



State of Ohio Environmental Protection Agency

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P.O. Box 1049  
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RE: DRAFT PERMIT TO INSTALL MODIFICATION

CERTIFIED MAIL

LORAIN COUNTY

Application No: 02-07092

DATE: 6/28/00

Westwood Facility  
Gail Twymon  
76 South Main St.  
Akron, OH 44308

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NEDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 6/28/00  
Effective Date: 6/28/00**

DRAFT ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 02-07092

Application Number: **02-07092**  
APS Premise Number: **0247000875**  
Permit Fee: **\$500**  
Name of Facility: **Westwood Facility**  
Person to Contact: **Gail Twymon**  
Address: **76 South Main St.**  
**Akron, OH 44308**

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**12833 Avon Belden Rd**  
**Eaton Twp., OHIO**

Description of modification:  
**Administrative modification of PTI #02-07092 issued on 1/7/94, modified on 2/9/95 to settle an ERAC appeal.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

**Westwood Facility**

Facility ID: **0247000875**

**PTI Application: 02-07092**

**Modification Issued: To be entered upon final issuance**

## **GENERAL PERMIT CONDITIONS**

### **TERMINATION OF PERMIT TO INSTALL**

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

### **NOTICE OF INSPECTION**

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

### **CONSTRUCTION OF NEW SOURCES**

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

### **PERMIT TO INSTALL FEE**

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

### **PUBLIC DISCLOSURE**

**Westwood Facility**

Facility ID: **0247000875**

**PTI Application: 02-07092**

**Modification Issued: To be entered upon final issuance**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

### **APPLICABILITY**

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

### **BEST AVAILABLE TECHNOLOGY**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

### **PERMIT TO OPERATE APPLICATION**

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed at least 90 days prior to start-up of the source.

### **NINETY DAY OPERATING PERIOD**

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

### **SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION**

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

**Westwood Facility**Facility ID: **0247000875****PTI Application: 02-07092****Modification Issued: To be entered upon final issuance****AIR EMISSION SUMMARY**

The air contaminant sources listed below comprise the Permit to Install for **Westwood Facility** located in **LORAIN** County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
F001	Plant roadways and parking areas	BAT is the elimination or minimization of visible emissions of fugitive dust	3745-31-05 3745-15-07 3745-17-08	90% control efficiency on paved areas and 95% control efficiency on unpaved areas
F002	Landfill operations	BAT is the elimination or minimization of visible emissions of fugitive dust	3745-31-05 3745-15-07 3745-17-08	Elimination or minimization of visible emissions of fugitive dust in accordance with all applicable OAC rules

**SUMMARY****TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons/Year</u>
TSP	2.75

**CONSTRUCTION STATUS**

The Northeast District Office shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: F001, F002.

**RECORD(S) RETENTION AND AVAILABILITY**

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

**Westwood Facility**

Facility ID: **0247000875**

**PTI Application: 02-07092**

**Modification Issued: To be entered upon final issuance**

### **REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to OEPA Northeast District Office-DAPC, 2110 Aurora Road, Twinsburg, Ohio 44087.

### **MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

### **MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the OEPA Northeast District Office-DAPC, 2110 East Aurora Road, Twinsburg, Ohio 44807.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

### **AIR POLLUTION NUISANCES PROHIBITED**

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

### **ADDITIONAL SPECIAL TERMS AND CONDITIONS**

1. This facility shall not be installed until all appropriate permits have been obtained from every applicable division of the Ohio EPA.
2. This facility shall not accept or dispose of any asbestos or asbestos-containing materials. The receipt of any asbestos or asbestos-containing waste without proper approval of the Ohio EPA is a violation of the NESHAPS for asbestos and the Ohio EPA Permit to Install rules.
3. This facility shall not cause or allow any open burning at this location.
4. The owner or operator shall not initiate or allow any salvage operation to be conducted at this location without prior approval of the Ohio EPA.
5. The permit holder shall operate this facility in such a manner to prevent a public nuisance from occurring in accordance with Ohio Administrative Code (OAC) Rule 3745-15-07.

