UNDERGROUND STORAGE TANK REMOVAL AND
ABOVEGROUND STORAGE TANK INSTALLATION
IFB NO. 310315-FY16-23
Addendum #2
May 20, 2016

1. **Pre-bid Meeting General Information:**

The pre-bid meeting started at 10:30 a.m. at the Town of Leesburg shop, located at 1393 E Market Street in Leesburg, Virginia. Scott Hershberger of Amec Foster Wheeler gave a brief overview of the project and discussed the following information:

Bid Due: Thursday, May 26, 2016 at 3:30 p.m. They must be received by the First Floor Lobby Receptionist at 25 West Market Street, Leesburg, Virginia 20176 at or before 3:30 p.m.

Questions Due: Friday, May 20, 2016 at 5:00 p.m. Questions shall be addressed to CapitalBidQuestions@leesburgva.gov.

Contract Time: 45 calendar days from the Notice to Proceed.
Substantial Completion to Final Completion: 15 calendar days from the issuance of the punch list.
Liquidated Damages: $500/day

Any test pits required are to be considered incidental to all other contract work and there is no additional payment.

As-builts are required at the end of the project.

Staff in attendance at the Pre-Bid meeting:
Charlie Mumaw, Public Works Manager
Lott Bolden, Buildings Superintendent
Harold Young, Fleets Superintendent
Scott Hershberger, Amec Foster Wheeler, Project Manager
Daniel Dunlap, Amec Foster Wheeler, Geologist

Attendees were shown the site and area of work to be performed under this contract and then the meeting was opened for Questions.

The pre-bid meeting sign-in sheet is shown as 'Attachment A' to this Addendum.

2. **Questions and Answers from Pre-Bid meeting:**

Question 1: Regarding the distance of the AST to be placed from the building per the building code and/or Fire Marshall regulations - is 5 feet really necessary?

Answer 1: Loudoun County Plan Review has confirmed that we need 5' clearance from the building.

Question 2: Does the Town want a high level alarm on the oil/water separator (OWS) with an annunciator?

Answer 2: The Town would prefer to have a high level alarm tied to the existing Veeder Root alarm system if possible. If this is not possible, a stand-alone alarm is acceptable.

Question 3: Where is the power source?

Answer 2: The power source is located inside the building near the Shop Superintendent's office. See the attached plan showing the panel location ('Attachment B'). The approximate distance is 150'.

Question 4: How will the disruption of service to the underground storage tank (UST) be handled?

Answer 4: The Town will supply 55 gallon drums to be used during construction.

Question 5: Will a bid bond be required if the total project costs are less than $100,000?

Answer 5: Yes.

Question 6: Will a payment bond be required if the total project costs are less than $100,000?

Answer 6: Yes.

Question 7: Will the Town allow individual pieces of the project be bid separately?

Answer 7: No.

Question 8: Will the Town select the lowest cost for each piece of the bid?

Answer 8: No, the lowest total bid will be awarded as a complete project.

Question 9: Testing of the soil – Who will be responsible to tell the contractor if there is contaminated soil on the site?

Answer 9: Per Page 24 of the bid document, bulleted item #8, "soil and groundwater samples will be collected for laboratory analysis per federal/state/local

regulations. The samples will be collected by a third party contractor hired directly by the Town. Environmental samples will be submitted to an approved lab for a 48 hour turnaround." Add – "and the Town will advise the contractor of remedial actions to take."

Question 10: Is a diaphragm pump required for both the oil and the antifreeze chambers?

Answer 10: No – only for the used oil chamber.

Question 11: Will a high level alarm be required for both the oil and antifreeze chambers?

Answer 11: Yes – both with annunciators.

Question 12: Will a high level alarm be required for the oil water separator?

Answer 12: Yes.

Question 13: Will the contractor need to pull all permits?

Answer 13: The Town will get the permits and the contractor will have the permits put in their name.

Question 14: What is the distance required for the new aboveground storage tank to the existing building?

Answer 14: See response to question #1.

Question 15: What is the timing of the new tank delivery?

Answer 15: 6-8 weeks depending on manufacturer's availability.

Question 16: Do the trench drains within the maintenance bay connect to the oil water separator (OWS)?

Answer 16: Yes

Question 17: Does the oil water separator (OWS) discharge to the sanitary sewer?

Answer 17: Yes

3. **<u>Questions received via email:</u>**

Question 1: **I would like to submit the following information for your consideration as acceptable alternates to the spec'd Aboveground Storage Tank (AST) and Oil Water Separator (OWS). Please see the attached brochures as well as written description below.**

Our UL-142 storage tanks come in both single wall and double wall design. The referenced / spec'd Safe-T- Tank is just a single wall rectangular, UL-142 which we manufacture as well. We can provide the exact item and even offer a double wall option.

