

Puget Sound Clean Air Agency

110 Union Street, Suite 500, Seattle, WA 98101-2038: Fred Austin (206) 689-4055

Point Source Emission Report

March 11, 2004

LAFARGE NORTH AMERICA INC

Facility ID #: 14046

AFS#: 053-033-00017

Section 4 - Facility Emission Summary

<u>CAS#</u>	<u>Flags</u>	<u>Air Contaminants:</u>	<u>pounds/ 2002</u>	<u>tons / 2002</u>	<u>pounds/2003</u>	<u>tons /2003</u>
CO		Carbon Monoxide	528,062	264	_____	_____
NO2		Nitrogen Oxides	4,501,582	2,251	_____	_____
PM10		Particulate Matter	155,985	78	_____	_____
PM2.5		Particulate Matter	70,232	35	_____	_____
SO2		Sulfur Oxides	1,542,900	771	_____	_____
1314-13-2	T	Zinc oxide, fumes	62	<1	_____	_____
			=====	=====	=====	=====
		Toxic Air Contaminants Total (T)	62	<1	_____	_____



Puget Sound Air Pollution Control Agency

Notice of Construction No. **1163**

Date **March 12, 1974**

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

**Precipitator dust handling system controlled by
a Mikropul baghouse (4200 CFM)**

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F. J. Bauer

NAME

5400 W. Marginal Way S.W.

STREET

Seattle, WA 98106

CITY

STATE

ZIP

Ideal Cement Co.

NAME

5400 W. Marginal Way S.W.

STREET

Seattle, WA 98106

CITY

STATE

ZIP

INSTALLATION ADDRESS

5400 W. Marginal Way S.W., Seattle, Washington 98106

STREET

CITY

STATE

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 government agencies.

H.A.W.
Reviewing Engineer

SPECIFIC

A. R. Dammkoehler
Air Pollution Control Officer



Puget Sound Air Pollution Control Agency

Notice of Construction No. 1413

Date 10/5/75

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Conversion of Cement Processing Operation from Gas Firing to Coal
Firing and Installing Coal Crushing & Processing Facility.

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Ideal Cement Company

Same

5400 W. Marginal Way S.W.

Same

Seattle, Washington 98106

Same

CITY STATE ZIP CITY STATE ZIP

INSTALLATION ADDRESS

5400 W. Marginal Way S.W. Seattle, Washington 98106

STREET CITY STATE ZIP

SUBJECT TO THE FOLLOWING RESTRICTIONS

GENERAL

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SPECIFIC

Submit complete source test reports of Particulate and SO₂ 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
Reviewing Engineer

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



Puget Sound Air Pollution Control Agency

Notice of Construction No. 1784

Date OCT 20 1977

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

120' x 160' Reserve coal storage structure

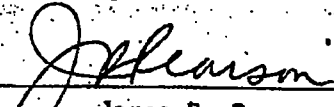
A P P L I C A N T	<u>Ideal Basic Industries, Cement Division</u>			O W N E R	<u>Same</u>		
	<u>P. O. Box 8789</u>				<u></u>		
	<u>Denver,</u>	<u>Colorado</u>	<u>80201</u>		<u></u>		
	<u>Attn: G. M. Lochhead, P.E.</u>	<u>INSTALLATION ADDRESS</u>			<u></u>		
	<u>5400 W. Marginal Way S.W.</u>	<u>Seattle,</u>	<u>Washington</u>	<u>98106</u>	<u></u>		

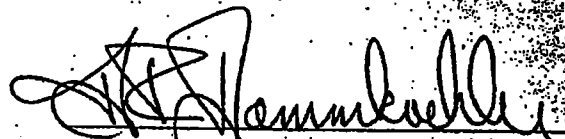
SUBJECT TO THE FOLLOWING RESTRICTIONS

GENERAL

SPECIFIC

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James R. Pearson
Reviewing Engineer


A. R. Dammkoehler
Air Pollution Control Officer



Puget Sound Air Pollution Control Agency

Notice of Construction No. 1937
Date APR 17 1980

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

~~16,400 cfm MikroPul #80-F-3 baghouse (or equiv.) to control existing gantry hopper and conveyor #1; 3,600 cfm MikroPul #49S-8-20 baghouse controlling new stationary hopper and drop onto conveyor #2; 7,500 cfm MikroPul #100 S8 TRH baghouse to control junction of conveyors #2 and #3; 3,600 cfm MikroPul #40S-8-20 baghouse to control clinker elevator and transfer to conveyor #3.~~