6. The owner or operator of this facility shall not install any air contaminant source other than those listed above, including a gas recovery system, fuel fired boiler, fuel dispensing equipment, or a diesel generator without first obtaining a Permit to Install from the Ohio EPA.
7. This facility shall establish and operate an ambient PM<sub>10</sub> monitoring network in the vicinity of the Westwood Facility. The number and location of monitoring sites shall be based on accepted modeling practice and shall adequately monitor the areas of maximum impact of the particulate emissions and the background concentration. Determination of the particulate sampling locations shall be coordinate with, and subject to the prior approval of, the Ohio EPA. Within 45 days after the effective date of this permit, this facility shall submit a plan describing the proposed network. This plan shall provide documentation detailing the criteria and reasoning for the number and location of monitoring sites, along with the modeling information.

Following approval of the PM<sub>10</sub> sampling network plan, 60 days will be allowed to locate the samplers in accordance with the plan. All samplers shall be sited and located in accordance with the requirements of 40 CFR, Part 58 and any subsequent amendments.

The network shall be equipped with PM<sub>10</sub> samplers meeting the reference methods specified in 40 CFR, Parts 50 and 53 with the additional requirement that each instrument shall be equipped with a continuous flow meter (recording transducer), unless the instrument uses volumetric flow control.

The facility shall operate all sites on an every sixth day schedule (run on the same schedule as the Ohio air sampling network) and in accordance with the following requirements:

- a. the operating procedures identified in 40 CFR, Parts 50 and 58 and the “Quality Assurance Handbook for Air Pollution Measurement Systems” Volume I - Principles (EPA-600/9-76-005) and Volume II - Ambient Air Specific Methods (EPA-600/4-77-027a) shall be followed;
- b. the flow rate of each instrument shall be calibrated after every 500 hours of operation and after any instance of major repair or maintenance; and,
- c. an operator’s logbook shall be maintained for each site location with a format as specified in guidance provided by the Ohio EPA.

This facility shall meet the quality assurance activities specified in 40 CFR, Part 58, Appendix B. Independent audit (accuracy) results and precision results must be submitted quarterly to the Technical Services Section of the Ohio EPA, Division of Air Pollution Control in Columbus, and Ohio EPA Northeast District Office with 45 days after the end of the calendar quarter. Equipment sitting and performance must be in accordance with “Ambient Monitoring guidelines for Prevention of Significant Deterioration (PSD),” (EPA-450/4-80-012).

Personnel from the Ohio EPA shall be provided with access to each site location. The site operator and/or Supervisor shall accompany the Ohio EPA personnel on any site inspection or audit and respond to inquiries regarding instrument operations and maintenance.

Appropriate corrective actions must be taken by the facility following the identification of any problem by the independent auditor, or personnel from the Ohio EPA.

All air quality measurement data shall be reported to the Technical Services Section of the Ohio EPA, Division of Air Pollution Control in Columbus, within 18 days after the end of each calendar quarter. All such data shall be submitted to the Aerometric Information Retrieval System (AIRS) in a format compatible for direct entry in the Ohio EPA Ambient Air Quality Data Handling System.

This facility shall begin operating the air monitoring system prior to the placement of flyash. A background particulate concentration and a background concentration of flyash for the ambient air will be determined prior to the installation of the facility in a manner acceptable to Ohio EPA. All microscopic analysis for flyash, required by these special terms and conditions, shall report the concentration of 'characterized flyash' identified as having been formed at high temperatures (typical of the flyash formed by utility boilers.)

Until a representative number of background samples are collected, analyzed and approved of by the Ohio EPA, no construction or pre-construction activities should take place at the facility.

This facility shall maintain all records and filters from this monitoring program for a period of at least five years.

