

15A NCAC 02N .0907 NATIONAL CODES OF PRACTICE AND INDUSTRY STANDARDS

In order to comply with this Section, owners and operators shall comply with the following standards:

- (1) The most recent versions of the following national codes of practice and industry standards applicable at the time of UST system installation or replacement shall be used.
 - (a) American Concrete Institute (ACI) International 224R-01, "Control of Cracking in Concrete Structures." ACI International 224R-01, "Control of Cracking in Concrete Structures" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from ACI International at https://www.concrete.org/store/productdetail.aspx?ItemID=22401&Format=DOWNLOAD&Language=English&Units=US_AND_METRIC at a cost of seventy-nine dollars and fifty cents (\$79.50).
 - (b) ACI International 350-06, "Code Requirements for Environmental Engineering Concrete Structures." ACI International 350-06, "Code Requirements for Environmental Engineering Concrete Structures" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from ACI International at https://www.concrete.org/store/productdetail.aspx?ItemID=35006&Language=English&Units=US_Units at a cost of one hundred eighty-six dollars and fifty cents (\$186.50).
 - (c) American Petroleum Institute (API) Standard 570, "Piping Inspection Code: In-service Inspection, Repair, Alteration of Piping Systems." API Standard 570, "Piping Inspection Code: In-service Inspection, Repair, Alteration of Piping Systems." is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at https://www.techstreet.com/api/standards/api-570?product_id=1910713 at a cost of one hundred ninety-five dollars (\$195.00).
 - (d) API Recommended Practice 1110, "Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids or Carbon Dioxide." API Recommended Practice 1110, "Recommended Practice for the Pressure Testing of Steel Pipelines for the Transportation of Gas, Petroleum Gas, Hazardous Liquids, Highly Volatile Liquids or Carbon Dioxide" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at https://www.techstreet.com/api/standards/api-rp-1110-r2018?product_id=1852115 at a cost of one hundred three dollars (\$103.00).
 - (e) API Recommended Practice 1615, "Installation of Underground Hazardous Substances or Petroleum Storage Systems." API Recommended Practice 1615, "Installation of Underground Hazardous Substances or Petroleum Storage Systems" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at https://www.techstreet.com/api/standards/api-rp-1615?product_id=1780646 at a cost of two hundred twenty-two dollars (\$222.00).
 - (f) API Recommended Practice 1621, "Bulk Liquid Stock Control at Retail Outlets." API Recommended Practice 1621, "Bulk Liquid Stock Control at Retail Outlets" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at https://www.techstreet.com/api/standards/api-rp-1621-r2012?product_id=14616 at a cost of ninety dollars (\$90.00).
 - (g) API Recommended Practice 1631, "Interior Lining and Periodic Inspection of Underground Storage Tanks." API Recommended Practice 1631, "Interior Lining and Periodic Inspection of Underground Storage Tanks" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at https://www.techstreet.com/api/standards/api-rp-1631?product_id=913787 at a cost of ninety-four dollars (\$94.00).
 - (h) API Recommended Practice 1637, "Using the API Color-Symbol System to Identify Equipment, Vehicles, and Transfer Points for Petroleum Fuels and Related Products at Dispensing and Storage Facilities and Distribution Terminals." API Recommended Practice 1637, "Using the API Color-Symbol System to Identify Equipment, Vehicles, and Transfer Points for Petroleum Fuels and Related Products at Dispensing and Storage Facilities and Distribution Terminals" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from API Publications at

https://www.techstreet.com/api/standards/api-rp-1637?product_id=2110859 at a cost of seventy-nine dollars (\$79.00).

