AST REGISTRATION
PIPE INSPECTION
PE REQUIREMENTS

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AST REGISTRATION
• Part II – individual tank of 660 gal. or greater or aggregate greater than 1,320 gal.
• Part III – individual tank greater than 25,000 gal. or with an aggregate of 25,000 gal.
• Part IV – ODCP Plan is required if individual 25,000 gal or aggregate of 25,000 gal. or greater
• Part V – Groundwater Characterization Study (GCS) - Only for 1 million gal or greater
EXCLUSIONS
9 VAC 25-91-30

• AST with less than 660 gal.
• AST regulated by DMME under Chapter 22.1 of Title 45.1
• AST used to store propane, butane or other LP gases
• Equipment
• AST containing dredge spoils
• Pipes or piping beyond the first valve
• AST storing asphalt and asphalt compounds (excluded from PART III only, not PART IV-ODCP)
• Others (total of 21 and 3 partial)
APPLICATION FEE’S

9 VAC 25-91-60

• If fall under Part IV – required 90 days prior to commencement unless the facility previously met the requirements, then 90 days prior to the ODCP expiration

• Fee’s required for:
  – Initial registration
  – New installations
  – Conversion
  – AST brought back into use after permanent closure
  – Registration renewal (5 years)
  – Change in ownership

• Fee’s
  – One Facility – One AST - $25
  – One Facility – Two or more AST - $50
  – Two Facility – One AST each - $50
  – Two Facility - One AST at one and two or more at another - $75
  – Two Facility – Two or more AST each - $100
  – Three Facility – One AST each - $75
  – Maximum Fee for multiple Facility’s capped at $100
Part II - 660 gal or greater or with an aggregate greater than 1,320 gal.

- Duly Authorized Representative – made in writing by the owner and is submitted with the application and the owner/agent must sign the certification statement
- Registration includes
  - Facility and AST owner and operator information
  - Facility information
  - Tank and piping information
  - Other information requested
  - Owner certification
- Renewal every 5 years
- Required Notifications
  - Upgrade
  - Major repair
  - Replacement
  - Change in service
  - No fee for notifications
Part III – 25,000 gal to one million gal.

• Inventory control (to detect 1.0% variation monthly and gauged no less than every 14 days) unless
  – AST and piping is totally off the ground
  – 5,000 gal or less inside a building or structure designed to contain a discharge
  – Contain No. 5 or No. 6

• Formal inspections (not required for AST less than 12,000 gal.)

• Secondary containment
  – Maintained per 40 CFR Part 112 and certified every 10 years

• Safe fill and shut down procedures
  – All shall institute a Safe fill, shutdown, and transfer procedure

• Spill containment materials at transfer areas and system designed to hold at least one compartment of the loaded vehicle and follow 40 CFR part 112
Part III cont.

• Visual daily and weekly inspections
  – Daily inspection during normal operation and documented (notation in the facility records)
    • Walk-through
    • Ground surface for signs of leakage
    • Accumulation of water in dike or berm areas and drain valves are secure
    • Visual inspection of exterior tank shell for signs of leakage
    • Evaluation of condition
PART III cont.

– Weekly inspection (using a checklist)
  • Signed, dated, and time
  • Includes but not limited to:
    – Containment dike or berm in satisfactory condition
    – Containment free of excess water
    – Valves secured
    – Tank shell surface inspected for rust or deterioration
    – Ground surface around tanks for signs of leakage
    – Tank water draw-offs secure
    – Fill valves secure
    – Inspect valves and pipe flanges for sings of leakage
    – Tank gauges inspected and operational
PART III cont.

• Training
  – Establish a training program and train prior to conducting inspections and then every 3 years
    • Occupational safety, hazard recognition, ppe, facility operations
    • Procedures for daily and weekly inspections
    • What to do upon recognition of a hazard
    • How to evaluate the condition of AST tanks

• Leak Detection
  – Operate, maintain, monitor and keep records as required and per the approved ODCP

• Pipe Inspections
PIPE INSPECTIONS
9 VAC 25-91-130 (A.6.)

- Cathodic protection required for buried piping
- All new piping shall be pressure tested prior to being put into service and all existing shall be tested by June 30, 2003
- Intervals not to exceed five years
  - Hydrostatic test at 150% maximum allowable working pressure (MAWP)
  - Inert gas test to 110% MAWP
  - Conducted and certified by an API authorized piping inspector in conformance with API 570 Piping Inspection Code
    - Visual and Ultrasonic Thickness
  - Or approved equivalent
P.E. REQUIREMENTS

DEQ and EPA
Secondary Containments

- Must be designed or design capacity certified by a Professional Engineer
  - 110% of volume of tank requiring containment
- The certification statement should read:
  - “I hereby certify that the secondary containments for [insert facility name or tank number] is in compliance with the applicable requirements of 40 CFR 112, NFPA 30, and 29 CFR 1910.106.”
EPA SPCC

Spill Prevention, Control, and Countermeasure Plan

Self Certifications (do not require P.E.)

• TIER I qualified facilities with containers less than 5,000 gal. can self certify using the template provided by EPA

• TIER II qualified facility is less than 10,000 gal.
  – No discharge exceeding 1,000 gal
  – No two discharges exceeding 42 gal. within 12 month period
EPA SPCC cont.

For TIER I and TIER II a Professional Engineer Certification is required for a portion of a Qualified Facilities Self-Certified Plan for

- alternate measures to provide equivalent environmental protection
- determination of impracticality of secondary containment and provide alternate measure
EPA SPCC cont.

40 CFR 112.3(d)

PE Certifications are required for facilities with aggregate capacity greater than 10,000 gal.

– Certifies
  • Familiar with the requirements
  • Has visited and examined the facility
  • Prepared in accordance with good engineering practice and industry standards
  • Established testing and inspections procedures
  • Plan is adequate for the facility

– Certifies Technical Amendments
– Certifies Secondary Containment
– Review Every 5 years