The owner/operator shall have the filters from the first run date of every month (and any specific dates requested by the Ohio EPA) analyzed for the characterized flyash. An upwind and a downwind filter shall be analyzed for their characterized flyash concentration for the requested run dates(s). Upon the request of the Ohio EPA, these records and filters shall be made available for an independent review and/or analysis.

This facility shall continue to operate the PM<sub>10</sub> ambient monitoring system as described in the permit condition until the Ohio EPA determines that the monitoring is no longer necessary or the facility closes.

8. Facility Roadways & Parking Areas

- a. This facility shall maintain and operate a dust control program for unpaved and paved roadways, parking areas, entrance, unloading areas and berms in accordance with OAC 3745-17-08(B)(2), OAC 3745-17-08(B)(8), OAC 3745-17-08(B)(9), and the work practice plan described in Appendix A of this permit.

9. Ash Disposal Operations

- a. This facility shall unload all trucks of ash onto a level surface and shall minimize the free-fall distance of ash from the trucks when unloading so as to minimize or eliminate visible emissions of fugitive dust.

The ash will be conditioned at the power plant to a moisture content between 15 and 25 percent moisture prior to transport to this facility. Any dusty waste materials received shall be watered prior to or during dumping operations.

All vehicles hauling waste shall be closed, covered, or tarped coming to or leaving the facility in accordance with OAC 3745-17-08(B)(7).

No truck bed vibratory equipment shall be operated at this facility.

- b. All ash which has been placed shall be compacted and covered with dirt or other suitable material by the end of each “working day”. “Working day” includes Saturday operations.

If this practice cannot be conducted on any particular day(s) because of inappropriate weather conditions, the permit holder must commence covering the existing fill on the following suitable day.

- c. This facility shall be used exclusively for ash disposal. The ash received at the facility shall only be from power plant operations owned by the Cleveland Electric Illuminating Company and the Toledo Edison Company.
- d. Except as otherwise specified below, this facility shall operate only during the hours from 8:00 a.m. to 5:00 p.m. Monday through Friday. This facility shall operate only during the hours from 8:00 a.m. to 2:00 p.m. on Saturday, with ash placement from trucks further restricted to only occur between the hours of 8:00 a.m. and 12:00 noon. Excluded from these restrictions are the minimum reasonable times which diesel engines may idle solely for the purposes of warming up and cooling down, or operations solely for the purpose of fugitive dust control.

Except as otherwise specified below, this facility shall not operate on the following holidays: Labor Day, Memorial Day, Easter, July 4<sup>th</sup>, Thanksgiving, and Christmas Day. Holiday operations (where the holiday falls on a weekday or Saturday) or full day operations from 8:00 a.m. to 5:00 p.m. on Saturday cannot occur without receiving prior approval from Ohio EPA.

If an unforeseeable event should occur (e.g. failure of an ash silo) which would necessitate holiday (full day Saturday) operation, and Ohio EPA cannot be reached to obtain prior approval, this facility can operate but must submit a report to Ohio EPA detailing the reason why holiday (or full day Saturday) operation was required. This report is due within two working days after the holiday (or full day Saturday) operation. The hours of operation under these conditions shall still be limited to between 8:00 a.m. and 5:00 p.m. Ohio EPA reserves the right to strictly require prior approval for holiday (full day Saturday) operation; the owner/operator of the facility shall be notified in writing by Ohio EPA should prior approval become the exclusive way by which holiday (full day Saturday) operation may occur.

- e. No ash placement or earth moving operations shall occur at this site when the sustained wind speed exceeds 30 miles per hour as measured by the wind speed indicator at the disposal site. The wind speed indicator shall be equipped with a continuous pen recorder. The records generated by the wind speed indicator shall be made available to the Director or his representative upon request.

