

DERM Emergency/Backup Generators – Requirements

DERM plan review and approval is required for all Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs).

Permanent Installation for Residential

- ❖ New UST systems greater than 300 gallons are required to have double wall construction, overfill prevention, overspill prevention, tank interstitial monitoring, continuous automatic leak detection, anchoring, monitoring well network, protection from corrosion, etc. The components of the systems must be on the approved state list.
- ❖ New AST systems are recommended to have secondary containment (double wall construction or spill containment dike).
- ❖ Generator and fuel supply (excluding gas powered systems) shall be located a minimum of 100 feet from any potable water supply wells.
- ❖ Plans must provide a title block to be signed, sealed and dated by a Professional Engineer or Registered Architect registered in the State of Florida.
- ❖ For installation of underground tank and/or piping, plans must also include title block to be signed and dated by a Pollutant System Specialty Contractor (PSSC).
- ❖ Additionally, plans must show:
 - ◆ A location map, site plan, and/or floor plan showing locations of the existing structures (including water supply and wastewater systems) and the proposed generator and fuel tank.
 - ◆ Size, design (double walled vs. single walled), material of construction and location (underground vs. above ground) of the fuel tank and type of fuel to power the generator.
 - ◆ Fuel piping layout in plan and profile (cross section showing piping running underground or above ground) of the entire piping running, showing all STP, fuel pumps, piping sumps, piping design (i.e. double walled vs. single walled), material, support and slope of the piping.
 - ◆ Compliance monitoring well (MW) network and MW detail(s).
 - ◆ Fuel tank pad and anchoring details or anti-buoyancy calculations.
 - ◆ All electrical/mechanical equipment (including the generator, remote fill ports, top of tank, etc.) above the Base Flood Elevation and/or the required lowest floor elevation (Crown of Road/County Flood Criteria + 8”). Additionally, any system with a portion below the required elevations must show that it is resistant to floodwaters, hydrostatic, hydrodynamic, and buoyancy forces.