A P P L I C A N T	<u>Mr. Robert Baker, P.E., Ideal Basic Industries, Cement Division</u>		<u>SAME</u>	
	<small>NAME</small>		<small>NAME</small>	
	<u>P.O. Box 8789</u>			
	<small>STREET</small>		<small>STREET</small>	
<u>Denver,</u>	<u>CO</u>	<u>80201</u>		
<small>CITY</small>	<small>STATE</small>	<small>ZIP</small>	<small>CITY</small>	<small>STATE</small> <small>ZIP</small>

INSTALLATION ADDRESS


5400 N. Marginal Way, Seattle, WA 98106

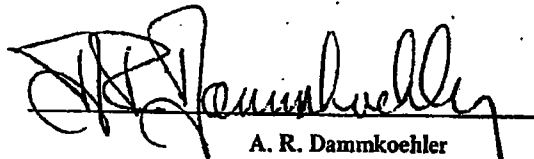
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SPECIFIC


H. A. Watters
Reviewing Engineer


A. R. Dammkoehler
Air Pollution Control Officer



Puget Sound Air Pollution Control Agency

Notice of Construction No. 2131
Date JUN 16 1980

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

One Mikro Pul 495-8-20 Baghouse (Emission Point #5 - Storage Structure) to
Control Venting at Reclaim Hopper in Clinker Storage Building, at 4,500 cfm;
Reference N/C No. 1937.

Ms. Melanie De Mouth
Ideal - Basic Industries

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P. O. Box 8789

Denver,

NAME

STREET

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80201

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Same

NAME

STREET

CITY

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INSTALLATION ADDRESS

5400 West Marginal Way S. W.

Seattle,

WA

98106

STREET

CITY

STATE

ZIP

SUBJECT TO THE FOLLOWING RESTRICTIONS

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SPECIFIC

H. A. Watters
Reviewing Engineer
jk

A. R. Dammkoehler
Air Pollution Control Officer



Puget Sound Air Pollution Control Agency

Notice of Construction No. 2312
Date OCT 21 1981

HEREBY GRANTS
PERMISSION TO CONSTRUCT, INSTALL, OR ESTABLISH

Two Mikropul-420-5-TKH-10 baghouses, at 31,250 cfm each, with Huyglas bags to control emissions from the clinker cooler

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Mr. Robert J. Castelli

Ideal Basic Industries, Inc.
P.O. Box 8789

Denver,
CITY

CO
STATE

80201-8789
ZIP

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R

Same

NAME

STREET

CITY

STATE

ZIP

INSTALLATION ADDRESS

5400 W. Marginal Way S.W.
STREET

Seattle
CITY

WA
STATE

98106
ZIP

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SPECIFIC

H. A. Watters

Reviewing Engineer

gh

A. R. Dammkoehler

A. R. Dammkoehler

Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

Registration No. 14046

Notice of Construction No. 3374

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

~~FEB 23 1990~~

One WRI MUP-240 TDF (tire derived fuel) Metering Unit at 4493 lb/hr (25%) design maximum.

MICHAEL DEPEW

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HOLNAM INC.

5400 W MARGINAL WAY SW

SEATTLE

WA 98106-1599

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R
HOLNAM INC.

5400 W MARGINAL WAY SW

SEATTLE

WA 98106-1599

INSTALLATION ADDRESS

HOLNAM INC., 5400 W MARGINAL WAY SW, SEATTLE, WA, 98106-1599

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.
4. Holnam Inc (Holnam) shall conduct a series of source tests within 60 days of startup, as follows:
Particulate Matter (Method #5 with back half), NOx (Method 7E), SO2 (Method 6C),
Metals test for Zn, Cd, Pb, Cr, Cu
Semi-Vost test for phenanthrene, pyrene, and flouranthene.
Holnam shall operate and test in accordance with PSAPCA requirements both with and without TDF.
5. Operational limits and conditions for the use of TDF will be based on the results of these tests.
The results of the source tests shall be submitted to PSAPCA within 60 days after testing.
6. Holnam shall not emit more than 256 TPY of SO2. Compliance with this requirement shall be determined by annual registration reporting pursuant to Article 5 of Regulation I.


HARRY A. WATTERS
Reviewing Engineer

HW


Anita J. Frankel
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

Registration No. 14046

Notice of Construction No. 4110

Date OCT 18 1991

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

Fuel replacement tests; start at a 5% coke fuel replacement with Tank Bottom Oil (TBO), up to 10% replacement.

