Playground Rules

A Review of Part B/C/D/H/I Changes

- Grammatical updates to sentence structures and wording will NOT be reviewed
- New or revised defined terms are utilized but specific wording will NOT be reviewed
- Only significant changes are highlighted; this is NOT a comprehensive summary of all requirements

BE KIND

PART B

BE
RESPECTFUL

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- New Tanks shall be equipped with a strike plate beneath all Tank openings
- Delivery drop tubes shall extend to no more than six inches from the Tank bottom and per manufacturer's specifications
- Manifolding of Regulated Substance piping under dispensers is prohibited (Part B 1.14.7)
- New requirements for piping run replacement (rigid, semi-rigid and flexible plastic piping) as specified in Part B 1.14.9 and 1.14.10
- New requirements for underground piping burial depth (Part B 1.15.4)

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Release Detection
  - Site Assessment and appropriate release detection is required for new UST system installed in or near an existing or previous UST system (Part B 1.12, 1.28.10 and 1.28.11)
  - Statistical Inventory Reconciliation (SIR) is not an approved release detection method for new Tanks (Part B 1.9.1.1.5) or Piping (Part B 1.18.2)
  - For Interstitial Monitoring and ATG Release Detection: Original test records or equivalent third party test reports that duplicate ATG console settings and test programming shall be made available to the Department upon request (Part B 1.9.4.3 and 1.9.5.1.3)

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Release Detection (continued)
  - Periodic interstitial release detection and annual monitoring equipment inspection records shall be maintained for a minimum of three years
  - Release detection equipment repair records shall be maintained for the time of ownership or operation of the UST system
  - Failure by Owners and Operators to maintain records of release detection monitoring and equipment inspection may require O/O's to conduct UST system tightness tests, inspections or indicated release investigations at their expense in accordance with Part E (Part B 1.18.4)

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Piping Requirements (Part B 1.19)
  - Continuous interstitial monitoring that complies with Part B 1.19.2.1 may be used in place of annual piping tightness test requirements (except for UST systems in a well head protection area)
  - Failure of any annual piping tightness test (mandatory or voluntary) shall be reported to the Department within 24 hours and test results submitted (Part B 1.19.2.3)

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Spill Prevention (Part B 1.21)
  - Any spill containment device installed around the vapor pipe shall have a minimum capacity of five gallons
  - All spill containment devices (single and double walled) shall be tested once every twelve months for tightness
  - Liquid and debris in any spill containment device (from routine testing or otherwise) shall be properly disposed in accordance with all local, state, and federal requirements

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Overfill prevention equipment (Part B 1.22)
  - Partial shutoff of flow at 95% full and complete shutoff of flow at 98% full
  - Audible and visual alarm shall trigger at 90% full or automated flow shutoff valve (for pressurized deliveries)
  - Vent line flow restrictors (ball float valves) for new UST systems are prohibited
  - Existing vent line flow restrictors (ball float valves) shall be removed not later than January 11, 2023 unless:
    - Overfill prevention equipment achieves partial shutoff of flow at 85% full and complete shutoff of flow at 88% full
  - Vent line flow restrictors (ball float valves) on existing UST systems shall not be used in conjunction with high level alarm overfull prevention methods
  - Inspection to ensure proper functioning and activation at the correct level shall occur once every three years; first inspection prior to October 13, 2021

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Sacrificial Anode Cathodic Protection Systems (Part B 1.24)
  - For UST 's less than 20,000 gal: minimum of three voltage readings shall be equally spaced along center line, including both ends and center
  - For UST 's greater than or equal to 20,000 gal: minimum of five voltage readings shall be equally spaced along center line, including both ends, center and two intermediate locations

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Containment Sump Testing Requirements (Part B 1.25)
  - Applies to all dispenser, tank top, transition and any other containment sumps as part of an UST System
  - Periodic testing required once every 36 months
  - Hydrostatic testing requirements
    - For post-construction testing: completely filled and held for 24 hours
    - For periodic testing: filled to a minimum of four inches above highest penetration fitting or sump sidewall seam and held for at least one hour

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Sensors Used for Release Detection (Part B 1.27)
  - Sensors in sumps or interstitial space shall be installed directly on the bottom at the lowest point
  - Sensors shall be monitored at a minimum of once every 30 days
- Repairs, Retrofits and Upgrades (Part B 1.28)
  - Repairs requiring post-construction testing must be approved by the Department prior to installation
  - Repair, retrofit and upgrade records shall be maintained for the time of ownership or operation of the UST system

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Used Oil UST Systems (Part B 1.29)
  - Tank capacities in Table 1 have changed which governs release detection requirements
  - Overfill prevention equipment
    - Audible and visual alarm shall trigger at 90% full
    - Inspection to ensure proper functioning and activation at the correct level shall occur once every three years; first inspection prior to October 13, 2021
  - Spill prevention equipment
    - Comply with Part B 1.21.2
    - All devices (single and double walled) shall be tested once every twelve months for tightness

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Emergency Generator UST Systems (Part B 1.30)
  - Used solely to power emergency generation equipment
  - Release detection requirements:
    - Single wall UST: monthly tank tightness testing per Part B 1.9.2.1.2; or
    - Double wall UST: continuous interstitial monitoring per Part B 1.9.2.1.1
  - Line leak detection – must meet 1/8" per foot slope requirement and one of the following:
    - STP used to convey a Regulated Substance to a day tank or emergency generator which discharges at atmospheric pressure shall meet the requirements of Part B 1.19.2 ; or
    - Emergency generator systems utilizing safe suction piping systems shall meet the requirements of Part B 1.17.1.1 and 1.20.1; or
    - Emergency generator systems with a foot valve (U.S. Suction) shall meet the requirements of Part B 1.17.1.2 and 1.20.2.

