

## **32 BUILDING INCINERATOR COMPLEX FUGITIVE DUST CONTROL PROGRAM**

The Dow Chemical Company  
Environmental Operations Business  
The Dow Chemical Company  
34 Building  
Midland, MI 48667  
Attn: Production Leader, Environmental Operations

The following methods will be used to minimize fugitive dust emissions from the 32 Kiln Incinerator Complex during operation in order to control fugitive dust at the site as required in Section 324.5524 of Act 451 of 1994.

### 32 Kiln Complex - General

1. This fugitive dust control plan will be utilized to control the emissions of fugitive dust from roads and parking lots for the 32 kiln complex.
2. The 32 kiln fugitive dust control plan map B1-11000-960530 shows the 32 kiln complex affected by this dust control plan.
3. Attachments A and B to this plan show the engineering specifications for the dust control equipment for unloading solids into the 32 kiln bulk solids unloading area.
4. The elevating conveyor for 32 kiln bulk solids area is fully enclosed and is under vacuum to a dust collector during operation. A block flow of this operation is shown on Attachment A.
5. Incinerator ash from the 32 kiln will initially be placed into Building 33 adjacent to 32 kiln. Building 33 is an enclosed building.
6. The truck access doors to 32 kiln bulk solids, 33 Building (incinerator ash) and 1163 Building will remain closed unless trucks are entering, exiting, or in the process of loading or unloading solids or; if it is necessary to keep the doors open for personnel working purposes and appropriate control measures are in place to prevent fugitive emissions from exiting the building.
7. The 32 kiln complex, including Building 33 (incinerator ash), 32 kiln bulk solids unloading area, and 1163 Building will be inspected weekly for areas needing fugitive dust control measures. Records of these inspections will include the date, time, inspector, and action taken in the event of a fugitive dust observation. These records will be maintained at the facility for 5 years.
8. A vacuum gauge on the inlet duct prior to the dust collector will be inspected weekly to ensure greater than 1 inch of water column. Records of these inspections will include the date, time, inspector, and any action taken if necessary. These records will be maintained at the facility for 5 years.

### 32 Kiln Complex – General – Continued

9. The exit stream from the dust collector will vent to the 32 kiln. However, a breakthrough detector will be installed to continuously monitor for unusual breakthrough from the dust collector cartridges during operation.
10. This plan will be updated if corrective actions from deficiencies noted in the inspections indicate further dust control measures are required.

