GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Emergency Generator UST system leak detection requirements if installed prior to 4/7/2008(should be implemented by 12 15 2020)

Beginning on December 15, 2020 regulated emergency generator tank systems installed prior to 4/7/2008 are required to implement tank and piping leak detection. For tanks that mean one of the permanent tank leaks detection methods will need to be conducted. Of those permanent tank leak detection methods, only the following will typically be a valid method for an emergency generator tank.

- Monthly in-tank leak detection with an automatic tank gauge (ATG)
- Monthly interstitial monitoring (If the tank is double walled)

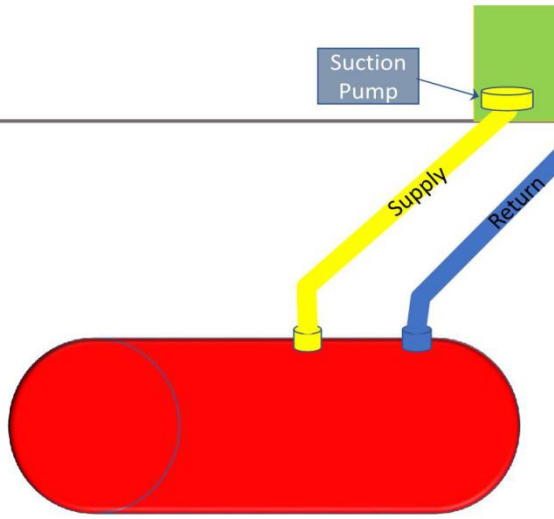
For piping leak detection, the first step would be to determine the configuration of your supply and return lines. Are they

- Pressurized, if pressurized, do you have or can you install an automatic line leak detector (ALLD)?
- Suction,
- Gravity,
- Or some hybrid of these configurations?

The following diagrams show five typical configurations of piping for emergency generators and the types of piping leak detection that are acceptable. If your system is not configured like these and you are unsure what leak detection methods will be acceptable then contact the UST Management Program at (404) 362-2687.

Emergency Generator UST system leak detection requirements if installed prior to 4/7/2008(should be implemented by 12 15 2020)

Generator UST Piping Version 1
(piping installed prior to 4/7/2008)



- Underground supply and return lines slope back to tank.
  - Supply is "suction"
  - Return is "gravity"
- Fuel is dispensed at a higher elevation than tank top
  - Supply Line:
    - If only check valve is at suction pump then safe suction. Exempt from leak detection. Requires a UST-19 form.
    - If check valve is at tank then supply is standard suction. Requires LTT every 3 years.
  - Return Line:
    - Fuel flows back to tank by gravity once day tank full. If pipe has a leak, fuel could still continuously flow out of pipe so an annual LTT or monthly interstitial monitoring is required. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.

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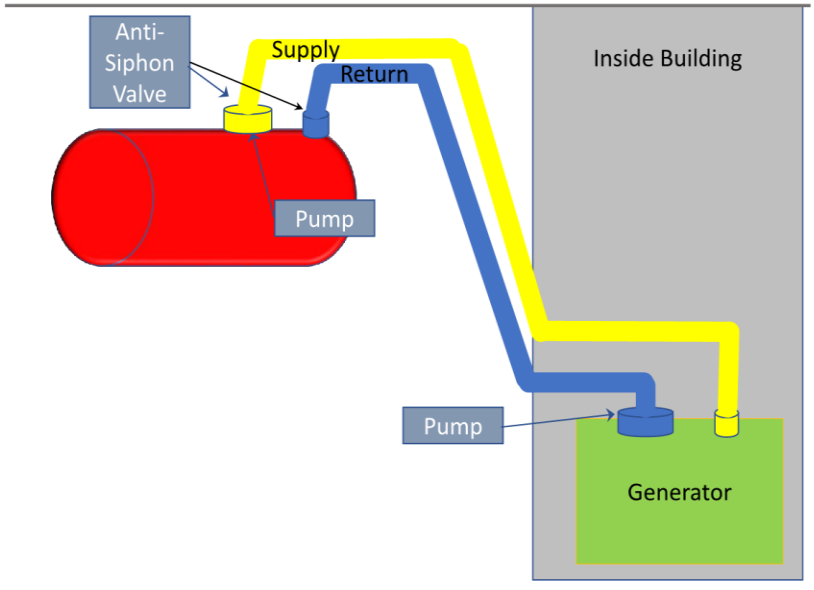
Generator UST Piping Version 2
(piping installed prior to 4/7/2008)



- Underground supply and return lines do not slope back to tank.
  - Supply is "pressurized"
  - Return is "pressurized"
- Supply
  - Requires an ALLD and annual LTT or monthly interstitial monitoring (requires DW pipe)
    - If an ALLD cannot be installed then interstitial monitoring is required with sump sensors wired to shut down pumping system. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.
- Return
  - Requires an ALLD and annual LTT or monthly interstitial monitoring (requires DW pipe)
    - If an ALLD cannot be installed then interstitial monitoring is required with sump sensors wired to shut down pumping system. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.

