



STATE OF VERMONT
Agency of Natural Resources

Style Definition: Heading 7: Font: Not Italic, Numbered +
Level: 1 + Numbering Style: I, II, III, ... + Start at: 1 +
Alignment: Right + Aligned at: 1.25" + Indent at: 1.5"

Aboveground Storage Tank Rules

Effective date: XX/XX/XX



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Copies of these rules and other information are available
at the Vermont Storage Tank Program website at:

<http://dec.vermont.gov/waste-management/storage-tanks>

**ABOVEGROUND STORAGE TANK RULES
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Subchapter 1: GENERAL PROVISIONS

§ 9-101 AUTHORITY

These rules are adopted by the Secretary of the Agency of Natural Resources pursuant to the authority granted by **10 V.S.A. Chapter 59 Section 1929a** and **10 V.S.A. Chapter 159**.

§ 9-102 PURPOSE AND APPLICABILITY

These rules are intended to protect public health and the environment by establishing standards for the design, installation, and inspection of aboveground storage tank systems.

- ~~(1) Establishing standards for the design, installation, and inspection of all aboveground storage tank systems; and~~
- ~~(2) Establishing standards for the design, installation, and inspection of all bulk storage tank systems.~~

§ 9-103 RELEASE PROHIBITION; REPORTING; EMERGENCY RESPONSE

- (a) Release prohibition. The release of hazardous materials, including from spills or tank overflows, into the surface or groundwater, or onto the land of the State is prohibited.
- (b) Releases and suspected releases. Any person required by **10 V.S.A. § 6617** shall immediately report a release or suspected release that meets any of the following criteria to the Secretary:
 - (1) A release of any petroleum product that exceeds 2 gallons;
 - (2) A release of any petroleum product that is less than or equal to 2 gallons and poses a potential or actual threat to human health or the environment;
 - (3) A release of any hazardous material other than petroleum; or
 - (4) A suspected release of hazardous material as indicated by the following:
 - (A) ~~(i)~~ An unusual loss of product from the aboveground storage tank;
 - (B) ~~(ii)~~ Strong petroleum vapors present in the vicinity of the aboveground storage tank; or

- (C) ~~(iii)~~ Other environmental conditions present in the vicinity of the tank, the facility, or off the facility site that indicate that a release may have occurred (e.g., dead vegetation around the tank system).

Note: Reporting under this subsection shall be directed to:

Monday through Friday, 7:45 AM to 4:30 PM:
Waste Management & Prevention Division at (802) 828-1138.

~~At all other times~~Anytime: Division of Emergency Management ~~and Homeland Security~~ at (800) 641-5005.

Note: Under the Federal Water Pollution Control Act, certain spills of oil and/or hazardous substances are prohibited and shall be reported pursuant to the requirements of **40 CFR Part 110 / Discharge of Oil**. Certain spills of hazardous substances shall also be reported pursuant to CERCLA. In both cases, the National Response Center shall be notified at (800) 424-8802.

- (c) Site investigation; corrective actions. Any person responsible for a release or suspected releases pursuant to **10 V.S.A. § 6615** shall perform an investigation and corrective action measures to address the release in accordance with **10 V.S.A. § 6615b** and any other regulations and procedures adopted by the Agency for the investigation and clean-up of contaminated properties.
- (d) Emergency response.
- (1) Notwithstanding the requirements of **subsection (c) of this section**, the Secretary may require an emergency response when the Secretary determines that a release may cause an immediate and serious threat of harm to human health or the environment.
 - (2) When undertaking emergency responses pursuant to this subsection, notification to the potentially responsible party pursuant to **10 V.S.A. § 1283** in advance of undertaking an emergency response is not required, unless:
 - (A) The Secretary determines that there is need for additional investigation of the release to determine the impact to sensitive receptors and to human health and that it is appropriate for the potentially responsible party to conduct the investigation; or

- (B) The Secretary determines that an additional response is necessary to address short-term impacts to sensitive receptors and impacts to human health, and that it is appropriate for the potentially responsible party to conduct the additional response.
- (3) The Secretary shall conduct or direct the potentially responsible party to conduct a limited site investigation to determine if the release requires further site investigation or corrective action. As used in this subsection, "limited site investigation" means the steps the Secretary deems necessary to determine whether additional site investigation or corrective action is necessary to respond to the release.

§ 9-104 SEVERABILITY

The provisions of these rules shall be severable. If any provision of these rules is invalid or if any application of these rules to any person or circumstance is invalid, the invalidity shall not affect other provisions or applications that can be given effect without the invalid provision or application.

§ 9-105 INCORPORATION BY REFERENCE

When reference is made herein to CFR titles, their parts, subparts, or sections, the reference is to titles of the Code of Federal Regulations as they existed on the effective date of these rules.

§ 9-106 VARIANCES

- (a) The Secretary may grant a variance for one or more of the specific provisions of these rules provided that the person requesting the variance can demonstrate to the satisfaction of the Secretary that the proposed new or alternative technology, method, or application (e.g. equipment, designs, practices or methods) will protect human health and the environment in a manner that is at least equivalent to the regulatory provision(s) for which a variance is sought.
- (b) Requests for a variance shall be made in writing. Such requests shall identify the manner in which the proposal varies from the provisions of these rules, and the basis for finding that the proposal provides a level of protection as required in § 9-106(a). The Secretary may require that additional information be submitted by the person requesting the variance.

(c) In granting a variance the Secretary may impose specific conditions necessary to assure a level of protection of human health and the environment at least equivalent to that provided under these rules.

(d) The Secretary may grant a variance for a particular class or category of innovative or alternative technology in accordance with the requirements of this section.

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Subchapter 2: DEFINITIONS

All terms not defined herein shall have the meaning given them in **10 V.S.A. chapter 59**:

~~“Aboveground storage tank” means any tank, other than an underground storage tank, used to store any of the following petroleum products: gasoline, diesel, kerosene, used oil, or heating oil.~~

“Aboveground storage tank system” means the above-ground storage tank and all associated piping, vent and fill pipes, vent alarm and whistle, fuel filter and shut-off valves. For the purposes of these Rules, mobile and semi-mobile skid tanks are not included in this definition of aboveground storage tank system.

“Agency” means the Vermont Agency of Natural Resources.