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Routine Inspection Requirements (Part B 1.31)
  - Performed once every 30 days
  - Inspect all access ports and drop tubes – tightly sealed and free of debris or blockage
  - Inspect all electronic, mechanical and hand held release detection equipment – ATG's, tank gauge sticks, groundwater bailers, alarms, unusual operating conditions, operability, serviceability, etc
  - Exception for STP Containment sumps – may be inspected once every twelve months IF:
    - Continuous interstitial monitoring is utilized (per Part B 1.19.1 and 1.19.2); and
    - Product, vent and vapor return piping is sloped back to the tank at 1/8" per foot (per Part B 1.14.3); and
    - Sump sensors are utilized for release detection (per Part B 1.27)

PART B SECTION 1

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Marina Fueling Facilities (Part B 1.33)
  - Existing and new UST systems must comply with NFPA 30A requirements
  - New UST systems or existing UST systems that undergo retrofit must comply with additional requirements:
    - Follow PEI RP 1000
    - Piping run replacement (rigid, semi-rigid and flexible plastic piping) per Part B 1.33.3.2 and 1.33.3.3

PART B SECTION 2

INSTALLATION, OPERATION AND MAINTENANCE OF STORING REGULATED SUBSTANCE INSTALLED PRIOR TO JANUARY 11, 2008 AND EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Applies to UST systems installed prior to January 11, 2008
- Majority of Part B Section 1.0 changes apply to UST systems regulated under Part B Section 2.0; see regulations for detailed exceptions to operation and maintenance requirements
- All retrofits and upgrades made to UST Systems under Part B Section 2.0 become subject to the requirements of Part B Section 1.0 (per Part B 2.29.1)
- Non-Liquid Tight Access Structures
  - All dispenser, tank top, transition and any other non-liquid tight access structures are prohibited after December 31, 2025.

PART B SECTION 3

CHANGE IN SERVICE REQUIREMENTS FOR UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Out of Service status is no longer associated with an empty UST system; new Section 6.0 addresses EMPTY UST systems
- For Out Of Service UST systems, must maintain:
  - Corrosion protection system (if applicable)
  - Release detection (tanks and piping)
  - Routine system testing
  - Leave vent pipes open and functioning
  - Cap and secure all pipe, pumps, manways and ancillary equipment
  - Routine inspections once every 30 days
  - Financial Responsibility is current
- After 12 months Out of Service, complete a site assessment (per Part B 3.4)
  - Discovery of release requires a hydrogeologic investigation and remedial action (per Part B 3.4.2.7)

PART B SECTION 4

REMOVAL OR CLOSURE IN PLACE REQUIREMENTS FOR UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Added reference standard PEI RP 1700 for *Closure of UST and Shop-Fab AST Systems*
- CHANGED Part B 4.3.1 and 4.3.2 to 14 days from 10 days
- ADDED "initiate" to emphasize that if there are signs of a release that Owners and Operators have a responsibility to at the minimum initiate a hydrogeologic investigation and remedial action (Part B 4.3.3)

PART B SECTION 5

CHANGE IN SUBSTANCE STORED REQUIREMENTS FOR UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Added reference standard PEI RP 1700 for *Closure of UST and Shop-Fab AST Systems*
- ADDED "initiate" to emphasize that if there are signs of a release that Owners and Operators have a responsibility to at the minimum initiate a hydrogeologic investigation and remedial action (Part B 5.3.2)
- ADDED in accordance "with Part B, Section 4.0 or is rendered Empty in accordance with Part B, Section 6.0."
  - Financial Responsibility requirements must be met until the UST system is removed/closed in place or emptied

PART B SECTION 6

REQUIREMENTS FOR EMPTY UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

"Empty" or **"Emptied"** means

"all Regulated Substances have been removed from the UST System using commonly employed practices so that no more than one inch (1) or 2.5 centimeters of residue, or three tenths of one percent (0.3%) by weight of the total capacity of the UST System, remains in the UST System."

"**Out of Service**" means an UST System which:

(a) Is not in use; that is, which does not have Regulated Substances added to or withdrawn from the UST System, and

(b) Is intended to be placed back In Service."

