

# Puget Sound Clean Air Agency

1904 3rd Ave, Ste 105, Seattle, WA 98101-3317: Gerry Pade (206) 689-4065

## Point Source Emission Report

May 16, 2007

ASH GROVE CEMENT CO, E MARGINAL

Facility ID #: 11339

AFS#: 053-033-00099

### Section 4 - Facility Emission Summary

<u>CAS#</u>	<u>Flags</u>	<u>Air Contaminants:</u>	<u>pounds/ 2005</u>	<u>tons / 2005</u>	<u>pounds/2006</u>	<u>tons /2006</u>
67-64-1	T	Acetone	13,919	7	_____	_____
7664-41-7	T	Ammonia (NH3)	6,435	3	_____	_____
CO		Carbon Monoxide	2,935,776	1,468	_____	_____
50-00-0	V T H	Formaldehyde	12,575	6	_____	_____
NO2		Nitrogen Oxides	3,160,836	1,580	_____	_____
PM10		Particulate Matter	101,689	51	_____	_____
PM2.5		Particulate Matter	80,505	40	_____	_____
SO2		Sulfur Oxides	68,366	34	_____	_____
			=====	=====	=====	=====
		Volatile Organic Compounds Total (V)	12,575	6	_____	_____
		Toxic Air Contaminants Total (T)	32,929	16	_____	_____
		Hazardous Air Pollutants Total (H)	12,575	6	_____	_____

# Puget Sound Air Pollution Control Agency

Notice of  
Construction No. 685  
Date Jan. 13, 1972

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH  
Replace two type 241H Western Precipitation Multiclones

APPLICANT: W. R. McClinton OWNER: Lone Star Industries, Inc.

LOCATED AT  
3801 E. Marginal Way S. Seattle, Wash.  
(STREET) (CITY) (ZIP)

## SUBJECT TO THE FOLLOWING RESTRICTIONS

### GENERAL:

Permission is hereby granted as provided in Article 6 of Regulation I of the PSAPCA to the APPLICANT to install, alter, or establish the equipment, device, or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the ENGINEERING DIVISION of PSAPCA. This approval is not a waiver of liability for the infraction of Regulation I nor does it relieve the APPLICANT or OWNER of any requirements of other governmental agencies.

John W. Roberts  
Reviewing Engineer

Form 50-118 Approved 10/69

HP

### SPECIFIC:

**"Owner must furnish a source test within 90 days after placing new multiclones in operation showing that emissions from stack do not exceed the applicable standards of Regulation I (Section 9.09)"**

A. R. Dammkoehler  
A. R. Dammkoehler

Air Pollution Control Officer

*Lone Star Industries*

Puget Sound Air Pollution  
Control Agency

Notice of  
Construction No. 918  
Date February 22, 1973

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH  
5 improvements to the precipitator as detailed on the attachment to the  
application dated 1-3-73

APPLICANT: Dennis Kash

OWNER: Lone Star Industries, Inc.

3801 East Marginal Way S.

LOCATED AT

Seattle 98134

(STREET)

(CITY)

(ZIP)

SUBJECT TO THE FOLLOWING RESTRICTIONS

GENERAL:

SPECIFIC:

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*John W. Roberts*  
\_\_\_\_\_  
Reviewing Engineer

*A. R. Dammkoehler*  
\_\_\_\_\_  
A. R. Dammkoehler

Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

Notice of  
Construction No. 1011  
Date July 19, 1973

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH  
**Upgrading Kiln - Electrostatic Precipitator Phase 2**

APPLICANT: W. R. Clinton, Plant Manager OWNER: Lone Star Industries

3811 E. Marginal Way S.  
(STREET)

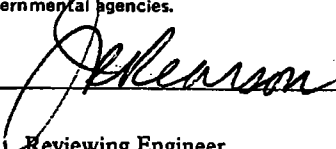
LOCATED AT

Seattle, WA 98134  
(CITY) (ZIP)

## SUBJECT TO THE FOLLOWING RESTRICTIONS

### GENERAL:

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\_\_\_\_\_  
Reviewing Engineer

### SPECIFIC:

  
\_\_\_\_\_  
A. R. Dammkoehler

Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1919

Date AUG 13 1979

Replace existing Dust Collector at the Belt Conveyor Transfer Point (Tower 11) with a  
Fuller Plenum Pulse Baghouse, 5,000 ACPM, 1,001 sq. ft. bag area

A Lone Star Industries, Inc.

NAME  
SAME

3801 E. Marginal Way South

NAME  
SAME

Seattle, WA

STATE

ZIP  
98134

OWNER

NAME  
SAME

STREET  
SAME

NAME  
SAME

INSTALLATION ADDRESS

3801 E. Marginal Way South,

Seattle

WA

98134

## SUBJECT TO THE FOLLOWING RESTRICTIONS

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### SPECIFIC

H. A. Dutton  
Reviewing Engineer

A. R. Dammkoehler

Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1344

Date 10-25-74

Concrete Supplies Filter Vent Model V16 For Cement Silo

Mr. E. J. Dale, Operations Manager  
Lone Star Industries, Inc.