- f. The ash fill area shall be limited as described in the plans submitted with the application (blueprints labeled 6BY-201 through 6BY-218, no revision number).
- g. Westwood Facility shall take the necessary measures to ensure that any affected portion of State Route 83 used by traffic in route to this facility remains clear of excessive dust generated by ash disposal trucks. This may include flushing with water and/or sweeping this portion of State Route 83 as needed.
- h. The material storage piles shall vegetated or treated with water or other suitable dust suppressant chemicals in accordance with OAC 3745-17-08(B)(6). Any portion of a storage pile which remains undisturbed for two weeks or longer shall be treated with dust suppressant chemicals. Any portion of a storage pile which remains undisturbed for a month or longer shall be vegetated or treated with dust suppressant chemicals every two weeks.
- i. A facility operations log shall be kept. All occasions where the operator is unable to place a daily cover (as described in 9.5) or when operations are suspended due to high winds (as described in 9.e.) shall be noted. The date, time and specific circumstances shall be recorded, as well as the date and time when normal activities were resumed. This log shall be kept for a period of not less than three years and shall be made available to the Director or his representative upon request.

10. Closure

As each cell area is completed, it shall be capped and seeded with a suitable vegetative cover as soon as practicable. In the cases where truck traffic will cross the closed cell to reach an active cell, a paved roadway shall be installed as described in Appendix A.

11. Quarterly Leachate Analysis

- a. Only non-toxic fly ash shall be disposed of at this site. Fly ash will be considered to be non-toxic if leachate tests of the fly ash do not exceed thirty (30) times the concentration of each parameter specified in OAC Rule 3745-18-11(B), "Ohio Drinking Water Standards". These standards are as follows:

<u>Parameter</u>	<u>Standards (DWS)</u>	<u><math>\frac{30}{DWS} \times</math></u>
Arsenic	0.05 mg/1	1.5 mg/1
Barium	1.00 mg/1	30 mg/1
Cadmium	0.01 mg/1	0.3 mg/1
Chromium	0.05 mg/1	1.5 mg/1
Lead	0.05 mg/1	1.5 mg/1
Mercury	0.002 mg/1	0.06 mg/1
Selenium	0.01 mg/1	0.3 mg/1

- b. The non-toxicity of fly ash shall be demonstrated by the methods as required by the Ohio EPA, Division of Water Pollution Control, Policy 4.07.

- c. In addition to the routine grab samples of ash to be analyzed, samples shall be collected during the injection of boiler cleaning solution. The additional collected samples of bottom ash and flyash shall be representative of the ash generated during the injection of boiler cleaning solution . Analyses for both routine grab samples and samples taken during boiler cleaning solution injection shall be presented in the Quarterly Leachate Report.
  
- d. Updated ash analyses shall be submitted to the Northeast District Office on a quarterly basis. The first analysis shall be submitted no later than three (3) months after the effective date of this permit and subsequent reports shall be due on February 1, May 1, August 1 and November 1 of each year.

APPENDIX A

WORK PRACTICE PLAN FOR THE CONTROL OF  
FUGITIVE DUST EMISSIONS FROM PAVED AND  
UNPAVED ROADWAYS AND PARKING AREAS  
AT THE WESTWOOD FLYASH DISPOSAL FACILITY

A. Dust control program for unpaved roadways, parking areas, entrance, unloading areas and berms, and irregular paved surfaces that cannot be adequately cleaned under the provisions of Section B of this appendix:

1. The facility shall employ the following dust control measures on all of the surfaces described above such that the program achieves and maintains a 95 percent control efficiency as determined by the methodology set forth in the U.S. Environmental Protection Agency's reference document entitled Control of Open Fugitive Dust Sources (EPA-450/3-88-008), Section 3.0, "Unpaved Roads":

- a. All unpaved roadways and parking areas, entrance, unloading areas and berms and irregular paved surfaces that cannot be adequately cleaned under the provisions of Section B of this Appendix shall be initially treated with a chemical dust suppressant (petroleum resin emulsion, asphalt emulsions or acrylic cements) for a two-month period after the effective date of this appendix, at a sufficient frequency and intensity to establish a minimum ground inventory of 0.25 gallon of chemical dust suppressant per square yard of surface. For each chemical dust suppressant application during the initial two-month period of the dust control program, the concentrated chemical dust suppressant shall be diluted at a ratio of not more than five parts of water to one part of concentrate and the resulting dust suppressant solution shall be applied at a minimum rate of 1.0 gallon per square yard of unpaved surface.
- b. After the establishment of the minimum ground inventory of chemical dust suppressant during the period of two months after the effective date of this appendix, all unpaved roadways shall be treated with chemical dust suppressant (petroleum resin emulsion, asphalt emulsions or acrylic cements) once every four weeks on a year-round (12-month) basis, except as otherwise provided in Section (A)(1)(d) of this appendix.

