West Virginia Department of
Commerce, Labor & Environmental Resources
Air Pollution Control Commission

1558 Washington Street, East
Charleston, West Virginia 25311

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WEST VIRGINIA AIR POLLUTION CONTROL COMMISSION
1558 Washington Street, East
Charleston, West Virginia 25311

v.

CO-SIP-91-30

STANDARD LAFARGE
a subsidiary of
Standard Slag
c/o Mr. Irvin Maurer
6715 Tippecanoe Road
Building C
Canfield, OH 44406

CONSENT ORDER

Under the authority and direction of the West Virginia Code, Chapter 16, Article 20, Section 5 (17), which reads in pertinent part as follows:

> (17) Whenever the Commission achieves informally, by letter, or otherwise, an agreement with any person that said person will cease and desist in any act resulting in the discharge of pollutants or do any act to reduce or eliminate such discharge, such agreement shall be embodied in a Consent Order and entered as, and shall have the same effect as, an Order entered after a hearing as provided in Section 6 (§ 16-20-6) of this article,

this Consent Order is hereby entered.

I. FINDINGS OF FACT

1. Standard Lafarge (hereinafter referred to as the "Company") owns and operates a slag processing facility located in Weirton, West Virginia.

2. At the subject facility, there are various emission sources of total particulate matter which includes PM_{10} (particulate matter with aerodynamic particle size $\leq$ 10 microns) which are variable with regard to type and amount of such emissions.

3. This facility is subject to the Commission's Regulation 7 (45 CSR 7) - "To Prevent and Control Particulate Air Pollution From Manufacturing Process Operations".

4. Portions of Follansbee, Brooke County, West Virginia and the Mingo Junction/Steubenville area of Jefferson County, Ohio were identified by USEPA as a Group I area with respect to the National Ambient Air Quality Standards (NAAQS) for PM_{10} in 52 FR 29383 on August 7, 1987. Pursuant to Section 101(a)(4)(B) of the Clean Air Act Amendments of 1990, the aforementioned area was designated as non-attainment with respect to the PM_{10} NAAQS by operation of law on November 15, 1990.

5. The Ohio Environmental Protection Agency and West Virginia Air Pollution Control Commission have undertaken studies and analyses to identify particulate matter, including PM_{10} emission sources which may cause or contribute to violations of the PM_{10} NAAQS and the West Virginia Air Pollution Control Commission staff has identified sources requiring emission control beyond current regulatory requirements or requiring clarification of current regulatory requirements as herein provided.

6. Title I of the 1990 Clean Air Act Amendment mandates that a plan to attain the PM_{10} NAAQS in Follansbee be submitted by West Virginia to USEPA by November 15, 1991 and that the area must achieve attainment by December 31, 1994.

7. This Consent Order shall be submitted to the USEPA for incorporation into the West Virginia State Implementation Plan under the federal Clean Air Act.

II. CONCLUSIONS OF LAW

1. The Commission is the Agency empowered and authorized to regulate and control pollution of the air in the State of West Virginia as set forth in the Code.

2. The Commission has acted in accordance with the Code.

3. The Commission has given proper notice in accordance with the Commission's rules.

III. COMPLIANCE PROGRAM

In addition to maintaining compliance with all existing applicable regulations and permits, the Company also agrees to implement and/or comply with source specific control measures, emission standards, recordkeeping and reporting requirements, and approved testing procedures established and/or referenced herein as follows:

1. Slag Processing Plant

   A. The Company shall install fugitive particulate matter and PM_{10} emission control systems for all slag crushing and slag screening stations located within the slag processing building that shall achieve a minimum control efficiency of 95% at each slag crushing and screening station and a total emission rate from all slag screening, crushing, transfer and conveying operations of not more than 19.13 lb/hr of total particulate matter and 8.15 lb/hr PM_{10}.

B. The slag processing plant fugitive particulate matter and PM_{10} emission control systems construction required under Section III.1.A. shall be accomplished in accordance with the following compliance schedule:

	On Or Before
Complete engineering:	August 30, 1992
Submit emission control system design for West Virginia Air Pollution Control Commission approval:	September 30, 1992
Issue purchase orders:	November 15, 1992
Initiate construction:	February 15, 1993
Complete construction and demonstrate compliance:	September 30, 1993

C. Compliance with Section III.1.A. and D. shall be demonstrated in accordance with the provisions of Section IV and Appendix A(A1) of this Consent Order.

