

# Puget Sound Clean Air Agency

Attachment A

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

## Point Source Emission Report

June 1, 2007

**SAINT-GOBAIN CONTAINERS INC**

Facility ID #: **11656**

AFS#: **053-033-00004**

### 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>
CO		Carbon Monoxide	<b>59,171</b>	<b>30</b>	_____	_____
7440-47-3	T H	Chromium and compounds	_____	_____	_____	_____
NO2		Nitrogen Oxides	<b>658,855</b>	<b>329</b>	_____	_____
43207	V	Other Volatile Organic Compounds (VOC)	<b>91,431</b>	<b>46</b>	_____	_____
PM10		Particulate Matter	<b>180,741</b>	<b>90</b>	_____	_____
PM2.5		Particulate Matter	<b>166,630</b>	<b>83</b>	_____	_____
SO2		Sulfur Oxides	<b>368,212</b>	<b>184</b>	_____	_____
			=====	=====	=====	=====
		Volatile Organic Compounds Total (V)	<b>91,431</b>	<b>46</b>	_____	_____

# Puget Sound Air Pollution Control Agency

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

Registration No. 11656

Notice of  
Construction No. 5193

Date JAN 24 1994

Replace Glass Melting Furnace #5 with oxygen-fuel firing furnace (rated at 205 tons/day) at 35,600 cfm (350F) and retain current electric boosting.

JOHN R MINO, SENIOR ENGINEER, ENVIR

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BALL-INCON GLASS PACKAGING CORP  
1509 S MACEDONIA  
MUNCIE IN 47302

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BALL-INCON GLASS PACKAGING CORP  
5801 E MARGINAL WY S  
SEATTLE WA 98134-2497

#### INSTALLATION ADDRESS

BALL-INCON GLASS PACKAGING CORP, 5801 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. Ball-Incon shall submit a source test plan for Agency approval within 60 days which contains the following information:
  - (a) Source test data,
  - (b) Sampling methods for measuring PM10, NOx, SO2 and CO,
  - (c) Method of calculation of emissions.
5. Ball-Incon shall meet the following 1-hour average emission standards:
  - (a) 0.5 lbs. of PM10 per ton of glass produced;
  - (b) 3.8 lbs. of NOx per ton of glass produced;
  - (c) 1.6 lbs. of SO2 per ton of glass produced.
6. Ball-Incon shall conduct a source test to measure the lb. per ton emission factors for PM10, NOx, SO2 and CO within 120 days of startup.

  
FREDRICK L. AUSTIN P.E.  
Reviewing Engineer

  
JAY M. WILLENBERG PE  
Reviewing Engineer

  
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. 11656

Notice of Construction No. 5542

Date AUG 22 1994

Relocate an existing Centrifugal Exhauster at 7,500 cfm used for glass equipment cleaning.

JOHN R MINO, SR ENGINEER ENVIRONMENTAL

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BALL GLASS PACKAGING CORP

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O BALL-INCON GLASS PACKAGING CORP

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5801 E MARGINAL WY S

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WA 98134-2497

### INSTALLATION ADDRESS

BALL-INCON GLASS PACKAGING CORP, 5801 E MARGINAL WY S, SEATTLE, WA, 98134

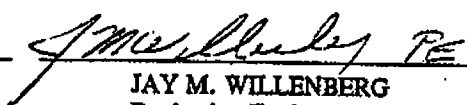
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Ball-Incon Glass shall not exceed 10% opacity for a period or periods aggregating more than 3 minutes in any 1 hour.

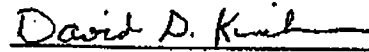


FREDRICK L. AUSTIN  
Reviewing Engineer

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. 11656

Notice of  
Construction No. 5289

Date JAN 24 1994

Replace Glass Melting Furnace #2 with oxygen-fuel firing furnace (rated at 195 tons/day) at 15,000 cfm (500F) and retain current electric boosting.

