tank assembly as follows:

a) Accessories and components that are covered by a Standard (such as tank supports, lift lugs and heating coils) shall comply with all applicable construction and/or performance requirements, shall be Procedure covered, and shall subject to inspections.

b) Accessories and components that are not covered by a Standard (such as most e-vent devices, pressure/vacuum vent devices, overfill prevention devices, leakage monitor, sensors, etc.), shall not be subject to inspection.

c) If tanks are used as a component in construction of a more complex end product (such as generators) at the same manufacturing location, only the tank shall be subject to inspection.

2. Tanks shall be shipped from the manufacturer as a completely assembled unit with all procedure covered mechanical accessories and components attached, except as permitted below:

a) If the complete assembly is too large and/or too heavy for transportation, major accessories (such as access devices, supports, or dikes) may be shipped disassembled from the base tank.

b) If components (such as pressure/vacuum vents, emergency vents, overfill preventers, etc.) could be damaged during transport if assembled to the base tank, they may be shipped disassembled.

c) Where accessories or components are shipped disassembled, assembly instructions, hardware and any other information supplied by the OEM shall be provided.

**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

APPENDIX B – INSTRUCTIONS FOR FIELD ENGINEER’S SAMPLE SELECTION

RESERVED FOR FUTURE USE

**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

APPENDIX C – INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

RESERVED FOR FUTURE USE

**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

**APPENDIX D - MANUFACTURER'S RESPONSIBILITIES AND REQUIREMENTS FOR CONSTRUCTION
CONSIDERATIONS AND PRODUCTION TESTS**

The Follow-Up Services Procedure covering these tanks is loaned to the manufacturer and constitutes the basis on which these tanks are judged for continued Certification compliance. Some construction, marking/instruction and other requirements may reference Standards applicable for the specific tank type, as identified in the Section General or each Descriptive Section.

I MANUFACTURER'S GENRAL RESPONSIBILITIES

The Manufacturer's general responsibilities, as part of the Follow-Up Services Procedure, are as noted in the published document titled, "UL Mark Surveillance Requirements", and is available through UL's secure customer portal MyHome@UL.com and/or through UL's internet site www.UL.com. Manufacturers that do not have Internet access may obtain the current version of these requirements from their local UL Customer Service Representative or UL Field Engineer.

II MANUFACTURER'S SPECIAL RESPONSIBILITIES FOR STEEL TANKS

A. Steel Stock Verification – All base stock steel used for the fabrication of certified tanks shall be verified to comply with the material requirements of UL 142 Sec 5.1-5.3 (for UL Marks), ULC-S601 Sec 4.2.1-4.2.2 (for cUL or ULC Marks) and/or other specific steel tank standards referenced in each description for the tank type if applicable. Steel Mill Specifications, Bill of Materials or other proof of compliance shall be kept with records for review by the UL Field Engineer.

B. Steel Thickness Measurement – Acceptance of all steel stocks in a lot for compliance with the minimum thickness requirements for specific tank types and sizes in referenced Standards before welding or coating shall use measurement methods per UL 142 Sec 5.4 (for UL Marks), and/or ULC-S601 Sec 4.2.3-4.2.4, or similar methods in other ULC Standards covered under EFVT7 (for cUL or ULC Marks) with a calibrated micrometer, caliper, or other instrument accurate to at least 0.0005 in or 0.0125 mm.

C. The above steel stock verification and thickness determination method shall also be used for acceptance of flanges, pipes, angles, channels or other pre-fabricated complex shapes or forms, or a calibrated micrometer, caliper, or other instrument accurate to at least 0.0005 in or 0.0125 mm.

D. For cULus Dual Certifications, the most stringent requirement referenced in the applicable UL or ULC Standard shall be applied.

**SPECIAL PURPOSE TANKS (EFVT) and/or
SPECIAL PURPOSE TANKS CERTIFIED for CANADA (EFVT7)**

III MANUFACTURER'S RESPONSIBILITIES FOR TANK PRODUCTION TESTS

A. Tank Production Tests - Conduct all Tank Production Tests in accordance with the referenced test method and basis of acceptability as identified in Table A before painting and application of the UL Mark or other required markings. General information for the test methods are specified below:

TABLE A

Sec #	Tank Type	Freq	Production Test	Test Method Reference
1	Primary (Single Wall) Tank	100%	Tank Leakage	UL 142 Sec 45 and/or ULC-S601 Sec 9 (*)
2	Secondary (Double Wall or Integrally Contained) Tank	100%	Tank Leakage	UL 142 Sec 45 and/or ULC-S601 Sec 9 (*)
3	Diked (Contained Tank Assembly) Tank	100%	Dike Leakage	UL 142 Sec 46 and/or ULC-S653 Sec 7 (*)
(*) For the cULus Mark – the most stringent requirements shall be applied.				

1. Any pressure or vacuum supply source shall have manual or automatic control at the tank, and a safety relief device. The pressure or vacuum shall be determined on the tank by a calibrated gauge with accuracy of +/- 2.0 % or better.
2. Unless other alternatives are allowed by the specific Test Method Referenced, the Leakage Test shall be conducted with positive air pressure and a soap/water solution applied to all welded tank joints, welded tank accessories, seams and gaskets.
3. Where vacuum testing is allowed as an alternate interstitial space leak detection, but method details are unspecified, no loss of vacuum after 30 min @ 5.0 in Hg (16.9 kPa) or 15 min @ 25.0 in Hg (84.7 kPa) for every 10 cu ft of interstitial volume shall be applied.
4. All pressure tests shall be conducted with a calibrated pressure gauge with scale range from 0 to not more than 30 psi (200 kPa) and scale increments of not more than 1.0 psi (5 kPa).
5. All vacuum tests shall be conducted with a calibrated vacuum gauge with scale range from 0 to not less than 30 in Hg (100 kPa) and scale increments of not more than 1.0 in Hg (2.0 kPa).
6. Where pressure or vacuum testing of dike tanks is not possible, a Hydro Load Test where the dike is filled with water to maximum capacity while inspecting joints for leakage is an equivalent.

DESCRIPTION

PRODUCT COVERED:

Secondary Containment Generator Base Tanks

GENERAL:

These generator base steel tanks are designed for storage and secondary containment of combustible fuel at atmospheric pressure. These tanks are designed for the support of diesel generator, motors, and/or pumps.

The tanks are intended for stationary installation in accordance with the Standard for Flammable and Combustible Liquids Code of the National Fire Protection Association, NFPA No. 30; the Standard for Installation of Oil-Burning Equipment, NFPA 31; the Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A; the Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, NFPA 37; the Uniform Fire Code, NFPA 1; The Standard for Emergency and Standby Power Systems, NFPA 110; and the International Fire Code published by the International Code Council.