D. There shall be no visible emissions exceeding 10% from any point of the slag processing plant building.

2. Slag Receiving Hopper

A. The Company shall increase wet suppression at the slag receiving hopper in a manner that achieves a minimum control efficiency of 80%. Total particulate and PM_{10} emissions shall not exceed 0.07 lb/hr and 0.06 lb/hr, respectively.

B. The Company shall comply with the following slag receiving hopper dust control measures:

1. The Company shall operate the water spray suppression system during all material transfers to the slag receiving hopper. The spray system shall be designed for winter use.

2. The Company shall operate and maintain a water flow metering device and line pressure gauge located between the water supply and the spray system.

C. There shall be no visible emissions exceeding 5% opacity from any point of the slag receiving hopper.

D. Compliance with Section III.2.A., B. and C. shall be demonstrated on and after December 31, 1991.

E. Compliance with Section III.2.A., B. and C. shall be demonstrated in accordance with the provisions of Section IV and Appendix A(A1) of this Consent Order.

F. Recordkeeping and Reporting.

1. The Company shall maintain records for the program to control emissions from the slag receiving hopper. These records shall include, as a minimum, the following information:

a. control equipment maintenance records,
b. description of control equipment malfunctions and downtime,
c. daily water usage for the spray system, in gallons,
d. daily material throughput, in tons per day,
e. daily operating hours and
f. spray system line or header pressure.

2. These records shall be certified to be accurate by Company management, retained for no less than three (3) years and shall be provided to the Director or his representative upon request.

3. Dust Control Measures for Unpaved Roads and Other Unpaved Areas

A. The Company shall implement, maintain, and comply with dust control measures on all unpaved roads identified in this Section in a manner that achieves and assures 90% control efficiency as determined by methodology set forth in the USEPA reference document Control of Open Fugitive Dust Sources (EPA/450/3-88-008), Section 3.0, Unpaved Roads - and in accordance with the following:

1. All unpaved roads identified in Appendix B, of this Consent Order shall be treated at least monthly following the initial establishment of chemical ground inventory with a chemical dust suppressant (petroleum resin emulsion, asphalt emulsions or acrylic cements) on a year-round (12 month) basis, except as provided under Section III.3.A.5. and III.4.C. below. The dust suppressant application intensity and frequency during the first 2 months of this control program shall be sufficient to achieve the ground inventory specified in Section III.3.A.4. by the end of the 2 month period.

2. Monthly applications shall be accomplished within thirty-one (31) days of prior applications except as provided under Section III.3.A.5. below.

3. For each dust suppressant application during the initial 2 month period of the dust control program, the concentrated dust suppressant shall be diluted at a ratio of not more than five (5) parts water to one (1) part concentrate and the resulting solution shall be applied at a minimum rate of 1.0 gallons per square yard of unpaved surface area. The dust suppressant shall be applied at sufficient intervals and intensities after the initial 2 month period so as to maintain the ground inventory and achieve a 90% dust control efficiency. The continuing program shall provide for at least monthly applications of dust suppressant diluted by no more than seven (7) parts water to one part chemical and applied at a rate of not less than 0.5 gallons per square yard of unpaved surface.

4. A minimum ground inventory of 0.225 gallons of concentrate per square yard of unpaved surface, as specified in Section 3.0 of the USEPA reference document Control of Open Fugitive Dust Sources (EPA/450/3-88-008) shall be maintained.

5. Applications of dust suppressant may be delayed by not more than six (6) days from any scheduled treatment date in the event that the unpaved road surface is frozen, snow covered, or has experienced $\geq$ 0.25 inches of rainfall.

   In the event of persistent adverse weather conditions such as freezing, snow cover, or excessive rainfall, the Company may petition the Director verbally with written confirmation within three (3) days for extended exemptions which may be granted as deemed appropriate by the Director.

B. The Company shall implement, maintain, and comply with dust control measures on all unpaved parking lots, laydown, entrance, loading, unloading areas and berms in accordance with the following:

1. After the initial treatment to establish the required ground inventory in the first 2 months of the dust control program, all the other unpaved areas (other than unpaved roads) which are identified in Appendix B shall be treated at least quarterly with a chemical dust suppressant (petroleum resin emulsion, asphalt emulsions or acrylic cements) on a year round (12 month) basis, except as provided under Sections III.3.A.5 and III.4.C.

2. Quarterly applications shall be made during the first full week of the quarter, except as provided under Section III.3.A.5.