JOHN R MINO, SR ENGR, ENVIRONMENTAL

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BALL-INCON GLASS PACKAGING CORP

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IN 47302

O BALL-INCON GLASS PACKAGING CORP

W 5801 E MARGINAL WY S

N SEATTLE

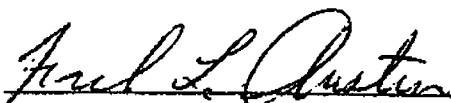
E WA 98134-2497

### INSTALLATION ADDRESS

BALL-INCON GLASS PACKAGING CORP, 5801 E MARGINAL WY S, SEATTLE, WA, 98134

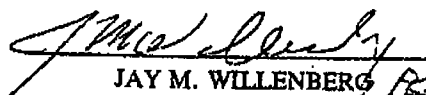
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3. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.
4. Ball-Incon shall submit a source test plan for Agency approval within 60 days which contains the following information:
  - (a) Source test data,
  - (b) Sampling methods for measuring PM10, NOx, SO2 and CO,
  - (c) Method of calculation of emissions.
5. Ball-Incon shall meet the following 1-hour average emission standards:
  - (a) 0.5 lbs. of PM10 per ton of glass produced;
  - (b) 3.8 lbs. of NOx per ton of glass produced;
  - (c) 1.6 lbs. of SO2 per ton of glass produced.
6. Ball-Incon shall conduct a source test to measure the lb. per ton emission factors for PM10, NOx, SO2 and CO within 120 days of startup.




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. 11656

Notice of  
Construction No. 5256

Date DEC 22 1994

Limit PM10 Emissions.

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BALL GLASS CONTAINER CORP

5801 E MARGINAL WY S

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WA 98134-2497

O BALL GLASS CONTAINER CORP

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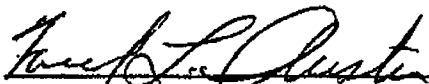
E WA 98134-2497

## INSTALLATION ADDRESS

BALL GLASS CONTAINER CORP, 5801 E MARGINAL WY S, SEATTLE, WA, 98134

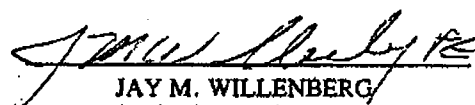
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2. Compliance with this ORDER and its conditions does not relieve the owner or operator from the responsibility of compliance with Regulations I, II or III, RCW 70.94 or any other emission control requirements, nor from the resulting liabilities and/or 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. PM10 emissions from all baghouse exhaust shall not exceed 0.010 gr/dscf.
5. PM10 emissions from glass furnace #2 shall not exceed 3.0 lb/hr.
6. PM10 emissions from glass furnace #3 shall not exceed 7.0 lb/hr.
7. PM10 emissions from glass furnace #4 shall not exceed 4.7 lb/hr.
8. PM10 emissions from glass furnace #5 shall not exceed 2.8 lb/hr.
9. When demonstrating compliance, PM10 emissions shall be determined by EPA Method 5 (as approved by the PSAPCA Board) or EPA Method 201A/202.




FREDRICK L. AUSTIN PE  
Reviewing Engineer

MEJ



JAY M. WILLENBERG  
Reviewing Engineer



DENNIS J. McLERRAN  
Air Pollution Control Officer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 8244  
Registration No. 11656  
Date JUN 14 2001

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

Limit PM10 Emissions.

## APPLICANT

John R Mino  
Saint-Gobain Containers LLC  
PO Box 4200  
Muncie, IN 47307-4200

## OWNER

Saint-Gobain Containers LLC  
5801 E Marginal Wy S  
Seattle, WA 98134-2497

## INSTALLATION ADDRESS

Saint-Gobain Containers LLC, 5801 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.