P. O. Box 1020

Seattle, Washington 98111

Lone Star Industries, Inc.

P. O. Box 1020

Seattle, Washington 98111

## INSTALLATION ADDRESS

910 S.W. Spokane Street

Seattle, Washington 98116

## SUBJECT TO THE FOLLOWING RESTRICTIONS

### GENERAL

Permission is hereby granted as provided in Article 6 of Regulation 1 of the PSAPCA to the APPLICANT to install, alter, or reestablish the equipment, device, or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the ENGINEERING DIVISION of PSAPCA. This approval is not a warranty of liability for the infraction of Regulation 1, nor does it relieve the APPLICANT or OWNER of any requirements of other government agencies.

### SPECIFIC

A. J. Wright  
Reviewing Engineer

A. R. Dammkoehler

Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of Construction No. **1538**  
Date **April 19, 1976**

**Conversion of Cement Processing Operation From Natural Gas Firing to Coal Firing and  
Installing Coal Crushing and Processing Facility.**

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**Lone Star Industries, Inc.**  
NAME  
**3801 East Marginal Way South**  
STREET  
**Seattle, Washington 98134**  
CITY STATE ZIP

**Lone Star Industries, Inc.**  
NAME  
**3801 East Marginal Way South**  
STREET  
**Seattle, Washington 98134**  
CITY STATE ZIP

## INSTALLATION ADDRESS

**3801 East Marginal Way South,** **Seattle** **Washington** **98134**  
STREET CITY STATE ZIP

## SUBJECT TO THE FOLLOWING RESTRICTIONS

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### SPECIFIC

**Submit complete source test reports of particulate and SO<sub>2</sub> emissions from main stack within 60 days after fuel change is effective. These tests must be made in accordance with all PSAPCA test procedures, and observed by this Agency.**

*G. W. Stanford*  
**G. W. Stanford, P.E.**

**mh** **Reviewing Engineer**

*A. R. Dammkoehler*

**A. R. Dammkoehler**

**Air Pollution Control Officer**



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1905

Date DEC 29 1978

Clinker Storage & Grinding Storage Hall Extension - North Side and Enclosure

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Lone Star Industries, Inc.

NAME

3801 E. Marginal Way S.

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Seattle, WA

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98134

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## INSTALLATION ADDRESS

3801 E. Marginal Way S.

STREET

Seattle

CITY

WA

STATE

98134

ZIP

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*John Roberts*  
J. W. Roberts

Reviewing Engineer

sj

Form 50-118 Approved 11/73

### SPECIFIC

*A. R. Dammkoehler*  
A. R. Dammkoehler

Air Pollution Control Officer





# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1918

AUG 13 1979

Plastic Strip Curtains on the East and West end of the Packhouse Shipping Shed and on  
the Southeast Small Storage Room. Three McGuire Pendulors, Model DF-400

APPLICANT  
Lone Star Industries, Inc.  
NAME  
3801 E. Marginal Way South  
STREET  
Seattle, WA 98134  
CITY STATE ZIP

OWNER

NAME  
STREET  
CITY STATE ZIP

## INSTALLATION ADDRESS

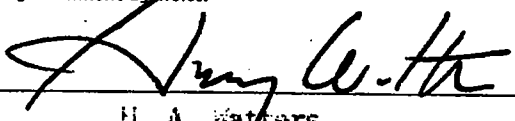
3801 E. Marginal Way South  
STREET  
Seattle WA 98134  
CITY STATE ZIP

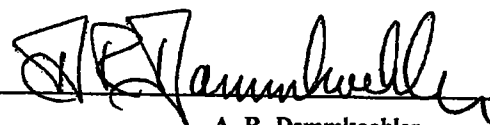
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### SPECIFIC

  
H. A. Watters  
Reviewing Engineer

  
A. R. Dammkoehler  
Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1019

Date AUG 13 1979

Replace existing Dust Collector at the Belt Conveyor Transfer Point (Tower 11) with a  
Fuller Flenam Pulse Baghouse, 1,000 ACFM, 1,001 sq. ft. bag area

Lone Star Industries, Inc.