3. For each quarterly application, the concentrated dust suppressant shall be diluted at a ratio of not more than seven (7) parts water to one (1) part concentrate and the resulting solution shall be applied at a minimum coverage rate of 0.5 gallons per square yard of surface area.

C. Compliance with Sections III.3.A. and B. shall be determined in accordance with procedures set forth in Appendix A of this Consent Order.

D. Control Equipment

The Company shall assure the availability, required scheduling, and proper maintenance of spray trucks that are designed and equipped, at 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 1.00 gallon per square yard of surface, an accurate flow metering device calibrated in units of gallons, and apparatus as required that will facilitate manual application of the solution to areas not readily accessible by the spray truck.

E. Recordkeeping and Reporting

1. The Company shall maintain records relative to the program to control emissions from unpaved roads, parking lots, laydown, entrance, loading, unloading areas and berms identified in Appendix B. These records shall include, at a minimum, the following information:

   a. Control equipment maintenance records.

   b. Scheduled and unscheduled equipment malfunctions and downtime.

   c. Meteorological log to include average daily temperature, daily precipitation and unusual meteorological occurrences.

   d. The date, type and quantity received for each delivery of chemical dust suppressants.

   e. On the date of application, the number of passes, chemical/water ratio, and amount of solution applied for each unpaved road, area or berm identified in Appendix B in gallons and gallons per square yard.

   f. Identification of areas where manual spraying was utilized.

2. These records shall be retained by the Company for three (3) years and shall be made available to the Director or his representative upon request and as required under Section III.3.E.3.

3. A calendar quarterly report shall be submitted to the Director. The report shall contain all of the information cited above and a description of any deviations from the control program and the reasons for such deviations. The report shall be certified to be accurate by plant management and shall be submitted within fifteen (15) days after the end of the quarter.

4. The Company shall notify the Director, in writing, of any non-compliance with Section III.3. of this Consent Order. Such notice shall be submitted within five (5) days of the non-compliance occurrence and shall include a detailed explanation of the cause of such non-compliance, all remedial actions required, and the date by which compliance was or will be re-established.

F. The Company shall implement the dust control measures of Section III.3. as soon as practicable and shall demonstrate compliance with all provisions therein no later than December 31, 1992.

4. Changes to Road Dust Control Programs

A. The Company may petition the Commission and the USEPA for approval of definitive treatment methods, treatment schedules and procedures or reporting requirements different from those required herein and such alternative practices may be implemented upon a satisfactory demonstration to the Commission and USEPA of equivalent dust control effectiveness in accordance with Control of Open Fugitive Dust Sources (EPA/450/3-88-008) and with written approval from the Commission and USEPA.

B. In the event that the Company certifies that use of all of a roadway or parking area identified in Appendix B has been discontinued, the dust suppression or surface cleaning program for that road or parking lot may be terminated or reduced. If the Company begins to utilize any new roadway, parking lot or other vehicular activity area not shown in Appendix B, it must notify the Director in the reports required under this Consent Order and treat or clean the road or area in accordance with the procedures contained herein.

C. The Director shall not be precluded from requiring adjustments, including increased chemical suppressant application or cleaning, if on-site inspections reveal that the program contained herein does not prevent excessive visible dust entrainment and emissions from a particular road or surface.

D. In the event that an unpaved road or area 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 silt analyses or in the event that the Company paves any unpaved haul road or area, that road or area may be treated as a paved surface and cleaned in accordance with the procedures outlined in Appendix C.

IV. COMPLIANCE DETERMINATION PROCEDURES

Compliance with all applicable particulate matter emission standards and visible emission standards under Regulation 7 (45 CSR 7) and this Consent Order shall be demonstrated in accordance with test procedures set forth in 45 CSR 7A (TP-4) - "Compliance Test Procedures for Regulation 7" except that the use of any particulate mass emission test procedures other than those under 40 CFR 60, Appendix A, Methods 1-5 must be approved by the Director and USEPA. In determining compliance with the visible emission standards established in this Consent Order, each visible emission observation shall represent a fifteen (15) second period and visible emission observations shall not be averaged.

V. OTHER PROVISIONS

1. The Company agrees to comply with all requirements of this Consent Order and further agrees to waive any and all rights of appeal of this Consent Order.