## EMISSION LIMITS

3. Saint-Gobain Containers LLC shall not exceed a total PM10 emission of 17.5 lbs/hr from Glass Furnace Nos. 2, 3, 4, and 5 combined as determined by simultaneous testing procedures of Condition No. 9, following Regulation I, Section 3.07 using EPA Method 5 as modified by Puget Sound Clean Air Agency Board Resolution 540 dated August 11, 1983.
4. Saint-Gobain Containers LLC shall perform annual (once per calendar year) simultaneous source tests demonstrating compliance with Condition No. 3 following procedures of Condition No. 9.
5. Saint-Gobain Containers LLC shall not exceed 0.010 gr/dscf PM10 emissions from any baghouse exhaust, following Regulation I, Section 3.07 using EPA Method 5 as modified by Puget Sound Clean Air Agency Board Resolution 540 dated August 11, 1983.

## COMPLIANCE RESPONSE

6. Within 60 days of noncompliance with Condition No. 3, Saint-Gobain Containers LLC shall submit a compliance report that includes:
  - (a) The probable cause of non-compliance;
  - (b) The corrective actions taken; and
  - (c) A schedule for implementing preventive measures to assure compliance.
7. Within 90 days of noncompliance with the emission standards of Condition No 3, Saint-Gobain Containers LLC shall

# Order of Approval for NC No. 8244

JUN 14 2001

demonstrate compliance by following a source test plan meeting Regulation I, Section 3.07.

## RESTARTING A FURNACE

8. Within 60 days of restarting a glass furnace that was not operating during a compliance demonstration, Saint-Gobain Containers LLC shall perform a simultaneous test to demonstrate compliance with Condition No. 3.

## SIMULTANEOUS TESTING PROCEDURES

9. Saint-Gobain Containers LLC shall demonstrate compliance with Condition No. 3 by conducting a simultaneous source test of each operating Glass Furnace Nos. 2, 3, 4, or 5 by the following:

- (a) Sample collection for at least a 60-minute sample time during each individual source test run for each furnace;
- (b) Conduct three simultaneous source test runs for each furnace;
- (c) Calculate the average emission for each furnace;
- (d) The total PM10 emission is the sum of the average emission rate for all furnaces;
- (e) An individual source test run means the period of time during which an emission sample is collected from a single glass furnace. A simultaneous source test run means the period of time during which simultaneous emission samples are collected from all operating glass furnaces where all sampling is started and stopped at the same time. Individual source test runs shall be considered simultaneous if all sampling starts within a five-minute period and stops within a five-minute period; and
- (f) If one individual source test run on a single glass furnace is accidentally lost while conducting a simultaneous source test or if one individual source test run must be discontinued because (1) a forced shutdown, (2) a failure of an irreplaceable portion of the sample train, (3) extreme meteorological conditions, or (4) other circumstances beyond the owner or furnace operator's control, which do not allow the collection for at least a 60-minute sample volume, the average emission of Condition No. 9(c) may, upon the approval of the Control Officer, be determined using the average emission of the results of the two remaining individual source test runs for the single glass furnace.

10. This Order of Approval No. 8244, issued to amend limits, hereby supersedes and cancels Order of Approval No. 5256 dated Dec 22, 1994 and will become effective at such time that the EPA adopts this version into the SIP.


## 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. 8874  
Registration No. 11656  
Date 7/22/2003

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

LMC-25-FSD-8 Baghouse @ 2664 cfm controlling the Conveyor and Sand Hopper for Glass Furnace No. 1 located inside building.

#### APPLICANT

**Doug Coburn**  
**Saint-Gobain Containers Inc**  
**PO Box 5600**  
**Muncie, IN 47307-5600**

#### OWNER

**Saint-Gobain Containers Inc**  
**PO Box 5600**  
**Muncie, IN 47307-5600**

#### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 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. Saint Gobain shall allow no visible emissions or fallout from the LMC-25-FSD-8 Baghouse.
4. Saint Gobain shall within 30 days after startup, establish the pressure drop range across the LMC-25-FSD-8 Baghouse, and record the minimum and maximum values in the facility's Operations and Maintenance Plan. The established pressure drop range shall be made visible on or near the baghouse pressure drop measuring instruments.
5. Saint Gobain shall inspect the LMC-25-FSD-8 Baghouse monthly when operating and document pressure drop readings. If the pressure drop is outside the established range, Saint-Gobain shall within 24 hours of the initial observation take corrective actions as specified in the Operations and Maintenance Plan. These actions may include shutting down the unit or activity until it can be repaired or until there are no visible emissions; or alternatively, recording the opacity using the reference test method.