KEITH R DEPEW

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HOLNAM, INC., IDEAL DIVISION

5400 W MARGINAL WY SW

SEATTLE

WA 98106-1599

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HOLNAM, INC., IDEAL DIVISION

5400 W MARGINAL WY SW

SEATTLE

WA 98106-1599

INSTALLATION ADDRESS

HOLNAM, INC., IDEAL DIVISION, 5400 W MARGINAL WY SW, SEATTLE, WA, 98106

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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. Hoinam shall conduct air emission tests and submit the test results to PSAPCA before 7/1/92. Hoinam must obtain an NC permit for a permanent replacement with TBO.


HARRY A. WATTERS
Reviewing Engineer

HAW


ANITA J. FRANKEL
Air Pollution Control Officer

Puget Sound Air Pollution Control Agency

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

Registration No. 14046

Notice of
Construction No. 5183

Date FEB 9 1993

Holnam Inc. (Cement Plant) Main Stack Opacity Standard.

NICHOLAS F. STIREN

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HOLNAM, INC., IDEAL DIVISION
5400 W MARGINAL WY SW
SEATTLE WA 98106-1599

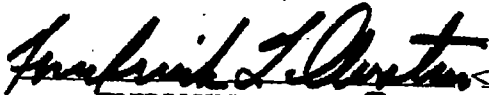
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HOLNAM, INC., IDEAL DIVISION
5400 W MARGINAL WY SW
SEATTLE WA 98106-1599

INSTALLATION ADDRESS

HOLNAM, INC., IDEAL DIVISION, 5400 W MARGINAL WY SW, SEATTLE, WA, 98106

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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. It shall be unlawful for Holnam, Inc. to cause or allow the emission of any air contaminant from the kiln main exhaust stack that is greater than 12% opacity for a 1-hour average in accordance with the provisions of Article 12 of Regulation I.
5. Holnam, Inc. shall submit annual source test reports to the Agency to verify this 1-hour opacity standard demonstrates continuous compliance with Section 9.09(a) of Regulation I.
6. This Order of Approval does not relieve Holnam, Inc. from the requirements of Regulation I, Section 9.03.
7. Holnam shall follow the procedures in Assurance of Discontinuance Agreement dated July 13, 1993 (which shall terminate on June 30, 1995), and WAC 173-400-107 for opacity and particulate violations caused by excess emissions.


FREDRICK L. AUSTIN P.E.
Reviewing Engineer
MEJ


JAY M. WILLENBERG P.E.
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. 14046

Notice of
Construction No. 5627

Date DEC 27 1994

Limit PM10 Emissions.

CONRAD C SZYMCAK, ENVIRONMENTAL/PROCESS ENGR

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HOLNAM, INC., IDEAL DIVISION
5400 W MARGINAL WY SW
SEATTLE WA 98106-1599

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HOLNAM, INC., IDEAL DIVISION
PO BOX 122
DUNDEE MI 48131

INSTALLATION ADDRESS

HOLNAM, INC., IDEAL DIVISION, 5400 W MARGINAL WY SW, SEATTLE, WA, 98106

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

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- This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
- The lower clinker cooler baghouse and the upper clinker cooler baghouse shall not be operated at the same time during normal operating conditions.
- Particulate matter (PM10) emissions from the lower clinker cooler baghouse shall not exceed 0.025 grains per dscf as measured by EPA Method 201A.
- PM10 emissions from each baghouse except the upper and the lower clinker cooler baghouses shall not exceed 0.005 grains/dscf over a twenty-four hour period. Holnam may demonstrate compliance with this condition by any of the following:
 - Performing a PSAPCA approved source test, using EPA Method 5 or EPA Method 201A.
 - Demonstrating no visible emissions for 15 consecutive seconds.
 - Demonstrating no visible emissions for three consecutive minutes, or
 - Repairing within 24 hours, any baghouse that has visible emissions for more than three consecutive minutes.Compliance for visible emissions shall be determined by EPA Method 22. PSAPCA may require a source test for any baghouse that has sustained visible emissions, unless such emissions are considered unavoidable under WAC 173-400-107.
- By February 1, 1995, Holnam shall develop written procedures to be followed during startup, shutdown, scheduled maintenance or upsets of the facility. The procedures must demonstrate that Holnam cannot prevent the excess emissions through a better operation and maintenance program, careful planning, or proper equipment design and that any bypass of control equipment is necessary to prevent loss of life, personal injury, or severe property damage. Holnam shall submit these procedures to PSAPCA for approval. Once approved by PSAPCA, PSAPCA will use those procedures to determine if excess emissions are unavoidable under WAC 173-400-107 and not subject to penalty.

Fredrick L. Austin
FREDRICK L. AUSTIN
Reviewing Engineer

MEJ

Jay M. Willenberg
JAY M. WILLENBERG
Reviewing Engineer

David D. Kufen
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. 14046

Notice of
Construction No. 6202

Date NOV 15 1995

Holnam Cement Kiln (rated at 282 MMBtu/hr) burning waste derived fuel at the fuel manifold, and one 140,000 gallon oil Storage Tank.