2. Within fifteen (15) days following any incremental Compliance Program date under Section III of this Consent Order, the Company shall certify in a written status report to the Director that the increment of progress to be completed by that particular Compliance Program date has been achieved. In the event that the Company fails to achieve any Compliance Program date, the required status reports shall document in full the causes of such failure, shall provide the date that the particular Compliance Program date will be met and shall contain a full explanation of the effect of the missed Compliance Program date upon the Company's ability to comply with all subsequent Compliance Program measures and dates contained under Section III. As further provided herein, failure to comply with any Compliance Program date established under Section III constitutes a violation of this Consent Order and may subject the Company to penalties or other enforcement actions by the Commission.

3. Nothing contained in this Consent Order shall be interpreted in such a manner as to relieve the Company of the responsibility to make all necessary short-term emission reductions as provided and required in Regulation 11 - "Prevention of Air Pollution Emergency Episodes".

4. The provisions of this Consent Order are severable and should any provisions be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

5. This Consent Order shall become effective immediately upon signing by both parties.

6. This Consent Order is binding on the Company, its successors and assigns.

7. The Company agrees that in the event that the Commission promulgates regulations while this Consent Order is in effect which require control of emissions from the subject facility beyond the limitations herein or regulations currently applicable, such additional regulations shall be applicable to the subject facility notwithstanding the provisions of this Consent Order.

8. Violations of this Consent Order may subject the Company to penalties in accordance with Chapter 16, Article 20, Section 8 and/or injunctive relief in accordance with Chapter 16, Article 20, Section 9 of the Code of West Virginia. This Consent Order shall serve as written notice of violation as contemplated in Code 16-20-8(a) for failure to achieve or implement each scheduled provision of Section III.1.B., III.2.D. and III.3.F. of this Consent Order.

AND NOW, this 14th day of November 1991, the WEST VIRGINIA AIR POLLUTION CONTROL COMMISSION agrees to and enters into this Consent Order.

WEST VIRGINIA AIR POLLUTION
CONTROL COMMISSION

By Its Chairman

STANDARD LAFARGE hereby agrees with the provisions and consents to the terms of this Consent Order and agrees to comply with all requirements set forth herein.

AND NOW, this 12th day of November, 1991, STANDARD LAFARGE, by its duly authorized representative, consents to, agrees to and enters into this Consent Order.

STANDARD LAFARGE

By P. S. RATCLIFF

Its SENIOR VICE PRESIDENT, OPERATIONS & SALES.

TC/taa

09/16/91

APPENDIX A

A1 Compliance Determination for Full Enclosures as a Control Device

Reference for equivalent testing and evaluation methods for measuring particulate mass emissions from the slag crushing and screening stations and enclosures are currently not available in 40 CFR 60, USEPA reference documents or USEPA guidance documents.

Compliance with the provisions of the Consent Order, specifically Section III.1.A. and D., Slag Processing Plant, shall be based on in-plant inspections by Agency personnel in a manner specified herein. Said inspections shall be conducted at a minimum, once per year and shall consist of the following:

1. The inspector will physically inspect the above cited process operations and related enclosures and record opacity observations, which shall not be averaged, for an appropriate period of time. In conjunction with the observations, the inspector will provide the information requested in Form A-(1) (attached) for all of the slag processing operations and enclosures.

2. The inspector will compile a narrative report attaching Form A1 and his opacity observations with any recommendations and submit such to the Director.

Form A1

ENCLOSURE INSPECTION FORM

Name of company : _____
Mailing address : _____
Plant address : _____
Phone number : _____
Plant contact : _____
Inspector/Title : _____
Date : _____/_____/_____

Process name : _____
Location : _____
Description : _____

ENCLOSURE INSPECTION/OBSERVATIONS	
1. Is process still in operation?	
2. Are there changes in process?	
3. Does enclosure still exist?	
4. Are there any cracks, splits or openings at the enclosure?	
5. Are there any observable emissions from the enclosure? Describe.	
6. Have repairs been performed on the enclosure? Describe.	
7. Have there been any changes or alterations to the enclosure?	
8. Is the enclosure adjudged to be compliant with the consent order?	

9. Additional comments/observations: _____

Signed : _____
Title : _____
Date : _____

APPENDIX A

A2 Compliance Determination for Unpaved Roads and Areas

Information contained herein is taken from the document Inspection Manual for PM_{10} Emissions from Paved/Unpaved Roads and Storage Piles authored by Midwest Research Institute for the USEPA (Contract No. 68-02-4463) October 27, 1989.