SAME

3401 E. Marginal Way South

SAME

Seattle

WA

98134

SAME

## INSTALLATION ADDRESS

3401 E. Marginal Way South

Seattle

WA

98134

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### GENERAL

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### SPECIFIC

H. A. Patterson  
Reviewing Engineer

A. R. Dammkoehler

Air Pollution Control Office



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1320  
Date AUG 13 1979

Replace existing Dust Collector at the Belt Conveyor Transfer Point located immediately west of the Finish Mill Building with a 5,000 ACFM Fuller Plenum Pulse Baghouse with 1,001 sq. ft. of Polyester bag area

A P P L I C A N T	<u>Lone Star Industries, Inc.</u>	NAME	O W N E R	<u>SAME</u>	NAME		
	<u>3801 E. Marginal Way South</u>	STREET		<u>SAME</u>	STREET		
	<u>Seattle</u>	WA		<u>98134</u>	CITY	STATE	ZIP
	CITY	STATE		ZIP	CITY	STATE	ZIP

## INSTALLATION ADDRESS

<u>3801 E. Marginal Way South</u>	<u>Seattle</u>	<u>WA</u>	<u>98134</u>
STREET	CITY	STATE	ZIP

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### SPECIFIC

H. A. Watters  
H. A. Watters  
Reviewing Engineer  
sj

A. R. Dammkoehler  
A. R. Dammkoehler  
Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1921

Date AUG 3 1979

Enclose West Belt Transfer Point - Clinker unloading - (Tower 10)

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Lone Star Industries, Inc.

NAME

3801 E. Marginal Way South

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Seattle,

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## INSTALLATION ADDRESS

3801 E. Marginal Way South

STREET

Seattle

CITY

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H. A. Watters  
Reviewing Engineer

sj

### SPECIFIC

A. R. Dammkoehler

Air Pollution Control Officer



**Puget Sound Air Pollution  
Control Agency**

HEREBY GRANTS  
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 1922

Date Aug 13 1979

*Lone Star Ind.*

Enclose Belt Transfer Tower 11

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Lone Star Industries, Inc.

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3801 E. Marginal Way South

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**INSTALLATION ADDRESS**

3801 E. Marginal Way South

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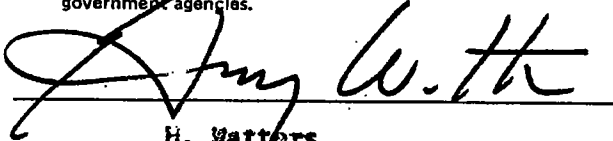
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**H. Watters**  
Reviewing Engineer

**SPECIFIC**

  
**A. R. Dammkoehler**

**Air Pollution Control Officer**



# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Notice of  
Construction No. 2743  
Date FEB 26 1986

One Fuller Plenum Pulse baghouse at 5000 cfm (kiln discharge elevator);  
one Fabric Filter NW baghouse at 7000 cfm (barge unloading); and construction  
of wall & addition of rollup door to enclose the clinker storage shed.

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Mr. Kenneth J. Rone, Jr.  
Ash Grove Cement West, Inc.

3801 E. Marginal Way South

Seattle, WA

NAME

STREET

STATE

98134

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NAME

STREET

CITY

STATE

## INSTALLATION ADDRESS

3801 E. Marginal Way South,

Seattle,

WA

98134

STREET

CITY

STATE

## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install, alter or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I or II, RCW 70.94, or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

  
Harry A. Watters  
Reviewing Engineer

  
A.R. Dammkoehler  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 5338

Date MAR 15 1994

One 150 ton Fly Ash Storage Silo with a 750 cfm Fabric Filter, and a pneumatic conveyor.

RALPH C JONES, P.E., PLANT ENGINEER

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ASH GROVE CEMENT COMPANY (E MARG.),  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

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ASH GROVE CEMENT COMPANY (E MARG.),  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

## INSTALLATION ADDRESS

ASH GROVE CEMENT COMPANY (E MARG.), 3801 E MARGINAL WY S, SEATTLE, WA, 98134

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

*Fredrick L. Austin*  
FREDRICK L. AUSTIN P.E.  
Reviewing Engineer

*Jay M. Willenberg*  
JAY M. WILLENBERG  
Reviewing Engineer

*David D. Kish*  
for ARTHUR DAVIDSON  
Air Pollution Control Officer

MEJ

# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 5351

Date MAR 15 1994

One DCL FS-175 Baghouse at 1,000 cfm for Rail Car Loading.

GERALD BROWN

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ASH GROVE CEMENT COMPANY (E MARG.)  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

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ASH GROVE CEMENT COMPANY (E MARG.)  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

## INSTALLATION ADDRESS

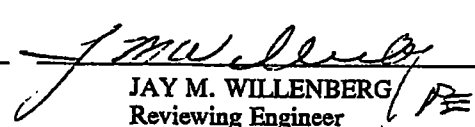
ASH GROVE CEMENT COMPANY (E MARG.), 3801 E MARGINAL WY S, SEATTLE, WA, 98134

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FREDRICK L. AUSTIN  
Reviewing Engineer

MEJ

  
JAY M. WILLENBERG  
Reviewing Engineer

  
for ARTHUR DAVIDSON  
Air Pollution Control Officer



# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 5687

Date JAN 11 1995

Ash Grove Cement Kiln (rated at 92 ton/hr) burning waste derived fuels injected at the calciner level of preheater at feed end of kiln during normal operations.