“Biodiesel” means a fuel comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, or designated B100.

“Bulk storage tank facility” means any facility:

- (1) that stores heating fuel or motor fuel in an aboveground tank system and the principle purpose of the storage is:
 - (A) in the case of heating fuel, for distribution to a fuel carrier for further distribution to consumer homes, and-or
 - (B) in the case of motor fuel, for distribution to a person selling motor fuel for sale to consumers;
- (2) with a total aboveground storage capacity of greater than 1,320 gallons; and
- (3) that is stationary and located at a fixed location.

~~“Bulk storage tank” means any petroleum aboveground ~~petroleum~~-storage tank system with a capacity greater than 1,320 Gallons, at a facility required to have a Spill Prevention Control and Countermeasure (SPCC) Plan pursuant to ~~40 CFR § 112.~~~~

“Carrier” means a person who transports and transfers heating fuel, motor fuel, or used oil from a bulk liquid transport vehicle to an aboveground storage tank system.

“**CERCLA**” means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. § 9601 et. seq., as amended (also known as “Superfund”).

“**Compatible**” means that two or more substances maintain their respective physical and chemical properties upon contact with one another under conditions encountered within or around an aboveground storage tank system for the design life of that system.

“**Existing tank**” means an aboveground storage tank system installed before the effective date of these rules [ADD HARD DATE].

“**Facility**” means all contiguous land, structures, other appurtenances, and improvements on the land where an aboveground storage tank system is located.

“**Hazardous material**” means all petroleum and toxic, corrosive, or other chemicals and related sludge included in any of the following:

- (a) Any substance defined in **CERCLA § 101(14)**;
- (b) Petroleum, including crude oil or any fraction thereof;
- (c) Hazardous waste, as defined in **10 V.S.A. chapter 159** and the Vermont Hazardous Waste Management Regulations; or
- (d) A chemical or substance that, when released, poses a risk to human health or the environment or other living organisms and that is listed by the Secretary by rule.

Note: “Hazardous material” does not include herbicides and pesticides when applied consistent with good practice conducted in conformity with federal, state and local laws and regulations and according to manufacturers’ instructions. Nothing in this subsection shall affect the authority granted and the limitations imposed by **10 V.S.A. § 6608a**.

“**Heating fuel**” means heating oil, kerosene, or other dyed diesel fuel that is not used to propel a motor vehicle and which is typically used to heat a structure. “Heating fuel” includes any blend of petroleum and biodiesel used to heat a structure.

“In Service” means a condition in which an aboveground storage tank system remains connected to a heating source and stores heating fuel that is required by the heating unit, or remains connected to a distribution system for a motor fuel tank. This definition applies to systems that use an alternative fuel (e.g., wood) as a primary heat source, and utilize heating fuel as a backup heating source. This definition also applies to aboveground storage ~~systems~~ tanks at bulk storage tank facilities that store fuel for distribution.

“Interstitial space” means the space between the primary and secondary barriers of a secondarily-contained system (e.g., the interstitial space of a double-walled tank is the space between the two walls of the tank).

“Liquid-tight” means impervious to the passage of water and/or regulated liquid substance.

“Marina” means a shoreline property that:

- (1) contains a dock or basin to provide secure moorings for pleasure or commercial boats; and
- (2) that has an associated fueling dock or aboveground storage tank.

“Motor fuel” means petroleum or a petroleum-based substance that is motor gasoline, aviation gasoline, No.1 or No. 2 diesel fuel, or any blend containing diesel fuel, or any grade of gasohol, or any other regulated substance typically used in the operation of an engine. “Motor fuel” includes any blend of petroleum and biodiesel used to propel a vehicle.

~~**“New installation”** means the installation of a tank or tank system on or after the effective date of these rules. This term shall include the installation of a tank that is reused or used to replace an existing tank.~~

“New tank” means an aboveground storage tank system installed on or after the effective date of these rules [ADD HARD DATE]. This term shall include the installation of a tank that is reused or used to replace an existing tank.

“NFPA” means the National Fire Protection Association.

“NORA” means the National Oilheat Research Alliance.

~~**“Out-of-service”** means a condition in which an aboveground storage tank system is disconnected from a heating source or distribution system or is not in service, and the liquid level in the tank has been lowered to the extent that no more than 1 inch of residue, or 0.3 percent by weight of the total capacity of the aboveground storage tank, remains in the tank.~~

“Owner” means any person who owns an aboveground storage tank system.

“Person” means any individual, partnership, company, corporation, association, unincorporated association, joint venture, trust, municipality, the State of Vermont, or any agency, department or subdivision of the State, federal agency, or any other legal or commercial entity.

“Pipe” or “Piping” means a conduit made of a petroleum-compatible material used to convey petroleum to and from an aboveground storage tank system.

“Public water system” means any system or combination of systems owned or controlled by a person that provides drinking water through pipes or other constructed conveyances to the public and that has at least 15 service connections or serves an average of at least 25 individuals daily for at least 60 days out of the year. A “public water system” includes all collection, treatment, storage, and distribution facilities under the control of the water supplier and used primarily in connection with the system. “Public water system” shall also mean any part of a system that does not provide drinking water, if use of such a part could affect the quality or quantity of the drinking water supplied by the system. “Public water system” shall also mean a system that bottles drinking water for public distribution and sale.

“Public community water system” means a public water system that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

“Public non-transient, non-community (NTNC) water system” means a public water system that is not a public community water system and that regularly serves at least 25 of the same persons daily for more than six months per year. Examples: schools, factories, office buildings.

“Public transient, non-community (TNC) water system” means a public non-community water system that is not a non-transient, non-community system. Examples: restaurants, motels, campgrounds.

“Red Tag” means a visible tag that specifies that an aboveground storage tank system is noncompliant and must not be filled with petroleum products.

“Release” means any spilling, leaking, emitting, discharging, escaping, leaching, or disposing from an aboveground storage tank into groundwater, surface water, ~~or~~ soils, or onto ground surface(s).

“Residential” means, for the purposes of these rules, a building or structure where one or more person(s) live, whether year round, seasonally or temporarily. Examples of a residence include, but are not limited to: single family dwellings, duplexes, apartment buildings, mobile home parks, dorms, residential condominiums, and residential accessory units. A residence may include a commercial operation if the commercial operation is owned or operated by an occupant that resides in the same building.