The oil water separator is a UL-2215 system, which we also fabricate exactly, but for the shell material. Our oil water separator would be a carbon steel double wall tank, with 100 mils of Fiberglass on the exterior per our ACT-100 underground tank standard, and the interior would be coated with two coats of epoxy following the Steel Tank Institute Aquasweep Standard for Oil Water Separators. See page 4 of our OWS brochure.

(Submittals shown as 'Attachment C')

Answer 1: The Town will require any aboveground storage tank (AST) to meet UL-142, double wall construction, stainless steel, vented per code, have all necessary ports for monitoring, filling and evacuation, and 5 gallon recessed spill box for manual fill with debris screen for both waste oil and antifreeze. And have a maximum 36" lift over height. 500 gallon used oil capacity, and 100 gallon used antifreeze capacity.

The Town will accept any oil water separator (OWS) that meets the minimum requirements of the equipment referenced in the advertisement. The Town will not accept any proposed OWS that requires the installation of anodes.

END OF ADDENDUM #2

Attachment A

Project: Pre-Bid Meeting- Underground Storage Tank Removal and Aboveground Storage Tank

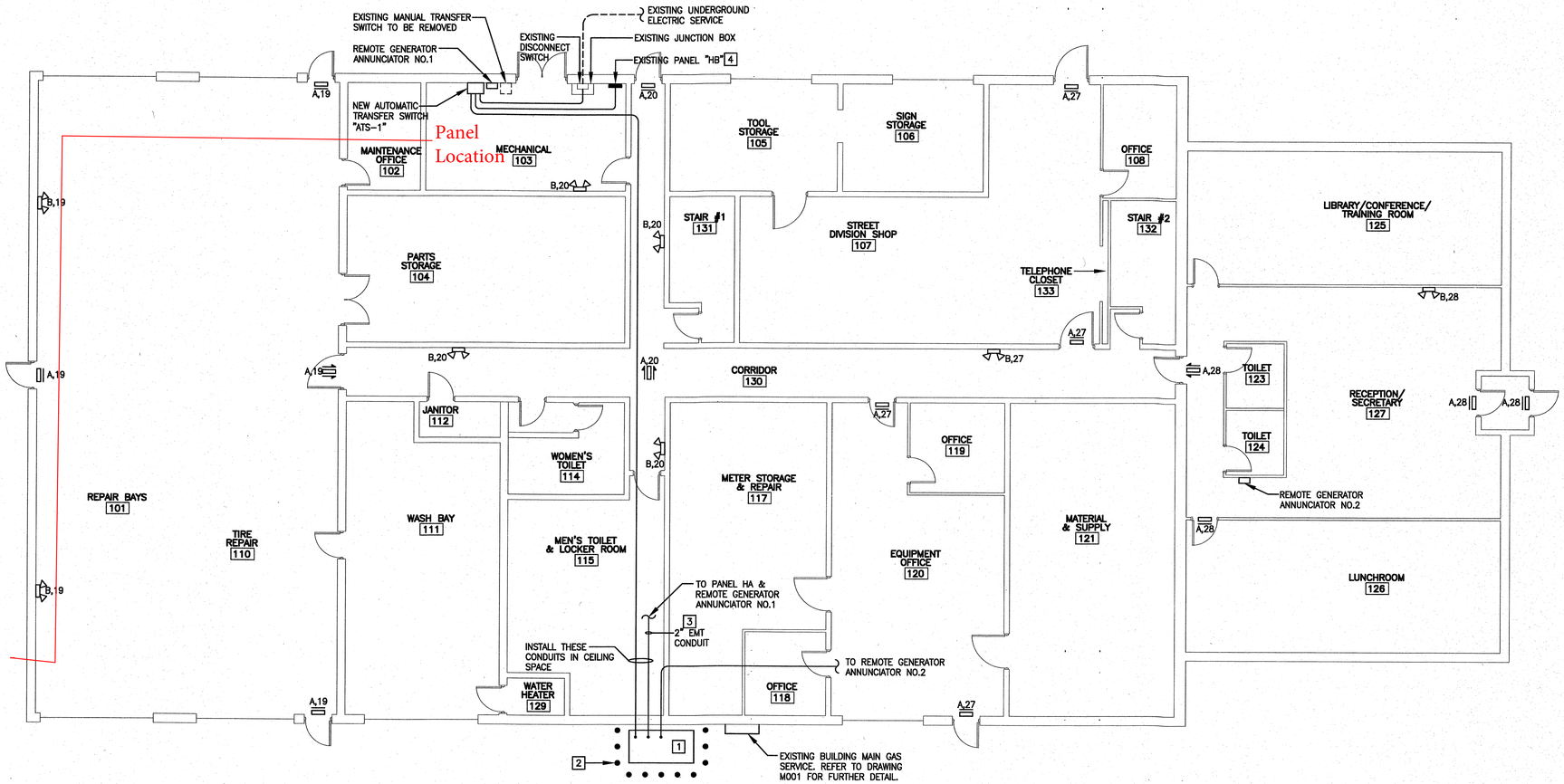
Office of
CAPITAL PROJECTS

We build it right!