The tanks are fabricated, inspected, and tested for leakage before shipment from the factory as completely assembled vessels.

REQUIREMENTS:

The venting and weld construction of the tanks are in accordance with the current edition of the Standard of Underwriters Laboratories Inc. for Steel Aboveground Tanks for Flammable and Combustible Liquids, UL 142 and Standard For Special Purpose Aboveground Tanks For Specific Flammable Or Combustible Liquids, UL142A.

Details not specifically covered in the descriptive section of this Follow-Up Service Procedure shall conform with one or both of these Standards.

TEST TO BE CONDUCTED BY MANUFACTURER:

1. Each tank, before painting, shall be tested by the manufacturer and provided tight against leakage in accordance with the following test procedure.
 - A. After completion of the primary tank, it shall be subjected to an air pressure of 3 psig while the entire surface of the tank is checked for leaks using a soap solution, linseed oil or equivalent leak detection solution. Continuous formation of bubbles is evidence of leakage.
 - B. After completion of the secondary containment tank assembly, the primary tank shall be pressurized to 3 psig and held for a period of 1 hour to check for leakage. A continuous drop in pressure is considered evidence of leakage. While maintaining 3 psig pressure on the primary tank, the space bounded by the primary and secondary walls shall be pressurized to 3 psig. The entire outer surface shall be checked for leakage by applying soap suds, linseed oil or equivalent solution. Continuous formation of bubbles is evidence of leakage.
2. If leaks are noted during testing, the tank shall be made tight by welding and retested. Defects in welds shall be repaired by chipping or melting out from one or both sides of the joint, as required, and rewelding.

MARKING:

Method of marking shall be in accordance with the latest Edition of the Standard, UL142. A stamped metal nameplate or UL Component Recognized pressure sensitive marking and labeling system label (PGDQ2) suitable for use when exposed outdoors and to occasional exposure to fuel oil when affixed to the specific type of painted steel shall be applied to the outside surface of the tank after finishing. All tanks shall be marked as follows:

1. The Manufacturer's name, trade name, or trademark or other descriptive marking which identifies the organization responsible for the product.
2. The following statements:
 - A. "CAUTION - Only for (Combustible Fuels)." where the combustible fuel may be identified as either Class II or Class III, or a specific combustible fuel, such as kerosene, diesel, fuel oil, heating oil, etc., per the Scope of this Standard
 - B. "CAUTION - Mount Generator Only On Mounting Pads Provided - Maximum Weight 39,746 lb." (Maximum Weight per mounting pad 2839 lb.)
 - C. "This Tank Is Intended For Stationary Installation Only.", or equivalent.
 - D. "This Tank Requires Emergency Relief Venting. Capacity Not Less Than (+) CFH Based On Installation Within One Foot of the Tank Top"

(+) - See Table 8.1 of UL 142.
 - E. The Annular Space Requires Emergency Relief Venting. Capacity Not Less Than (+) Cubic Feet Per Hour."

(+) - See Table 8.1 of UL 142.
 - E. "Pressurize Primary Tank When Pressure Testing Annular Space".
 - G. "Maximum Lift Lug Load - 8,221 lbs. per lift lug", or equivalent.
 - H. "Maximum Leakage Test Pressure - 3 psig", or equivalent.
 - I. "CAUTION - Do Not Locate Electric Parts or Terminate Exhaust Near Fill or Vent Openings"
3. The emergency vent openings shall be identified.
4. The special purpose tank type "Generator Base Tank".
5. Identification of fill and vent openings, and if a secondary containment type, the monitor openings.

CONSTRUCTION DETAILS:

General - The secondary containment tanks shall be constructed in accordance with the current Edition of UL 142, and as described below. Basic constructions are described in ILLS. 1-4.

Provisions for Venting - Each primary tank shall have provision for normal and emergency venting. The interstitial space of the secondary containment tank shall have provision for emergency venting. The tank penetration opening for this vent shall be located on the tank top, or near the top provided the penetration opening is above the liquid level should the primary tank leak at rated nominal capacity into the interstitial space. Vent fittings shall be sized in accordance with UL 142. The vent openings shall be identified and shall be in addition to filling, withdrawal, monitoring, and other openings. The wetted surface includes 100 percent of the area of the four sides and the bottom of the rectangular tank. The surface area of the top may be omitted when calculating the wetted areas. All vent openings shall terminate vertically above the top of the tank.

Additional Openings - Openings in the primary and secondary tanks, in addition to the vents, shall be provided in the top of the tank above the normal maximum liquid level for connection of fill, withdrawal and monitoring piping. All openings shall employ fittings constructed in accordance with the UL142. Drain fittings may be provided. Fitting size and locations may vary from that shown on the drawings. Fitting constructions and attachment details are described in the Standard.

Joints and Seams - Joints and seams shall be in accordance with the Illustrations.

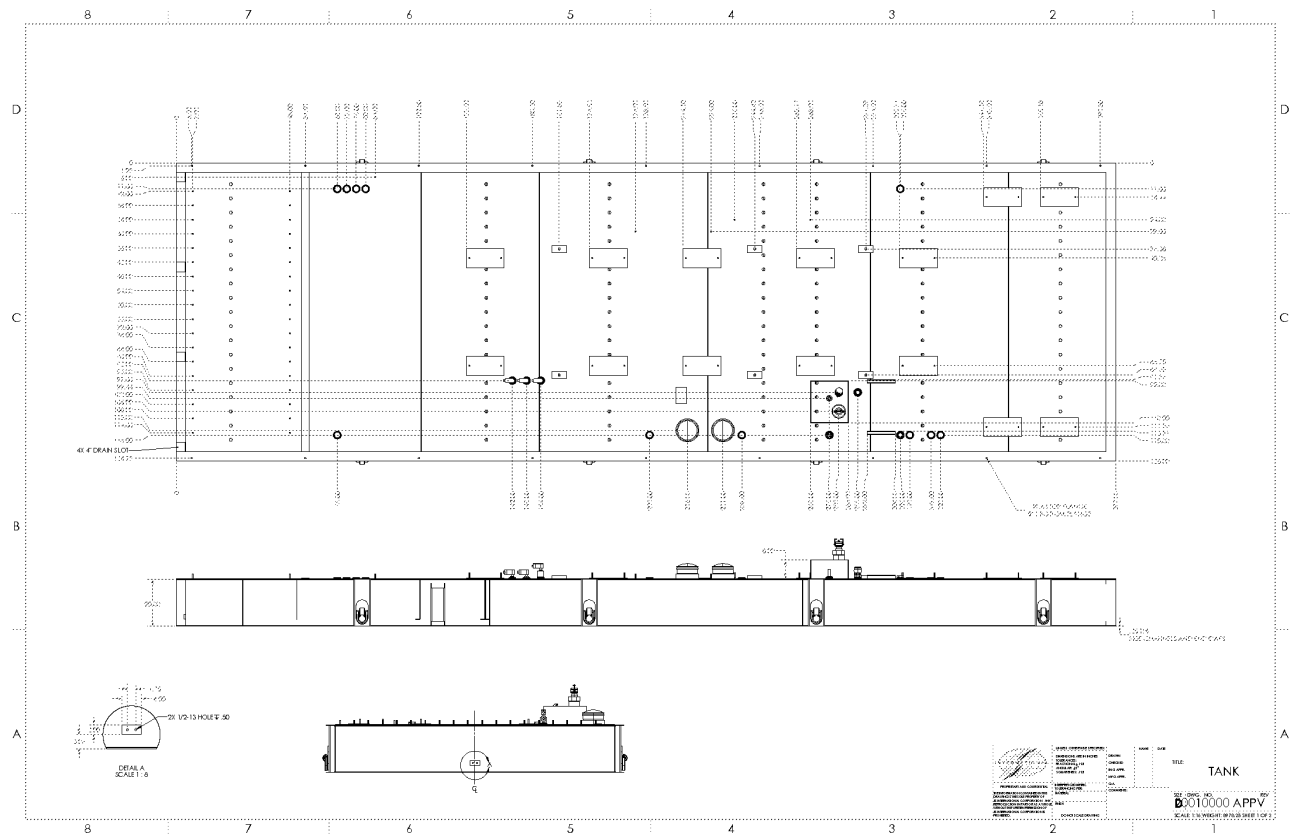
Material and Thickness - The minimum thickness shall be as specified in the ILLS. and in the table on the following page. Steel shall comply with the specifications given in UL 142.