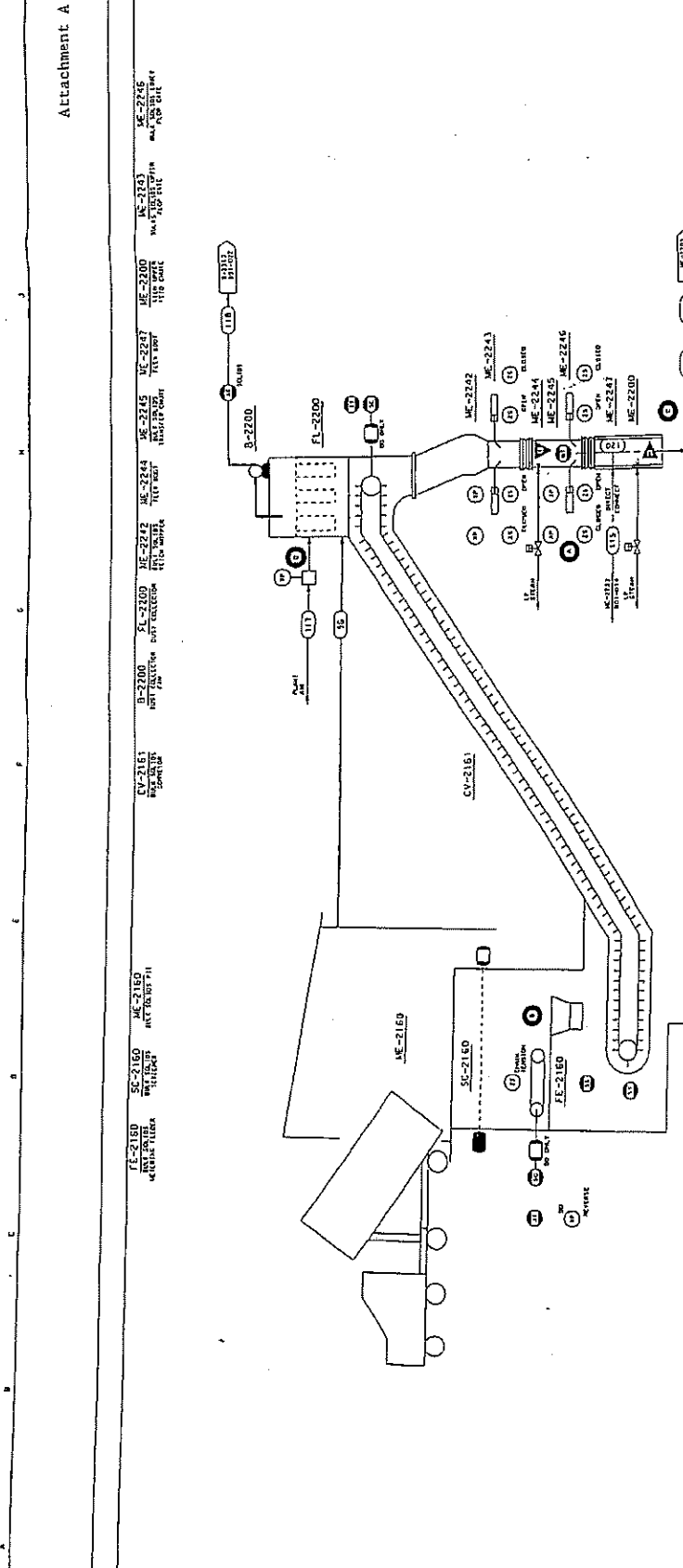
### Trucks in 32 Kiln Area

1. The tires and exterior portions of trucks leaving Building 33 (incinerator ash), 32 kiln bulks solids unloading area, and 1163 Building will be inspected and cleaned if necessary to remove exterior accumulations of ash and/or dirt in a manner to prevent tracking on paved roadways.
2. Dust generation during transport of solids will be minimized by covering the truck box with a tarp or equivalent cover (i.e. metal cover).
3. Trucks leaving the solids unloading area will be covered or the interior cleaned to prevent fugitive dust emissions.
4. Dust generation will be kept to a minimum during loading of ash or soil by spraying with water when dusting is observed.

### Paved Roads and Parking Lots

1. All paved access roads to and from the incinerator complex indicated on the 32 kiln fugitive dust control plan map B1-11000-960530 will be cleaned when dusting first can be seen as vehicles travel on roadways.
2. All paved access roads to and from the incinerator complex indicated on the 32 kiln fugitive dust control plan map B1-11000-960530 will be cleaned a minimum of quarterly during the months of April through October.
3. Paved parking lots will be cleaned when dusting can first be seen as vehicles travel across lots, and a minimum of once per year.
4. No waste or recycled oil will be used for dust suppression.
5. The posted speed limit will be no higher than 30 mph to minimize the generation of dust. Roads and traffic patterns are shown on map B1-11000-960530.
6. Fugitive dust plan items pertaining to unpaved roads and open lots have been excluded from this plan since all roads and parking areas shown on drawing B1-11000-960530 are paved.

Attachment A



- 1. NO. OF FEEDS TO UNIT, WITH NUMBER IN EACH FEED, SHALL BE 100%
- 2. UNIT TO UNIT FEEDS OF SOLIDS
- 3. UNIT WEIGHT PER HOUR
- 4. UNIT CAPACITY TO IS METRIC

FE-2180	ME-2160	SC-2160	ME-2160	FE-2160	CV-2161	B-2200	FL-2200	ME-2242	ME-2243	ME-2244	ME-2245	ME-2246	ME-2247	ME-2200	ME-2245
FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED	FEED

NO.	REV.	DATE		BY		DESCRIPTION
		DD	MM	DD	MM	



THE DOW CHEMICAL COMPANY  
 BULK SOLIDS  
 ME-2160 CV-2161 FE-2200  
 PROCESS FEED SHEET

Dust Collection Group



Donaldson Company, Inc.  
 Torit / DCE / Aercology Divisions  
 16821 Buccaneer #104  
 Houston, TX 77058-2544  
 Bill Mac / District Manager  
 Tel: 800.457.2316  
 Fax: 281.486.8016  
 Cell: 281.773.6417  
 e-mail: bill.mac@mail.donaldson.com

**QUOTATION**

File#dowg10rev5update

Date: 2001.10.23

Dow Chemical Company  
 400 W. Sam Houston Pkwy S.  
 Houston, TX 77042-1299  
 Attention: Diane Petree  
 Inq.: 960530-5320

Dear Ms. Petree

Donaldson Company / Dust Collection Group is pleased to provide you with the following quotation, revised per our various e-mails and phone conversations.

Equipment Quoted:

- Dust Collector FL-2200, Centrifugal Fan B-2200, Electric Motor MB-2200 as follows:
- Donaldson/Torit model DFT-12 Downflo II Cartridge Dust Collector
- Updraft Velocity is less than 0.0 Ft/Sec (airflow is actually "downflow").
- Ultra-Web II Filter Cartridges, efficiency = 99.999% @ 0.3-0.5 micron.
- Ground Lug on Leg. Filter Ground Test Documentation provided.
- NEMA 4X Solenoid Enclosure (Nickel-plated construction) with 120-volt solenoid valves, Solenoid Mufflers are included. 60-70 psig compressed air supply is acceptable for cleaning operation.
- Clean Air Plenum lined for sound attenuation plus Manifold Enclosure for sound attenuation.
- Pulse Timer (120-volt) in NEMA 4X (Stainless Steel) Enclosure and Magnehelic Gauge
- Hopper Access Door (12"Ø).
- Air Inlet: 16" Ø with ANSI flange pattern.
- Air Outlet: 8" Ø with ANSI flange pattern transition on outlet for ducting to Fan.
- Dust Outlet: 8" Ø with ANSI flange pattern (for matching Rotary Valve by others).
- Fan for 6,000 cfm @ 16" w.g. Fan shall be field-mounted remote from the dust collector. Fan includes: Unitary Base (without Spring Isolation), Ceramic-Felt Shaft Seal, Wheel Retainer, Continuous Welded Wheel, Rexnord Omega Spacer Coupling
- EPDM Flexible U-joints.
- Fan Inlet Box with top inlet, transition from 18" Ø ANSI flange pattern to Inlet Box flange pattern.
- Fan Silencer included, with discharge transition to 18" Ø ANSI flange pattern.
- Acoustic Blanket to attenuate radiated housing noise to 85 dBA.