“Secondary containment system” means a liquid-tight physical barrier that is either:

- (a) a double-walled tank that is designed to:
 - (1) ~~(i)~~ contain any regulated substance that leaks from the primary containment barrier of an aboveground storage tank system; and
 - (2) ~~(ii)~~ allows access to the interstitial space for monitoring and maintenance; or
- (b) a single-walled tank system or enclosure that is designed to contain at least 110 percent of the storage capacity of the tank.

“Secretary” means the Secretary of the Vermont Agency of Natural Resources or the Secretary’s duly authorized representative.

“Sensitive receptor” means any natural or human-constructed feature which may be adversely affected when contacted by a regulated substance. Examples of sensitive receptors include public or potable water supplies, surface waters, wetlands, sensitive ecological areas, outdoor and indoor air, and enclosed spaces such as basements, sewers, and utility corridors.

“Skid Tank” means a container with foundations attached (portable or semiportable containers with suitable steel “runners” or “skids” and popularly known in the industry as “skid tanks) and are used to store any of the following petroleum products: gasoline, diesel, kerosene, used oil, or heating oil. For the purposes of these Rules, skid tanks that are mobile or semi-mobile are not included in the definition of “aboveground storage tank system”. Skid tanks that are fixed in place and are not utilized for mobile or semi-mobile use, defined as mobility within six months, are not included in this definition of “skid tank” and are considered aboveground storage tank systems that are subject to regulation under this rule.

“Structure” means any assembly of materials that is intended for occupancy or use by a person and that has at least three walls and a roof.

“**Used Oil**” means any petroleum product that has been refined from crude oil (in whole or in part), or any synthetic oil that has been used and as a result of such use is contaminated by physical or chemical impurities. Used oil is a free-flowing liquid at standard temperature and pressure and has a flash point of greater than 100 degrees (F). Used oil includes oils used as lubricants, heat transfer fluids, hydraulic fluids, and for other similar uses, but does not include materials derived from crude or synthetic oils that are fuels (e.g., gasoline, jet fuel and diesel fuel), or as cleaning agents or solvents (e.g., naphtha or mineral spirits). Used oil is subject to regulations under subchapter 8 of the Vermont Hazardous Waste Management Regulations (VHWMR).

“**Yellow Tag**” means a visible tag affixed to an aboveground storage tank system that permits a temporary and conditional use of a noncompliant aboveground tank system located on and used to serve a residential property.

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***Subchapter 3: DESIGN, INSTALLATION, AND INSPECTION
STANDARDS FOR ABOVEGROUND STORAGE TANK SYSTEMS***

§ 9-301 APPLICABILITY

With the exception of tanks defined as bulk storage tanks in these Rules, This subchapter §§ 9-302 through 9-306 applies to all aboveground storage tanks and tank systems. § 9-307 applies only to bulk storage tank facilities and bulk storage tanks.

§ 9-302 GENERAL REQUIREMENTS

All ~~new aboveground storage~~ tanks shall be made of or lined with materials that are compatible with the substance(s) stored in them and shall be constructed as per one of the following designs:

- (1) Single-walled tank not less than 12-gauge in thickness in its entirety in accordance with Section 7.2.7 (Design Standards) of NFPA Part 31, effective ~~January 1, 2020~~ December 4, 2015, as amended;
- (2) Double-bottom steel tanks with end-cover protection and interstitial space monitoring;
- ~~(2)~~(3) Double-wall tanks with polyethylene or other plastic polymer inner wall and metallic outer wall.
- ~~(3)~~(4) Double-wall non-metallic tank; or
- ~~(4)~~(5) Single-walled non-metallic tank for inside use only.

Note: All tanks at public buildings (as defined in **20 V.S.A., § 2730**), including aboveground LP Gas tanks; over 2,000 gallons ~~water-liquid~~ capacity; or with an aggregate capacity over 4,000 gallons; and aboveground flammable and combustible liquid tanks, must have a permit from the Vermont Division of Fire Safety. Tank permit applications are available online at www.firesafety.vermont.gov, or can be obtained by contacting any office of the Vermont Division of Fire Safety.

~~**§ 9-303 TANK AND PIPING DESIGN STANDARDS**~~

- ~~(a) All new installations shall be designed and constructed in accordance with Section 7.2.7 (Design Standards) of NFPA Part 31, effective December 4, 2015, as amended. For new installations, all tank fill and vent piping shall be designed and constructed in accordance with Section 8.2.1.1 (Acceptable Piping) of NFPA Part 31, effective December 4, 2015, as amended.~~
- ~~(b) Tanks with legs longer than 14 inches are prohibited unless such tank is approved by the Secretary in writing prior to the tank's installation.~~
- ~~(c) Unused openings in all tanks shall be fully and permanently closed or plugged. Threaded pipe plugs may be used to close openings to comply with this provision.~~

§ 9-3034 TANK SYSTEM DESIGN, INSTALLATION AND ALTERATION STANDARDS

- (a) Specifications. Installation and alteration of all aboveground storage tank systems shall be performed in accordance with one of the following methods:
 - (1) NFPA 1 Uniform Fire Code (IFC); or
 - (2) NFPA Parts 30 & 31; or
 - (3) A similar method approved in writing by the Secretary.
- (b) Design. All new tanks shall be designed and constructed in accordance with Section 7.2.7 (Design Standards) of NFPA Part 31, effective January 1, 2020, as amended. For new tanks, all tank fill and vent piping shall be designed and constructed in accordance with Section 8.2.1.1 (Acceptable Piping) of NFPA Part 31, effective January 1, 2020, as amended.
- (c) Aboveground Storage Tank System Installation. All aboveground storage tank systems shall comply with the provisions of this subsection, as follows:
 - (1) Tank Foundation.

(A) All aboveground storage tank systems shall be located on a stable foundation, such as a concrete pad, that is adequate to prevent the tank from tipping over. A stable foundation shall mean the tank is free-standing, measurements taken on the tank's length and width dimensions show the absence of the tank tilting, taking into account any industry-accepted design or installation specifications; and there is no evidence of tank subsidence (i.e., no contact between the tank or tank legs and the ground surface)

(B) New Installations. All new tanks shall be installed on a stable foundation that is made of a single continuous pad made of concrete and is constructed to be at least 4 inches in depth and sized to have a footprint that exceeds the length and width dimensions of the tank by a factor of 10 percent (see Note below for example). A foundation of alternative material or size may be utilized with prior written approval by the Secretary.