Lifting Fittings - Shall be constructed and located as shown in ILL. 3. A minimum of 8 lifting fittings shall be used, 4 per side.

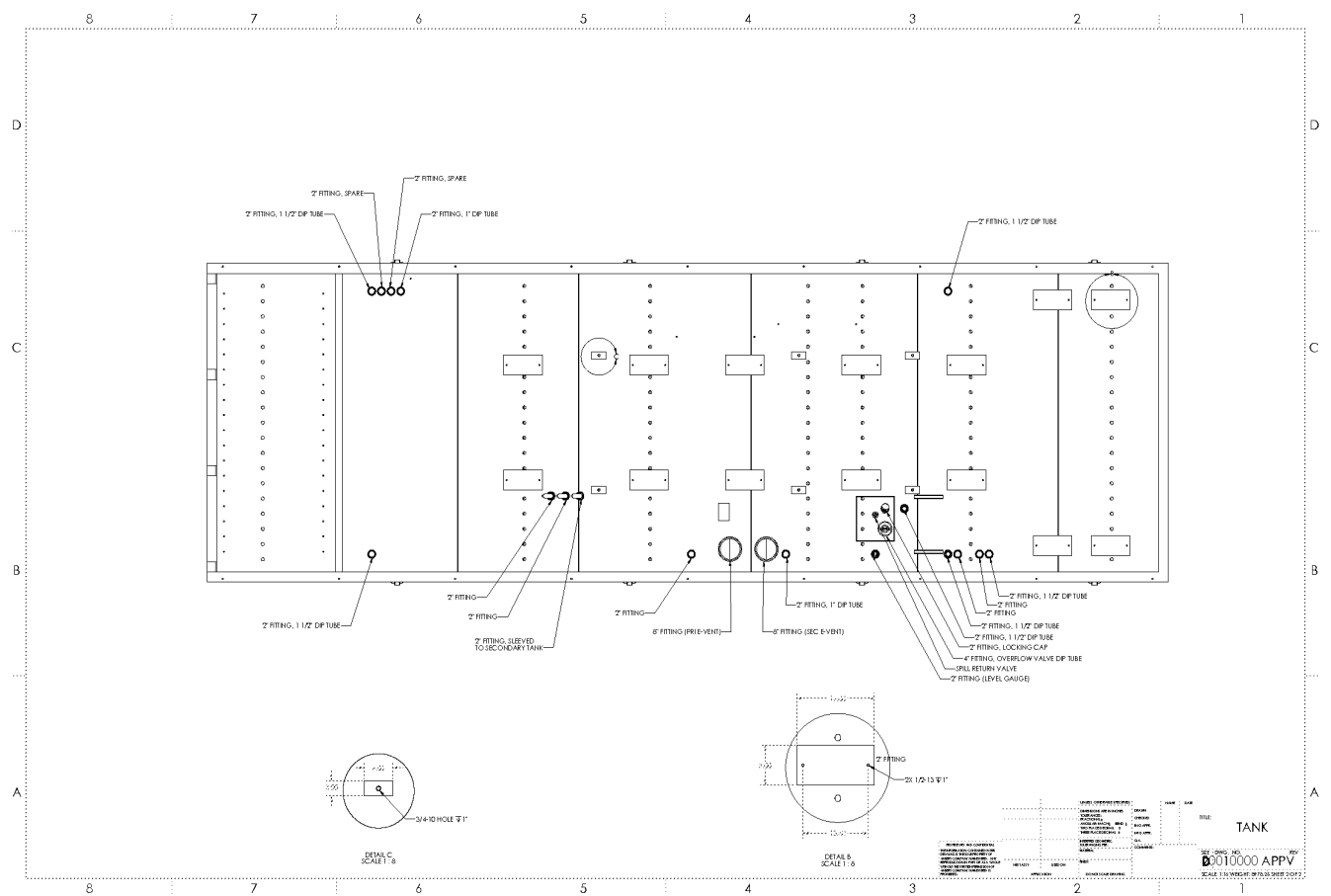
Dimensions - Tanks constructed as shown in ILLs. 1-4 shall have the dimensional limits shown below.