GERALD BROWN


A P P L I C A N T	ASH GROVE CEMENT COMPANY (E MARG.) 3801 E MARGINAL WY S SEATTLE WA 98134-1113	O W N E R	ASH GROVE CEMENT COMPANY (E MARG.) 3801 E MARGINAL WY S SEATTLE WA 98134-1113
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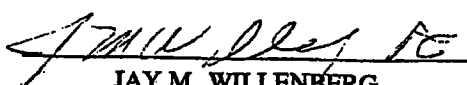
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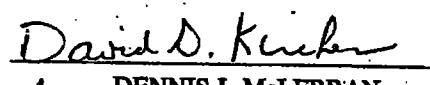
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Ash Grove shall burn only waste derived fuels generated on site and not to exceed 6,000 pounds of greases and 4,800 pounds of oils per year.
5. Ash Grove shall limit waste derived fuels to fuels that are non-hazardous as defined by WAC 173-303-515, Special Requirements for Used Oil Burned for Energy Recovery, or by WAC 173-303-090, Dangerous Waste Characteristics, as appropriate.
6. Ash Grove shall maintain records of date, type, and quantity of material incinerated.

  
FREDRICK L. AUSTIN P.E.  
Reviewing Engineer  
MEI

  
JAY M. WILLENBERG  
Reviewing Engineer

  
for DENNIS J. McLERRAN  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 5755

Date MAR 30 1995

One AGC-Seattle Whole Tire Feed System for injecting whole tires as replacement fuel at the Calcliner level of the Preheater Tower above the Kiln, which is controlled by an existing Baghouse.

GERALD BROWN

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ASH GROVE CEMENT COMPANY (E MARG.)  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

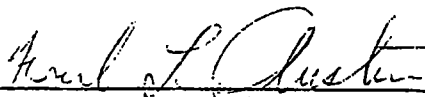
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ASH GROVE CEMENT COMPANY (E MARG.)  
3801 E MARGINAL WY S  
SEATTLE WA 98134-1113

## INSTALLATION ADDRESS

ASH GROVE CEMENT COMPANY (E MARG.), 3801 E MARGINAL WY S, SEATTLE, WA, 98134

## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Ash Grove shall limit the injection of whole tires as waste fuel substitutes for the kiln system to fuels that are non-hazardous as defined by WAC 173-303-515, Special Requirements for Used Oil Burned for Energy Recovery, or by WAC 173-303-090, Dangerous Waste Characteristics, as appropriate.
5. Ash Grove shall limit the amount of whole tires injected as non-hazardous waste fuel substitute on a daily average, to no more than 30% by weight of the fuel consumption of the kiln system.
6. Ash Grove shall submit a Fuel Monitoring Plan for injection of whole tires within 30 days after this approval. The Plan shall contain the method for verifying compliance of Condition No. 5 and the replacement fuel composition (i.e., Btu content, % ash, etc.)
7. Ash Grove shall submit an Emission Monitoring Plan within 30 days after this approval. The Plan shall contain the following elements:
  - (a) Measurement methods, analytical procedure and testing dates for demonstrating compliance with the requirements of this Order of Approval and Order of Approval No. 5730.
  - (b) The source test methods shall include: EPA Method 5 or EPA Method 201A (particulate); EPA Method 23 (semi-volatile organic compounds); EPA Method 25A (total hydrocarbons); EPA Method 26 (chlorides, fluorides, ammonium and metals); and EPA Method TO-14 (volatile organic compounds).
  - (c) Ash Grove shall conduct the source tests within 60 days of injection of whole tires and submit results within 60 days of testing, including information verifying Condition No. 5 above.
  - (d) A verification based on actual emissions measurements that the main stack emissions do not cause a violation of the ambient air quality standards in Regulation I, Article 11, or cause ambient levels above the ASILs listed in Regulation III, Appendix A.

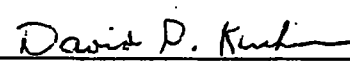


FREDRICK L. AUSTIN P.E.  
Reviewing Engineer

MEJ



JAY M. WILLENBERG  
Reviewing Engineer



for DENNIS J. McLERRAN  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 6644

Date OCT 18 1996

Barge Unloading, Transfer and Stockpiling of Solid Raw Materials and Fuels used in the manufacture of Portland Cement including the use of Water Sprays to control dust at two locations along the existing Conveyor System at the discharge ends of each conveyor and as necessary at Transfer Towers #10A and #11.

GERALD BROWN

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ASH GROVE CEMENT COMPANY (E MARG,) 3801 E MARGINAL WY S SEATTLE WA 98134-1113

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ASH GROVE CEMENT COMPANY (E MARG,) 3801 E MARGINAL WY S SEATTLE WA 98134-1113

## INSTALLATION ADDRESS


ASH GROVE CEMENT COMPANY (E MARG.), 3801 E MARGINAL WY S, SEATTLE, WA, 98134

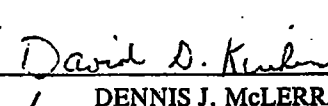
## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply. Section 5.05(e) of Regulation I requires that the owner or operator must develop and implement an operation and maintenance (O&M) plan to assure continuous compliance with Regulations I, II, and III.
3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. This Order of Approval No. 6644, issued to allow water sprays to control dust at transfer towers #10A and #11, hereby supersedes and cancels Orders of Approval No. 2399 dated Feb 28, 1983 and No. 5696 dated Jan 11, 1995.

