

NATURAL RESOURCES CONSERVATION SERVICE
CONSERVATION PRACTICE STANDARD
RHODE ISLAND
INTERIM STANDARD
AGRICULTURAL FUEL CONTAINMENT FACILITY

(No.)

CODE 701 I

DEFINITION

Permanently located above ground structures designed to provide: storage; storage and secondary containment; or secondary containment of on-farm fuel. The storage tanks have mounted dispensers and exposed piping.

Inspection, Above Ground Storage Tank Program, 235 Promenade Street, Providence, RI 02908-5767, 401-222-1360).

Fuel Storage Facility

PURPOSE

To minimize risk of accidental release of stored fuels used in agricultural operations into ground and surface waters. This practice does not address the removal of old tanks.

1. Storage tank will meet or exceed current industry and regulatory standards.
2. Containment systems shall be manufactured or fabricated for the purpose of containing fuel.
3. Secondary containment shall be double walled tank or an impermeable structural barrier containing 110% capacity of the original storage. Earthen barriers shall not be used. Rain or snow shall be prevented from accumulating in the outside barrier of the containment.
4. Tanks shall be located on a concrete surface where leaks can be detected and the surface shall extend a minimum distance of 2 feet beyond the outside dimension of the tank. A similar surface shall be beneath the vehicle filling area. The concrete surface shall be grooved to contain minor spills.

CONDITIONS WHERE PRACTICE APPLIES

On farms where fuel storage facilities are to be installed and where the combined bulk storage on the farm is less than or equal to 1100 gallons of permanent storage.

5. The fuel storage facility shall be protected from accidental contact by vehicles, tractors and other farm equipment.
6. Roofs will be required over all structures that are not double walled or impermeable.

CRITERIA

Structures and their siting shall comply with all federal, State, and local laws and regulations. All structures containing 500 or greater gallons of permanent storage shall comply with RI DEM *Oil Pollution Control Regulations* (Chapters 46-1.2, 42-17.1 and 42-35 of the General Laws of RI, as amended).

All 500 or more gallon structures will be required to be registered prior to construction by the owner/operator under the RI DEM *Above Ground Storage Tank* registration program (RI DEM, Bureau of Environmental Protection, Office of Compliance and

Safety

1. Fuel storage facilities shall be properly marked with signs. A no smoking sign shall be placed near the fueling area. Fill ports shall be painted with the proper paint code: Gasoline-Red, Diesel-Yellow and Kerosene-Brown. The contents and capacity of the fuel tank shall be clearly identified on the outside of the tank.
2. Develop a contingency plan to address the event of accidental spillage.

CONSIDERATIONS

1. Evaluate the potential risk to water quality associated with agricultural fuel storage planned or present on the farm.
2. Avoid areas:
 - where risk of vandalism would be high;
 - closer than 300 feet from a well
 - closer than 25 feet to major traffic patterns and/or
 - closer than 25 feet to any building
3. To facilitate leak detection, locate tanks on a concrete pad.
4. Contact insurance carrier regarding placement of tanks near buildings.
5. Fuel tanks should have a fuel level gauge and all piping and connections to tanks should be at the top centerline of the tanks to avoid leaks.
6. Install automatic shutoff valves on electrically operated dispensers.
7. When buried tanks need to be removed, the job should be accomplished by a qualified tank remover, according to State and Federal regulations, and contaminated material disposed of according to law.

PLANS AND SPECIFICATIONS

Plans and specifications for constructing this practice shall be prepared in accordance with the criteria contained in this standard and shall

describe the requirements for applying the practice to achieve its intended purpose.

OPERATION AND MAINTENANCE

Storage tanks shall be inspected monthly and before each filling.

Look for:

- Leaks;
- rust or corrosion;
- accumulation of trash or weeds;
- proper labeling and signage; and
- condition of valves, fittings and hoses.

Perform maintenance as needed. Records of inspection and repair will be kept.

REFERENCES

RI DEM *Oil Pollution Control Regulations* (Chapters 46-1.2, 42-17.1 and 42-35 of the General Laws of RI, as amended) shall apply on farms that have more than 500 gallons of petroleum bulk storage.

Underwriters Laboratories, Standard No.142, "Standard For Steel Aboveground Tanks for Flammable and Combustible Liquids".

American Petroleum Institute (API) Standard No. 6720, "Recommended Rules for Design and Construction of Large Welded, Low Pressure Storage Tanks".

Leaks, Spills, And Accidents Management Catalogue For Nonpoint Source Pollution And Water Quality Protection In New York State, June 1996.