Subpart X Permitting Group Case Study

Shredder

Shredder

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- Team
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Permit Conditions

- RCRA Part A Permit Application
- RCRA Part B Permit Application
 - Facility description
 - Federal and state laws
 - Process information (design drawings, treatment, SOPS for treatment processing)
 - Groundwater information
 - Training plan
 - Closure plan
 - Contingency plan
 - Waste characteristics (waste analysis plan)
 - Health & safety plan

Areas of Inspection

- O₂ meter
- Emergency shut-off (for safety and clogs)
- Reverse motor (for clogs)
- Cameras in all shredder chambers
- Door interlock (shredder does not operate if door open)
- Inspect systems for leaks
- Liquid handling system operating properly
- Conveyor operating properly
- Gas handling system
- No manual handling
- Drum feed rate 5 drums/hr

Areas of Inspection (cont'd)

- Metal separation
- Secondary containment (precipitation, leaks, cracks)
- Daily operating log
- Hydraulic system (doors)
- Blade replacement
- Maintenance schedule
- Air monitoring
- Inspect staging areas (evidence of release)
- Drum labels
- Hoppers closed
- Wash materials (solvents, H_20)
- Training

Inspection Checklist

- Shredder/conveyor/maceration tank
 - Condition of unit (external and internal)
 - Doors and seals (leaks and tightness)
 - Conveyors (leaks and condition)
 - Condition of tank (leaks at seams, pipe couplings, etc.)
 - Condition of containment
 - Presence of liquids
 - Cracks and gaps in base
 - Sealant (intact)
 - Evidence of fugitive emissions or leaks and spills
 - Sumps (liquids, cracks)
 - Condition of roof
 - Condition of berms or curbs

- Security devices
 - Condition of gates, fencing, locks
- Staging areas/satellite accumulation areas
 - Conditions of containers
 - Labeling
 - Leaking containers
 - Containment (liquids, cracks)
 - Hoppers (labeling, open/closed, leaks)

- Safety and emergency equipment
 - Condition of communication systems
 - Method telephone, hand-held, intercom, 2-way radios
 - Accessibility of communications
 - Method to communicate while shredder is operating due to noise
 - Condition and operation of shower and eye wash
 - Location
 - Accessibility
 - PPE inventory and condition
 - Workers are wearing proper PPE
 - Fire extinguishers/sprinklers for operating condition
 - Is it charged
 - Number and locations
 - ABC extinguisher for chemical fires

- Inspection & Maintenance Records
 - Planned and unplanned maintenance on shredder and ancillary equipment
 - Inspection conducted each operating shift
 - Remedial actions
 - Accumulation containers and tanks rate of change-out
- Environmental monitoring reports
 - Sampling results, waste analysis
 - Air monitoring data
 - Scrap metal decontamination analysis

- Training records
 - Specific training on unit
 - Operation and wastes
- Compatibility test records
 - Proper waste codes
 - Results of testing
- Waste Minimization
- Recycling solvents and contaminated water from metal wash
- Proper maintenance
- Evaluate waste characteristics
- Group by waste codes

- Decontamination facility shower, clean and dirty room, employee procedures
- Air emission controls
 - Subpart CC
 - Control device operation and condition of equipment
 - Piping and door tightness
 - Area around building (evidence of fugitive emissions)
- Record keeping
 - SOPS
 - Unit operation, routine maintenance schedule, monitoring protocol, method and criteria for updating SOPs
 - Operating logs (waste processed in unit)
 - Rate of treatment
 - Cross-reference to manifest numbers, waste codes