

Bulk Material Storage Rules and Regulations

Issued March 13, 2014

Timeline of Requirements

IMMEDIATE REQUIREMENTS		
1.	<u>Certificate of Operation.</u> <ul style="list-style-type: none">All facilities must obtain a certificate of operation issued by CDPHAs with permits, CDPH may impose conditions on the certificates of operation.	3.0(1)
2.	<u>Fugitive Dust.</u> <ul style="list-style-type: none">No fugitive dust may be visible beyond the property line of the facility.Facilities must not have fugitive dust within their property line that exceeds 10% opacity. In addition, each facility will need to perform tests of visual fugitive dust and opacity at least every quarter.	3.0(2)(a), (b), (c)
3.	<u>Vehicle Leaking.</u> <ul style="list-style-type: none">Material cannot be loaded into vehicles in a way that causes leaking of material or liquid.If a vehicle leaks onto a road, the facility must clean it within 1 hour.If a vehicle leaks into a waterway, the facility must clean immediately.	3.0(10)
4.	<u>Roadway Cleaning.</u> <ul style="list-style-type: none">Facilities must use a street sweeper to clean roads with spilled or tracked material inside or within a quarter mile of the facilitySweeper must be equipped with a water spray and a vacuum system to prevent dust during the street sweeping.Cleaning must occur at least once every 4 hours or after every 100 trucks.Facilities must keep a daily record of street cleaning.	3.0(15)
5.	<u>Spilled Material.</u> <ul style="list-style-type: none">All non-storage areas within the facility must be cleared of spilled or misplaced material by the end of each work shift.	3.0(16)
6.	<u>Recordkeeping</u> <ul style="list-style-type: none">Facilities must record daily, all cleaning and street sweeping activities.Facilities must maintain a schedule for routine inspection, maintenance, and testing of all control measures and technologies. This includes inspections for the piles, monitors, and for the presence of dust in off-site areas.	3.0(17)(a)(g)
7.	<u>Enclosure Reporting</u> <ul style="list-style-type: none">Coke and coal facilities must provide monthly updates on progress and planning activities for construction of the enclosureMust describe work completed in previous month and work planned in upcoming month	6.0(7)
8.	<u>Penalties.</u> <ul style="list-style-type: none">Fines of \$1,000 to \$5,000 for each violationEach day of any violation constitutes a separate and distinct offense, and fines imposed will be assessed per day.	7.0

9.	<u>Variance from Operating and Maintenance Practices.</u>	8.0
	<ul style="list-style-type: none"> • Facilities may apply for a variance from any regulation set forth in Parts B, D, or E. 	

90 DAYS (June 11, 2014)		
1.	<u>Testing of Visual Emissions and Opacity Limits.</u>	3.0(2)(d)
	<ul style="list-style-type: none"> • Facilities must perform tests of visual fugitive dust and opacity at least on a quarterly basis. • Tests must be performed in accordance with the Fugitive Dust Plan. 	
2.	<u>Fugitive Dust Plan Required.</u>	3.0(3)
	<ul style="list-style-type: none"> • Facilities must submit a Fugitive Dust Plan. • The plan must contain all the required components, including: <ul style="list-style-type: none"> ○ Facility map and description of operations ○ Description of all dust-control measures ○ Dust monitoring plan ○ Contingency plan for responding to dust • The plan must be updated each year and submitted for review • Must submit an amended plan if there are any changes to the facility • Must include a summary of the Fugitive Dust Plan that CDPH can post on its website, together with the plan itself 	
3.	<u>Fugitive Dust Monitoring.</u>	3.0(4)
	<ul style="list-style-type: none"> • Facilities must install Federal Equivalent Method (FEM) real-time PM10 monitors around the perimeter of the facility. • Must install both upwind and downwind and gather data in year one to inform placement of monitors in subsequent years • Data logger must record all readings from the monitors • Must maintain log of all maintenance and calibration of the monitors 	
4.	<u>Wind Monitoring.</u>	3.0(5)
	<ul style="list-style-type: none"> • Permanent wind monitor must be installed 10 meters high in a central, unobstructed area in conformance with the regulations • Wind monitor must be able to monitor and log wind speed and wind direction 	
5.	<u>Transfer Points.</u>	3.0(7)
	<ul style="list-style-type: none"> • Facilities must ensure compliance with opacity limit at all transfer points • Options for dust control include: <ul style="list-style-type: none"> ○ Total enclosure ○ Watering ○ Vented to pollution control equipment ○ Transfer of moist material 	
6.	<u>Transport.</u>	3.0(8)
	<ul style="list-style-type: none"> • Facilities must adhere to a 8 mph speed limit within facility • Trucks must be free of loose material • Facilities must use rumble strips, wheel wash station, or other approved measures • Measures to ensure trucks will not cause track-out must be included in the Fugitive Dust Plan 	