  
FREDRICK L. AUSTIN  
Reviewing Engineer

MEJ

  
JAY M. WILLENBERG  
Reviewing Engineer

  
for DENNIS J. McLERRAN  
Air Pollution Control Officer

# Puget Sound Air Pollution Control Agency

HEREBY ISSUES AN ORDER OF APPROVAL  
TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 11339

Notice of  
Construction No. 7242

Date JAN 6 1998

One 45,000 ton Cement Storage Dome with a Pneumatic Material Transport System controlled by an Alanco Baghouse rated at 6,000 acfm, and one Alanco Baghouse rated at 6,000 acfm on the Steel Scale Tank (replaces Baghouse 920.070).

GERALD J BROWN

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3801 E MARGINAL WY S

SEATTLE

WA 98134-1113

## INSTALLATION ADDRESS

ASH GROVE CEMENT COMPANY (E MARG,), 3801 E MARGINAL WY S, SEATTLE, WA, 98134

## THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Air Pollution Control Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of PSAPCA.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Ash Grove Cement shall comply with requirements of 40 CFR Subpart A and Subpart F, and notify the U.S. Environmental Protection Agency and PSAPCA in writing according to 40 CFR Subpart A.
4. Ash Grove Cement shall install and maintain gauges to measure the pressure drop across the two Alanco baghouse exhaust filters. Within 90 days after beginning operations, the acceptable ranges for the gauges shall be clearly marked on or nearby the gauges.
5. Once during each shift either Alanco baghouse is used, Ash Grove Cement shall determine and record if the pressure drop across the exhaust filters is in the acceptable range.
6. If the pressure drop across the exhaust filters of either Alanco baghouse is not within the acceptable range, Ash Grove Cement shall take corrective action as specified in the facility's Operation and Maintenance Plan.
7. The PM-10 emissions from each of the Alanco baghouses shall not exceed 0.005 grains/dscf over a twenty-four hour period. Ash Grove may demonstrate compliance with this condition by any of the following:
  - (a) By performing a PSAPCA-approved source test according to EPA Method 5 or EPA Method 201A;
  - (b) By demonstrating no visible emissions for 15 consecutive seconds;
  - (c) By demonstrating no visible emissions for 3 consecutive minutes; or
  - (d) By repairing within 24 hours any baghouse that has visible emissions for more than three consecutive minutes. Compliance shall be determined for visible emissions using EPA Method 22. PSAPCA may require a source test for any baghouse that has sustained visible emissions, unless such emissions are unavoidable under WAC 173-400-107.

  
FREDRICK L. AUSTIN P.E.  
Reviewing Engineer

MEJ

  
JAY M. WILLENBERG  
Reviewing Engineer

  
for DENNIS J. McLERRAN  
Air Pollution Control Officer



# Puget Sound Clean Air Agency

Notice of  
Construction No. **7381**

Registration No. **11339**

Date **JUN 6 2001**

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

This Order of Approval No. 7381 modifies the Cement Kiln NOx emission standard and incorporates previously approved existing equipment consisting of one dry process 92-ton/hour (2200 ton/day, 750,000 ton/year) coal-fired Cement Plant with a 177,000 cfm Baghouse, including the following equipment: (a) Systems 216, 311, 312, 314, 41A, 315, 316, 317, 411, 416, 41B, 41C, and 419, with 24 Baghouses of various sizes (1990); and (b) two 60-ton/hour Finish Mill High Efficiency Separators with two 77,000 cfm Baghouses (515.BF2, 5255.BF2) (1995);

### APPLICANT

Gerald Brown  
Ash Grove Cement Company (E Marg.)  
3801 E Marginal Wy S  
Seattle, WA 98134-1113

### OWNER

Ash Grove Cement Company (E Marg.)  
3801 E Marginal Wy S  
Seattle, WA 98134-1113

### INSTALLATION ADDRESS

Ash Grove Cement Company (E Marg.), 3801 E Marginal Wy S, Seattle, WA, 98134

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. This source is subject to Subpart A and F of 40 CFR Part 60.
4. PM-10 emissions from each baghouse, except the main stack baghouse, shall not exceed 0.005 grains/dscf over a 24-hour period. Ash Grove may demonstrate compliance with this condition by any of the following:
  - (a) Performing a Puget Sound Clean Air Agency-approved source test according to EPA Method 5 or EPA Method 201A;
  - (b) Demonstrating no visible emissions for 15 consecutive seconds;
  - (c) Demonstrating no visible emissions for three consecutive minutes; or
  - (d) Repairing within 24 hours, any baghouse that has visible emissions for more than three consecutive minutes.