For each such application, the concentrated chemical dust suppressant shall be diluted at a ratio of not more than seven parts of water to one part of concentrate and the resulting dust suppressant solution shall be applied at a minimum rate of not less than 0.5 gallon per square yard of unpaved surface area. The dust suppressant applications after the initial two-month period shall be sufficient to maintain the required minimum ground inventory and a 95 percent control efficiency.

- c. After the establishment of the minimum ground inventory of chemical suppressant during the period of two months of the effective date of this appendix, all unpaved parking areas, entrance, unloading areas and berms, and irregular paved surfaces that cannot be adequately cleaned under the provisions of Section B of this appendix shall be treated with chemical dust suppressant (petroleum resin emulsion, asphalt emulsions or acrylic cements) one every four weeks on a year-round (12-month) basis, except as provided in Section (A)(1)(b) of this appendix.

For each such application, the concentrated chemical dust suppressant shall be diluted as a ration

of not more than seven parts of water to one part of concentrate and the resulting solution shall be applied at a minimum coverage rate of 0.5 gallon per square yard of surface area. The dust suppressant applications shall be sufficient to maintain the required ground inventory and a 95 percent control efficiency.

- d. The requirements of sections (A)(1)(a) through (A)(1)(c) of this appendix may be suspended during any one of the following events:
- i. when the surface is visibly wetted as a result of a precipitation of equal to or greater than one quarter inch of rainfall as measured by an on-site rain gauge in a twenty-four (24) hour period; or
  - ii. when the surface is covered with snow and/or ice.

Resumption of the treatment requirements of Sections (A)(1)(a) through (A)(1)(c) of this appendix shall occur immediately upon cessation of the above event(s).

2. The facility shall assure the availability, required scheduling, and proper maintenance of spray trucks that are designed and equipped, at a minimum with a 2,000 gallon capacity tank, a spray bar system capable of applying the dust suppressant solution at a coverage rate of at least 1.3 gallons per square yard of surface area, a certified flow metering device calibrated in units of gallons per minute, and apparatus that will facilitate manual application of the solution to areas not readily accessible by the spray truck.
3. The facility shall, once a traffic pattern develops inside a cell forming a road segment which will last for two or more weeks, begin a chemical dust suppression program on these traffic areas in accordance with Section (A)(1) of this appendix. For traffic patterns, within a cell area, which will last less than two weeks the facility may choose to use only the measures described in Section (A)(4) of this appendix.
4. Between periods of dust suppressant application, or in changing traffic areas inside the cell areas, the facility shall apply water as a dust suppressant on a twice daily, year-round (12-month) basis, except as otherwise provided in Section (A)(1)(d) of this appendix.
5. The facility shall maintain records concerning the dust control program in accordance with the following:
  - a. the following information shall be recorded on a daily basis:
    - i. for periods during which the treatment requirements of Sections (A)(1)(a) through (A)(1)(c) and (A)(3) through (A)(4) of this appendix have been suspended pursuant to the provisions of Section (A)(1)(d) of this appendix;
      - aa. the date(s) of suspension;
      - ab. the specific treatment operations suspended; and,