Note: For a 275-gallon tank with dimensions of 44 inches (height) by 27 inches (width) by 60 inches (length), the foundation footprint shall measure at least 4 inches deep and 30 inches (width) by 66 inches (length).

(2) Overfill alarm. Any aboveground storage tank system that receives pressurized deliveries shall be equipped with an overfill vent alarm or "whistle" with a vent pipe that terminates near the fill pipe. Vent pipes shall terminate not more than 12 feet from the fill pipe and at a point visible from the fill port.

(3) Shutoff valve. Any aboveground storage tank system with a fuel line attached to the bottom portion of the tank shall be equipped with an accessible shutoff valve located within 12 inches of the fuel outlet of the tank system. Any aboveground storage tank system which draws a regulated substance from the top of the tank system shall be equipped with a shutoff valve before the filter. The valve shall be a positive shutoff valve designed solely for the purpose of shutting off the supply of heating fuel, motor fuel, or used oil.

(4) Fill and vent pipe.

- (A) All aboveground storage tank systems must have fill and vent pipes shall be sized at least 1-1/4 inches inside diameter and terminate outside the structure. The fill pipe shall be fitted with a liquid-tight cap and the vent pipe shall have a weatherproof and insect-proof cap.
- (B) ~~New Installations.~~ All new tanks shall have fill and vent piping constructed in accordance with **§ 9-303(b)**. The new tank fill and vent pipes shall be made of black iron with threaded fittings. The fill pipe shall be fitted with a liquid-tight cap and the vent pipe shall have a weatherproof and insect-proof cap.
- (5) The aboveground storage tank system vent pipe shall be sized in accordance with the corresponding NFPA minimum diameter of tank vent opening.
- (6) The aboveground storage tank system shall be equipped with a device to gauge fuel volume.
- (7) Unused openings in all aboveground storage tank systems shall be fully and permanently closed or plugged. Threaded pipe plugs may be used to close openings to comply with this provision.
- (8) Piping and fuel lines.
- (A) All existing tanks with piping and fuel lines that are buried underground, including in concrete flooring, shall be installed with a plastic coating or a continuous protective sleeve made of a non-corrodible material. The protective sleeve shall start and terminate aboveground. Fittings shall not be installed underground in any piping, coating, or a sleeve.
- (B) ~~New Installations.~~ All new tanks with piping and fuel lines in direct contact with earthen materials or concrete shall be installed with a plastic coating and sleeved with crush resistant conduit that is in a continuously protective sleeve made of non-corrodible material. Fittings shall not be installed underground in any piping, coating, or sleeve. Having unprotected pipe or piping buried or in direct contact with earthen materials or concrete is prohibited.

(9) For aboveground tank systems located inside a structure, the tank shall be located on the lowest floor of the structure unless the installation meets an exception recognized by a method in § 9-303(a).

(10) For aboveground storage tank systems located outside a structure, the tank system shall be protected from physical damage caused by snow or ice. Compliance with this subsection shall require location of a tank system either:

(A) on the gable end of a structure or away from the structure;

(B) in a secondary containment structure that is installed in accordance with 9-303(f);

(C) in or under a shelter or enclosure with a roof; or

(D) in accordance with another method approved by the Secretary.

(11) Any aboveground storage tank system that includes more than one storage tank shall have, for each individual tank, a separate fill pipe, a separate fuel volume gauge, a separate vent pipe, and a separate vent alarm, each of which comply with the requirements of this section. The separate vents may be plumbed or manifolded together inside the building and tied into one outlet vent pipe that goes to the outside of the structure, provided that:

(A) the outlet pipe is at least one pipe size larger than the largest individual vent pipe connected thereto; and

(B) the point of connection between two or more vent pipes shall not be lower than the top of the fill pipe opening on the tank.

(12) Any new tank where the tank gravity feeds to a fuel burning appliance shall be installed with an anti-siphon valve at the tank.

(13) Any new tank must have tank legs that are no longer than 14 inches, unless approved by the Secretary in writing prior to the tank's installation.

~~(b) Tank systems in a structure. All tank systems located inside a structure shall comply with the provisions of this subsection, as follows:~~

- (1) ~~The tank shall be located on the lowest floor of the structure unless the installation meets an exception recognized by a method in § 9-304(a) of this section.~~
- (2) ~~The tank shall be equipped with an accessible shutoff valve located within 12 inches of the fuel outlet of the tank. The valve shall be a positive shutoff valve designed solely for the purpose of shutting off the supply of heating fuel, motor fuel, or used oil.~~
- (3) ~~The tank shall be equipped with a vent line that terminates outside the structure.~~
- (4) ~~The tank shall be equipped with a vent alarm or "whistle" that terminates near the fill pipe. Vent pipes shall terminate not more than 12 feet from the fill pipe and at a point visible from the fill port.~~
- (5) ~~The fill pipe and the vent pipe shall be sized at least 1 1/4 inches in diameter and terminate outside the structure. All new installations shall also be equipped with fill and vent piping constructed in accordance with § 9-303(a) of these rules. The fill pipe shall have a liquid-tight cap and the vent pipe shall have a weatherproof and insect-proof cap.~~
- (6) ~~The tank vent pipe shall be sized in accordance with the corresponding NFPA minimum diameter of tank vent opening.~~
- (7) ~~The tank shall be equipped with a device to gauge fuel volume.~~
- (8) ~~All piping installed below grade shall be installed with a plastic coating or a continuous protective sleeve made of a non-corrodible material to prevent corrosion. The protective sleeve shall start and terminate aboveground. For all new installations, all piping below grade shall be installed with a plastic coating and a continuous protective sleeve made of non-corrodible material. Fittings shall not be installed below grade in any piping, coating, or sleeve. Directly burying unprotected piping into the ground is prohibited.~~
- (9) ~~All tanks shall be installed on a stable foundation, such as a concrete pad, that is adequate to prevent the tank from tipping over. For all new installations, the foundation shall be made of concrete, be at least 4 inches in depth, and be sized to have a footprint that exceeds the length and width dimensions of the tank by a factor of 10 percent (see Note below for example). A foundation of alternative material and/or size may be utilized with prior written approval by the Secretary.~~