Compliance shall be determined for visible emissions using EPA Method 22. The Puget Sound Clean Air Agency may require a source test for any baghouse that has sustained visible emissions, unless such emissions are unavoidable under WAC 173-400-107.

5. Except during startup and shutdown of the kiln, scheduled maintenance and for emissions considered unavoidable under WAC 173-400-107, emissions from the main baghouse shall not exceed the most stringent of PSD limits or the following limits:

## Order of Approval for NC No. 7381

JUN 6 2001

(a) Carbon monoxide (CO) emissions shall not exceed 1049 ppm (parts per million) corrected to 10% oxygen (O<sub>2</sub>) for an 8-hour average, and CO shall not exceed 2353 tons per year;

(b) Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 650 ppm corrected to 10% O<sub>2</sub> as a 24-hour rolling average, and NO<sub>x</sub> emissions shall not exceed 1846 tons as a 12-month running total; and if the NO<sub>x</sub> emissions exceed 1400 tons as a 12-month running total, Ash Grove shall notify the Puget Sound Clean Air Agency (Attn. Permit Certification) describing actions that will be implemented to assure compliance with the annual NO<sub>x</sub> limit.

(c) Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 180 ppm corrected to 10% O<sub>2</sub> for a one-hr average, and 176 tpy;

(d) Particulate matter (PM) emissions shall not exceed 10.6 pounds per hour, and 46 tpy.

6. During startup and shutdown of the kiln, and during scheduled maintenance on the main baghouse as defined in Appendix A to this approval, all of the emission limits stated in Condition No. 5 apply, except that emissions from the main baghouse shall not exceed the following limits.

(a) During the kiln startup-preheating period prior to kiln feed introduction, the SO<sub>2</sub> emission limit for the main baghouse shall consist of compliance with the following work practices and fuel restrictions:

(i) Only natural gas shall be used as fuel and Appendix A to this approval shall be followed for heating a cold or warm kiln system and system conditioning after maintenance, and

(ii) Sulfur rings shall be removed from the kiln prior to startup, if sulfur ring formation had required the kiln to be shut down.

(b) During the kiln startup-feed introduction period, SO<sub>2</sub> emissions from the main baghouse shall not exceed 200 ppm corrected to 10% O<sub>2</sub> for a one-hr average.

(c) Any shutdown of the kiln shall follow the normal rotation and cool down procedures in Appendix A to this approval for the removal of as much material from the kiln as possible without damaging system components.

(d) Ash Grove shall log as part of the Operations and Maintenance Plan and report to the Puget Sound Clean Air Agency as part of the monthly Continuous Emission Monitoring Report:

(i) The date, start and end times, and the fuel used for kiln startup-preheating periods prior to feed introduction;

(ii) The sulfur ring removal from the kiln, if the ring formation required the kiln to be shut down;

(iii) The date, start and end times for kiln startup-feed introduction periods; and

(iv) The cause for kiln shut down, the duration of kiln cool down and the kiln rotation schedule in kiln cool down.

7. Ash Grove shall monitor and report CO, NO<sub>x</sub>, SO<sub>2</sub>, and opacity emissions from the main baghouse according to Article 12 of Regulation I. SO<sub>2</sub> emissions from the main stack shall be monitored at all times following the introduction of feed to the kiln.

8. This Order of Approval No. 7381, issued to modify the cement kiln NO<sub>x</sub> emission standard, supersedes and cancels Orders of Approval No. 3382 dated Jun 19, 1990, No. 5730 dated Dec 29, 1994, and No. 7381 dated Jun 29, 1998.

### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be

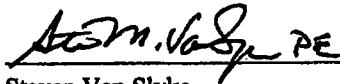
## Order of Approval for NC No. 7381

JUN 6 2001

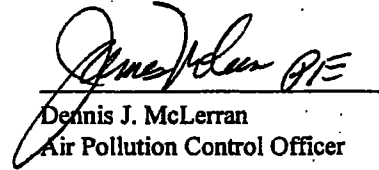
appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Fredrick Austin *P.E.*  
Reviewing Engineer  
mej



Steven Van Slyke  
Reviewing Engineer



Dennis J. McLerran  
Air Pollution Control Officer

# Puget Sound Clean Air Agency

Notice of  
Construction No. **8318**

Registration No. **11339**

Date **JAN 8 2001**

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Clean Air Agency

One NBE/2000-3940 Bulk Loading Station with emissions controlled by a 6BR40PPB-RC Pulse Jet Fabric Filter  
Collector rated at 500 cfm.

### APPLICANT

Don Ugelstad, Production Superintendent  
Ash Grove Cement Company  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### OWNER

Ash Grove Cement Company  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### INSTALLATION ADDRESS


Ash Grove Cement Company (E Marginal), 3801 E Marginal Way S, Seattle, WA, 98134

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

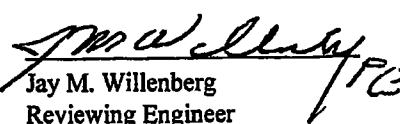
1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. There shall be no visible emissions or fallout from the dust collector.
4. The dust collector shall be inspected at least once per week for visible emissions, fallout, and pressure drop across the filters.
5. If visible emissions, fallout, or abnormal pressure drop are observed, Ash Grove Cement shall investigate the cause and either initiate repairs or shut down the equipment vented to the baghouse within 24 hours of the observation.
6. Records of all weekly inspections and corrective actions shall be maintained for at least two years and made available to Puget Sound Clean Air Agency personnel upon request.