Compliance with the provisions of the Consent Order, specifically Section III.3. Unpaved plant roads, parking lots, laydown, entrance, unloading areas and berms - chemical suppression shall be determined by assessment/evaluation of the Company's quarterly reports as required by Section III.3.E. of the Consent Order. In addition, compliance shall also be determined by a qualitative and/or quantitative assessment of the specified control program by agency personnel as provided herein.

1. Assessment of the Unpaved Road Dust Control Program

Assessment of the unpaved road dust control program shall be based on in-plant inspections by agency personnel. Said inspections shall be conducted, at a minimum, once per year and shall consist of the following:

A. The inspector will complete Form A-2(1) prior to the physical inspection based upon observation or accurate information that the Company shall provide.

B. The inspector will physically view the unpaved road segments and areas defined in Appendix B of the Consent Order. In conjunction with the observations, the inspector will provide the information requested in Form A-2(2). Segments shall be adjudged as to their surface condition and qualitative assessment of emissions from vehicular activity and other pertinent information as observed by the inspector su as carryover of material from a construction activity shall be noted.

C. If possible, the inspector will observe the application of the dust suppressant at any segment. The adequacy of the spray pattern and coverage shall be adjudged and noted in the comment section of Form A-2(1) relative to the observed segment.

D. The inspector will review any operator logs or other records pertinent to the control program such as those required in Section III.3.E. of the Consent Order. Copies will be made available upon the inspectors request.

E. The inspector may request and the Company shall provide information on surface silt content, mean vehicle speed, mean vehicle weight and/or mean number of wheels per vehicle. Should the inspector collect, or require the Company to collect, surface material samples for silt analysis, such sampling and analysis shall be in conformance to the methods specified in Inspection Manual for PM10 Emissions from Paved/Unpaved Roads and Storage Piles. MRI, EPA Contract Number 68-02-4463 Appendix F.

F. As part of the assessment of the unpaved road dust control program, an engineering evaluation will be conducted, utilizing pertinent Company records, to arrive at an average percent of PM_{10} control efficiency as follows:

1. The inspector will obtain relative information from Company records, required in Form A-2(3) (attached). At a minimum, the inspector will obtain an application intensity per treatment (in gal/yd^2), the dilution ratio per treatment, and number of days since last treatment.

2. Using the information from form A-2(3), the inspector will calculate the ground inventory which is a measure of residual effects from previous applications. Ground inventory is found by adding together the total volume (per unit area) of concentrate (not solution) since the start of the program or dust control season. No credit for control is assigned until the ground inventory exceeds 0.05 gal/yd^2. Ground inventory shall be found by multiplying the application intensity (gal/yd^2) times the dilution ratio. The product is then added to the ground inventory calculated for the previous application. This number is plotted on the curve in Figure A-2 to arrive at an average PM_{10} control efficiency for the time period shown. (Reference: Inspection Manual for PM_{10} Emissions From Paved/Unpaved Roads and Storage Piles, MRI, EPA Contract No. 68-02-4463, Section 4.3.3.)

G. The inspector shall compile a narrative report including all forms and pertinent records along with any recommendation and submit such to the Director.

Form A-2(1)

UNPAVED ROAD/AREA INSPECTION FORM

Name of company : _____
Mailing address : _____
Plant address : _____
Phone number : _____
Plant contact : _____
Inspector/Title : _____
Date : _____/_____/_____

GENERAL QUESTIONS FOR PLANT PERSONNEL	Y	N	N/A	COMMENTS
1. Have any roads been eliminated/ blocked off since last inspection?				
2. Have any roads been paved since last inspection?				
3. Have traffic volumes/ vehicle characteristics on roads changed?				
4. Any process changes that would affect road program?				
5. Any changes been made in road control program?				
6. Any new equipment?				
7. Any equipment downtime since last inspection?				
8. Any chemicals received since last inspection?				
9. Any repair of roads? (bladed, patching, etc.)				
10. Are records in order?				