~~Note: For a 275-gallon tank with dimensions of 44 inches (height) by 27 inches (width) by 60 inches (length), the foundation footprint shall measure at least 4 inches deep and 30 inches (width) by 66 inches (length).~~

- ~~(10) A tank system that includes more than one storage tank shall have, for each individual tank, a separate fill pipe, a separate fuel volume gauge, a separate vent pipe, and a separate vent alarm, each of which comply with the requirements of this section. The separate vents may be plumbed or manifolded together inside the building and tied into one outlet vent pipe that goes to the outside of the structure, provided that:~~
- ~~(A) the outlet pipe is at least one pipe size larger than the largest individual vent pipe connected thereto; and~~
 - ~~(B) the point of connection between two or more vent pipes shall not be lower than the top of the fill pipe opening.~~
- ~~(e) Tank systems outside a structure. All tank system located outside of a structure shall comply with the provisions of this subsection, as follows:~~
- ~~(1) The tank system shall be protected from physical damage caused by snow or ice. Compliance with this subsection shall require location of a tank system:~~
 - ~~(A) on the gable end of a structure;~~
 - ~~(B) in a secondary containment structure that is installed in accordance with **subsection (f) of this section**;~~
 - ~~(C) in or under a shelter or enclosure with a roof; or~~
 - ~~(D) in accordance with another method approved by the Secretary.~~
 - ~~(2) All tanks shall be installed on a stable foundation, such as a concrete pad, that is adequate to prevent the tank from tipping over. For all new installations, the foundation shall be made of concrete, be at least 4 inches in depth, and be sized to have a footprint that exceeds the length and width dimensions of the tank by a factor of 10 percent (see Note below for example). A foundation of alternative material and/or size may be utilized with prior written approval by the Secretary.~~

Note: For a 275-gallon tank with dimensions of 44 inches (height) by 27 inches (width) by 60 inches (length), the foundation footprint shall measure at least 4 inches deep and 30 inches (width) by 66 inches (length).

- ~~(3) The tank shall be equipped with an accessible shutoff valve located within 12 inches of the fuel outlet of the tank. The valve shall be a positive shutoff valve designed solely for the purpose of shutting off the supply of heating fuel, motor fuel, or used oil.~~
- ~~(4) All piping installed below grade shall be installed with a plastic coating or a continuous protective sleeve made of a non-corrodible material to prevent corrosion. The protective sleeve shall start and terminate aboveground. For all new installations, all piping below grade shall be installed with a plastic coating and a continuous protective sleeve made of non-corrodible material. Fittings shall not be installed below grade in any piping, coating, or a sleeve. Directly burying unprotected piping into the ground is prohibited.~~
- ~~(5) A tank system that includes more than one storage tank shall have, for each individual tank, a separate fill pipe, separate fuel volume gauge, separate vent pipe, and a separate alarm, each of which comply with the requirements of this section. The separate vents may be plumbed or manifolded together outside the building and tied into to a common outlet vent pipe, provided that:
 - ~~(A) the outlet pipe is at least one pipe size larger than the largest individual vent pipe connected thereto; and~~
 - ~~(B) the point of connection between two or more vent pipes shall not be lower than the top of the fill pipe opening.~~~~
- ~~(6) The tank shall be equipped with a vent alarm or "whistle" that terminates near the fill pipe. Vent pipes shall terminate not more than 12 feet from the fill pipe and at a point visible from the fill port.~~
- ~~(7) The fill pipe and the vent pipe shall be sized at least 1 1/4 inches in diameter and terminate outside the structure. All new installations shall also be equipped with fill and vent piping constructed in accordance with **§ 9-303(a) of these rules**. The fill pipe shall have a liquid-tight cap and the vent pipe shall have a weatherproof and insect-proof cap.~~
- ~~(8) The tank vent pipe shall be sized in accordance with the corresponding NFPA minimum diameter of tank vent opening.~~

- ~~(9) The tank shall be equipped with a device to gauge fuel volume.~~
- (d) Date of installation. ~~All new installations (tanks and tank systems installed on or after the effective date of these rules)~~ All aboveground tanks and tank systems installed on or after August 15, 2017, shall be visibly identified with the date of tank installation. The visible identification shall be in the form of a tag, sticker, or other marker that is permanently affixed to the tank and that clearly identifies the date of installation of the tank system. The tag or sticker shall be located on the tank such that it is clearly visible and unobstructed from view.
- (e) Tank systems at marinas. All aboveground storage tank systems located at marinas shall be installed and shall be operated in accordance with the Petroleum Equipment Institute's Publication PEI/RP 1000-09: **"Recommended Practices for the Installation of Marina Fueling Systems."** All new ~~installations-tanks~~ at marinas shall also employ secondary containment consistent with **§ 9-303(g), subdivision (f) of this section.**
- (f) Secondary containment systems.
- (1) Applicability. Secondary containment systems shall be required for all new ~~installations-tanks~~ at marinas. Secondary containment systems may also be utilized as a method of compliance with **§ 9-303(c)(10), subdivision (e)(1) of this section.**
- (2) Requirements for installation and construction. Secondary containment systems shall be installed and constructed in accordance with manufacturer instructions and specifications.
- ~~(g) Tank Foundations. As of July 1, 2030, all tanks that are existing as of the effective date of these rules shall be located on a stable foundation that is adequate to prevent the tank from tipping over. The foundation shall be made of concrete, and be constructed to be at least 4 inches in depth, and sized to have a footprint that exceeds the length and width dimensions of the tank by a factor of 10 percent. A foundation of alternative material and/or size may be utilized with prior written approval by the Secretary.~~
- (g) Additional requirements for existing aboveground storage tank systems.
- (1) Tank foundations. Not later than July 1, 2030, all aboveground storage tank systems shall comply with requirements of § 9-303(c)(1)(B).**

- (2) Fill and vent pipes. Not later than July 1, 2030, all aboveground storage tank systems where the tank fill and vent pipes were made of PVC or other non-metallic material shall comply with requirements of § 9-303(c)(4)(B).
- (3) Tank piping and fuel lines. Not later than July 1, 2030, all aboveground storage tank systems where tank piping and fuel lines have direct contact with earthen materials or concrete shall comply with the requirements of § 9-303(e)(c)(8)(B).
- (4) Anti-siphon valve. Not later than July 1, 2030, any aboveground storage tank systems that gravity feed fuel burning appliances shall comply with the requirements of § 9-303(c)(12).
- (5) Tank legs. Not later than July 1, 2030, all aboveground storage tank systems shall comply with the requirements § 9-303(c)(13). A request for exemption from this requirement may be submitted to the Secretary in writing and will be considered on a case-by-case basis.