Date & Time: Wednesday, May 18, 2016, 10:30 a.m.

	Name	Organization	Phone	e-Mail
1	Bobby Watkins	AFS	804-798-2900	bwatkins@advancedfuelingsystems.com
2	Jim Black	AFS	" " "	Jim@ " " " " "
3	Willy Overstreet	Total Environmental	443-548-5781	woverstreet@tei.pro
4	Walt Ugolick	Apex Companies	301-417-0200	Wugolick@apexcos.com
5	Stacey Sivan	Apex Companies	703-396-6730	Sjivan@apexcos.com
6	LEONARD L. CAMPBELL	LLCGC	540-246-3770	LLCGC1@YAHOO.COM
7	ALEX CAMPBELL	ONE SOURCE PETR	540-246-2170	ACAMPBELL@ONESOURCEPETROLEUM.COM
8	CHRIS CUMMINS	GENERAL INDUSTRIES	240-357-7168	CHRIS@GITANK.com
9	Jeremy Carlon	BC&C	540-662-7796	Jeremy@BCandC.net
10				
11				
12				
13				
14				
15				

Attachment B



① ELECTRICAL FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

A. REFER TO SINGLE LINE DIAGRAM ON DRAWING E001 FOR CONDUIT AND WIRE REQUIREMENTS.

B. REFER TO LUMINAIRE SCHEDULE ON DRAWING E001 FOR NEW LIGHT FIXTURE DESCRIPTION.

[X] CONSTRUCTION NOTES:

1. OUTDOOR NATURAL GAS STANDBY GENERATOR (150kW) WITH NEW CONCRETE PAD. COORDINATE EXACT LOCATION WITH OWNER.
2. CONCRETE FILLED BOLLARD (TYP.)
3. PROVIDE THREE (3) 1" CONDUITS FOR THE FOLLOWING: 1. START CIRCUIT. 2. HEATER, CHARGER,RECEPTACLE AND LIGHT. 3. REMOTE ANNUNCIATOR WIRING.
4. IN EXISTING PANEL PROVIDE FOUR(4) 1 POLE, 20 AMP CIRCUIT BREAKERS IN SPACES 31, 33, 32 & 34. PROVIDE ALL REQUIRED WIRING FOR FIXTURE TYPES "A" & "B".

TOWN OF
LEESBURG, VIRGINIA

25 WEST MARKET STREET,
P.O. BOX 88,
LEESBURG, VA 20178

CENTRAL WAREHOUSE & MAINTENANCE FACILITY

MAIN BUILDING
EMERGENCY GENERATOR
UPGRADE

RK&K

wendel
140 John James Audubon Pkwy, Suite 201
Buffalo, NY 14228
www.wendelccompanies.com
p:716.688.0766 f:716.625.6825
ARCHITECTURE • ENGINEERING • PLANNING
ENERGY SERVICES • CONSTRUCTION MANAGEMENT

COMMONWEALTH OF VIRGINIA
PETER T. VOMMEHDT, SR.
Lic. No. 042131
PROFESSIONAL ENGINEER

NOTES
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NO.	BY	REVISIONS	DATE
1	MAD/CAA	ISSUED FOR BID	3/3/2011
0	MAD/CAA	ISSUED FOR PERMIT	2/25/2011

DWG. TITLE

ELECTRICAL
FIRST FLOOR
NEW WORK

DATE	02/07/11
SCALE	AS NOTED
DWN.	ALS CHK. MAD
PROJ. No.	437103
DWG. No.	E100

03-01-2011 MAD P:\437103 LEESBURG DPW\16. CAD\DWG\ELEC\COMPOSITE\E100.DWG

Attachment C

The ACT-100® Steel/FRP composite tank features a strong inner steel tank for structural integrity, and a 100-mil fiberglass outer coating for long-lasting corrosion protection. Manufactured in single or double-wall design.

Steel Tank Institute
ACT-100®

Attachment A

- Structural strength and time-tested fuel compatibility of steel
- Corrosion-resistant fiberglass coating
  A high voltage holiday test of the coating assures that the steel is isolated from corrosive soils
- Single or double-wall construction available
- Double-wall design includes interstitial leak detection monitoring pipe
- UL 58 or UL 1746 labeled
- Built to nationally-recognized STI standards with strict third-party quality control inspection program

- Customized compartments can be provided for cost-effective multi-product storage
- STI Licensed manufacturer
- Capacities range up to 50,000 gallons
- Quality Assurance Program