Minimum Thickness (Top, Bottom, Primary Sides, Baffles) [in]	Minimum Thickness (Secondary Tank Channels, End Caps, Stiffening Channels) [in]	Maximum Height [in]	Maximum Width [in]	Maximum Length [in]
3/16	1/4	20	126	Unlimited

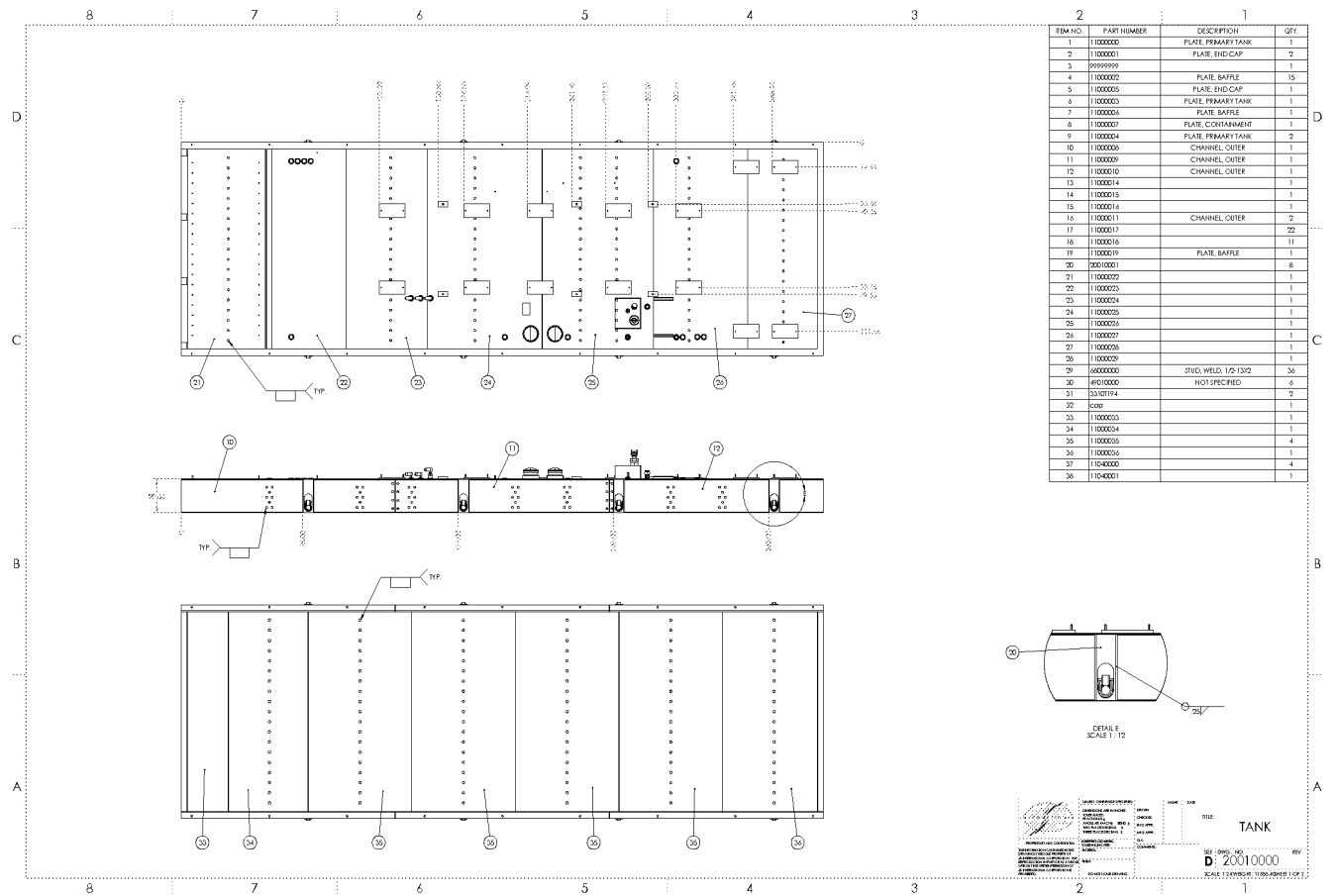
Tanks may be constructed at any length provided the minimum material thickness, maximum baffle, stiffener, and gusset spans, and all other construction features are as specified in the ILLS. Fitting size, location and quantity may vary from that shown in the ILLS.

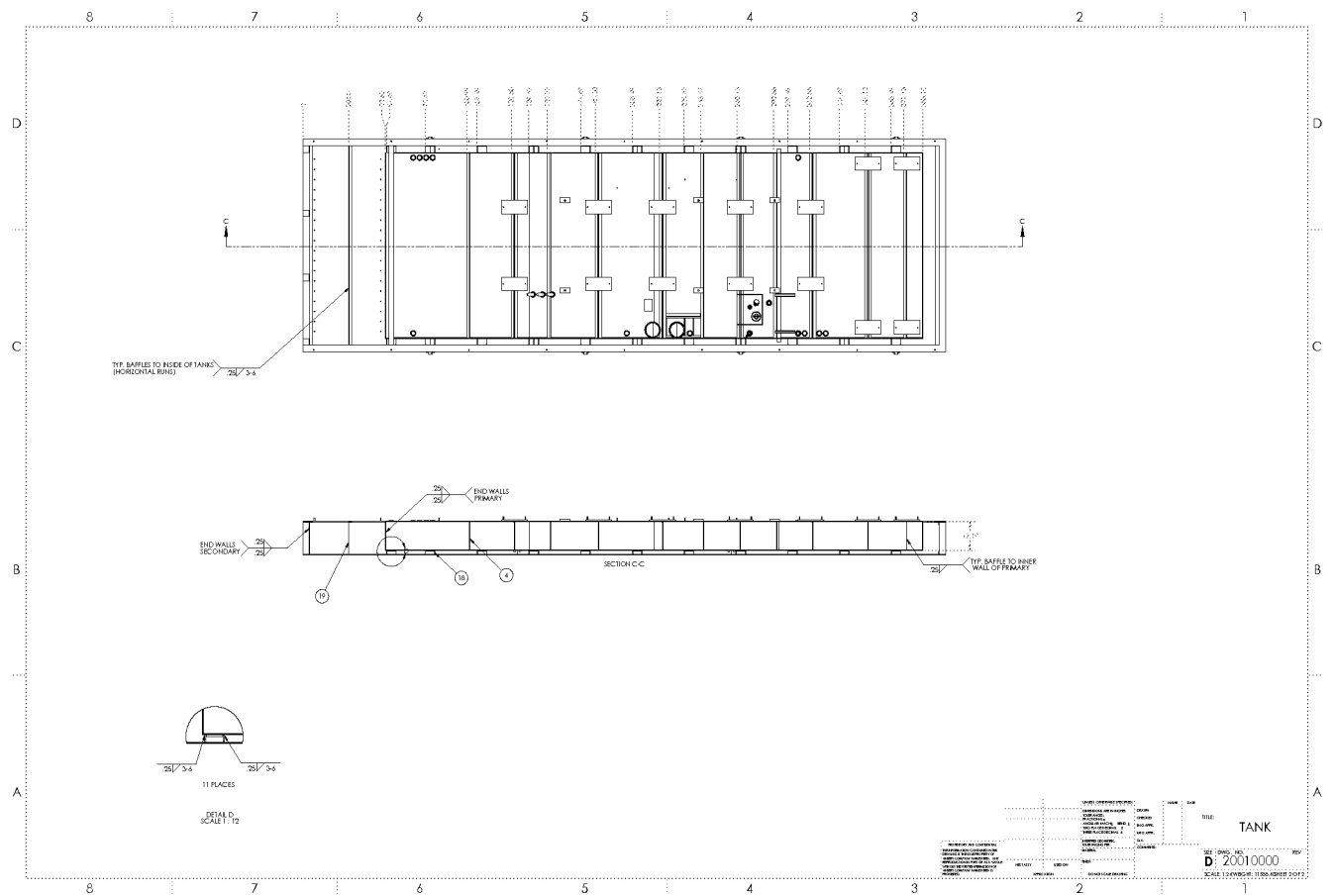


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CERTIFICATE OF COMPLIANCE

Certificate Number MH64198
Report Reference MH64198-20200220
Issue Date 2020-FEBRUARY-21

