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BULLETIN NO.

95-1C

Date: **September 1995** Subject: **Installation of Underground Storage Tanks Regulated by the DEP**

Under legislation passed in September 1986, the New Jersey Department of Environmental Protection (DEP) has written regulations governing the permitting, installation, construction standards, and procedures for closure of underground storage tanks. The Uniform Construction Code (UCC) has been amended to reflect these rules at N.J.A.C. 5:23-3.11B. Code officials have the responsibility for seeing that tank projects conform to the UCC and DEP rules that are adopted by reference.

This bulletin contains a checklist to be used for the installation of underground storage tanks that are under the jurisdiction of the DEP. The table below describes tanks that are regulated by the Bureau of Underground Storage Tanks.

Material Stored	Type of Facility	Quantity Stored
Heating Oil	Commercial Sales Distribution and Processing	Any amount
Heating Oil	Nonresidential On-Site Consumptive Use	2,001 gallons or more aggregate nominal tank capacity on site
Motor Fuel (gasoline, diesel, etc.)	Farm or Residential Noncommercial Gallons	More than 1,100 gallons aggregate nominal tank capacity on site
Motor Fuel	All others	Any amount
All Other Hazardous Chemicals and Wastes	All	Any amount

The checklist must be completed and kept with other permit information. Note that certain items, which are discretionary under NFiPA 30, are mandatory under the DEP rules for certain kinds of tanks. Code officials are urged to be diligent in filling out checklists; however, they are also urged to make sure that the information is complete and correct. Any doubts about what is presented at a site should be resolved by calling the Bureau of Underground Storage Tanks at (609) 984-3156. Its technical staff is available to help you complete checklists and answer any questions you may have. Any other questions may be directed to the Code Assistance Unit at the Department of Community Affairs.

BULLETIN



**CHECKLIST FOR THE INSTALLATION OF UNDERGROUND STORAGE TANKS  
(USTs)**

Owner of the Tank: \_\_\_\_\_  
Address of the Site: \_\_\_\_\_  
Lot and Block No.: \_\_\_\_\_  
Certified Contractor: \_\_\_\_\_

Check off items, except where another response is requested. Listed hazardous chemicals which are not flammable or combustible are only required to comply with items 2, 3, 5, and 7. The remaining procedures are, however, still recommended for all USTs. The documents listed in parentheses should be consulted for further instructions.

**Plan Review**

1. Proposed UST system is intended to:
  - a. Store motor fuel (farm and residential tanks under 1,101 gallons exempt).
  - b. Store hazardous chemicals (list available).
  - c. Store heating oil for resale.
  - d. Store heating oil for on-site consumption at commercial facilities.
  - e. Other \_\_\_\_\_ (specify substance).
2. The UST system (T-tank, P-piping) is proposed to be made of the following materials (N.J.A.C. 7:14B-4) TP:
  - a. Fiberglass reinforced plastic (FRP).
  - b. FRP-coated steel.
  - c. Cathodically protected steel.
  - d. Other \_\_\_\_\_ (must be pre-approved by the DEP).

UST systems within categories 1a, 1b, and 1c must be made of materials listed in 2a, 2b, 2c, or 2d under Federal Law [40 CFR 280.20(B)].

3. The UST system's contents are reported to be chemically compatible with the substance to be stored (N.J.A.C. 7:14B-4). [Guidelines available -- call (609) 984-3156 for more specific information.]
4. Proposed amount of backfill and paving are appropriate for traffic conditions. Minimum depths assume no anchoring. (NFIPA 30, 2-3 and 3.41/PEI, Chap. 3)

Non-Traffic Area	Traffic Area
<input type="checkbox"/> 2' cover, no paving	<input type="checkbox"/> 18" fill, 8" asphalt
<input type="checkbox"/> 1' fill, 4" reinforced concrete	<input type="checkbox"/> 18" fill, 6" reinforced concrete
	<input type="checkbox"/> 36" cover, no paving

5. Air pollution control permits are prior approvals necessary for all USTs with a capacity of 2,000 gallons or more which also contain volatile organic substances (including petroleum products). More information is available from the DEP's Bureau of New Source Review at (609) 633-2753.
- Permit necessary                       Permit not necessary
6. Anchoring is proposed because of known high water table and/or flooding conditions (N.J.A.C. 7:14B-4.34):
- Yes     No
7. USTs regulated under State Law must be registered with the DEP 30 days prior to being put into use. More information is available from the DEP's Bureau of Applicability and Compliance at (609) 633-7141 or (609) 984-3156 (N.J.A.C. 7:14B-2.1).
- UST is registered                       UST will be registered

**Pre-Installation Inspection**

8. Verified that UST systems materials are those on the approved plan.
9. Observed soaping performed on tank at conclusion of one-hour pressure test at 3-5 PSI (Pass or Fail). If official does not witness the test, is there a certification from the installer? (N.J.A.C. 7:14B-4.3)
10. Noted if repairs were made by the contractor on defective tanks and/or piping (Yes or No - not defective according to contractor). (NFiPA 30, 2-7.4/PEI, Chap. 2.4)

**Installation Inspection**

11. Observed that the dimensions and preparation of the excavation (e.g., level and free of debris) are appropriate for the UST system. (PEI, Chap. 3)
12. Anchoring was performed because:
- a. A persistent or occasional high water table exists.
- b. The area is potentially subject to flooding.
- c. Anchoring was not performed because 12a and 12b do not exist at the facility, as determined by the applicant.
- d. Other \_\_\_\_\_ (specify).
13. The proper type of backfill was used (PEI, Chap. 4):
- a. FRP (Circle one: Crushed rock, Pea gravel).
- b. Steel (Circle one: Clean sand, Crushed rock, Pea gravel).
14. Observed backfilling in the critical regions of the tank (4 o'clock to 8 o'clock) for proper emplacement. (If official did not witness, is there certification from the installer?) (PEI, Chap. 8.7)
15. Observed soaping performed on piping at conclusion of one-hour air-pressure test at 1½ times the operating pressure (Pass or Fail). (If official did not witness, is there certification from the installer?) (NFiPA 30, 3.7.1/PEI, Chap. 8.7)