F- and H-Area High-Level Radioactive Waste Tank Farms Environmental Permit Overview

Agenda

– F- and H-Area High Level Radioactive Waste Tank Farms Environmental Permit Overview
  • Air
  • Industrial Wastewater
  • Outfalls
  • Federal Facilities Agreement
Air

– F- and H-Area High Level Radioactive Waste Tank Farms included in SRS Part 70 Air Quality Permit

– Non-Radioactive Emissions
  • Based on low emissions, no monitoring or permit requirements

– Radioactive Emissions
  • High-Level Radioactive Waste Storage Tanks
    – Potential Impact Category (PIC) 4 sources
    – Annual administrative review
  • Evaporators
    – Potential Impact Category (PIC) 4 sources
    – Annual administrative review
**Industrial Wastewater**

- Industrial Wastewater Treatment Facility Permit #17,424-IW
  - "Includes two wastewater storage and treatment facilities and associated transfer systems, one in F-Area and the other in H-Area..."
  - Includes F- and H-Area Radioactive Waste Tank Farms tanks and evaporator systems, interarea and intra-area transfer lines, diversion boxes and pump pits including Low Point Pump Pit
- Highlights of Permit conditions:
  - Operations and Maintenance Manual (use operating and maintenance procedures for this).
  - Best Management Practices Plan (BMP) in place.
  - Once waste removal begins on a tank with a leak site, and the waste is removed below the lowest known leak from the leak site, that level shall become the maximum operating level of the tank.
  - No tank that leaks or has leaked shall be used for waste receipt without prior approval from SCDHEC. This condition does not apply to the necessary addition of waste for waste removal purposes.
  - Tanks 2-8 (Type I Tanks) should only be used for waste receipt when there is no suitably available volume in an approved Type III Tank.
  - In addition to the conditions of the Industrial Wastewater Permit the requirements of the Federal Facilities Agreement apply.
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**Industrial Wastewater Outfall**
- National Pollutant Discharge Elimination System Permit
- Industrial Wastewater Outfall
  - H-07

**Stormwater Outfalls**
- General Stormwater Permit
- Stormwater Outfalls
  - H-06A
  - H-05
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Federal Facilities Agreement
– Appendix B in FFA that applies to High-Level Radioactive Waste Tank Systems

– Establishes requirements for the prevention and mitigation of releases or potential releases at or from the High-Level Radioactive Waste Tank Systems
  • Standards for integrity assessment for existing tanks
  • Design standards for new or replacement tank systems and components
  • Standards for containment / release detection
  • Disposition of leaking tanks
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Summary

– SCDHEC Permits are required and are in place to ensure protection of the public, employees, and the environment
– SRR is responsible for SCDHEC Permit implementation and compliance
– Trust but Verify, SRR enjoys a good working relationship with SCDHEC