

Subsection O - Sector O - Steam Electric Generating Facilities.

O.1 Covered Stormwater Discharges.

The requirements in Subsection O apply to stormwater discharges associated with industrial activity from Steam Electric Power Generating Facilities as identified by the Activity Code specified under Sector O in Table D-1 of Appendix D.

O.2 Industrial Activities Covered by Sector O.

This permit authorizes stormwater discharges from the following industrial activities at Sector O facilities

- O.2.1 steam electric power generation using coal, natural gas, oil, nuclear energy, etc., to produce a steam source, including coal handling areas;
- O.2.2 coal pile runoff, including effluent limitations established by 40 CFR Part 423; and
- O.2.3 dual fuel co-generation facilities.

O.3 Limitations on Coverage.

- O.3.1 Prohibition of Non-Stormwater Discharges. Non-stormwater discharges subject to effluent limitations guidelines are not covered by this permit.
- O.3.2 Prohibition of Stormwater Discharges. The following are not covered by this permit: stormwater discharges from ancillary facilities (e.g., fleet centers, gas turbine stations and substations) that are not contiguous to a steam electric power generating facility and heat capture co-generation facilities.

O.4 Stormwater Pollution Prevention Plan (SWPPP) Requirements.

In addition to the following requirements, you must also comply with the requirements listed in Part 2 in the permit.

- O.4.1 Drainage Area Site Map. (See also Part 2.1.2) Identify the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff: storage tanks, scrap yards, and general refuse areas; short- and long-term storage of general materials (including but not limited to supplies, construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills and construction sites; and stock pile areas (e.g., coal or limestone piles).
- O.4.2 Good Housekeeping Measures. (See also Part 2.1.5.1)
 - O.4.2.1 Fugitive Dust Emissions. Describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. To minimize the

tracking of coal dust offsite, consider procedures such as installing specially designed tires or washing vehicles in a designated area before they leave the site and controlling the wash water.

- O.4.2.2 **Delivery Vehicles.** Describe and implement measures that prevent or minimize contamination of stormwater runoff from delivery vehicles arriving at the plant site. Consider procedures to inspect delivery vehicles arriving at the plant site and ensure overall integrity of the body or container and procedures to deal with leakage or spillage from vehicles or containers.
- O.4.2.3 **Fuel Oil Unloading Areas.** Describe and implement measures that prevent or minimize contamination of precipitation or surface runoff from fuel oil unloading areas. Consider, at a minimum (or their equivalents), using containment curbs in unloading areas, having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any leaks or spills are immediately contained and cleaned up, and using spill and overflow protection (e.g., drip pans, drip diapers, or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).
- O.4.2.4 **Chemical Loading and Unloading.** Describe and implement measures that prevent or minimize contamination of precipitation or surface runoff from chemical loading and unloading areas. Consider, at a minimum (or their equivalents), using containment curbs at chemical loading and unloading areas to contain spill, having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any leaks or spills are immediately contained and cleaned up, and loading and unloading in covered areas and storing chemicals indoors.
- O.4.2.5 **Miscellaneous Loading and Unloading Areas.** Describe and implement measures that prevent or minimize contamination of precipitation or surface runoff from loading and unloading areas. Consider, at a minimum, covering the loading area; grading, berming, or curbing around the loading area to divert runoff; locating the loading and unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems; or equivalent procedures.
- O.4.2.6 **Liquid Storage Tanks.** Describe and implement measures that prevent or minimize contamination of surface runoff from above-ground liquid storage tanks. Consider, at a minimum, protective guards around tanks, containment curbs, spill and overflow protection, dry cleanup methods, or equivalent measures.
- O.4.2.7 **Large Bulk Fuel Storage Tanks.** Describe and implement measures that prevent or minimize contamination of surface runoff from large bulk fuel storage tanks. Consider, at a minimum, containment berms (or its equivalent). You must also

comply with applicable State and Federal laws, including SPCC.

- O.4.2.8 Spill Reduction Measures. Describe and implement measures to reduce the potential for an oil or chemical spill, or reference the appropriate part of your SPCC plan. At a minimum, visually inspect, on a weekly basis, the structural integrity of all above-ground tanks, pipelines, pumps, and related equipment, and effect any necessary repairs immediately.
- O.4.2.9 Oil-Bearing Equipment in Switchyards. Describe and implement measures that prevent or minimize contamination of surface runoff from oil-bearing equipment in switchyard areas. Consider using level grades and gravel surfaces to retard flows and limit the spread of spills, or collecting runoff in perimeter ditches.
- O.4.2.10 Residue-Hauling Vehicles. Inspect all residue-hauling vehicles for proper covering over the load, adequate gate sealing, and overall integrity of the container body. Repair, as soon as practicable, vehicles without load covering or adequate gate sealing, or with leaking containers or beds.
- O.4.2.11 Ash Loading Areas. Describe and implement procedures to reduce or control the tracking of ash and residue from ash loading areas. When practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris, and excess water before departure of each loaded vehicle.
- O.4.2.12 Areas Adjacent to Disposal Ponds or Landfills. Describe and implement measures that prevent or minimize contamination of surface runoff from areas adjacent to disposal ponds or landfills. Develop procedures to reduce ash residue that may be tracked on to access roads traveled by residue handling vehicles, and reduce ash residue on exit roads leading into and out of residue handling areas.
- O.4.2.13 Landfills, Scrap yards, Surface Impoundments, Open Dumps, General Refuse Sites.

Address these areas in your SWPPP and include appropriate BMPs as referred to in Part 2 of the permit.

- O.4.2.14 Vehicle Maintenance Activities. For vehicle maintenance activities performed on the plant site, use the applicable BMPs outlined in Attachment 1, Subsection P.
- O.4.2.15 Material Storage Areas. Describe and implement measures that prevent or minimize contamination of stormwater runoff from material storage areas (including areas used for temporary storage of miscellaneous products and construction materials stored in lay-down areas). Consider the following (or their equivalents): using flat yard grades; collecting runoff in graded swales or

ditches; using erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay-down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Stormwater runoff may be minimized by constructing an enclosure or building a berm around the area.

O.4.3 Comprehensive Site Compliance Evaluation. (See also Part 3.1) As part of your evaluation, inspect the following areas monthly: coal handling areas, loading or unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

O.5 Monitoring and Reporting Requirements. (See also Part 3 of the permit.)

Table O-1. Sector-specific Numeric Effluent Limitations and Benchmark Monitoring			
Subsector (Discharges may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration¹	Effluent Limit Guidelines
Steam Electric Generating Facilities (Industrial Activity Code "SE")	Total Recoverable Iron	1.0 mg/L	--
	Total Suspended Solids (TSS)	100 mg/L	--

¹You must monitor quarterly in the first year of your coverage for each benchmark parameter (see Part 3.2.2.1). For each parameter, no additional benchmark monitoring is required if the average of your 4 monitoring values does not exceed the benchmark (see Part 3.2.2.3). However, for each parameter there are additional requirements if the average of your four monitoring values exceeds the benchmark (see Part 3.2.2.4).