ADDITIONAL COMMENTS:

INSPECTOR'S SIGNATURE: _____

DATE: _____/_____/_____

DUST SUPPRESSION INSPECTION FORM

SEGMENT	SURFACE CONDITION (1)	TRAFFIC EMISSIONS (2)	COMMENTS

AREAS

PARKING LOTS

BERMS

I			

(1). O - observed , N/O - not observed , G - good , F - fair , P - poor
(2). O - observed , N/O - not observed , L - light , M - med , H - heavy

General weather conditions: _____

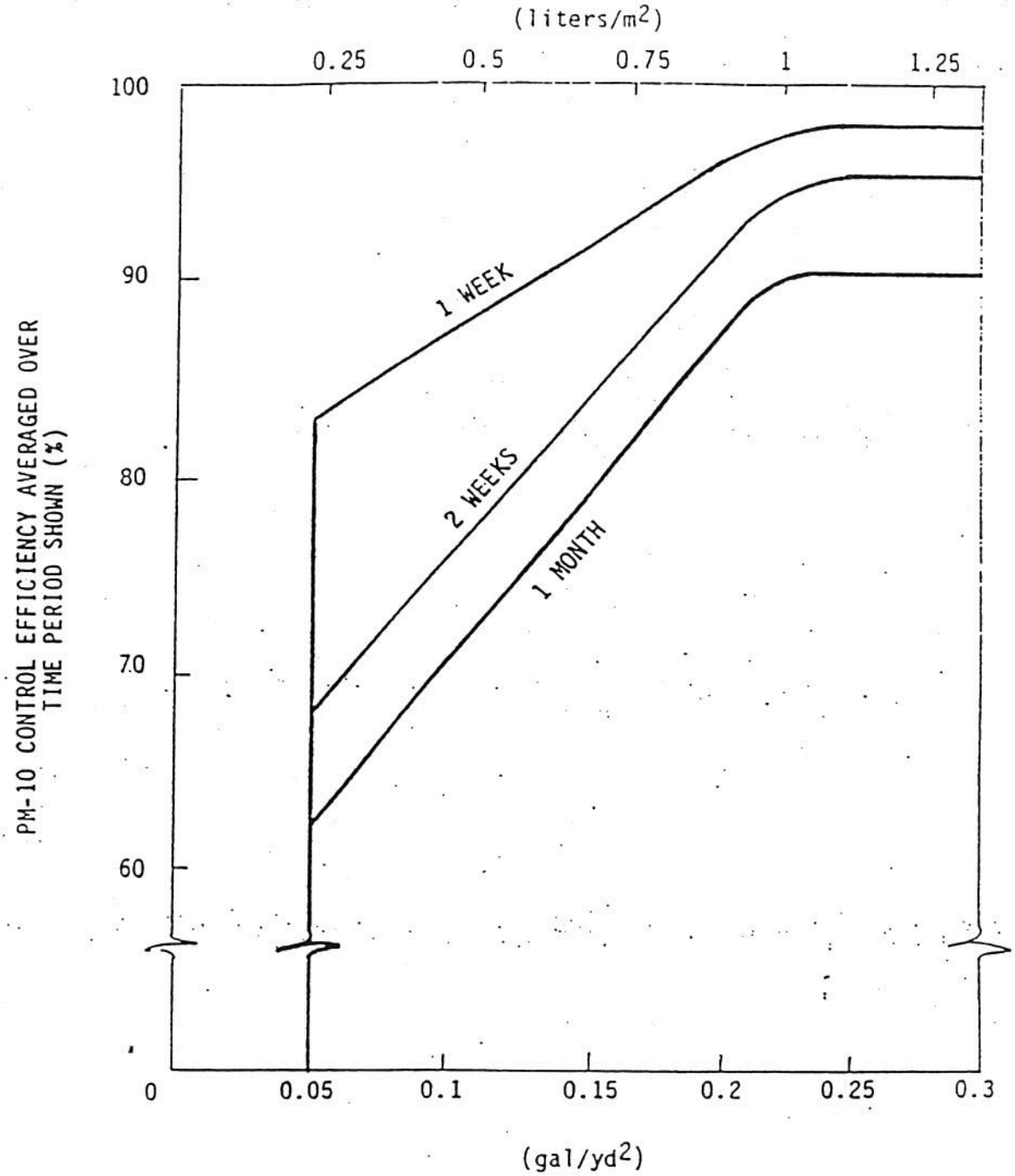
Inspector / Title / Date: _____

CHEMICAL SUPPRESSANT APPLICATION LOG AND WORKSHEET

Site Description _____

Treatment No.	Date	Application Intensity (gal/yd^2)	Dilution Ratio (water:chem)	Ground Inventory (gal/yd^2)	Period (days)	Average PM_{10} Control (%)

Form A-2(3) Example chemical suppressant application log.



GROUND INVENTORY

Figure A-2 Average PM_{10} control efficiency for chemical suppressants.