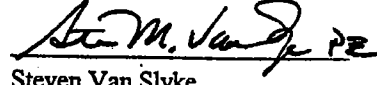
#### APPEAL RIGHTS

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Order of Approval for NC No. 8874

JUL 22 2003

  
Fred Austin  
Reviewing Engineer **P.E.**  
ns

  
Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 9004

Registration No. 11656

Date 5/3/2004

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

Raw Material Batch Unloading System supplementing the existing raw material unloading system including: a 163 foot tall Raw Material Elevator and Vibratory Feeders vented to a Flex-Kleen Model 58 BVBS 9 Arrangement II-G Collector (65 ft<sup>2</sup>) with 300 acfm on the Elevator Head Section; and Delivery Chutes and Loading Hopper vented to a Flex-Kleen Model 100 WSTS 100 Arrangement III Collector (1270 ft<sup>2</sup>) with 6,400 acfm on the Unloading Shed.

### APPLICANT

**John Mino**  
**Saint-Gobain Containers Inc**  
**1509 S Macedonia Ave**  
**Muncie, IN 47307-4200**

### OWNER

**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 E Marginal Way S, Seattle, WA, 98134**

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

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

### BACT LIMITS

3. Saint Gobain shall not exceed 0.02 gr/dscf from the Flex-Kleen Models 58 and 100 Baghouses as measured by U.S. EPA Method 5 as modified by Puget Sound Clean Air Agency Board Resolution 540 dated August 11, 1983.
4. Saint Gobain shall allow no visible emissions or particulate fallout from the Raw Material Unloading System and the two Flex-Kleen Models 58 BVBS 9 and 100 WSTS 100 Baghouses

### OPERATING CONDITIONS

5. Saint Gobain shall, within 30 days after startup, establish the pressure drop range across the Flex-Kleen Models 58 BVBS 9 and 100 WSTS 100 Baghouses, and record the minimum and maximum values in the facility's Operations and Maintenance Plan based on maintaining no visible emissions and following the manufacture's recommendations. The established pressure drop range shall be made visible on or near the baghouse pressure measuring instruments.

### MONITOR & RECORD

6. At least once per calendar quarter, Saint Gobain shall monitor and record the pressure drop across the filters, and visible emissions (including fugitive dust or fallout) from the Flex-Kleen Models 58 and 100 Baghouses when operating.

### CORRECTIVE ACTIONS

**Order of Approval for NC No. 9004**

**MAY 05 2004**

7. Saint Gobain shall define corrective actions in the Operations and Maintenance Plan following Regulation I, Section 7.09(b) to address Conditions Nos. 3 through 6.

8. Saint Gobain shall initiate corrective actions whenever there is unacceptable baghouse pressure drop or unacceptable visible emissions (including fugitive dust, particulate fallout or odors), within 24 hours and Saint Gobain shall make corrections until:

(a) The Flex-Kleen Models 58 and 100 Baghouses meet the visible emission in Condition No. 4 and the pressure drop in Condition No. 5, or

(b) Saint Gobain shall shut down the appropriate equipment as specified in the Operation and Maintenance Plan.

**RECORDS**

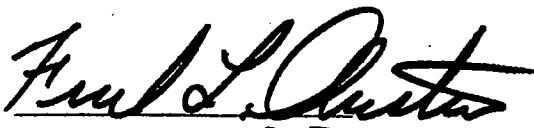
9. Saint Gobain shall maintain records on site for Conditions No. 5 through No. 8 above, including the probable cause of non-compliance; the corrective actions taken; and a schedule for implementing preventive measures to assure compliance. Saint Gobain shall retain records for at least two years and make them available to Puget Sound Clean Air Agency personnel upon request.