7.	<u>Vehicle Covering or other Dust Control.</u>	3.0(9)
	<ul style="list-style-type: none"> • Trucks must be covered with solid cover or continuous tarp • Railcars and barges must use best practices to control dust • Facility shall not load material into any vehicle unless measures are in place to prevent material from escaping the vehicle 	
8.	<u>Controlled Loading and Unloading.</u>	3.0(11), (12)(13)
	<ul style="list-style-type: none"> • Enclosed Coke/Coal facilities must conduct loading and unloading of trucks and railcars in enclosed structures • Outdoor operations must conduct loading and unloading in compliance with transfer point requirements • Barge loading and unloading must be conducted to minimize dust using measures set forth in the approved Fugitive Dust Plan 	
9.	<u>Recordkeeping</u>	3.0(17)(b), (c),(d), (e),(f)
	<ul style="list-style-type: none"> • Records must include: <ul style="list-style-type: none"> ○ Daily weather conditions, including wind speed and direction. ○ Cleaning activities ○ Results of dust monitoring ○ Testing & maintenance activities • Records must be kept for at least 3 years 	
10.	<u>Enclosure of Coke and Coal - Enclosure Plan.</u>	4.0(1)
	<ul style="list-style-type: none"> • The owner or operator of any Coke or Coal Bulk Material Facility shall submit a plan for total enclosure. • Plan must include all components listed in the Regulations, including <ul style="list-style-type: none"> ○ Construction schedule ○ Interim Fugitive Dust Plan ○ Dust Monitoring Plan ○ Contingency Plan • The schedule must use the critical path method to identify all engineering, procurement, permitting, and construction milestones to ensure that critical tasks are completed on time. 	
11.	<u>Outdoor Bulk Solid Material Storage – Setbacks.</u>	5.0(1)
	<ul style="list-style-type: none"> • Storage piles must be located in accordance with setback limits established in the Chicago Zoning Code. 	
12.	<u>Outdoor Bulk Solid Material Storage - Height Limit.</u>	5.0(2)
	<ul style="list-style-type: none"> • Piles may not exceed 30 feet • Facilities must install a post or marker to demonstrate pile height 	
13.	<u>Outdoor Bulk Solid Material Storage - Protection of Waterways.</u>	5.0(3)
	<ul style="list-style-type: none"> • Piles may not be placed within 50 feet of waterways • During loading and unloading, no materials may fall into the waterway 	
14.	<u>High Wind Events.</u>	5.0(4)
	<ul style="list-style-type: none"> • Disturbance of outdoor piles must be suspended during high wind conditions • High winds are defined as two consecutive five-minute wind speed averages of 15 miles per hour or greater • Facilities must suspend work or take other measures to control dust 	
15.	<u>Outdoor Bulk Solid Material Storage - Dust Suppressant System.</u>	5.0(5)

- Water or other suppressants must be applied as needed to comply with fugitive dust prohibition
- Water and/or chemical suppressant system must be operable (able to dispense) at all times unless piles are covered

16. Outdoor Bulk Solid Material Storage - Runoff Management. 5.0(6)

- Facilities must install stormwater controls to manage runoff, erosion and sedimentation
- Facilities must ensure the site is properly graded, drained, and comply with approved Stormwater Management Plan (if required)

SIX MONTHS (September 13, 2014)

1. Covered Conveyors. 3.0(6)

- Conveyors must be covered or enclosed to reduce fugitive dust emissions to the maximum extent practicable.

ONE YEAR (March 13, 2015)

1. Paving. 3.0(14)

- Internal Roads must be paved
- New facilities must use only paved roads within 1/4 mile of the facility
- The paving must be with a durable material not susceptible to becoming windborne

TWO YEARS FROM SUBMISSION OF ENCLOSURE PLAN (June 11, 2016)

1. Full Enclosure of Coke and Coal. 4.0(2)

- Coke and Coal must be entirely surrounded by completely roofed and walled structures
- Fugitive dust must be prevented from leaving the enclosure through the use of watering and other measures

* This document is for general information only. It is not intended to replace, interpret, or modify any federal, state, local, or other law of any kind, nor does it provide or constitute legal advice. To view the full requirements for Bulk Solid Material Facilities, see the City of Chicago Rules and Regulations for Control of Emissions from the Handling and Storage of Bulk Material Piles.