APPENDIX A

A3 Compliance Determination for Paved Roads and Areas

Information contained herein is taken from the document Inspection Manual for PM_{10} Emissions from Paved/Unpaved Roads and Storage Piles authored by Midwest Research Institute for the USEPA (contract No. 68-02-4463) October 27, 1989.

Compliance with the provisions of Appendix C of this Consent Order specifically shall be determined by assessment/evaluation of the company's quarterly reports as required under Appendix C of the Consent Order. In addition, compliance shall also be determined by a qualitative and/or quantitative assessment of the specified control program by agency personnel as provided herein.

1. Assessment of the Paved Road Dust Control Program

Assessment of the paved road dust control program shall be based on in-plant inspections by agency personnel. Said inspections shall be conducted, at a minimum, once per year and shall consist of the following:

A. The inspector will complete Form A-3(1) prior to the physical inspection based upon observation or accurate information that the Company shall provide.

B. The inspector will physically view the paved road segments as specifically defined and identified by a Company map. conjunction with the observations, the inspector will provi the information requested in Form A-3(2). Paved, road segments shall be adjudged as to their surface condition. Qualitative assessment of emissions from vehicular activity and other pertinent information as observed by the inspector such as carryover or deposits of material from a construction activity or unpaved roads and areas.

C. If possible, the inspector will observe the operation of the flushing-vacuum sweeping control equipment on all or any road segments. The adequacy of the control equipment, and/or operation thereof, shall be evaluated and noted in the comment section of Form A-3(2) relative to the observed segment.

D. The inspector will review the Company's operational logs or other records, required under Appendix C of the Consent Order. Copies of these records shall be made available upon the inspectors request.

E. As part of the assessment of the paved road dust control program, a quantitative engineering evaluation may be conducted utilizing silt sampling and analysis procedures. The Company shall provide to the Director all requested necessary information for this assessment. The sampling may be conducted by the Company, West Virginia Air Pollution Control Commission or USEPA together or separate at least or per year or at any other times as deemed necessary by the Director of USEPA. Sampling and analysis shall be as follows:

1. Sampling and analysis shall be performed in a manner specified in Inspection Manual for PM10 Emissions from Paved/Unpaved Roads and Storage Piles, MRI, EPA Contract Number 68-02-4463 Appendix F.

2. Sampling shall be conducted before and after flushing, vacuum sweeping. Results shall be reported in grams/square meter. Control effectiveness shall be evaluated by comparing the "before" and "after" silt loadings. These loadings shall also be used in the paved road emission rate equation specified in AP-42, 11.2-G-3 to evaluate the control effectiveness.

F. The inspector shall compile a narrative report including all pertinent forms, records and applicable sampling results and submit such to the Director.

Form A-3(1)

PAVED ROAD/AREA INSPECTION FORM

Name of company : _____
Mailing address : _____
Plant address : _____
Phone number : _____
Plant contact : _____
Inspector : _____
Date : _____/_____/_____

GENERAL QUESTIONS FOR PLANT PERSONNEL	Y	N	N/A	COMMENTS
1. Have any roads been eliminated/ blocked off since last inspection?				
2. Have roads been paved since last inspection?				
3. Have traffic volumes/vehicle characteristics on roads changed?				
4. Any process changes that would affect road program?				
5. Any changes been made in road control program?				
6. Any new equipment?				
7. Any equipment downtime since last inspection?				
8. Any repair of roads (patching, new asphalt)?				
9. Are records in order?				

ADDITIONAL COMMENTS:

INSPECTOR'S SIGNATURE: _____

DATE: _____/_____/_____

PAVED ROAD/AREA DUST CONTROL INSPECTION FORM

Segment	Surface Condition (1)	Traffic Emissions (2)	COMMENTS

(1). O - observed, N/O - not observed, G - good, F - fair, P - poor
(2). O - observed, N/O - not observed, L - light, M - med, H - heavy

General weather conditions: _____

Inspector/Title/Date: _____

APPENDIX A

A4 Compliance Determination For Partial Enclosures Using Water Sprays As Control Devi

Compliance with the provisions of the Consent Order, specifically Sections III.2.A.,B. and C., Slag Receiving Hopper, shall be based on in-plant inspections by agency personnel in a manner specified herein. Said inspections shall be conducted, at a minimum, once per year and shall consist of the following.

1. The inspector will physically inspect the sinter receiving hopper and related partial enclosure and water spray suppression system while the process is operating. In conjunction with the observations, the inspector will provide the information requested in Form A4 (attached).