Issued to: 3S International Corp
1073 Neely Ferry Rd
Laurens SC 29360

This certificate confirms that
representative samples of SPECIAL-PURPOSE TANKS
Secondary Containment Generator Base Tanks

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

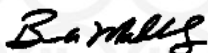
Standard(s) for Safety: UL142 - STEEL ABOVEGROUND TANKS FOR
FLAMMABLE AND COMBUSTIBLE LIQUIDS
UL142A - STANDARD FOR SPECIAL PURPOSE
ABOVEGROUND TANKS FOR SPECIFIC FLAMMABLE
OR COMBUSTIBLE LIQUIDS

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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File MH64198
Project 4789369678

February 20, 2020

REPORT

ON

SPECIAL-PURPOSE TANKS

3S INTERNATIONAL CORP

Laurens SC

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DESCRIPTION

PRODUCT COVERED:

Secondary Containment Generator Base Tanks

GENERAL:

These generator base steel tanks are designed for storage and secondary containment of combustible fuel at atmospheric pressure. These tanks are designed for the support of diesel generator, motors, and/or pumps.

The tanks are intended for stationary installation in accordance with the Standard for Flammable and Combustible Liquids Code of the National Fire Protection Association, NFPA No. 30; the Standard for Installation of Oil-Burning Equipment, NFPA 31; the Motor Fuel Dispensing Facilities and Repair Garages, NFPA 30A; the Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, NFPA 37; the Uniform Fire Code, NFPA 1; The Standard for Emergency and Standby Power Systems, NFPA 110; and the International Fire Code published by the International Code Council.

The tanks are fabricated, inspected, and tested for leakage before shipment from the factory as completely assembled vessels.

REQUIREMENTS:

The venting and weld construction of the tanks are in accordance with the current edition of the Standard of Underwriters Laboratories Inc. for Steel Aboveground Tanks for Flammable and Combustible Liquids, UL 142 and Standard For Special Purpose Aboveground Tanks For Specific Flammable Or Combustible Liquids, UL142A.

Details not specifically covered in the descriptive section of this Follow-Up Service Procedure shall conform with one or both of these Standards.

TEST TO BE CONDUCTED BY MANUFACTURER:

1. Each tank, before painting, shall be tested by the manufacturer and provided tight against leakage in accordance with the following test procedure.
 - A. After completion of the primary tank, it shall be subjected to an air pressure of 3 psig while the entire surface of the tank is checked for leaks using a soap solution, linseed oil or equivalent leak detection solution. Continuous formation of bubbles is evidence of leakage.
 - B. After completion of the secondary containment tank assembly, the primary tank shall be pressurized to 3 psig and held for a period of 1 hour to check for leakage. A continuous drop in pressure is considered evidence of leakage. While maintaining 3 psig pressure on the primary tank, the space bounded by the primary and secondary walls shall be pressurized to 3 psig. The entire outer surface shall be checked for leakage by applying soap suds, linseed oil or equivalent solution. Continuous formation of bubbles is evidence of leakage.
2. If leaks are noted during testing, the tank shall be made tight by welding and retested. Defects in welds shall be repaired by chipping or melting out from one or both sides of the joint, as required, and rewelding.

MARKING:

Method of marking shall be in accordance with the latest Edition of the Standard, UL142. A stamped metal nameplate or UL Component Recognized pressure sensitive marking and labeling system label (PGDQ2) suitable for use when exposed outdoors and to occasional exposure to fuel oil when affixed to the specific type of painted steel shall be applied to the outside surface of the tank after finishing. All tanks shall be marked as follows:

1. The Manufacturer's name, trade name, or trademark or other descriptive marking which identifies the organization responsible for the product.
2. The following statements:
 - A. "CAUTION - Only for (Combustible Fuels)." where the combustible fuel may be identified as either Class II or Class III, or a specific combustible fuel, such as kerosene, diesel, fuel oil, heating oil, etc., per the Scope of this Standard
 - B. "CAUTION - Mount Generator Only On Mounting Pads Provided - Maximum Weight 39,746 lb." (Maximum Weight per mounting pad 2839 lb.)
 - C. "This Tank Is Intended For Stationary Installation Only.", or equivalent.
 - D. "This Tank Requires Emergency Relief Venting. Capacity Not Less Than (+) CFH Based On Installation Within One Foot of the Tank Top"

(+) - See Table 8.1 of UL 142.
 - E. The Annular Space Requires Emergency Relief Venting. Capacity Not Less Than (+) Cubic Feet Per Hour."

(+) - See Table 8.1 of UL 142.
 - E. "Pressurize Primary Tank When Pressure Testing Annular Space".
 - G. "Maximum Lift Lug Load - 8,221 lbs. per lift lug", or equivalent.
 - H. "Maximum Leakage Test Pressure - 3 psig", or equivalent.
 - I. "CAUTION - Do Not Locate Electric Parts or Terminate Exhaust Near Fill or Vent Openings"
3. The emergency vent openings shall be identified.
4. The special purpose tank type "Generator Base Tank".
5. Identification of fill and vent openings, and if a secondary containment type, the monitor openings.

CONSTRUCTION DETAILS:

General - The secondary containment tanks shall be constructed in accordance with the current Edition of UL 142, and as described below. Basic constructions are described in ILLS. 1-4.

Provisions for Venting - Each primary tank shall have provision for normal and emergency venting. The interstitial space of the secondary containment tank shall have provision for emergency venting. The tank penetration opening for this vent shall be located on the tank top, or near the top provided the penetration opening is above the liquid level should the primary tank leak at rated nominal capacity into the interstitial space. Vent fittings shall be sized in accordance with UL 142. The vent openings shall be identified and shall be in addition to filling, withdrawal, monitoring, and other openings. The wetted surface includes 100 percent of the area of the four sides and the bottom of the rectangular tank. The surface area of the top may be omitted when calculating the wetted areas. All vent openings shall terminate vertically above the top of the tank.