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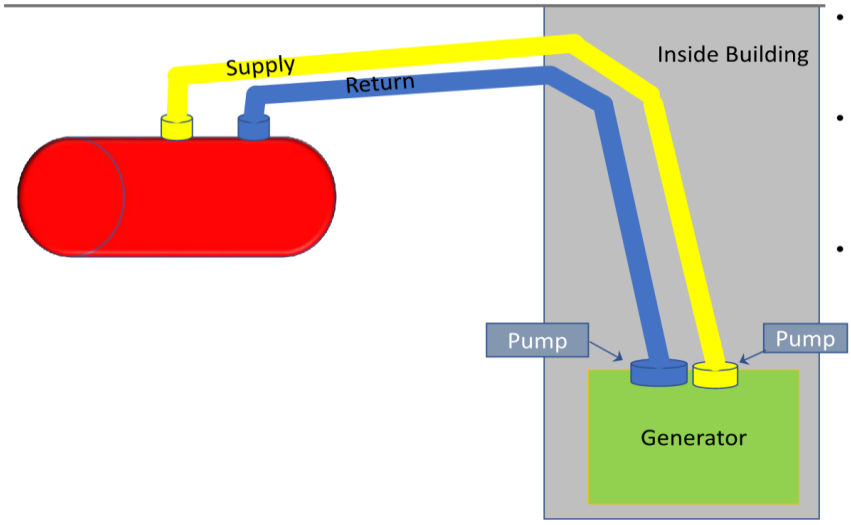
Emergency Generator UST system leak detection requirements if installed prior to 4/7/2008(should be implemented by 12 15 2020)

Generator UST Piping Version 3
(piping installed prior to 4/7/2008)



- Below ground portion of supply and return are sloped back to tank.
  - Supply is "suction"
  - Return is "gravity"
- Supply line
  - If check valve is at tank then supply is standard suction. Requires LTT every 3 years.
  - If there is not a check valve at the tank then "safe suction" and exempt from leak detection. Requires a UST-19 form.
- Return line:
  - Below ground portion is gravity feed back to tank, however fuel still will get pumped through pipe if there is a leak.
  - Requires an annual LTT or monthly monitoring such as interstitial monitoring with sump sensors that are wired to shut down pumping system. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.

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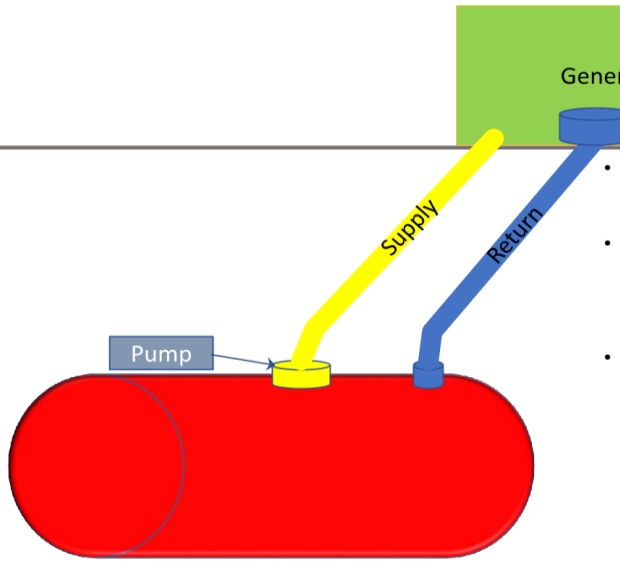
Generator UST Piping Version 4
(Piping installed prior to 4/7/2008)



- Underground supply has a pump at tank and return line slopes back to tank.
  - Supply is "pressurized"
  - Return is "gravity"
- Supply Line:
  - Piping is pressurized and requires an ALLD and annual LTT or monthly interstitial monitoring (requires DW pipe).
    - If an ALLD cannot be installed then interstitial monitoring is required with sump sensors wired to shut down pumping system. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.
- Return Line:
  - Fuel flows back to tank by gravity once day tank full. If pipe has a leak, fuel could still continuously flow out of pipe so an annual LTT or monthly interstitial monitoring is required. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.

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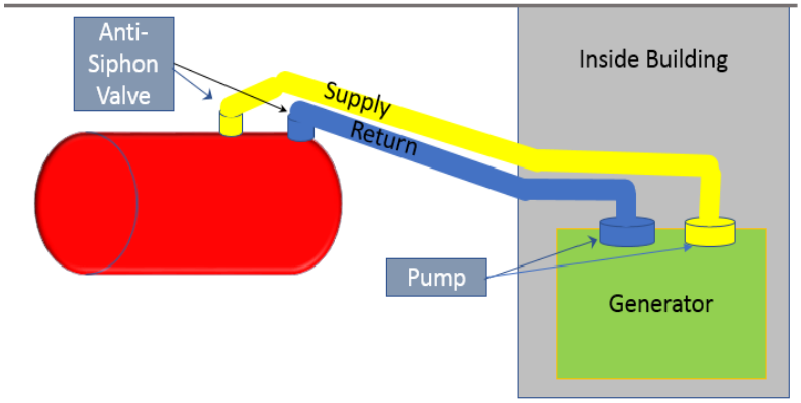
Emergency Generator UST system leak detection requirements if installed prior to 4/7/2008(should be implemented by 12 15 2020)

Generator UST Piping Version 5

(Piping installed prior to 4/7/2008)



- Underground supply and return lines do not slope back to tank.
  - Supply is "standard suction"
  - Return is "pressurized"
- Supply
  - Requires a LTT every three years or monthly interstitial monitoring (requires DW pipe)
- Return
  - Requires an ALLD and annual LTT or monthly interstitial monitoring (requires DW pipe)
    - If an ALLD cannot be installed then interstitial monitoring is required with sump sensors wired to shut down pumping system. Containment sumps used for interstitial monitoring also must be tightness tested every 3 years.

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Revised 3/11/2019