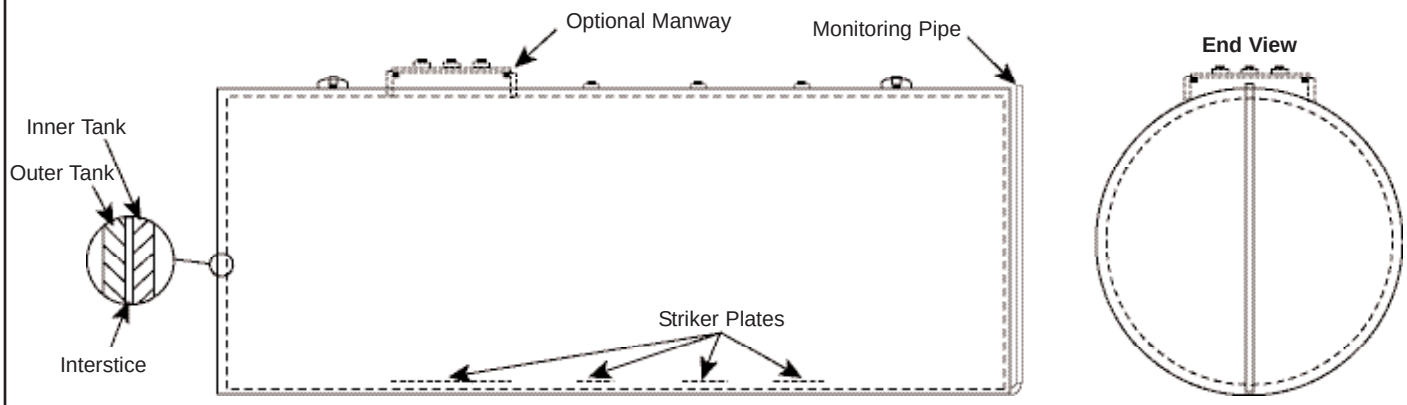
If you would like more information concerning design and pricing, call

919-751-1791 or 888-735-2882

GENERAL INDUSTRIES

PO Box 1279, Goldsboro, North Carolina 27533
visit us at www.gitank.com or e-mail tanks@gitank.com

ACT-100® Double-Wall Underground Steel Storage Tanks



- **Capacity ranges 300 to 50,000 gallons**
- **Steel Tank Institute ACT-100® and UL labeled**
- **Provides safe and effective secondary containment**
- **Utilizes strength of steel and corrosion resistance of fiberglass**
- **Employs striker plate beneath fill opening to protect tank bottom**

ACT-100® Guideline Specification

A) General

1. Provide ACT-100® external corrosion protected FRP composite steel underground storage tanks.

B) Labeling

1. Tanks shall bear the Steel Tank Institute ACT-100® identification label.
2. Underground tanks shall bear the appropriate Underwriters Laboratories (UL) or Underwriters Laboratories of Canada (ULC) label.

C) Product Description

1. Tanks shall be manufactured in accordance with Steel Tank Institute ACT-100® Specification for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks.
2. Tanks shall be manufactured in accordance with and listed for Underwriters Laboratories UL 58, Steel Underground Storage Tanks for Flammable and Combustible Liquids, or Underwriters Laboratories of Canada ULC-S603, Standard for Underground Storage Tanks for Flammable and Combustible Liquids; and listed for UL 1746, External Corrosion Protection Systems for Steel Underground Storage Tanks, or ULC-S603.1, Standard for Corrosion Protection for Steel Underground Tanks for Flammable and Combustible Liquids.
3. Double-wall tanks shall provide testable secondary containment and access for interstitial leak detection monitoring.
4. Tanks shall have a minimum 100 mils of an approved FRP laminate on the tank exterior.

D) Manufacturer

1. Manufacturered by General Industries.

Use the STI Technology Guide online for your next ACT-100® specification!

All you need in tanks!

General Industries
PO Box 1279, Goldsboro, North Carolina 27533
919-751-1791 or 888-735-2882
www.gitank.com or e-mail tanks@gitank.com

CODE COMPLIANCES:

NFPA 30 (2003) Flammable & Combustable Liquids Code

NFPA 37 (2002) Flammable & Combustable Liquids Code

NFPA 110 (2003) Flammable & Combustable Liquids Code

IFC Fire Code (2003)

40 CFR 110 Oil Polution Act as Ammended (2005)

N.C. Fire Prevention Code (2004)

LABELS & STANDARDS:

UL-142 Single Wall

TANK OPTIONS:

Manholes

Saddles, Skids or Beams (available for bottom corrosion protection & observation

Upgraded Exterior Paint System for corrosion protection

Available Horizontal and Vertical (Both Cylindrical or Rectangular)

Steam/Hot Water Coils

Pump Platforms (Shelves, Contained or Framed)

Climbing Devices: Vertical Ladder, Ships Ladder & OSHA Stairs (All available with Platforms and/or Handrails)

CAPACITY:

270 gallons to 50,000 gallons

ACCESSORIES:

Top & Grade Overspill and Overfill Systems

Level Gauges

Vents

Leak & Level Sensor

Continuous Fuel Level Gauge Interface with Building Management System

Fuel Filtration System

Pumps

QUALITY ASSURANCE / WARRANTY / INSURANCE:

One Year Manufacturers Warranty on Material and Labor

General Industries

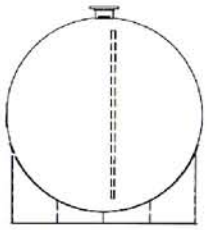
MEMBER PEI PETROLEUM EQUIPMENT INSTITUTE

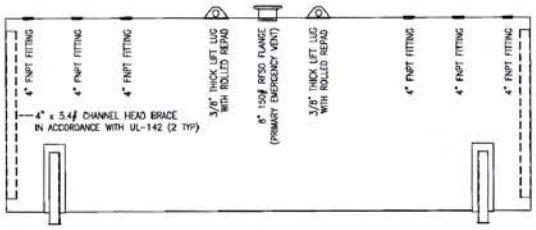
P.O. Box 1279
Goldsboro, NC 27533
Office (919) 751-1791 Fax (919) 751-8186

UL®

Aboveground Tanks UL-142 Single Wall

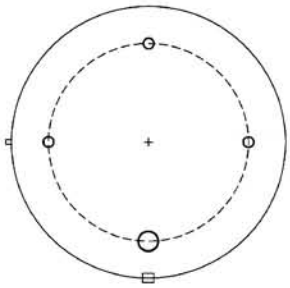
Horizontal Tanks

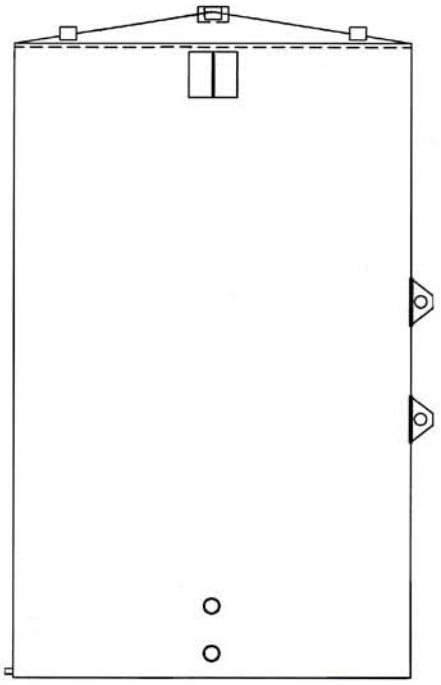




General Industries' UL-142 Single Wall Tanks are designed for storing flammable and conbustible liquids. Manufactured as horizontal or vertical, the tank can be cylindrical or rectangular, using carbon or stainless steel. Tank capacity up to 50,000 gallons is available in single or multi-compartments. Every tank is subject to Quality Verification Standards, utilizing up to date manufacturing practices, complying with NFPA-30 and International Fire Code requirements. Custom fabrication is available.

Vertical Tanks





Manufacturing Tanks for over 50 Years

Each tank manufactured by General Industries, Inc. must pass a multi-step quality control program. Tanks are tested at various stages during the manufacturing process to assure quality, with all results documented for future inspection.

www.gitank.com **E-mail: tanks@gitank.com**

GENERAL INDUSTRIES

General Industries

Quality in metal fabrication for over 50 years

Sales, Manufacturing and Engineering

Oil/Water Separator

For use in automotive, industrial and institutional wastewater treatment.

MEMBER PEI PETROLEUM EQUIPMENT INSTITUTE

UL

MEMBER STI STEEL TANK INSTITUTE

Helping Maintain Our Water as a Useable Resource

in compliance with Governmental Regulatory Standards

Oil / Water Separator

U.S. Patent Number 4,844,819

If you need an oil/water separator, the General Separator can help you meet Local, State, and Federal oil and grease discharge requirements.

General Industries equipment covers requirements set by the following agency standards:

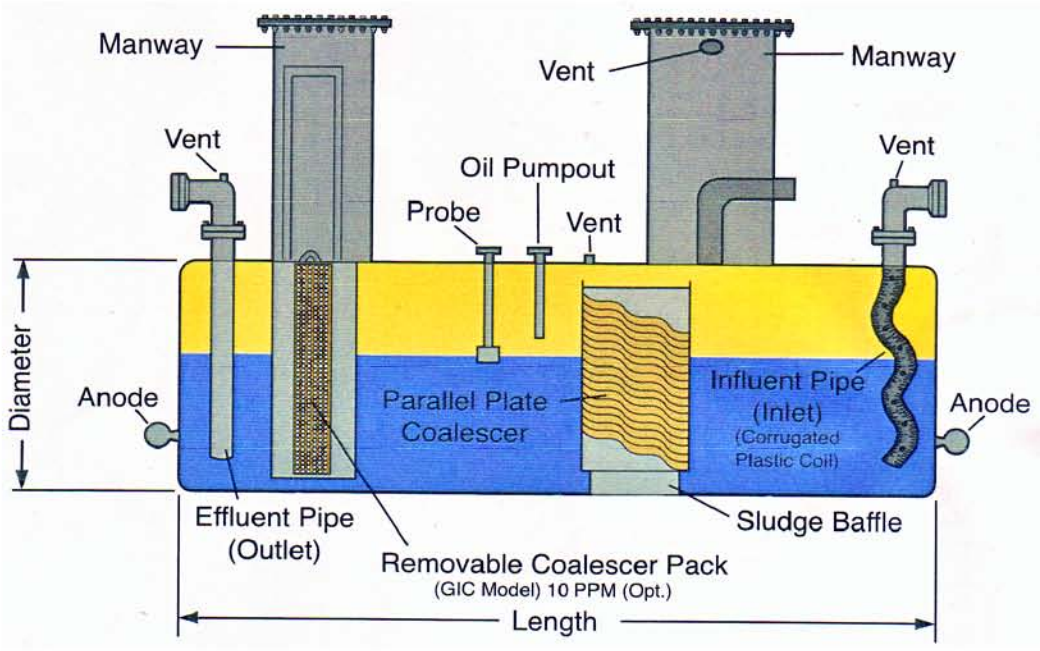
- EPA-Clean Water Act
- Resource Conservation & Recovery Act
- Water Quality Act Requirements
- NPDES Stormwater Regulations
- Safe Drinking Water Act

The General Separator is designed to separate oil and greasy solids from wastewater, operating on the principles of weight oil (hydrocarbons) separates from the heavier weight water, and can be disposed in a more cost efficient manner. This process of de-watering now permits the disposal of concentrated unwanted waste, while water may be discharged safely and in accordance with governmental regulations.

General Industries also provides an above ground separator which can be used to clean up oil spills in areas as needed.

All General Separators are factory tested and assembled. We build standard and custom tank separators to meet the applications of specific industry needs.

The North Carolina Department of Transportation and the North Carolina Army National Gaurd are presently utilizing the technology of the General Seperator. These are just two of the many organizations at which oil/water separators are rapidly becoming a necessary standard.



OIL WATER SEPARATOR SCHEDULE

MODEL	TOTAL VOLUME	TOTAL SPILL CAP	FLOW RATE GPM	DIA.	LENGTH	INLET/ OUTLET	WEIGHT APPX. LBS.
GI/GIC-300	300	150	30	3'0"	6'2"	3"	635
GI/GIC-530	530	250	50	3'10"	6'2"	4"	935
GI/GIC-1000	1000	500	100	3'10"	12'0"	6"	1735
GI/GIC-2000	2000	1000	200	5'4"	12'0"	6"	2785
GI/GIC-3000	3000	1500	300	5'4"	18'0"	8"	3524
GI/GIC-4000	4000	2000	400	5'4"	24'0"	8"	5364
GI/GIC-5000	5000	2500	500	6'0"	23'10"	8"	6260
GI/GIC-6000	6000	3000	600	6'0"	28'8"	10"	7896
GI/GIC-8000	8000	4000	800	8'0"	21'4"	10"	8460
GI/GIC-10000	10000	5000	1000	8'0"	26'8"	12"	11970