Additional Openings - Openings in the primary and secondary tanks, in addition to the vents, shall be provided in the top of the tank above the normal maximum liquid level for connection of fill, withdrawal and monitoring piping. All openings shall employ fittings constructed in accordance with the UL142. Drain fittings may be provided. Fitting size and locations may vary from that shown on the drawings. Fitting constructions and attachment details are described in the Standard.

Joints and Seams - Joints and seams shall be in accordance with the Illustrations.

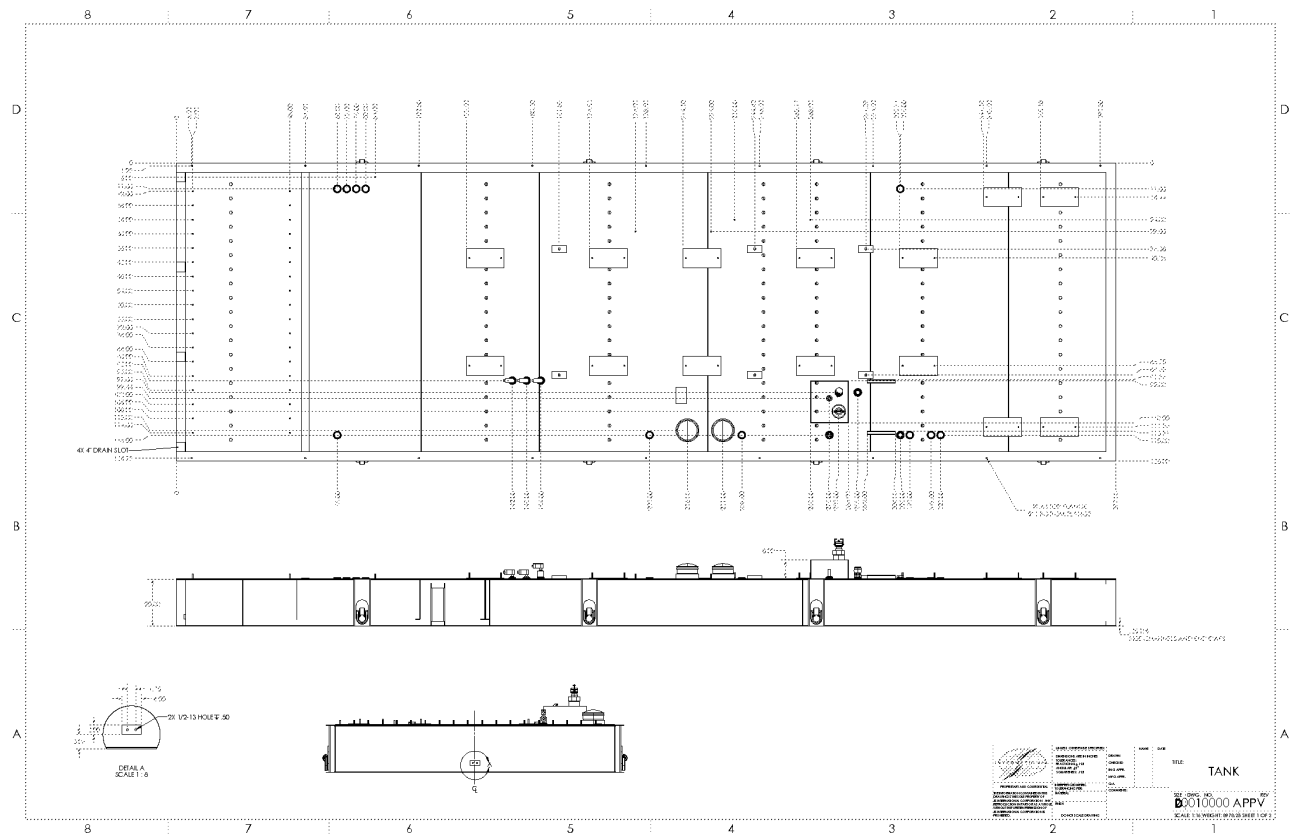
Material and Thickness - The minimum thickness shall be as specified in the ILLS. and in the table on the following page. Steel shall comply with the specifications given in UL 142.

Lifting Fittings - Shall be constructed and located as shown in ILL. 3. A minimum of 8 lifting fittings shall be used, 4 per side.

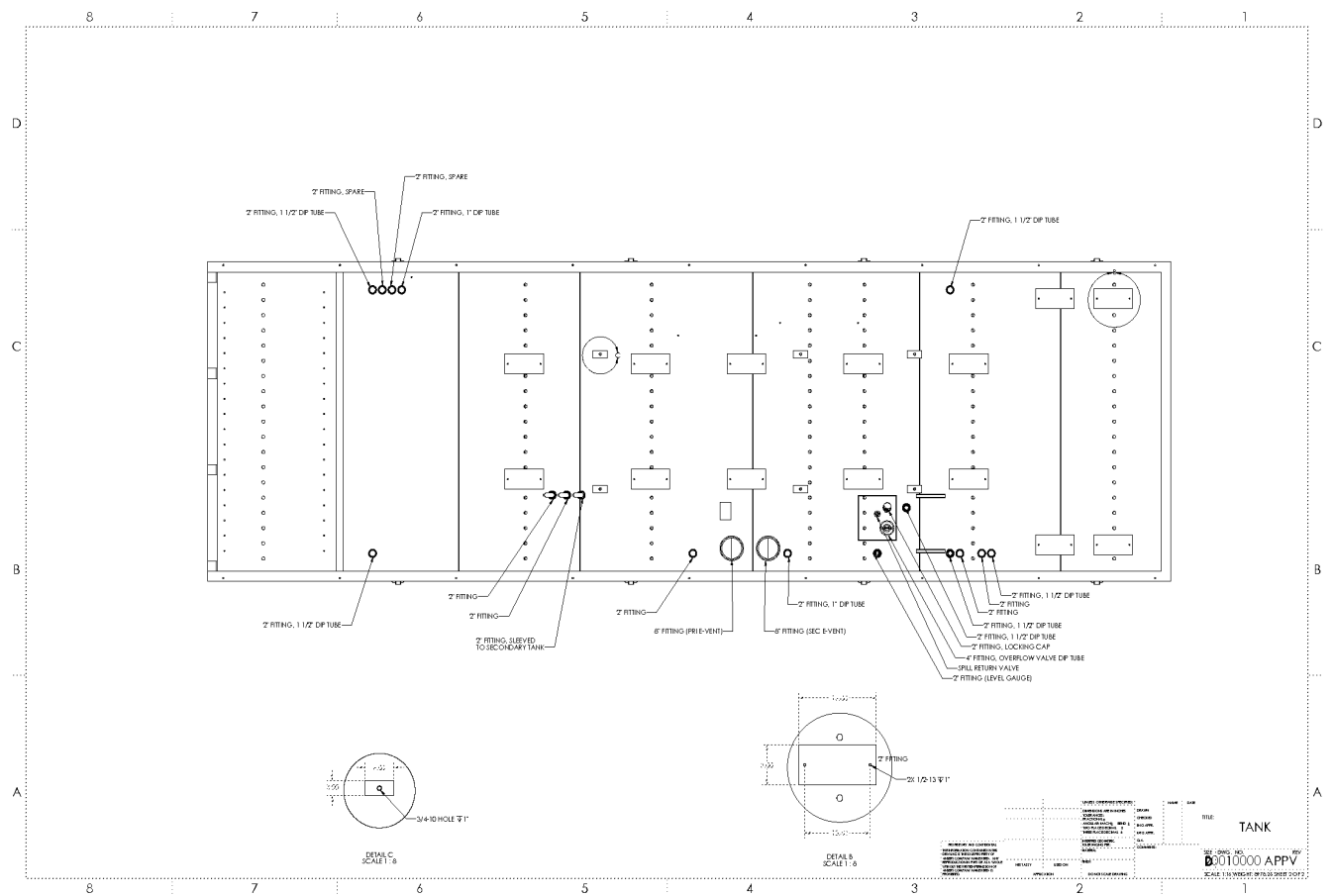
Dimensions - Tanks constructed as shown in ILLs. 1-4 shall have the dimensional limits shown below.