(Part A Section 2.0)

PART B SECTION 6

REQUIREMENTS FOR EMPTY UST SYSTEMS STORING REGULATED SUBSTANCE EXCLUDING CONSUMPTIVE USE HEATING FUEL OR HAZARDOUS SUBSTANCE

- Part B Section 6.0 was created entirely new utilizing some parts of previous Part B Sections 3.0, 4.0 and 5.0
- Empty was defined in Part A Section 2.0 and recapped on the previous slide
- Part B Section 6.1 states when any UST system is Empty:
  - O/O shall leave vent pipes open and functioning and cap and secure all other pipes, pumps, manways, and ancillary equipment
  - O/O shall continue operation and maintenance of corrosion protection
  - Release detection and routine inspections are NOT required
- Part B Section 6.2 states within three months of rendering any UST system Empty, O/O shall complete a Site Assessment in accordance with Part B 3.4 or perform a Removal or Closure in Place of the UST system in accordance with Part B 4.0

BE KIND

PART C

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RESPECTFUL

PART C SECTIONS 1 & 2

INSTALLATION, OPERATION AND MAINTENANCE OF CONSUMPTIVE USE HEATING FUEL UST SYSTEMS

- Majority of Part C Sections 1.0 and 2.0 changes mirror those changes made to Part B Sections 1.0 and 2.0; see regulations for detailed exceptions to operation and maintenance requirements

PART C SECTION 3

CHANGE IN SERVICE REQUIREMENTS FOR CONSUMPTIVE USE HEATING FUEL UST SYSTEMS

- Out of Service status is no longer associated with an empty UST system; new Section 6.0 addresses EMPTY UST systems
- For Out Of Service UST systems, must maintain:
  - Corrosion protection system (if applicable)
  - Release detection (tanks and piping)
  - Routine system testing
  - Leave vent pipes open and functioning
  - Cap and secure all pipe, pumps, manways and ancillary equipment
  - Routine inspections once every 30 days
  - Financial Responsibility is current
- After 12 months Out of Service, complete a site assessment (per Part C 3.4)
  - Discovery of release requires a hydrogeologic investigation and remedial action (per Part C 3.4.2.7)

PART C SECTION 4

REMOVAL OR CLOSURE IN PLACE FOR CONSUMPTIVE USE HEATING FUEL UST SYSTEMS

- Added reference standard PEI RP 1700 for *Closure of UST and Shop-Fab AST Systems*
- CHANGED Part C 4.3.1 and 4.3.2 to 14 days from 10 days
- ADDED "initiate" to emphasize that if there are signs of a release that Owners and Operators have a responsibility to at the minimum initiate a hydrogeologic investigation and remedial action (Part C 4.3.3)

PART C SECTION 5

CHANGE IN SUBSTANCE STORED REQUIREMENTS FOR CONSUMPTIVE USE HEATING FUEL UST SYSTEMS

- Added reference standard PEI RP 1700 for *Closure of UST and Shop-Fab AST Systems*
- ADDED "initiate" to emphasize that if there are signs of a release that Owners and Operators have a responsibility to at the minimum initiate a hydrogeologic investigation and remedial action (Part C 5.3.2)

Empty" or "**Emptied**" means

"all Regulated Substances have been removed from the UST System using commonly employed practices so that no more than one inch (1) or 2.5 centimeters of residue, or three tenths of one percent (0.3%) by weight of the total capacity of the UST System, remains in the UST System."

(Part A Section 2.0)

PART C SECTION 6

REQUIREMENTS FOR EMPTY CONSUMPTIVE USE HEATING FUEL UST SYSTEMS

- Part C Section 6.0 was created entirely new utilizing some parts of previous Part C Sections 3.0, 4.0 and 5.0
- Empty was defined in Part A Section 2.0 and recapped on the previous slide
- Part C Section 6.1 states when any UST system is Empty:
  - O/O shall leave vent pipes open and functioning and cap and secure all other pipes, pumps, manways, and ancillary equipment
  - O/O shall continue operation and maintenance of corrosion protection
  - Release detection and routine inspections are NOT required
- Part C Section 6.2 states within three months of rendering any UST system Empty, O/O shall complete a Site Assessment in accordance with Part C 3.4 or perform a Removal or Closure in Place of the UST system in accordance with Part C 4.0

PART D

INSTALLATION, OPERATION AND MAINTENANCE OF UST SYSTEMS STORING HAZARDOUS SUBSTANCE

- Part D changes mirror Part B changes:
  - Part D Section 1.0 (Part B Section 1.0)
  - Part D Section 2.0 (Part B Section 3.0)
  - Part D Section 3.0 (Part B Section 4.0)
  - Part D Section 4.0 (Part B Section 5.0)
  - Part D Section 5.0 (Part B Section 6.0)

PART H

INSTALLATION, OPERATION AND MAINTENANCE OF FIELD-CONSTRUCTED UST SYSTEMS

- Field-Constructed UST systems are no longer deferred from regulation
- Part H was created as an entirely new Part for compliance with Federal UST regulations promulgated October 13, 2015
- See Part H for details regarding compliance with new regulations

PART I

INSTALLATION, OPERATION AND MAINTENANCE OF AIRPORT HYDRANT FUEL SYSTEMS

- Airport Hydrant fuel systems are no longer deferred from regulation
- Part I was created as an entirely new Part for compliance with Federal UST regulations promulgated October 13, 2015
- See Part I for details regarding compliance with new regulations