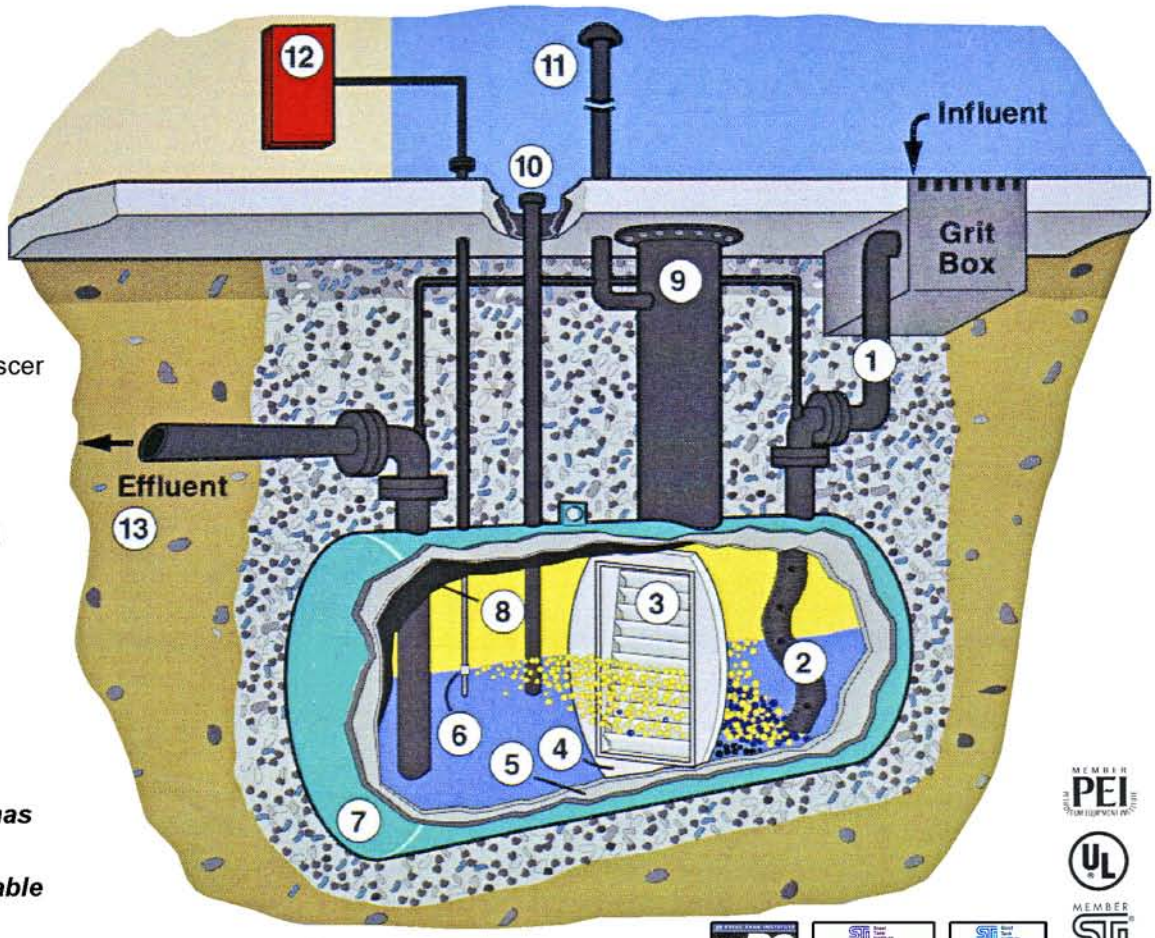
**Larger sizes available upon request.*

The General Separator is an effective, proven program that will meet or surpass accepted governmental standards. Features include:

- **Low Inital Cost**
- **Pre-packed and easily installed with no moving parts**
- **Little or no maintenance necessary**
- **Continuous or Intermittent operations capacity at temperature ranges fro 40 F to 180 F**
- **Variable flow rates - 30GPM to 3000GPM**
- **Patented spiral corrugated coil helps diffuse oil particles more rapidly, making our separator more efficient than other models.**

Oil / Water Separator

U.S. Patent Number 4,844,819



1. Influent (inlet)
2. Patented Spiral Coil
3. Parallel Corrugated Plate Coalescer
4. Sludge Baffle
5. Carbon Steel Inner Tank
6. Probe
7. Polyurethane - standard
   Fiberglass Outer Tank - optional
8. Optional- Interior Coating
9. Manway (*for Sludge Removal*)
10. Oil Suction
11. Vent
12. Alarm Panel
13. Effluent (outlet)

The General Industries Separator has been certified by an independent engineering firm to meet all applicable standards.

How it works:

1. Install unit as per sti-P3,® ACT-100® or ACT-100U® installation Instructions.
2. General Industries recommends to install a grit chamber to trap any trash or solids before entry in separator.
3. Fill Separator completely with water.
4. When oil/water mixture enters through a patented corrugated pipe.
5. Oil/water mixture is sent through parallel corrugated plate coalescence to squeeze out oil.
6. Sludge is trapped so it will not continue down stream.
7. Water overflows off bottom and discharged to storm drain or other receptable areas.
8. To increase oil removal efficiency, (10ppm) a polypropylene coalescence pack is used to intercept droplets of oil too small to be removed by parrallel corrugated plate coalescences.
9. The waste oil should be removed when oil starage reaches 40-50% of total separater capacity.

General Separators are designed based on the following:

- UL-58 (Single and Double Wall)
- sti-P3,® ACT-100® or ACT-100U®
- API Bulletin No. 1630
- Waste water handling and treatment manual for petroleum marketing facilities
- Stokes Law
- Buffalo Morse principle
- API Manual or disposal of petroleum wastes

