DATE

CERTIFIED MAIL

Mr.
Lafarge North America, Inc.
5400 West Marginal Way Southwest
Seattle, WA 98106-1517

Dear Mr. :

Subject: Regional Haze Best Available Retrofit Technology (BART) Technical Analysis

Best Available Retrofit Technology (BART) is required to reduce the regional haze impacts of emissions of your facility. The enclosed order #5071 contains our BART determination for your facility including a schedule for compliance.

If you have questions or requests relating to this order they should be directed to Alan Newman. He can be reached at 360-407-6810 or by mail at the Department of Ecology Air Quality Program, P.O. Box 47600, Olympia, WA 98504-7600.

Sincerely,

Jeff Johnston
Technical Section Services
Section Manager
Air Quality Program

Enclosure

cc: Travis B. Weide, Lafarge North America, Inc.

Alan Newman, Ecology

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

IN THE MATTER OF AN ADMINISTRATIVE ORDER AGAINST:
LaFarge North America, INC.

ORDER No. #5071

TO: Mr.
Lafarge North America, Inc.
5400 West Marginal Way Southwest
Seattle, WA 98106-1517

This is an Administrative Order requiring your company to comply with WAC 173-400-151 by taking the actions which are described below. Chapter 70.94 RCW authorizes the Department of Ecology Air Quality Program to issue Administrative Orders to require compliance with the requirements of Chapter 70.94 RCW and regulations issued to implement it.

The Department has determined that portions of your facility are subject to the provisions of the federal and state visibility protection program (WAC 173-400-151 and 40 CFR Part 51, Subpart P). The rules require that the state determine what technologies and level of emission control constitutes Best Available Retrofit Technology (BART) for the eligible emission units at your facility. The rules also require the installation and use of those emission controls on the BART eligible emission units. The emission controls are to be installed as expeditiously as possible, but in no even can the State allow them to start operation later than 5 years after the state's Regional Haze SIP amendment is approved by EPA.

Findings

A. The Lafarge North America Seattle Plant (Lafarge) is a wet process cement plant subject to BART.
B. BART emission limitations for the plant are based on:
    a. Use of existing baghouses and electrostatic precipitators for the control of particulate matter.
    b. Use of SNCR for control of nitrogen oxides.
    c. Use of the existing wet process rotary kiln process plus dry sorbent injection using lime for control of sulfur dioxide (SO_2) emissions.

Additional information and analysis is available in the SUPPORT DOCUMENT FOR BART DETERMINATION FOR LAFARGE NORTH AMERICA, SEATTLE PLANT, by the Department of Ecology, July 2008, and the PROPOSED BEST AVAILABLE RETROFIT TECHNOLOGY (BART) FOR THE LAFARGE PLANT IN SEATTLE WASHINGTON prepared by RTP Environmental Associates on behalf of Lafarge North America, December 2007.

You are ordered: To install and operate emission control equipment in accordance with the following conditions:

BART emission limitations

1. Particulate matter emissions
   1.1. Meet the emission limitations for particulate matter found in Puget Sound Clean Air Agency's Regulation 1, Section 9.09 (in effect on June 30, 2008) and Order of Approval Number 5627.
   1.2. Compliance will be determined as specified in Air Operating Permit Number 14046.

2. Nitrogen dioxide emissions
   2.1. Starting no later than the date in Condition 5, emissions of nitrogen dioxide from the wet process rotary cement kiln are limited to:
      2.1.1. 9.06 ton/day, rolling annual average, evaluated daily.
      2.1.2. 11.48 ton/calendar day
   2.2. Compliance will be determined by use of a continuous emission monitoring system.
   2.3. An initial performance test utilizing EPA Reference Method 7E will be performed within 180 days of the start of operation of the NOx control system.

3. Sulfur dioxide emissions
   3.1. Starting no later than the date in Condition 5, emissions of sulfur dioxide from the wet process rotary cement kiln are limited to:
      3.1.1. 2.76 ton/day, rolling annual average, evaluated daily.
      3.1.2. 4.31 ton/calendar day
      3.1.3. 1000 ppmdv, one-hour average.
   3.2. Compliance will be determined by use of a continuous emission monitoring system.
   3.3. An initial performance test utilizing EPA Reference Method 6C will be performed within 180 days of the start of operation of the NOx control system.

Schedule for Compliance

4. Particulate Matter Emissions
   4.1. Compliance with the emission limitations is required upon the effective date of this Order.

