

**WV OFFICE OF AIR QUALITY
45 CSR 25
PART B HAZARDOUS WASTE PERMIT APPLICATION**

Direct Transfer Standards

BOILERS AND INDUSTRIAL FURNACES (BIFs); 40 CFR 266 Subpart H.

I. Direct Transfer Standards - 266.111; 270.22(e); Additional information on containers and tank systems is provided in Subparts I and J of Parts 264 and 265.

BIFs that directly feed hazardous waste from a transport vehicle to a BIF without the use of a storage unit must submit the following:

- A. A description of direct transfer procedures that will be used.
- B. A statement and description of procedures to ensure that no direct transfer of a pumpable hazardous waste shall be conducted from an open-top container to a boiler or industrial furnace.
- C. A statement and description of procedures to ensure that direct transfer equipment used for pumpable hazardous waste shall always be closed, except when necessary to add or remove the waste, and shall not be opened, handled, or stored in a manner that may cause any rupture or leak.
- D. A description of direct transfer operations, including procedures and controls implemented so that transfer operations do not:
 - 1. Generate extreme heat or pressure, fire, explosion or violent reaction.
 - 2. Produce uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health.
 - 3. Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion.
 - 4. Damage the structural integrity of the container or direct transfer equipment containing the waste.
 - 5. Adversely affect the capability of the BIF to meet the standards provided in 266.104 through 266.107.
 - 6. Threaten human health and the environment.
- E. A statement and description of procedures to ensure that hazardous waste shall not be placed in direct transfer equipment if it could cause the equipment or its secondary containment system to rupture, leak, corrode or otherwise fail.
- F. A description of controls and practices which will be used to prevent spills and overflows from the direct transfer equipment or its secondary containment systems including at a minimum:
 - 1. Spill prevention controls (e.g., check valves, dry discount couplings).
 - 2. Automatic waste feed cutoff if a leak or spill occurs from the equipment.

II. Direct Transfer Standards - Containment System - 264.175

In areas where direct transfer vehicles are located, a description of the containment system, demonstrating that the containment system is designed and operated as follows (containment system requirements also apply to areas that store containers with F020, F021, F022, F023, F026, or F027 even though the containers may not contain free liquids):

- A. A base underlies the containers which is free of cracks or gaps and is

sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed.

- B. The base is sloped or the containment system is otherwise designed and operated to drain and remove liquids resulting from leaks, spills or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids.
- C. The containment system has sufficient capacity to contain 10% of the volume of containers or the volume of the largest container, whichever is greater. Containers that do not contain free liquids need not be considered in this determination.
- D. Run-on into the containment system is prevented unless the collection system has sufficient excess capacity to contain any run-on which might enter the system.
- E. Spilled or leaked waste and accumulated precipitation is removed from the sump or collection area in as timely a manner as is necessary to prevent overflow of the collection system.
- F. Except for areas with containers storing F020, F021, F022, F023, F026, and F027, storage areas that store containers holding only wastes that do not contain free liquids need not have a containment system defined above provided that:
 - 1. The storage area is sloped or is otherwise designed and operated to drain and remove liquid resulting from precipitation.
 - 2. The containers are elevated or are otherwise protected from contact with accumulated liquid.

III. Direct Transfer Standards - Condition of Containers (defined in 266.111) - 265.171

Provide a statement and description of procedures to ensure that if a container holding hazardous waste is not in good condition, or if it begins to leak, the owner or operator will transfer the hazardous waste from this container to a container that is in good condition, or manage the waste in some other way that complies with the requirements of this part.

IV. Direct Transfer Standards - Compatibility of Waste with Container - 265.172

Provide a statement that the owner or operator will use a container made of or lined with materials which will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired.

V. Direct Transfer Standards - Management of Containers - 265.173

Provide a statement that:

- A. A container holding hazardous waste will always be closed during storage, except when it is necessary to add or remove waste.
- B. A container holding hazardous waste will not be opened, handled or stored in a manner which may rupture the container or cause it to leak.

VI. Direct Transfer Standards - Special Requirements for Ignitable or Reactive Waste -

265.176

Provide documentation of the location of all containers holding ignitable/reactive waste. Containers holding ignitable/reactive waste must be located at least 50 feet from the facility property line or comply with requirements for the maintenance of distances between waste management areas and any public ways, streets, alleys, or adjacent property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code," (1977 or 1981).

VII. Direct Transfer Standards - Special Requirements for Incompatible Wastes - 265.177

Provide a statement and description of procedures to ensure that:

- A. Incompatible wastes, or incompatible wastes and materials will not be placed in the same container.
- B. Hazardous waste will not be placed in an unwashed container that previously held an incompatible waste or material.
- C. A storage container holding a hazardous waste that is incompatible with any waste or other materials stored nearby in other containers, piles, open tanks, or surface impoundments will be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.

VIII. Direct Transfer Standards - Closure - 264.178

Describe how all hazardous waste and hazardous waste residues will be removed from the containment system at closure. Remaining containers, liners, bases, and soil containing or contaminated with hazardous waste or hazardous waste residues must be decontaminated or removed.

IX. Direct Transfer Standards - Secondary Containment Requirements - 266.111(e)(1); 266.111(e)(2); 266.111(e)(3); 266.111(e)(4); 266.111(e)(5)

- A. Owners/operators must submit documentation demonstrating conformance with secondary containment requirements of 265.193(b), (c), and (f)-(h):
 - 1. For new direct transfer equipment, prior to their being put into service; and
 - 2. For existing direct transfer equipment.
- B. Prior to meeting secondary containment requirements, existing direct transfer without such containment must be assessed to determine its fitness for use. The owner shall keep on file a written assessment reviewed and certified by a registered professional engineer that attests to the equipment's integrity. At a minimum, this assessment should consider:
 - 1. Design standards;
 - 2. Waste characteristics;
 - 3. Existing corrosion protection measures;
 - 4. Documented age;
 - 5. Results of leak test or other integrity determination.

- C. If leaking or unfit, the requirements of 265.196(a) and (b) must be followed.
1. Inspections must be made at least once each hour when hazardous waste is being transferred and records made in accordance with 266.111(e)(3).
 2. Provide documentation that design and installation of new ancillary equipment meets 265.192.
 3. Provide documentation that responses to leaks or spills comply with 265.196.