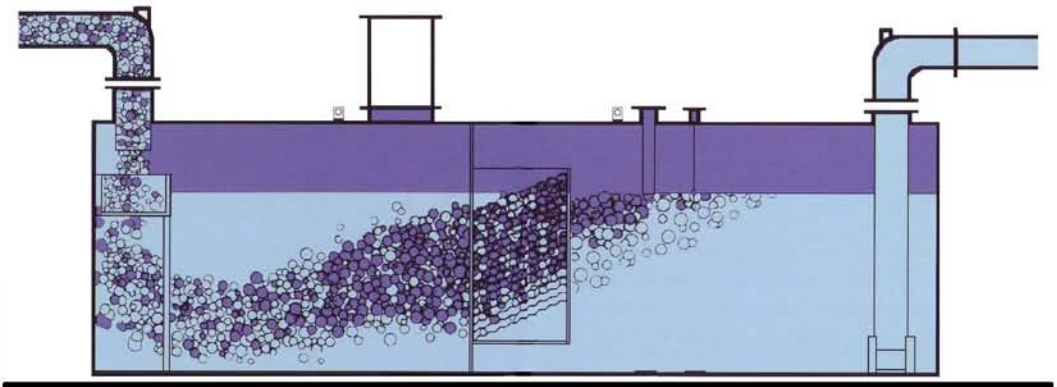
General Industries can provide a wide variety of options to accomdate your requirements:

- Single or Double Wall
- sti-P3,® ACT-100® or ACT-100U®
- 15ppm oil/grease efficiency (*or 10ppm oil/grease efficiency with removable polypropylene pack*)
- Probes and control panels to monitor levels of oil requiring pump out
- Probes to monitor interstitial space for double wall tanks
- Skimmers with overflow tanks to increase oil storage capacity
- Indentical units can be skid mounted

The Environmental Protection Agency (EPA), state and local government agencies have in place regulations which control, monitor and prohibit the discharge of wastewater. Some facitlities which these regulations will affect include:

- Automotive Service Stations
- Truck Stops, Terminal and Garages - Military and Municipal
- Quick Lube Operations
- Rental Car Agencies
- Bus Maintenance Garages
- Automotive Dealerships
- Airports
- Railroad Yards
- Farm Maintenance
- Muffler Shops
- Any business with parking lots that collect oil from leaking parked cars

NEW AND IMPROVED UL-2215



The General Industries UL-2215 AquaSweep™

Specifications:

Tested & Listed per Underwriters Laboratories UL-2215

Meets ULCS656 Statndards for Oil / Water Separator

Used to process storm water and wastewater runoff for compliance with US EPA Clean Water Act criteria

Available with tank capacities from 300 to 50,000 gallons

Flow Rates fro 45 to 10,000 gallons per minute

Rated effluent efficiency of less than 10ppm on most models, and less than 5ppm on selected models

Optional double-wall designs offer integral secondary containment which can be monitored for leaks

Corrosion protection of exterior tank constructed to UL and STI standards with strict third-party quality control inspection proggram

Customized manways can provided for cost effective maintenance access

Liquid level sensors and control panels available to sense the oil within the tank, and alert the operator when the oil needs to be removed

Interior coating to treat against corrosion and heavy chemical or other substance ware

Several models available

Available coatings are STI-P3 ®or ACT-100 ®or ACT-100U ®

What Makes AquaSweep™ different from other oil water separators

- UL-2215 Listed and STI Engineered and Labeled
- Available in a range of capacites, flow rates and effluent discharge efficiency levels rated as low as 5ppm.
- Option double-wall designs offer integral secondary containment
- Hi Oil Level sensors and Alarm Panel required
- Corrosion protected tank built to nationally recognized STI standards with strict third-party quality control inspection program
- Various coalescer material are a vailable that meet UL requirements
- Internal Coatings required

How does the AquaSweep™ Oil / Water Separator Work?

Gravity Oil Water Separators are designed for gravity-induced separation of oil from water. This system is passive, meaning that the attributes of the incoming oily water will directly determine the characteristics of treated outgoing water. The separators are designed for gravity removal of non-emulsified hydrocarbons, i.e., motor oils, lightweight oils, and related petroleum products with a specific gravity of less than 1.0. Depending upon the AquaSweep™ model, the contaminated oily water follows a paththrough various pre-selected coalescer materials. The AquaSweep™ Gravity Oil Water Spearator construction slows the flow and turbulence of the incoming water. The interplay of this motion, coupled with buoyant forces and contact with the coalescer material(s) cause droplets of oil to rise and combine into larger oil globules. The globules rise to the surface and float on top of the water. Sludge and other matter settle and accumulate at the bottom of the tank compartment. The resultant storm water, having been cleaned of these contaminants, exits the separator, below the oil level for further treatment or is directed back into the environment. Accumulation of oil and sludge within the separator are contained until they can be removed and disposed of properly.

Helps you meet EPA Phase I and II Storm Water Program discharge limits

Each tank manufactured by General Industries, Inc. must pass a multi-step quality control program. Tanks are tested at various stages during the manufacturing process to assure quality, with all results documented for future inspection.

If you would like more information concerning design, pricing or installation, contact us at:

(919) 751-1791 or (888) 735-2882

E-mail: tanks@gitank.com

Steel Tank Institute **AquaSweep™**

Gravity Oil Water Separator