Fugitive Dust Control Template.

This Fugitive Dust Control Template was prepared by the Illinois Association of Aggregate Producer’s Environmental Committee. A Fugitive Dust Control Plan is required for mining operations located in certain areas of the state of Illinois defined by 35 Illinois Administrative Code 212.302 (35 IAC 212.302). Generally, these areas include all of Cook County and parts of Lake, DuPage, Will, Peoria, Tazewell, Macon, Rock Island, LaSalle, Madison, and St. Clair Counties.

Even if the facility is not located in an area that requires that a Fugitive Dust Control Plan be prepared, it is prudent to prepare and follow a plan. Fugitive dust violations occur at any site that causes visible emission to exceed the property boundary. The IAAP Environmental Committee believes that using this template and following the plan that the mine site develops will help the site to be compliant with air emissions regulations. Companies that fail to recognize the importance of environmental matters and compliance will ultimately come to know their local, county, state, and federal regulatory officials who may, as part of an enforcement action, require that the Fugitive Dust Plan be prepared.

ABOUT MODIFYING THIS TEMPLATE

Text highlighted in yellow must be modified by the person preparing this Fugitive Dust Control Plan for the particular site where it will be used. Remove the yellow highlighting after modifying the text. Other text may be modified to describe your operations more accurately. If a whole section of this template does not apply to your operations, you may delete it and the section numbers should update if you are modifying this template using Microsoft Word.

Fugitive Particulate Matter Control Plan

Name of Site

Address

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1. Introduction

This document serves as the Fugitive Particulate Matter Control Plan (The Plan) for the site located at ADDRESS (the Site). This Plan is used as the primary reference for controlling particulate matter, or dust. Guidance for the format of this Plan is provided in Illinois Administrative Codified Regulations 35 IAC 212.309 and 310. The activities listed in this Plan shall not be required when the wind speed exceeds 25 mph, pursuant to 35 IAC 212.314.

Internal personnel making visible emission observations will generally follow the guidelines typical of USEPA Method 22 procedures. The person performing the observation should have a clear view of the activity and be at least 15 feet away from that activity. The sun should be positioned at the back of the observer. The observation period shall be a maximum of six minutes, or the length of the process being observed.

COMPANY NAME performs the LIST OF OPERATIONS AT THE SITE.

Particulate matter emission sources at the site include the following:

1. Material Storage Piles
2. Roads, including entrances and exits, at the site.
3. ADD OTHER DUST SOURCES

Edits to this plan, after it was adopted by the company, are reflected in the Amendments section.

1. Source Information

NAME OF SITE

ADDRESS

Owner of the Site: OWNER

Operator of the Site: OPERATOR

Map of the Site: The map of the Site includes site boundaries, structure locations, internal roads, entrance and exit ways, potential emission points, and locations of control devices. This is located in Appendix A.

1. Description of Unloading and Transportation Equipment with Pollution Control Equipment
   1. Unloading Operations

The Site receives sand and stone. All materials are transported to the site in trucks and barges. Barges are unloaded through the use of a clamshell loader.

* 1. Transporting Options

Loaders and/or conveyors are used to load materials into storage piles.

Any dust generated by delivering raw materials and loading cement and aggregate to the trucks is controlled by dust collectors and/or limiting drop height.

* 1. Best Management Practices

The following is a table which shows the Best Management Practices for each potential dust emission source:

|  |  |
| --- | --- |
| **Emission Source** | **Best Management Practice** |
| Bulk Material Storage Areas and Fill Operations | * Trucks delivering material remain covered until unloading material at the site * Material does not overflow or escape storage bin walls * Water or other dust suppressant is applied to materials when needed * Periodic inspection of all bulk material storage bins/piles. |
| Transfer Points | * A minimal drop height will be used when transferring material into the feed hopper * A minimal drop height will be used when transferring material from conveyors * Ensure hose connections for cementitious material are fully enclosed with no leaks * Periodic inspections to ensure best management practices are sustained |
| Conveyors | * Maintain constant speed of conveyors to limit dust * Periodic inspections to ensure best management practices are sustained |
| Traffic Areas/Roadway Cleaning | * Paved plant roads are maintained using a wet sweeper truck during Site operation as necessary to minimize undesired transport of fugitive dust (weather permitting). * Entrances/Exits are maintained using a wet sweeper truck during Site operation (weather permitting). * Maintain and post a 5 mph speed limit for the Site * Periodic inspections to ensure best management practices are sustained |
| Strip Mining/Surface Mining | * A minimal drop height will be used when transferring material into equipment * Periodic inspections to ensure best management practices are sustained * Unpaved roads are maintained using a Water Truck during Site operation as necessary to minimize undesired transport of fugitive dust (weather permitting). |
| Drilling/Blasting | * Use wet drilling, water spray techniques, and/or a dust collector when possible * Periodic inspections to ensure best management practices are sustained |
|  |  |

Section 4.0 Emission Sources

4.1 Truck/Barge/Rail Loading and Unloading

Activity: Material Unloading

Applicable Codified Regulations: 35 IAC 212.301

Best Management Practices Associated with Activity

A non-accelerating dump speed during unloading

Scheduled Performance of Practice: Daily

Bulk aggregate materials are transported to the site by storage trucks and unloaded to the bulk material storage bins or stockpiles on the property. A non-accelerating dump speed shall be used for all sand and stone deliveries.