§ 9-3045 INSTALLATION OF TANK SYSTEMS IN FLOOD PRONE AREAS

- (a) In addition to meeting the requirements of ~~§§ 9-302 and 9-303, and 9-304 of these rules~~, all new ~~installations~~ tanks located in a flood hazard area as defined in **10 V.S.A. § 752** shall meet the following to prevent tank floating and to prevent releases in high water or flooding conditions:
 - (1) Tanks located inside a structure:
 - (A) The tank vent pipe shall be of sufficient length to extend above the level of a projected flood.
 - (B) The tank shall be anchored to the concrete pad or alternative foundation that has been approved by the Secretary through the use of one of the following methods:
 - (i) Foot flanges. For tanks with pipe legs on a foundation, foot flanges with threaded ends shall be connected to mating pipe ends. Each foot flange shall be secured to the supporting surface with concrete bolts or screws;

- (ii) Concrete anchors. For tanks with saddles or pipe legs for new surfaces in combination with hold-down straps, concrete anchors with a means for attaching the strap end shall be cast into the supporting surface. The anchors shall be positioned at +/-4" of the tank support centerline and +/-4" of the tank width or diameter centerline;
 - (iii) Earth augers. For tanks with saddles or pipe legs for undersized pads in combination with hold-down straps, earth augers with a means for attaching the strap end shall be installed under the concrete slab. The augers shall be positioned at +/-4" of the tank support centerline and +/-4" of the tank width or diameter centerline; or
 - (iv) Any other method recommended by the tank manufacturer or tank installer that is based on the tank installation type, supporting surface, and other appropriate considerations.
- (C) Hold-down straps used with a concrete anchor or earth auger methods ~~specified in subsections §§ 9-304(a)(1)(B)(ii) or 9-304(a)(1)(B)(iii) of this subsection~~ shall have a means at each end to connect to fixed attachment points and shall have a means to tighten the strap (e.g., a turnbuckle). Straps shall be positioned over the tank at the anchor points, but shall not interfere with used openings.
- (2) Tanks located outside a structure. ~~Where possible, n~~New tanks installations located outside a structure shall comply with the criteria for aboveground storage tank tanks systems located inside a structure listed above in ~~subsection §§ 9-304(a)(1)(A) through 9-304(a)(1)(C)~~ to prevent product loss and damage to the tank system. An exemption from this requirement may be requested from the Secretary and shall be approved on a case-by-case basis.

Note: Information pertaining to flood hazard areas and projected flood levels can be found at the FEMA Map Service Center (Flood Insurance Rate Maps) – <https://msc.fema.gov>. These maps can also be found on the ANR Natural Resources Atlas.

Note: Where applicable, the Agency encourages contractors and other parties to refer to the **National Oilheat Research Alliance (NORA) Recommended Practice for Home Heating Oil Tank Flood Resistance** for guidance on the construction of anchoring systems and other work to aboveground storage tank systems located within a flood hazard area.

§ 9-3056 INSPECTION OF TANK SYSTEMS

- (a) Applicability. With the exception of tank systems used for storing used oil, As of the effective date of these rules, all storage tank systems shall be inspected by the fuel carrier at least once during every three-year period in accordance with the requirements of this section.
- (b) Frequency of inspections. ~~A an aboveground storage tank system shall be inspected at the following times, where applicable:~~
- (1) Immediately after the installation of a new tank system installation but prior to the initial delivery of fuel;
 - (2) Immediately after initial delivery of fuel to a new the tank system;
 - (3) Prior to the initial delivery of fuel to the aboveground storage tank system when the tank owner switches fuel carriers;
 - (4) If not otherwise required under §§ 9-305(b)(1), 9-305(b)(2), or 9-305(b)(3) subdivisions (1), (2), or (3) of this subsection, the aboveground storage tank system shall be inspected once every three years; and
 - (5) Upon removal of a tank system under § 9-3067 of these rules.
- (c) Inspection standards. ~~Tank Aboveground storage tank systems shall be visibly inspected for compliance with the following standards:~~
- (1) ~~All applicable Tank foundation requirements of § 9-303(c)(1), § 9-304(b)(9) for tanks located in a structure, and of § 9-304(e)(2) for tanks located outside a structure. A tank foundation shall be determined to be stable under these provisions if all the following conditions are present:~~
 - (A) ~~the tank is free standing;~~
 - (B) ~~measurements taken on the tank's length and width dimensions show the absence of the tank tilting, taking into account any industry accepted design or installation specifications; and~~
 - (C) ~~there is no evidence of tank subsidence (i.e., no contact between the tank or tank legs and the ground surface).~~

- (2) ~~All applicable below grade Piping and fuel lines requirements of § 9-303(c)(8), 9-304(b)(8) for tanks located in a structure, and of § 9-304(e)(4) for tanks located outside a structure.~~
- (3) ~~The overflow vent alarm or whistle requirements of § 9-303(c)(2), 9-304(b)(4) for tanks located in a structure, and of § 9-304(e)(6) for tanks located outside a structure.~~
- (4) ~~All applicable Tank vent and fill pipe size, design, and capping requirements of §§ 9-303(c)(4) and 9-303(c)(5), 9-304(b)(5) and 9-304(b)(6) for tanks located in a structure, and of § 9-304(e)(7) and § 9-304(e)(8) for tanks located outside a structure;~~
- (5) The entirety of the tank surface and tank legs are free of any cracks and of significant corrosion or pitting, rust, and spores; dents or bulges; and all tank fuel filter, fittings, and valves are free of drips or leaks and any other sign of an actual or suspected release of hazardous material.
- (6) ~~The shutoff valve requirements of § 9-303(c)(3), 9-304(b)(2) for tanks located in a structure, and of § 9-304(e)(3) for tanks located outside a structure.~~
- (7) ~~There are no unused openings in the tanks (All unused openings are fully and permanently closed or plugged), in accordance to § 9-303(c)(7).~~
- (8) The requirements of ~~§ 9-303(b)(13)~~ for tank leg length.
- (9) The aboveground storage tank system is equipped with a device to gauge fuel volume in accordance with ~~§ 9-303(c)(6), 304(e)(9).~~
- (10) For aboveground storage tank systems tanks located outside a structure, the requirements of ~~§ 9-303(c)(10) 304(e)(1)~~ (for protection from damage from snow and ice).
- (11) For aboveground storage tank systems located inside a structure, the requirements of § 9-303(e)(9) (installation on lowest floor of structure).
- ~~(11)~~(12) For aboveground storage tank systems that gravity feed a fuel burning appliance, the requirements of § 9-303(e)(12).
- (13) For aboveground storage tank systems that include more than one storage tank, requirements of § 9-303(c)(11).

