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BULLETIN NO.

95-1C

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

Reference: N.J.A.C. 5:23-3.11B;
N.J.A.C. 7:14B-4

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, Underground storage tank systems. Code officials have the responsibility for seeing that tank projects conform to the UCC and DEP rules that are adopted by reference. The DEP and the UCC have the same requirements. The code official is responsible for completing the checklists and enforcing the rules. Once these items have been performed, the code official has done his due diligence.

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 Site Remediation Program.

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 Purposes	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

* "All other hazardous chemicals and wastes" are listed at N.J.A.C. 7:1E, Appx A

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The checklist must be completed and kept with other permit information. Note that certain items that are discretionary under NFPA 30 are mandatory under the DEP rules for certain kinds of tanks. Code officials are urged to be diligent in filling out checklists and to make sure that the information is complete and correct. Any doubts about what is present at a site should be resolved by calling the Bureau of Risk Management, Initial Notice and Case Assignment at (609) 633-0610. Its technical staff is available to help you complete checklists and answer any questions you may have. Other questions may be directed to the Code Assistance Unit at the Department of Community Affairs.

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

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 1,101 gallons or less aggregate nominal tank capacity on site exempt).
 - b. Store hazardous chemicals and wastes (list available).
 - c. Store heating oil for resale or distribution.
 - d. Store heating oil for on-site consumption at nonresidential facilities (2,000 gallons or less aggregate nominal tank capacity on site exempt).
 - 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, Underground Storage Tank Systems: Design, Construction and Installation):
 - 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, Underground Storage Tank Systems: Design, Construction and Installation). [Guidelines available -- call (609) 984-3081 for more specific information.]
4. Proposed amount of backfill and paving are appropriate for traffic conditions. Minimum depths assume no anchoring. (NFPA 30, Section 23.5.2, Cover for Underground Storage Tanks, and PEI/RP 100-90, Chapter 3, Excavating)

Non-Traffic Area	Traffic Area
<input type="checkbox"/> 24" cover, no paving	<input type="checkbox"/> 18" fill, 8" asphalt
<input type="checkbox"/> 12" 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) 633-2829.
 Permit necessary Permit not necessary
6. Anchoring is proposed because of known high water table and/or flooding conditions (NFPA 30, Section 23.14, Underground Storage Tanks Located in Areas Subject to Flooding):
 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 Registration and Billing Unit at (609) 633-0719 (N.J.A.C. 7:14B-2.1, General registration requirements).
 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? (NFPA 30, Section 21.5, Testing Requirements for Tanks)
10. Noted if repairs were made by the contractor on defective tanks and/or piping (Yes or No - not defective according to contractor). (N.J.A.C. 7:14B-5.2 and PEI/RP 100-90, Chapter 2.4, Preinstallation Inspection)

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/RP 100-90, Chapter 3, Excavating)
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/RP 100-90, Chapter 4, Backfilling):
 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 placement. (If official did not witness, is there certification from the installer?) (PEI/RP 100-90, Chapter 8.7, Observation and Monitoring Wells)
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?) (NFPA 30, Section 21.5, Testing Requirements for Tanks, and PEI/RP 100-90, Chapter 9.7, Tightness Test for Piping)