Activity: Material Loading

Applicable Codified Regulations: 35 IAC 212.301

Best Management Practices Associated with Activity

* Drop height adjustment and/or choke feeding, wet methods, and/or other dust control method will be used.

While loading vehicles (trucks, rail cars, or barges), drop height will be limited and/or choke feeding, wet methods, or other dust control methods will be used.

4.2 Bulk Material Storage Areas and Fill Operations

Activity: Material Storage

Applicable Codified Regulations: 35 IAC 212.301, 315

Best Management Practices Associated with Activity

* + - Trucks delivering material remain covered until unloading material at the site
    - Material does not overflow or escape storage bin walls
    - Water or other dust suppressants are applied to materials as necessary to control dust

Scheduled Performance of Practice: As required

Materials are delivered to the site using truck, barge and/or rail transport. All of these transports must be tarped until the process of unloading. The material stored must not exceed the height of the storage bin walls. In addition, the material must remain within the storage bin. These materials do not generate dust. However, in the unlikely event that dust is observed, water or another dust suppressant shall be placed on the material if applicable.

4.3 Transfer Points and Conveyors

Activity: Material Transfer

Applicable Codified Regulations: 35 IAC 212.301, 305, 315

Best Management Practices Associated with Activity

* + - A minimal drop height will be used when transferring material into the feed hopper
    - A minimal drop height will be used when transferring material from conveyors
    - Maintain constant speed of conveyors to limit dust

Scheduled Performance of Practice: Daily

Materials delivered to the feed hopper for each plant using loaders. The loaders shall unload the material at a minimum drop height to prevent dust from being generated. In addition, conveyors will be placed to limit dust at transfer points. Finally, conveyors will operate at a constant speed during material transfer operations.

4.4 Strip/Surface Mining

Activity: Strip and Surface Mining

Applicable Codified Regulations: 35 IAC 212.301, 305, 315

Best Management Practices Associated with Activity

* + - Trucks carrying material will follow speed limits
    - A minimal drop height will be used when transferring material to equipment

Scheduled Performance of Practice: Daily

Materials gathered from mining activities shall be placed in equipment using a minimal drop distance. All trucks carrying material shall follow speed limits.

4.5 Drilling and Blasting

Activity: Drilling and Blasting

Applicable Codified Regulations: 35 IAC 212.301, 315

Best Management Practices Associated with Activity

* + - Use wet drilling/spraying or dust collection whenever possible

Scheduled Performance of Practice: Daily

Wet drilling, spraying, or dust collection shall be used for drilling and blasting if the process can continue to function at optimal conditions and if dust is present.

4.7 Traffic Areas and Roadway Cleaning

4.7.1 Activity: Operation on Plant Roads

Applicable Codified Regulations: 35 IAC 212.301, 306

Best Management Practice Associated with Activity

* + - Paved plant roads are maintained using a sweeper truck, water truck or similar apparatus during Site operation (weather permitting).

Scheduled Performance of Practice: As needed

The internal roads of the site shall be mitigated to control dust generated from traffic.

A determination for visible emissions from the plant roads shall be observed. If visible emissions are observed, corrective action shall be performed.

4.7.2 Activity: Entrance/Exit Operation

Applicable Codified Regulations: 35 IAC 212.301, 306

Best Management Practice Associated with Activity

* + - Entrances/Exits are maintained using a sweeper truck, water truck or similar apparatus during Site operation (weather permitting).

Scheduled Performance of Practice: As needed

The Entrances/Exits of the plant experience heavy volumes of traffic during a normal workday. These areas shall be swept as needed to control dust.

In addition, a determination for visible emissions from the Entrances/Exits shall be observed. If visible emissions are observed, corrective action shall be performed.

4.7.3 Activity: Ancillary Roadway Activities

Applicable Codified Regulations: 35 IAC 212.301, 306

Best Management Practices Associated with Activity

* + - Maintain and post a 5 mph speed limit for the Site

Scheduled Performance of Practice: As needed

For safety and to prevent dust generation, all vehicles shall be limited to a speed of five miles per hour. This shall always be enforced.

Section 5.0 Monthly Inspections

Monthly Inspections shall be performed on the following equipment:

* Storage Bin Walls
* All Sweepers and Water Trucks
* Spray bars and wet drilling equipment
* Conveyors and other material transfer equipment

Section 6.0 Fugitive Particulate Matter Control Plan Amendments

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Amendment | Name | Signature |
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Appendix A – Site Plan