(d) Inspectors. Inspections of aboveground storage tank systems shall be conducted by an inspector that maintains one of the following:

- (1) a NORA Gold, Bronze, or Silver certification;
- (2) a Vermont Oilheat Certificate of Fitness; or
- (3) a certificate of completion from an Oilheat Tank Seminar, which has been approved by NORA.

(e) Inspection checklist and photo documentation of noncompliance.

- (1) Inspectors shall utilize an inspection checklist for performing each aboveground storage tank system inspection. The checklist shall be on a form provided by the Secretary or pre-approved by the Secretary and shall be used by the inspector to document the age and condition of the aboveground storage tank system as of the time of the inspection. The checklist shall document any issues identified in the inspection which indicate an actual or suspected release of fuel and any noncompliance with the requirements and standards of ~~§ 9-305(c) of these rules~~, and shall include measures recommended by the inspector that are necessary to return the aboveground storage tank system to compliance.
- (2) Within five business days of the date of inspection, ~~t~~The tank inspector shall provide a copy of the inspection checklist completed in accordance with ~~subdivision § 9-305(e)(1) of this subsection~~ to the tank owner ~~within two business days of the date of inspection.~~
- (3) For aboveground storage tank system determined to be noncompliant per § 9-305(f)(2), the tank inspector shall photo document all noncompliant tank components.

(f) Non-compliant tanks.

- ~~(f)~~(1) Existing tanks. If ~~a~~ an aboveground storage tank system is determined to be non-compliant with the standards of ~~§§ 9-305(c)(1) through 9-305(c)(5) of these rules~~, the inspector shall include such results in the inspection checklist and take the following measures:

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- ~~(A)~~ Red Tag. The inspector shall immediately affix a “Do Not Fill” red tag ~~or other visible designation~~ onto the aboveground storage tank system to indicate that the tank system is noncompliant with the requirements and standards of ~~§§ 9-305(c)(1) through 9-305(c)(5) of these rules~~ and shall not be filled. A red tag ~~or other visible designation~~ shall be affixed to the tank and the tank fill port, and shall be clearly visible and unobstructed from view.
- (B) Yellow Tag. The tank inspector may affix a “Conditional Fill” yellow tag to the tank and tank fill port in lieu of a red tag if the sole reason for noncompliance with the requirements and standards of §§ 9-305(c)(1) through (c)(5) does not constitute an immediate threat of a release of a petroleum product.
- (i) A yellow tag may be used only for noncompliance with the following aboveground storage tank system inspection standards:
- I. Tank piping which is in contact with earthen materials or concrete is coated or sleeved to protect against corrosion and damage, per standards of § 9-305(c)(2).
 - II. For aboveground storage tank systems located outside a structure, vent line is equipped with an operational overfill vent alarm or whistle, per standards listed in § 9-305(c)(3). Aboveground storage tank systems located indoors and lacking an operational vent alarm or whistle shall not be yellow tagged.
 - III. Fill and vent diameter is a minimum 1 ¼ inches, per standards of § 9-305(c)(4).
 - IV. The aboveground storage tank system is free of visible dents and bulges; the tank has no evidence of leak at the fill or vent pipe, and the tank and tank legs are free of moderate rust and pitting.
- (C) Affixing a yellow tag to any aboveground storage tank system found out of compliance with any items other than those listed in § 9-305(f)(2)(A) is prohibited.
- (D) Aboveground storage tank systems with yellow tags may only be filled per conditions specified in § 9-305(i).

(E) All yellow tags installed leading up to or during the current heating season will expire on the first day of May. Yellow tags shall not be renewed.

(F) Upon the expiration of the yellow tag, the aboveground storage tank system is noncompliant with the requirements and standards of §§ 9-305(c)(1) through (c)(5) and may not be filled. Filling an aboveground storage tank system with an expired yellow tag is prohibited.

~~(A)~~(G) Yellow tags are applicable only to tanks located on and serving a residential property. Application of a yellow tag to a tank used for non-residential purposes is prohibited.

(2) New tanks. If a new tank is determined to be noncompliant with any standards of § 9-305(c), the inspector shall include such results in the inspection checklist and shall immediately affix a “Do Not Fill” red tag onto the new tank. A red tag shall be affixed to the tank and the tank fill port and shall be clearly visible and unobstructed from view.

~~(2)~~(3) Within two-five working business days of the date of the inspection resulting in a red or yellow tag, the inspector shall enter the following information into the Secretary’s database for tracking aboveground storage tank compliance:

- (A) Name of the aboveground storage tank system owner;
- (B) Location of the aboveground storage tank system (physical address and city);
- (C) Capacity of aboveground storage tank system inspected;
- (D) Name, company, and contact information of technician that performed the inspection of the aboveground storage tank system;
- (E) The date of inspection and date of application of the red or yellow tag ~~or other visible designation~~;
- (F) Reason for non-compliance; ~~and~~
- (G) Measures recommended by inspector to address noncompliance; and-

- (H) For aboveground storage tank systems that have been affixed with a yellow tag, a written explanation documenting the grounds for being granted a yellow tag.