2. The inspector will compile a narrative report attaching Form A4, opacity observations and pertinent records, and include any recommendation, and submit such to the WVAPCC Director.

WATER SPRAYS INSPECTION FORM: PARTIAL ENCLOSURES WITH WATER SPRAYS

Form A4

Name of company :
Mailing address :
Plant address :
Phone number :
Plant contact :
Inspector/Title :
Date : ____/____/____

Process name :
Location :
Description :

INSPECTION/OBSERVATIONS	
1. Is process still in operation?	
2. Are there changes in process?	
3. Does water spray system and partial enclosure still exist?	
4. Are all nozzles operating?	
5. Are spray patterns overlapping?	
6. Is water spray coverage adequate to suppress emissions.	
7. Are there any observable emissions from the process? Describe.	
8. Have repairs been performed on the water spray system or partial enclosure? Describe.	
9. Have there been any changes or alterations to the water sprays or partial enclosure? Describe.	
10. Is the process adjudged to be compliant with the Consent Order?	

11. Additional comments/observations:

Signed :
Title :
Date :

Appendix C

Paved Roads - Flushing and Vacuum Sweeping

A. In the event that the Company paves previously unpaved surfaces or in the eve... it becomes appropriate to treat an unpaved surface as a paved surface, the Company shall implement, maintain, and comply with dust control measures on such paved roads of surfaces in such a manner that achieves and assures 95% control efficiency as determined by methodology set forth in the USEPA reference document Control of Open Fugitive Dust Sources (EPA/450/3-88-008), Section 2.0, Paved Roads, and in accordance with the following:

1. All paved roads shall be water flushed and vacuum swept daily on a year-round (12 month) basis except as provided under Provision A.1.c. below.

   a. All paved roads shall be flushed with water immediately prior to vacuum sweeping.

   b. Irregular paved surfaces that cannot feasibly or adequately be cleaned by vacuum sweeping shall be chemically sprayed in accordance with provisions of Section III.3 of this Consent Order.

   c. Daily flushing and sweeping may be suspended only under the following adverse weather conditions:

Weather Condition	Permitted Exemption
> 0.25 inches rainfall	Flushing
Freezing surface	Flushing
Snow cover	Flushing and sweeping

   All such suspensions shall be reported and verified as required under Provision D below. (Recordkeeping and Reporting).

B. Compliance with the provisions for paved surfaces shall be determined in accordance with procedures set forth in Appendix A3 and recordkeeping accordance with Provision D below of this Consent Order.

C. Control Equipment

1. The Company shall assure the availability, required scheduling, and proper maintenance of vacuum sweeping trucks. These trucks shall be equipped with an adequate water tank and a high pressure spray bar mounted ahead of the brooms unless separate vehicles are utilized for flushing. The collection hopper of the vacuum truck shall be designed and maintained so as to prevent fugitive dust emissions.

2. Material collected by the vacuum sweeping truck shall be handled and disposed of in a manner that minimizes fugitive dust emissions, including but not limited to, wet dumping and chemical treatment or stabilization of stored material.

D. Recordkeeping and Reporting.

1. The Company shall maintain daily records for the paved road cleaning program. These records shall include, at a minimum, the following information:

   a. Control equipment maintenance records.

   b. Scheduled and unscheduled equipment malfunctions and downtime.

   c. Meteorological log to include average daily temperature, daily precipitation and unusual meteorological occurrences.

   d. Qualitative description of the road surface conditions.

   e. Start and stop times, average truck speed, number of passes a... estimation of amount of water used for each paved road.

f. Identification of areas where chemical treatment was utilized.

g. Qualitative descriptions of areas of unusually high silt loadings from spills and track-ons.

h. Total amount of dust collected by vacuum trucks in pounds or tons.

2. These records shall be retained by the Company for three (3) years and shall be made available to the Director or his representative upon request.

3. A calendar quarterly report shall be submitted to the Director. The report shall contain all of the information cited above and a description of any deviations from the control program and the reasons for such deviations. The report shall be certified to be accurate by Company management and shall be submitted within fifteen (15) days after the end of the quarter.

4. The Company shall notify the Director, in writing, of any non-compliance with these provisions of this Consent Order. Such notice shall be submitted within five (5) days of the non-compliance occurrence and shall include a detailed explanation of the cause of such non-compliance, all remedial actions required and the date by which compliance was or will be re-established.