- ac. the daily precipitation in inches of water and/or the presence of snow and/or ice cover, whichever is/are applicable;
  - ii. the date each unpaved roadway, parking area, entrance, unloading area and berm, and irregular paved surface that cannot be adequately cleaned under the provisions of Section B of this appendix, was treated;
  - iii. an identification of each unpaved roadway, parking area, entrance, unloading area and berm, and irregular paved surface that cannot be adequately cleaned under the provisions of Section B of this appendix, or portion thereof, which was treated;
  - iv. an identification of the dust suppressant spray vehicle employed for the treatment;
  - v. the name of the operator who performed the treatment;
  - vi. the type of dust suppressant (water or specific name of chemical dust suppressant) applied to each surface area;
  - vii. the dilution ratio (gallons of chemical dust suppressant to gallons of water), if applicable;
  - viii. the amount of dust suppressant solution applied to each surface area (gallons per square yard); and,
  - ix. an identification of the areas where manual spraying was conducted;
- b. the records collected pursuant to Section (A)(5)(a) of this appendix shall be retained by the facility for a period of not less than three years and shall be made available to the Director or his representative upon request; and,
- c. the facility shall submit the following reports to the Director or his representative:
- i. within thirty (30) days after the end of each calendar quarter, a quarterly report which contains all of the information recorded pursuant to Section (A)(5)(a) of this appendix; and,
  - ii. within five (5) days of any non-compliance with the requirements of Section (A)(1) of this appendix, a report which includes a detailed explanation of the cause of such non-compliance, all remedial actions required, and the date by which compliance was or will be reestablished.

B. Dust control program for paved roadways:

1. The facility shall employ the following dust control measures for all of the paved roadways, parking areas, entrance, unloading areas and berms such that the program achieves and maintains a 90 percent control efficiency as determined by the methodology set forth in the U.S. Environmental Protection Agency's reference document entitled Control of Open Fugitive Dust Sources (EPA-450/3-88-008), Section 2.0 "Paved Roads":

- a. all paved roadways shall be cleaned via concurrent water flushing and vacuum sweeping on at least a twice daily, year-round (12-month) basis, except as otherwise provided in Sections (B)(1)(b) and (B)(1)(c) of this appendix;
  - b. the requirements of Section (B)(1)(a) may be suspended when the paved roadways are covered with snow and/or ice. Resumption of cleaning shall occur when snow and/or ice no longer covers the paved roadways except as provided in Section (B)(1)(c) of this appendix;
  - c. the water flushing requirements of Section (B)(1)(a) of this appendix may be suspended when the paved roadways are visible wetted as a result of precipitation of equal to or greater than one quarter inch of rainfall as measured by an on-site rain gauge during a twenty-four (24) hour period. Resumption of the water flushing requirements shall occur when the paved roadways are no longer visible wetted; and,
  - d. any irregular paved surfaces that cannot be feasibly or adequately cleaned by vacuum sweeping shall be treated by spraying with dust suppressant solution in accordance with the provisions of Section (A);
2. the facility shall assure the availability, required scheduling, and proper maintenance of vacuum sweeping vehicles. These vehicles shall be equipped with an adequate water tank and a spray bar mounted ahead of the brooms unless separate vehicles are utilized for flushing. The collection hopper of the vacuum sweeping vehicle shall be designed and maintained so as to prevent fugitive dust emissions;
  3. material collected by the vacuum sweeping vehicles shall be handled and disposed of in a manner that minimizes fugitive dust emissions, including, but not limited to, wet dumping and chemical treatment of stabilization of stored material; and,
  4. the facility shall maintain records and submit reports concerning the dust control program in accordance with the following:
    - a. the following information shall be recorded on a daily basis:
      - i. for days during which any of the cleaning requirements of Section (B)(1)(a) of this appendix have been suspended pursuant to the provisions of Section (B)(1)(b) and (B)(1)(c) of this appendix;
        - aa. the date(s) of suspension;
        - ab. the specific cleaning operations suspended; and,
        - ac. the presence of snow and/or ice cover and/or the daily precipitation in inches of water;
      - ii. the date each paved roadway was cleaned