5. Schedule for Compliance with Sulfur Dioxide and Nitrogen dioxide emissions

Compliance with the sulfur dioxide and nitrogen dioxide emission limitations is required no later than June 30, 2012. Compliance will be assured by meeting the following milestones:

5.1.1. Submittal of Notice of Construction application to the Puget Sound Clean Air Agency for the installation of the BART SO_2 and NOx controls no later than June 30, 2010

5.1.2. Start of construction for installation of SO_2 and NOx controls no later than March 1, 2011

5.1.3. Start of operation in compliance with the SO_2 and NOx emission limitation no later than June 30, 2012.

Monitoring and Recordkeeping Requirements

6. Particulate matter

6.1. Monitoring and recordkeeping requirements are contained in Air Operating Permit Number 14046, issued to Lafarge North America, Seattle Plant, on May 15, 2004 and modified July 28, 2004 by the Puget Sound Clean Air Agency.

7. Sulfur dioxide

7.1. Sulfur dioxide emissions are to be quantified by means of a continuous emission monitoring system, consisting of a continuous sulfur dioxide monitor, and a continuous flow rate monitor.

7.2. The sulfur dioxide monitor must meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2.

7.3. The flow rate monitor must meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6, except for location of the flow rate monitor. The flow rate monitor may be collocated with the NOx monitor's probe, provided that location is demonstrated to meet the other requirements in Performance Specification 6 and the quality assurance requirements referenced in Condition 8.4 and .

7.4. The continuous emission monitors must meet the annual quality assurance requirement of 40 CFR Part 60, Appendix F.

7.5. Each calendar day's sulfur dioxide emissions will be calculated and recorded daily.

7.6. The rolling average sulfur dioxide emissions shall be recalculated and recorded daily.

8. Nitrogen dioxide emissions

8.1. Nitrogen dioxide emissions are to be quantified by means of a continuous emission monitoring system, consisting of a continuous nitrogen oxides monitor, and a continuous flow rate monitor.

8.2. The nitrogen oxides monitor must meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2.

8.3. The flow rate monitor must meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 6, except for location of the flow rate monitor. The flow rate monitor may be collocated with the NOx monitor's probe, provided that location is demonstrated to meet the other requirements in Performance Specification 6 and the quality assurance requirements referenced in Condition 8.4 and .

8.4. The continuous emission monitors must meet the annual quality assurance requirement of 40 CFR Part 60, Appendix F.

8.5. Each calendar day's nitrogen oxides emissions will be calculated and recorded daily.

8.6. The rolling average nitrogen oxides emission shall be recalculated and recorded daily.

Reporting Requirements

9. Initial performance testing of the NOx emission control system required by Condition 2.3 shall be submitted to the Ecology Air Quality Program and to the Puget Sound Clean Air Agency within 30 days of completion.

10. Documentation of completion of each milestone in Condition 6. will be provided by Lafarge via certified mail to the Ecology Air Quality Program and to the Puget Sound Clean Air Agency within 30 days of completion.

11. Continuous emission monitoring data shall be submitted to Ecology Air Quality Program and to the Puget Sound Clean Air Agency in accordance with Puget Sound Clean Air Agency's Regulation 1, Section 12.03 (in effect on June 30, 2008). The submittal shall be electronically in a format acceptable to the Puget Sound Clean Air Agency. Reporting to Ecology will end when Lafarge has demonstrated compliance with the BART emission limits in this order for a continuous 24 month period.

Within 20 days of receipt of this Order you may request a delay in the submittal date. Any such request must be accompanied by a written justification for the delay.

Failure to comply with this Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.

You have a right to appeal this Order. To appeal you must:

- File your appeal with the Pollution Control Hearing Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours
- Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). "Date of receipt" is defined at RCW 43.21B.001(2)

If you appeal you must:

- Include a copy of this document with your Notice of Appeal
- Serve and file your appeal in paper form; electronic copies are not accepted

To file your appeal with the Pollution Control Hearing Board

Mail appeal to:

The Pollution Control Hearings Board
PO Box 40903
Olympia, WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board
4224 – 6th Ave SE Rowe Six, Bldg 2
Lacey, WA 98503

To serve your appeal on the Department of Ecology.

Mail appeal to:

The Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, WA 98504-7608

OR

Deliver your appeal in person to:

The Department of Ecology
Appeals Coordinator
300 Desmond Dr SE
Lacey, WA 98503

And send a copy of your appeal packet to:

Alan Newman
Department of Ecology
Air Quality Program
P. O. Box 47600
Olympia, WA 98504-7600

For additional information: Environmental Hearings Office Website: http://www.eho.wa.gov
To find laws and agency rules: Washington State Legislator Website: http://www1.leg.wa.gov/CodeReviser

Your appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320. These procedures are consistent with Ch. 43.21B RCW.

DATED this ___ day of _____, 200__ at Olympia, Washington.

_____

Jeff Johnston
Technical Services Section
Section Manager
Air Quality Program