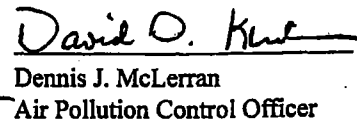
### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

  
Fredrick Austin  
P.E.  
Reviewing Engineer

mej

  
Jay M. Willenberg  
Reviewing Engineer

  
Dennis J. McLerran  
Air Pollution Control Officer





# Puget Sound Clean Air Agency

Notice of  
Construction No. **8415**

Registration No. **11339**

Date **MAR 20 2001**

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Fuller FK Material Pump and Ramsey Horizontal Rotary Gravimetric Metering System controlled by an existing Fly Ash Storage Silo 750 cfm baghouse (NC No. 5338).

### APPLICANT

Gerald Brown  
Ash Grove Cement Company (E Marginal)  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### OWNER

Ash Grove Cement Company (E Marginal)  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### INSTALLATION ADDRESS

Ash Grove Cement Company (E Marginal), 3801 E Marginal Way S, Seattle, WA, 98134

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Fredrick Austin **P.E.**  
Reviewing Engineer  
mej

Jay M. Willenberg  
Reviewing Engineer

Dennis J. McLerran  
Air Pollution Control Officer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 8600

Registration No. 11339

Date 2/8/2002

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

One Pulse Jet R-08-88-81 Baghouse rated at 20,000 cfm to control dust emissions from the Clinker Storage Shed during clinker transfer.

### APPLICANT

Gerald J Brown  
Ash Grove Cement Company  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### OWNER

Ash Grove Cement Company  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### INSTALLATION ADDRESS

Ash Grove Cement Company (E Marginal), 3801 E Marginal Way S, Seattle, WA, 98134

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The PM-10 emissions from the Pulse Jet R-08-88-81 Baghouse shall not exceed 0.005 grains/dscf over a 24-hour period. Ash Grove may demonstrate compliance with this condition by any of the following:
  - (a) By performing a Puget Sound Clean Air Agency-approved EPA Method 5 or EPA Method 201A;
  - (b) Demonstrating no visible emissions for 15 consecutive seconds;
  - (c) Demonstrating no visible emissions for 3 consecutive minutes; or
  - (d) Repairing within 24 hours, any baghouse that has visible emissions for more than 3 consecutive minutes.
4. Compliance shall be determined for visible emissions using 40 CFR 60 Method 22. Puget Sound Clean Air Agency may require a source test for any baghouse that has sustained visible emissions, unless such emissions are unavoidable under WAC 173-400-107.

### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

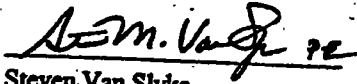
Order of Approval for NC No. 8600

FEB 08 2002



Fredrick Austin, P.E.  
Reviewing Engineer

ns



Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. **8643**

Registration No. **11339**

Date

**MAR 21 2002**

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Two Pulse Jet Dust Collector Conversions (64 Filters @ 41.5"x6.13" each, @2.26 cfm/ft<sup>2</sup>) and Fans rated at 4200 CFM each to convert existing Sly Dust Collectors on Group II Cement Silos

### APPLICANT

Henrik Voldbaek  
Ash Grove Cement Company (E Marginal)  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### OWNER

Ash Grove Cement Company (E Marginal)  
3801 E Marginal Way S  
Seattle, WA 98134-1113

### INSTALLATION ADDRESS

Ash Grove Cement Company (E Marginal), 3801 E Marginal Way S, Seattle, WA, 98134

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. The PM-10 emissions from these Two Pulse Jet Dust Collectors shall not exceed 0.005 grains/dscf over a 24-hour period. Ash Grove may demonstrate compliance with this condition by any of the following:
  - (a) By performing a Puget Sound Clean Air Agency-approved EPA Method 5 or EPA Method 201A;
  - (b) Demonstrating no visible emissions for 15 consecutive seconds;
  - (c) Demonstrating no visible emissions for 3 consecutive minutes; or
  - (d) Repairing within 24 hours, any baghouse that has visible emissions for more than 3 consecutive minutes.
4. Compliance shall be determined for visible emissions using 40 CFR 60 Method 22. Puget Sound Clean Air Agency may require a source test for any baghouse that has sustained visible emissions, unless such emissions are unavoidable under WAC 173-400-107.

### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

Order of Approval for NC No. 8643

*Fredrick Austin*

Fredrick Austin  
Reviewing Engineer

P.E.

ns

*Steven Van Slyke*

Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 9229

Registration No. 11339

Date 5/17/2007

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Used oil firing system including tanks, pumps and piping, using existing burner, with the following new equipment:  
(1) 20,000 gal used oil holding tank, (1) 6 gal/min pump, (1) Mass flow meter, (1) 3/4" pipe with nozzle fitted  
inside existing ignition sleeve of existing burner.

### APPLICANT

Gerald Brown  
Ash Grove Cement Co, E Marginal  
3801 E Marginal Way S  
Seattle, WA 98134

### OWNER

Ash Grove Cement Co, E Marginal  
3801 E Marginal Way S  
Seattle, WA 98134

### INSTALLATION ADDRESS

Ash Grove Cement Co, E Marginal, 3801 E Marginal Way S, Seattle, WA, 98134-1113

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.

2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

### BURN NON-HAZARDOUS USED OIL

3. Ash Grove shall limit used oil to non-hazardous as defined by WAC 173-303-515, Special Requirements for Used Oil Burned for Energy Recovery, or by WAC 173-303-090, Dangerous Waste Characteristics. Ash Grove is authorized to burn used oils meeting the material specifications in Condition No. 5 of this order.

4. Ash Grove shall limit the total amount of used oil injected into the kiln to 8640 gal/calendar day. Ash Grove shall monitor and maintain daily records of the volume of used oil injected into the kiln. Ash Grove shall submit these records on a monthly basis with the required CEMS reports. Examples of used oil include:

- (a) Used oils;
- (b) Refined oil tank bottoms;
- (c) Raw crude tank bottoms;
- (d) Heavy vacuum gas oil waste;
- (e) Off specification fuel oil.

5. Ash Grove shall only burn used oils meeting the following limits as delivered:

## Order of Approval for NC No. 9229

MAY 17 2007

- (a) As less than or equal to 5 ppm;
- (b) Cd less than or equal to 2 ppm;
- (c) Cr less than or equal to 10 ppm;
- (d) Pb less than or equal to 100 ppm;
- (e) PCB less than or equal to 50 ppm;
- (f) Total Halogens less than 1000 ppm;
- (g) Flash Point greater than or equal to 100 F;
- (h) Heat content between 5,000 Btu/lb to 19,000 Btu/lb.

### USED OIL DELIVERIES

#### 6. Ash Grove shall:

- (a) Authorize the person receiving and reviewing used oil shipments the authority to reject materials exceeding standards of this approval.
- (b) Obtain a signed laboratory report from the oil supplier verifying each shipment of used oil received meets Conditions No. 5(a) through (h).
- (c) Maintain a used oil delivery log and record in this log the name of the supplier, the delivery date, the volume of used oil and a signed laboratory report of each shipment of used oil received.

#### 7. Ash Grove shall calibrate the used oil flow meter at least once per calendar year and maintain records of that calibration.

### SOURCE TEST

8. Ash Grove shall submit a source test plan for Condition No. 9(a) through 9(h) no later than 30 days after the completion date specified in the Notice of Completion for this Order, meeting Regulation I, Section 3.07 with sampling methods, analytical procedure and testing dates. Ash Grove shall also follow 40 CFR 63, Subpart A and Subpart LLL for Condition No. 9(h) (Dioxin/Furan) including determining the average inlet temperature of the particulate matter control device. Alternative test methods to those identified in Condition No.9 may be used only after review and approval by the Agency.

9. Ash Grove shall complete performance source testing while operating with and without the injection of used oil. These tests shall be conducted while burning coal but not injecting tires and with the raw mill both operating and not operating. All tests shall be performed no later than 90 days after the completion date specified in the Notice of Completion with the following methods:

- (a) Opacity (CEMS);
- (b) SO<sub>2</sub> (CEMS);

## Order of Approval for NC No. 9229

MAY 17 2007

- (c) NO<sub>x</sub> (CEMS);
- (d) CO (CEMS);
- (e) Formaldehyde (Method 0011/SW-8315);
- (f) HCl (EPA Method 26A)
- (g) Metals (EPA Method 29);
- (h) Dioxin/Furan (EPA Method 23).

10. During the tests required in Condition No. 9, Ash Grove shall record the following data:

- (a). Main Baghouse inlet temperature following 40 CFR 63.1349(b)(3);
- (b) Type and quantity of clinker manufactured for cement;
- (c). Type and quantity of raw materials added to kiln;
- (d) Type, quantity and fuel Btu added to the kiln (including used oil);
- (e) Burnability Index; and
- (f) Variability of raw mix.

### RECORDS

11. Ash Grove shall maintain written records required by this Order of Approval on site. In addition, Ash Grove shall retain each record for at least five years and make them available to Puget Sound Clean Air Agency personnel upon request.

### ORDER OF APPROVAL 5687 SUPERSEDED

12. Order of Approval 9229 cancels and supersedes Order of Approval No. 5687 dated January 11, 1995.

### APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Fred Austin *P.E.*  
Reviewing Engineer

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Steven Van Slyke  
Supervising Engineer