- iii. an identification of each paved roadway that was cleaned;
  - iv. an identification of the vacuum sweeping vehicle employed for cleaning;
  - v. the name of the operator who performed the cleaning using a vacuum sweeping vehicle;
  - vi. an identification of the irregular paved surfaces which were treated by spraying with dust suppressant solution pursuant to Section (B)(1)(d) of this appendix; and,
  - vii. the quantity of water used for water flushing, in gallons;
- b. the records collected pursuant to Section (B)(4)(a) of this appendix shall be retained by the facility for a period of not less than three years and shall be made available to the Director or his representative upon request;
  - c. the facility shall submit the following reports to the Director or his representative:
    - i. within thirty (30) days after the end of each calendar quarter, a quarterly report which contains all of the information recorded pursuant to Section (B)(4)(a) of this appendix; and,
    - ii. within five (5) days of any non-compliance with the requirements of Section (B)(1) of this appendix, a report which includes a detailed explanation of the cause of such non-compliance, all remedial actions required, and the date by which compliance was or will be reestablished.

**C. Additional dust control program elements for unpaved and paved roadways:**

- 1. this facility must apply and maintain a suitable amount of aggregate (limestone, gravel or bottom ash) as a base for the unpaved roadways and parking areas in accordance with OAC 3745-17-08(B)(2), except for those operations covered by Section (C)(4) or excluded by Section (A)(3) of this appendix;
- 2. a speed limit of ten (10) miles per hour must be established, posted and enforced on all roadways and in all cells of the facility. The only possible exception to this speed limit may occur during dust suppressant application. Upon discovery by the facility operator that a speed in excess of ten (10) miles per hour is needed to meet the application rates required in this appendix, Ohio EPA shall be advised. The facility may petition the Ohio EPA for written approval of an exemption to this speed limit for vehicles performing this activity;
- 3. this facility shall install and employ a truck wheel water wash to be used on all vehicles prior to their departure from the premises; and,
- 4. this facility shall pave all roadways, parking areas, entrance, unloading areas and berms except for those in the cell being actively filled and those in the next cell to be filled (during liner installation activity). These paved roads shall have sufficient length and width to minimize or eliminate the deposit of mud and dust on public roads. These roads shall be maintained in a clean condition in accordance with OAC 3745-17-08(B)(8), OAC 3745-17-08(B)(9), and the measures outlined in this appendix.

D. Changes to dust control programs in Sections (A), (B) and (C) of this appendix:

1. the facility may petition the Ohio EPA for written approval of definitive treatment methods, treatment schedules and procedures or reporting requirements different from those required herein. Such alternative practices must be demonstrated to the Ohio EPA and the U.S. Environmental Protection Agency to result in equivalent dust control effectiveness in accordance with the document entitled Control of Open Fugitive Dust Sources (EPA-450/3-88-008). The facility reserves the right to contest any disapproval of such petition in the appropriate judicial forum;
2. in the event that the facility certifies that the use of all or a portion of a roadway, parking area, or other surface area has been discontinued, the dust suppressant solution application or surface cleaning program for that roadway, parking area, or other surface area may be terminated or reduced. If the facility begins to utilize any new roadway, parking area, or other vehicular activity area, it shall notify the Director in the reports required pursuant to this appendix and treat or clean the roadway or area in accordance with the procedures contained herein;
3. the Director shall not be precluded from requiring ments, including increase chemical dust suppressant applications or cleanings, if on-site inspection reveal that the program contained herein does not prevent excessive visible dust entrainment and emissions from a particular roadway or other surface;
4. in the event that an unpaved roadway or other surface that has been chemically treated becomes completely hardened and cemented by such treatment so as to become like a paved road as demonstrated by observation, by compaction tests and silty analyses or in the event that the facility paves any unpaved roadway or area, the roadway or area may be treated as a paved surface and cleaned in accordance with the procedures outlined in Section (B) of this appendix; and,
5. in the event that any traffic area would require paving as per Section (C)(4) of this appendix, but the traffic area is not normally used in daily operations, the facility may petition Ohio EPA to surface the road as per Section (C)(1) of this appendix.