Note: The Secretary's database for aboveground storage tanks is located at: <https://anrweb.vt.gov/DEC/ERT/AST.aspx>

- (g) ~~Return to compliance; removal of visible designation. A red tag or other visible designation required to be affixed to a tank under this section may be removed if the results of a follow-up inspection demonstrate that the measures taken to address the identified noncompliance are sufficient to bring the tank and tank system into compliance with §§ 9-306(c)(1) through (c)(5) of these rules.~~
- (1) Existing tanks. A red or yellow tag required to be affixed to an aboveground storage tank system under this section may be removed if the results of a follow-up inspection demonstrate that the measures taken to address the identified noncompliance are sufficient to bring the tank system into compliance with §§ 9-305(c)(1) through 9-305(c)(5).
- (2) New tanks. A red tag required to be affixed to an aboveground storage tank system under this section may be removed if the results of a follow-up inspection demonstrate that the measures taken to address the identified noncompliance are sufficient to bring tank system into compliance with §§ 9-305(c).
- (h) Prohibition of fuel delivery. No person shall deliver fuel to an aboveground storage tank system which has an affixed "Do Not Fill" red tag and/or has been reported to the State AST Red Tag database been visibly designated as noncompliant with the requirements of these rules. No person shall deliver fuel to an aboveground tank system that has not been inspected per § 9-305(a).
- (i) Conditional fuel delivery. Fuel may be delivered to an aboveground storage tank system that has an affixed yellow tag only under the following conditions:
- (1) Maximum of 100 gallons per delivery; and
- (2) Fuel delivery rate shall not exceed five gallons per minute.

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(i) Recordkeeping requirements. Inspectors shall retain copies of all completed ~~all~~ inspection checklists per § 9-305(e)(1), photo documentation per § 9-305(e)(3), and other records used to document aboveground storage tank system compliance in accordance with this section for a period of three years. Copies of inspection checklists, photo documentation, and other records maintained under this provision shall be made available to the Agency upon request.

§ 9-3067 PROPER REMOVAL OF TANK SYSTEMS

(a) During the installation of an aboveground storage tank system, the installer shall ensure that the existing aboveground storage tank system is taken out of service and removed in accordance with one of the following methods:

- (1) NFPA 1 Uniform Fire Code (IFC);
- (2) NFPA Parts 30 & 31; or,
- (3) A similar method approved in writing by the Secretary.

(b) Removal of out-of-service aboveground storage tank systems.

(1) Any aboveground storage tank system including all piping, that is out-of-service for more than one year shall be removed ~~by the owner and the owner shall remove all piping at the same time.~~ For tank systems located in a structure, the fill pipe to the tank system shall be fully and permanently removed from the structure to prevent delivery to a disconnected system. The removed tank and piping shall be properly disposed of unless reused in accordance with ~~§ 9-306(c) subsection (c) of this section.~~

(2) During the removal of an aboveground storage tank system, the ~~facility tank system location~~ shall be inspected for an actual or suspected release of the substance stored in the tank system. The inspection shall include any aboveground, subsurface or other areas where contamination is likely to exist. If an actual release or suspected release is discovered, the owner ~~or carrier~~ shall comply with the requirements of ~~§ 9-103 of these rules.~~

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(3) If the owner of any aboveground storage tank system that serves a structure converts the type of fuel used for the structure ~~from fuel oil or kerosene to natural gas~~ so that the structure is no longer served for any purpose by the aboveground storage tank system, the owner shall have the aboveground storage tank system ~~used to store fuel oil or kerosene~~ and any fill pipes removed at the same time as the heating type conversion in accordance with this section.

(c) Reuse of tank systems. Any aboveground storage tank system taken out of service shall be rendered unusable unless the tank system is inspected pursuant to ~~§ 9-3056 of these rules~~ and is found to be in sound condition and otherwise compliant with these Rules, in which case, the tank system may be put back in service.

(d) Upon written request, the Secretary may conditionally approve ~~allow~~ an aboveground storage tank system that meets the standards of ~~§ 9-302, § 9-303, § 9-304,~~ and with ~~§ 9-3045~~ (when a tank is located in a flood prone area), and the inspection requirements of ~~§ 9-3056~~, to remain out-of-service for more than one year. The Secretary may condition approval under this section.

(e) When installing a replacement tank system, the fuel in the tank being replaced shall not be pumped into the replacement tank unless the tank being replaced is leaking or is likely to cause a release ~~in the near future~~. The fuel in the tank being replaced shall either be burned by the heating system prior to tank replacement or, if pumped into the replacement tank, shall be treated with a fuel conditioner that contains the following components: stabilizer (to keep fuel fresh during summer storage), dispersant (to arrest moisture and pre-existing sedimentation), corrosion inhibitor (to protect storage tank and remainder of the fuel system) and metal deactivator (to protect against fuel blackening from contact with yellow metals).

Note: Unused fuel in tanks that are replaced that is not burned prior to new tank installation or is not treated by a fuel conditioner shall be managed in accordance with the Vermont Hazardous Waste Management Regulations.

§ 9-3078 ADDITIONAL REQUIREMENTS FOR BULK STORAGE FACILITIES

- (a) Prior to a new installation of an aboveground storage tank system at a bulk storage tank facility, the installer shall submit a **Vermont Aboveground Storage Tank Registration Form** (provided by the Secretary) completed in accordance with the form's instructions. Installers of aboveground storage tank systems at more than one bulk storage facility location shall file a separate form for each location.

Note: An installer may register several aboveground storage tank systems at one location using one form.

- (b) At the time a tank is taken out of service at a bulk storage tank facility, the owner shall conduct a site investigation consistent with the requirements of **§ 9-301(c)** ~~of these rules~~.
- (c) No aboveground bulk storage facility shall be located:
- (1) Within the Source Protection Area of a public community water system or public non-transient, non-community (NTNC) water system using a groundwater source;
 - (2) Within Zone 1 or Zone 2 of a Source Protection Area of a public community water system or NTNC water system using a surface water source except that the Secretary may, on a case-by-case basis, make a determination that an aboveground storage tank may be sited in the Zone 2 of a source protection area of a water system using a surface water source;
 - (3) Within 200 feet of a public transient, non-community (TNC) water system source;
 - (4) Within 100 feet of any private drinking water supply source;
 - (5) Within 25 feet of any public water distribution line; or
 - (6) In any area designated as a Class I or Class II groundwater zone.