



City of Omaha

Industrial Best Management Practices

Sector F - Primary Metals

SIC Codes: 3312-3317, 3321-3325-3331-3339, 3341, 3351-3357, 3363-3369, 3398, 3399



Primary Metals

- ♣ Store materials and waste inside or in covered, bermed areas
- ♣ Regularly sweep fabrication and paved areas
- ♣ Inspect storage areas and equipment for leaks and corrosion, and repair promptly
- ♣ Perform pouring, cooling and shakeout operations indoors
- ♣ Trap particulates coming from storage and handling areas

MATERIAL STORAGE

- ♣ Always store manufacturing dusts and sludge indoors, along with other materials and waste if possible. If outside, materials should be placed under cover in contained areas that prevent stormwater run on/runoff.
- ♣ Protect materials and wastes from the wind. Piles of coke, coal, waste sand and refractory rubble can also be covered with a tarp. Fluxes and raw casting sand should be placed in silos or covered hoppers.
- ♣ Put all metal product and machining waste in sealed drums or covered dumpsters.
- ♣ Store liquids, such as gas, diesel, kerosene, lubricants and solvents in contained areas.
- ♣ Use inventory control to minimize the amount of coke, coal, sand, chemicals and raw metal materials stored onsite.
- ♣ Establish a regular disposal schedule for slag, dross, waste sand, refractory rubble, fly ash, dust collector sludge and solids, and bag-house dust.
- ♣ Prevent particulates from coke, coal, slag and sand storage/handling areas from mixing with stormwater.
- ♣ Route runoff from operations that generate particulates, coke ovens, sintering plants, electric arcs, and furnaces, over paved (impervious) surfaces to prevent soil and groundwater contamination.
- ♣ Trap particulates using filter fabric fences, gravel outlet protection, catch-basin filters, or collection basins with treatment. Regularly remove particulate build-up and maintain devices.
- ♣ Clean intermediate and finished products to remove residual materials and chemicals before storing them.
- ♣ Regularly inspect all liquid and waste storage tanks and drums for leaks, spills, corrosion, and damage and repair any problems found.
- ♣ Use dry methods to clean up spills and leaks of materials and waste.



PROCESS OPERATIONS

- ♣ Collect and recycle wastewater used for granulation of slag.
- ♣ Perform all pouring, cooling, and shakeout operations indoors in areas that have a roof vent to trap fugitive particulate emissions.
- ♣ During the operations, recycle as much casting sand as possible.
- ♣ Perform regular sweeping and cleaning of waste storage and material handling areas, particularly if sand, dust, machining operation waste, and other particulate matter is being stored or residues are present.
- ♣ Conduct periodic sweeping of all traffic areas.
- ♣ Frequently inspect all equipment, including pollution control equipment, for spills and leaks of fluids, oil, fuel or wastes and improper operation.
- ♣ Repair leaks if found.
- ♣ During the inspections, look for and clean off accumulations of dust, particulate matter and other material.
- ♣ If possible, store equipment under cover, especially equipment used for furnace charging and material handling activities.



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BEST MANAGEMENT PRACTICES

- Find out which materials must or may be recycled in your town.
- See if your waste hauler offers separate containers and/or rates for recyclables.
- Separate and store recyclable materials by type (unless told otherwise).
- Store recyclable materials where they will stay clean and dry.
- Choose to purchase or carry products which use less packaging or packaging which can be recycled locally.
- Buy in bulk or in returnable containers.
- Talk with scrap metal dealers. They may pay for some materials and/or pick them up at no charge.



TRAINING

- All employees shall be trained in the following areas and on BMPs in the SWMP at least once per year.
- Proper washing procedures.
- Proper disposal practices for all materials.
- Procedures for storage and inspection items.
- Proper filling and transfer procedures.
- Spill response
- Good housekeeping
- Material management practices
- Procedures for equipment and container washing.

INSPECTIONS

- Conduct an inspection of the facility at least quarterly.
- Complete the storm water BMP checklist.
- Immediately inspect all vehicles upon arrival for leaks.
- Look for signs of leakage quarterly.
- Inspect all equipment containing oily parts, hydraulic fluids, or any other type of fluids.
- All liquid storage areas, including antifreeze, oil, brake, transmission fluid, etc.
- Review BMPs after each inspection and modify them and the SWPPP or SWMP as needed.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) OR STORM WATER MANAGEMENT PLAN (SWMP)

- Develop and implement a SWPPP or SWMP.
- All regulated facilities must submit a Notice of Intent (NOI) to NDEQ.



If spills occur:

- Stop the source of the spill immediately.
- Contain the liquid until cleanup is complete.
- Deploy oil containment booms if the spill may reach the street or waterways.
- Cover the spill with absorbent material.
- Keep the area well ventilated.
- Dispose of clean-up materials properly.
- Do not use an emulsifier or dispersant.



Contacts

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