CONRAD C SZYMCAK

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HOLNAM, INC., IDEAL DIVISION

5400 W MARGINAL WY SW

SEATTLE

WA 98106-1599

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HOLNAM, INC., IDEAL DIVISION

5400 W MARGINAL WY SW

SEATTLE

WA 98106-1599

INSTALLATION ADDRESS

HOLNAM, INC., IDEAL DIVISION, 5400 W MARGINAL WY SW, SEATTLE, WA, 98106

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- This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
- Holnam shall limit the replacement fuel to fuel that is 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.
- On a daily average, Holnam shall limit the amount of replacement fuel to less than 25% of the heat input of the kiln.
- The replacement fuel means non-hazardous fuel that includes, but is not limited to:
 - Used Oil;
 - Refined Oil Tank Bottoms;
 - Raw Crude Tank Bottoms;
 - Heavy Vacuum Gas Oil Waste;
 - Off Specification Fuel Oil.
- Holnam shall not burn replacement fuel that contains more than:
 - 50% Ash by weight
 - 2.5% Sulfur by weight
 - 1000 ppm Lead
 - 5000 Total halogens
 - 50 ppm PCBor that has a flash point lower than 100 degrees F; a heat content less than 5,000 Btu/pound or greater than 19,000 Btu/pound.
- Holnam shall submit a Waste Derived Fuel Usage and Monitoring Plan for PSAPCA's approval within 30 days after this Approval. The Plan shall contain the following information:
 - The monitoring and testing of waste derived fuels burned in the kiln for the following:
 - Types and quantity of fuel burned (i.e., raw crude, heavy vacuum gas);
 - The sources and suppliers of the fuel;
 - Fuel parameters (i.e., Btu content, % ash, etc.);
 - The fuel testing frequency and method (i.e., monthly, per shipment, etc.);
 - The percent heat input from replacement fuel.
 - A source test plan with sampling methods, analytical procedure and testing dates for demonstrating compliance with the emission standards of Regulation I, Article 9 and NOC No. 5183.
 - A verification based on actual emissions measurements that the main stack emissions do not cause ambient levels above the ASILs listed in Regulation III, Appendix A.
 - Based on the results of (c) above, PSAPCA may set additional restrictions on the burning of waste fuels.

(cont'd)

9. This Order of Approval No. 6202, issued to delete expiration date, hereby supersedes and cancels Order of Approval No. 5192 dated Apr 1, 1994.

Fred L. Austin

FREDRICK L. AUSTIN P.E.
Reviewing Engineer

MEJ

J. M. Willenberg

JAY M. WILLENBERG
Reviewing Engineer

David D. Kisher

for DENNIS J. McLERRAN
Air Pollution Control Officer



Puget Sound Clean Air Agency

Notice of
Construction No. 8022

Registration No. 14046

Date **FEB 23 2000**

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

Cement Kiln Dust (CKD) Recycle System consisting of Conveyors, Silo, and one Mikropul 100 S-8 Baghouse rated at 8,000 cfm to recycle CKD to the kiln.

APPLICANT

**Russ Simonson
Lafarge Corporation
5400 W Marginal Wy SW
Seattle, WA 98106-1599**

OWNER

**Lafarge Corporation
5400 W Marginal Wy SW
Seattle, WA 98106-1599**

INSTALLATION ADDRESS

Lafarge Corporation, 5400 W Marginal Wy SW, Seattle, WA, 98106

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2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
3. Lafarge Corporation Inc shall comply with requirements of 40 CFR 60 Subpart A and Subpart F for the Cement Kiln Dust (CKD) recycle system conveyor transfer points, and notify the U.S. Environmental Protection Agency of construction.
4. Lafarge Corporation shall not exceed 0.005 gr/dscf from the CKD recycle baghouse.
5. Lafarge Corporation shall monitor the CKD recycle baghouse for visible emissions, evidence of fugitive dust and fallout at least once per week while operating. If visible emissions, fugitive dust or fallout are found, Lafarge Corporation shall within 24 hours make corrections until no visible emissions, fugitive dust or fallout occur, or shut down the equipment venting to the baghouse as specified in an Operation and Maintenance Plan. Lafarge Corporation shall document these corrective actions, maintain these records on site for at least five years, and make them 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, PE
Reviewing Engineer**

**Jay M. Willenberg, PE
Reviewing Engineer**

**Dennis J. McLerran
Air Pollution Control Officer**

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