- (i) American Society of Mechanical Engineers (ASME) International: B31.4-2006, "Pipeline Transportation Systems for Liquids and Slurries." ASME International: B31.4-2006, "Pipeline Transportation Systems for Liquids and Slurries" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from ASME at <https://www.asme.org/codes-standards/find-codes-standards/b31-4-pipeline-transportation-systems-liquids-slurries> at a cost of two hundred forty-five dollars (\$245.00).
- (j) National Fire Protection Association (NFPA) 30, "Flammable and Combustible Liquids Code." NFPA 30, "Flammable and Combustible Liquids Code" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from National Fire Protection Association at <https://catalog.nfpa.org/NFPA-30-Flammable-and-Combustible-Liquids-Code-P1164.aspx?icid=D729> at a cost of seventy-seven dollars and fifty cents (\$77.50).
- (k) NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages." NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from National Fire Protection Association at <https://catalog.nfpa.org/NFPA-30A-Code-for-Motor-Fuel-Dispensing-Facilities-and-Repair-Garages-P1165.aspx?icid=D729> at a cost of fifty-two dollars (\$52.00).
- (l) NFPA 329, "Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases." NFPA 329, "Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from National Fire Protection Association at <https://catalog.nfpa.org/NFPA-329-Recommended-Practice-for-Handling-Releases-of-Flammable-and-Combustible-Liquids-and-Gases-P1287.aspx?icid=D729> at a cost of fifty-two dollars (\$52.00).
- (m) PEI: PEI/RP100, "Recommended Practice for Installation of Underground Liquid Storage Systems." PEI: PEI/RP100, "Recommended Practice for Installation of Underground Liquid Storage Systems" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Petroleum Equipment Institute at https://www.techstreet.com/pei/standards/pei-rp100-20?product_id=2183374 at a cost of one hundred ninety-five dollars (\$195.00).
- (n) PEI: PEI/RP1200, "Recommended Practice for Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities." PEI: PEI/RP1200, "Recommended Practice for Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Petroleum Equipment Institute at https://www.techstreet.com/pei/standards/pei-rp1200-19?product_id=2085907 at a cost of one hundred ninety-five dollars (\$195.00).
- (o) Steel Tank Institute (STI) ACT 100 F894, "Specifications for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks." Steel Tank Institute (STI) ACT 100 F894, "Specifications for External Corrosion Protection of FRP Composite Steel Underground Storage Tanks" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Steel Tank Institute, at <https://www.steeltank.com/Publications/STISPFASStore/ProductDetail/tabid/502/rvdsfpid/act-100-specification-for-external-corrosion-protection-of-frp-composite-steel-usts-f894-2/Default.aspx> at a cost of sixty dollars (\$60.00).
- (p) STI ACT 100-U F961, "Specifications for External Corrosion Protection of Composite Steel Underground Storage Tanks." STI ACT 100-U F961, "Specifications for External Corrosion Protection of Composite Steel Underground Storage Tanks" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Steel Tank Institute at

<https://www.steeltank.com/Publications/STISPFASStore/ProductDetail/tabid/502/rvdsfpid/act-100u-specification-for-external-corrosion-protection-of-composite-steel-underground-storage-tanks-f961-250/Default.aspx> at a cost of sixty dollars (\$60.00).

- (q) STI F922, "Specifications for Permatank." STI F922, "Specifications for Permatank" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Steel Tank Institute at <https://www.steeltank.com/Publications/STISPFASStore/ProductDetail/tabid/502/rvdsfpid/permatank-f922-specification-for-permatank-231/Default.aspx> at a cost of sixty dollars (\$60.00).
- (r) Underwriters UL 58, "Standard for Steel Underground tanks for Flammable and Combustible Liquids." UL 58, "Standard for Steel Underground tanks for Flammable and Combustible Liquids." is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=33920> at a cost of four hundred and two dollars (\$402.00).
- (s) UL 567, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP Gas." UL 567, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings Petroleum Products and LP Gas" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=27791> at a cost of seven hundred sixteen dollars (\$716.00).
- (t) UL 567A, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85)." UL 567A, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85)" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=29197> at a cost of five hundred and five dollars (\$505.00).
- (u) UL 567B, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil." UL 567B, "Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=29195> at a cost of four hundred and two dollars (\$402.00).
- (v) UL 971, "Standard for Nonmetallic Underground Piping for Flammable Liquids." UL 971, "Standard for Nonmetallic Underground Piping for Flammable Liquids" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from UL at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=7936> at a cost of four hundred and two dollars (\$402.00).
- (w) UL 971A, "Outline of Investigation for Metallic Underground Fuel Pipe." UL 971A, "Outline of Investigation for Metallic Underground Fuel Pipe" is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from UL at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=15373> at a cost of two hundred and twenty-five dollars (\$225.00).
- (x) UL 1316, "Standard for Fibre Reinforced Underground Tanks for Flammable and Combustible Liquids." UL 1316, "Standard for Fibre Reinforced Underground Tanks for Flammable and Combustible Liquids" is hereby incorporated by reference, including

subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=35172> at a cost of four hundred and two dollars (\$402.00).

- (y) UL 1746, "Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks." UL 1746, "Standard for External Corrosion Protection Systems for Steel Underground Storage Tanks." is hereby incorporated by reference, including subsequent amendments and editions. A copy may be obtained from Underwriters Laboratories at <https://www.shopulstandards.com/PurchaseProduct.aspx?UniqueKey=15742> at a cost of seven hundred ninety-eight dollars (\$798.00); and
- (2) Other appropriate codes or standards applicable at the time of UST system installation or replacement may be used provided they are developed by ACI, American National Standards Institute (ANSI), API, ASME, ASTM International, NFPA, National Leak Prevention Association (NLPA), PEI, STI and UL.

*History Note: Authority G.S. 143-215.3(a)(15); 143B-282(a)(2)(h);
Eff. November 1, 2007;
Readopted Eff. January 1, 2021.*