Minimum Thickness (Top, Bottom, Primary Sides, Baffles) [in]	Minimum Thickness (Secondary Tank Channels, End Caps, Stiffening Channels) [in]	Maximum Height [in]	Maximum Width [in]	Maximum Length [in]
3/16	1/4	20	126	Unlimited

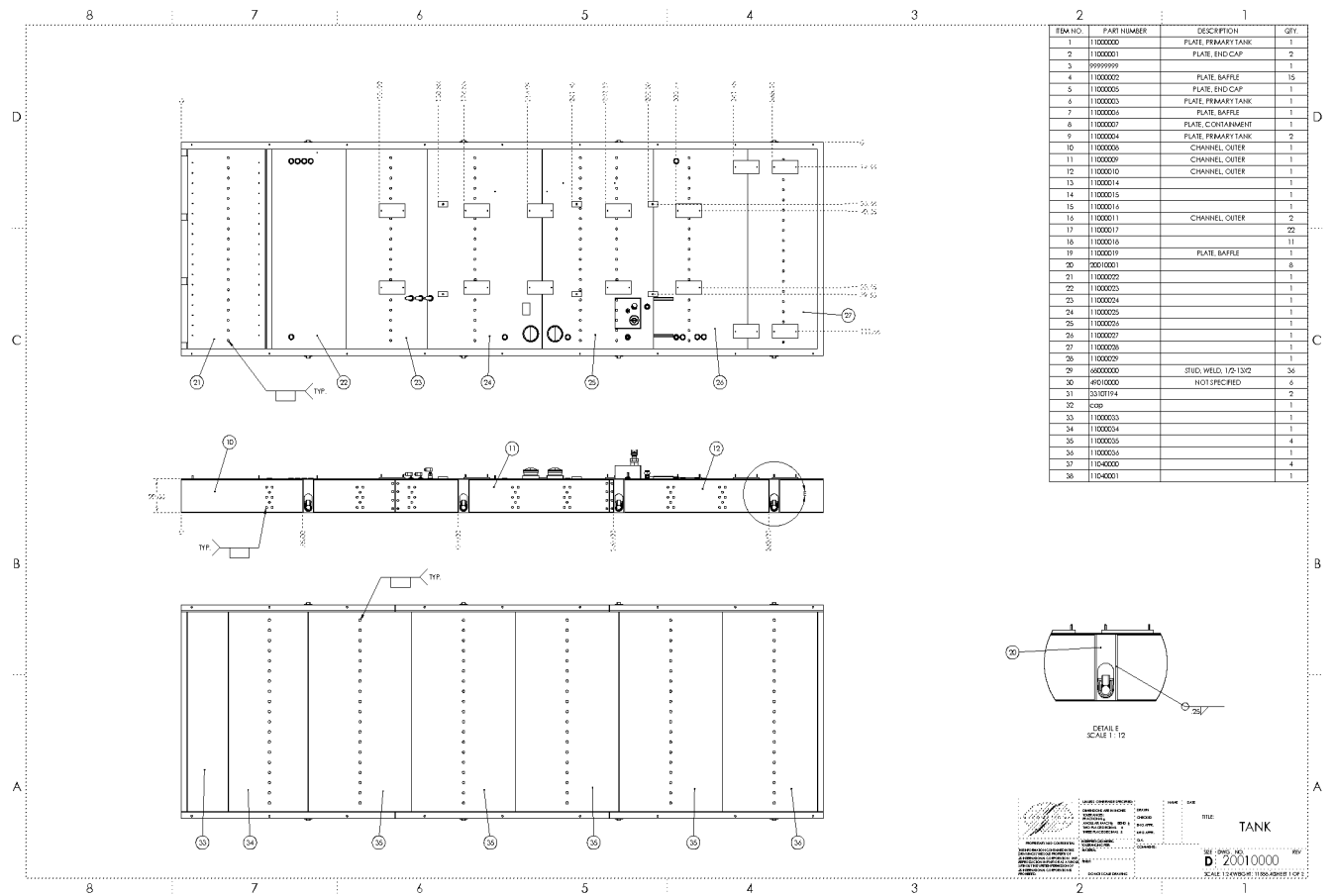
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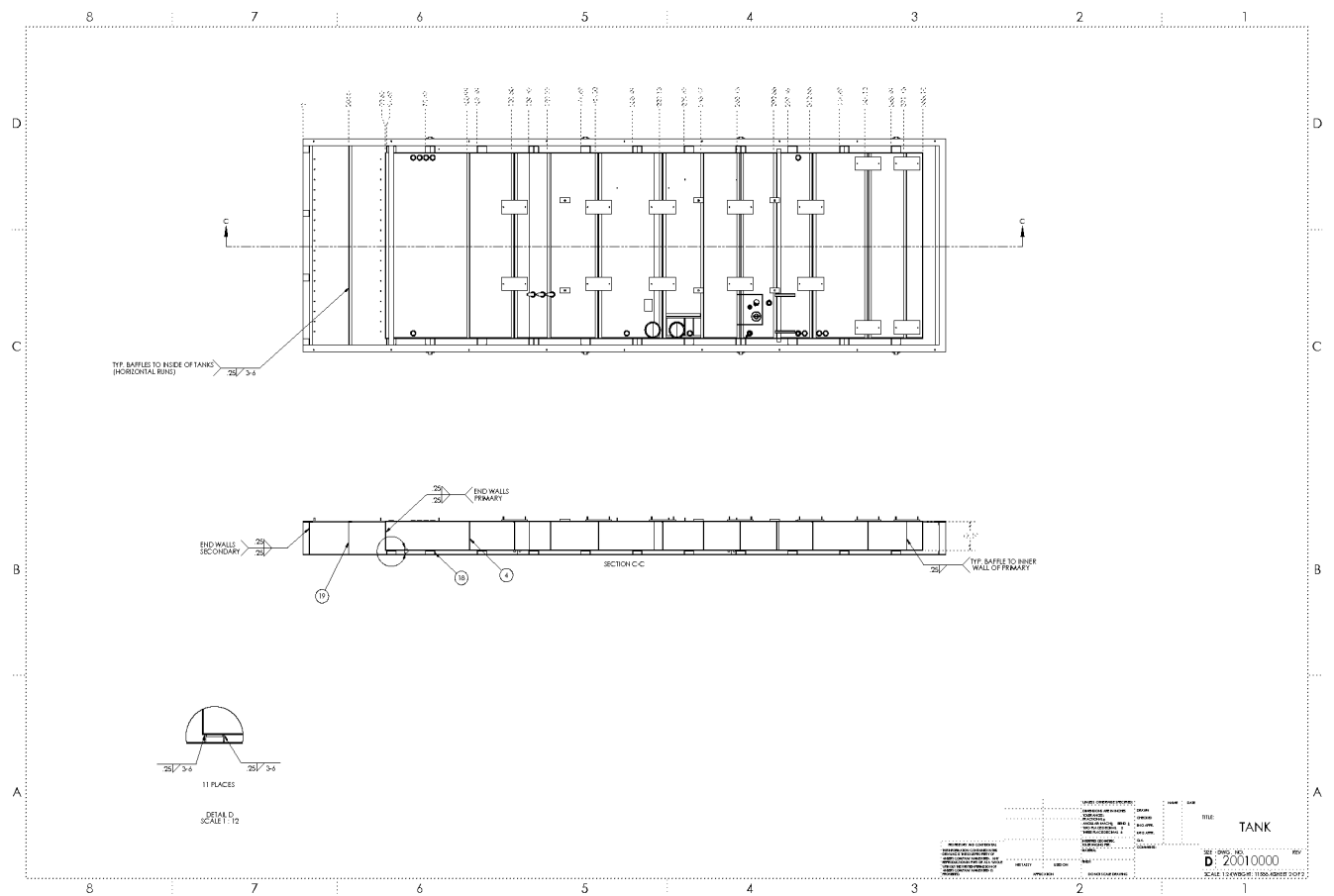


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TEST RECORD NO. 1

SAMPLES:

A sample of the Secondary-containment Generator Base Tank as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

2,500 gallon x 126" W x 397" L x 20" H Secondary-containment Generator Base Tank

GENERAL:

Test results relate only to the items tested.

The following tests were conducted.

Test Name:	Referenced Standard
Hydrostatic Strength Test:	UL 142 Section 43
Top Load Test:	UL 142 Section 44
Lift Lug Test:	UL 142 Section 48
Generator Load Test:	UL 142A Section 6.2.5.1.a
Tank Leakage Test:	UL 142 Section 42

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in UL142 STEEL ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS Edition 10 Issue Date 05/17/2019 and UL142A STANDARD FOR SPECIAL PURPOSE ABOVEGROUND TANKS FOR SPECIFIC FLAMMABLE OR COMBUSTIBLE LIQUIDS Edition 1 Revision Date 05/17/2019.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Brian Orr
Associate Project Engineer

Reviewed by:

Wayne Doversberger
Senior Staff Engineer

CONCLUSION

A sample of the product covered by this Report has been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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Report by:

Reviewed by:

Brian Orr
Associate Project Engineer

Wayne Doversberger
Senior Staff Engineer

	WORK INSTRUCTION	WI-005
	Fuel Tank Leak Test – UL 142	Rev Date: 2015.0419
		Owner: Global Quality Manager
		Approver: President
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I. Purpose

The purpose of this Work Instruction is to provide instructions for conducting the tank leakage test of Steel Fuel Tank in accordance with the UL 142 and UL 142-A Standard for Safety for Steel Aboveground Tanks for Flammable and Combustible Liquids.

II. Scope

This Work Instruction is applicable to the tank leakage test . The leak test shall be performed before the paint process.

III. Environmental, Health and Safety

- Safety glasses

IV. Consumables/Shop Supplies

- Water
- Dawn Liquid Soap or Equivalent
- Water Spray Bottle
- White Steel Marker
- Hand=Held Light for Inspection
- Calibrated Test Gauge

V. References

- UL 142 Standard For Safety Section 39, page 52A, section 39.2
- SOP-02 Control of Records.

VI. Procedure

1.0 Set Up

- 1.1 Mix the Dawn Liquid Soap with water at about a 10% ratio of soap to 90% ratio water in a spray bottle.
- 1.2 Obtain tank to be tested and record in process Tank Number
- 1.3 Verify all fittings have a plug and are sealed air tight.
- 1.4 Verify the (2) two valves are in the closed position.

Steel Fuel Tank Leak Test	WI-005
	Rev Date: 2015.0419
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2.0 Process

- 2.1 Attach air supply to the tank Engine Supply "B" Hole.
- 2.2 Attach air pressure gage to Engine Return "C" Hole.
- 2.3 Apply air pressure to the tank at 3 psi.
- 2.4 Spray the soap and water mixture to all weld joints including the fittings. Reapply the soap and water mixture to the weld joints as necessary.
- 2.5 Visually inspect for bubbles, which will indicate a leak and a nonconforming weld joint.
- 2.6 Identify each nonconforming weld joint with a white steel marker.
- 2.7 Identify each tank which contains a nonconforming weld with FRM 017, Nonconforming Product, placard.
- 2.8 Identify all tanks passing the leak test with the letters "OK" along with the initials and date of the operator performing the test and the date the test was performed.

3.0 Acceptance Criteria

- 3.1 There shall be no evidence of leakage or sign of permanent deformation following the leakage test.
- 3.2 The tank wall, head, or roof may deflect but shall return to its original position and shape when the test pressure is released.
- 3.3 Tank shall hold pressure for 24 hours with zero drop in contained pressure as visible by Test Gauge
- 3.4 Start time and date of air test will be scribed on side wall of tank as well as finish time of test. If leak is detected the time must be restarted after contained
- 3.5 All test data to be written and recorded on 3S Inspections sheets and signed by person doing the inspection

4.0 Records

- 4.1 Test records shall be maintained in accordance with SOP-02, Control of Records.

VII. Revision History

Revision Date	Para Changed	Change Made	By
2015.0410	N/A	Initial release	MWK

Steel Fuel Tank Leak Test	WI-005
	Rev Date: 2015.0419
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