**NO MODIFICATIONS WITHOUT APPROVAL**

10. Modifications of these limits must receive an approval following Regulation I, Article 6.

**APPEAL RIGHTS**

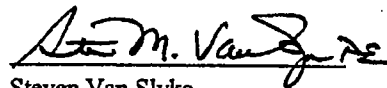
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Fred Austin  
Reviewing Engineer

P.E.

ns



Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 9322

Registration No. 11656

Date 4/20/2006

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

Glass Melting Furnaces Nos. 3 and 5 Diesel Fuel Burner installation burning ultra-low sulfur fuel oil.

## APPLICANT

**Doug Coburn**  
Saint-Gobain Containers Inc  
5801 E Marginal Way S  
Seattle, WA 98134-2497

## OWNER

Saint-Gobain Containers Inc  
5801 E Marginal Way S  
Seattle, WA 98134-2497

## INSTALLATION ADDRESS

Saint-Gobain Containers Inc, 5801 E Marginal Way S, Seattle, WA, 98134

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

## FUEL OIL LIMITS

3. During periods when natural gas is curtailed, Saint Gobain shall only burn No. 2 diesel oil in Glass Melting Furnaces Nos. 3 and 5 with a sulfur content, as purchased, not to exceed 15 parts per million by weight (0.0015%) while continuing to fire with oxy-fuel.

## EMISSION STANDARDS

4. Whenever Saint Gobain burns No. 2 diesel oil (following Condition No. 4 above) in Glass Melting Furnace No. 5, the following emission limits shall not be exceeded:

PM 0.5 lb/ton of glass

SO<sub>2</sub> 1.6 lb/ton of glass

NO<sub>x</sub> 3.8 lb/ton of glass

## OIL USE LIMITS

5. Saint Gobain shall not burn more than a total of 52,000 gallons of No. 2 diesel oil (following Condition No. 4 above) per calendar year in either Glass Melting Furnace No. 3 or No. 5, limited to periods of natural gas curtailment.

## NOTIFICATION

## Order of Approval for NC No. 9322

APR 20 2006

### NOTIFICATION

6. Saint Gobain shall notify Puget Sound Clean Air Agency in writing, within 24 hours, whenever No. 2 diesel oil (following Condition No. 4 above) is substituted for natural gas in Glass Melting Furnaces No. 3 or No. 5, during a calendar year.

### SOURCE TEST

7. Saint Gobain shall perform source tests on Glass Melting Furnace No. 5 while burning oil and while burning natural gas. Each test shall measure particulate matter (PM), sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) emissions and the testing shall be completed within one (1) year of the approval date of this Order. The oil burned for this test shall comply with the requirements of Condition No. 4 but shall not be included in the totals for fuel usage limits identified in Condition No. 6. These source tests shall be completed in conjunction with each other, with the oil burning source test starting no later than 48 hours after completion of the natural gas burning source test. The furnace operational conditions for both tests shall match except for the fuel change. The natural gas burning source test may be included as a part of other source testing requirements for the furnace. This source test shall meet the requirements of Regulation I, Section 3.07 and be conducted concurrently for all emission parameters required.

### APPEAL RIGHTS

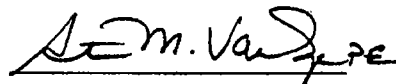
Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within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



Fred Austin  
Reviewing Engineer

P.E.

ns



Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 9369  
Registration No. 11656  
Date 4/20/2006

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

Glass Melting Furnace No. 2 Diesel Fuel Burner installation burning ultra-low sulfur fuel oil.

#### APPLICANT

**Doug Coburn**  
Saint-Gobain Containers Inc  
5801 E Marginal Way S  
Seattle, WA 98134-2497

#### OWNER

**Saint-Gobain Containers Inc**  
5801 E Marginal Way S  
Seattle, WA 98134-2497

#### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 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.

#### FUEL OIL LIMITS

3. During periods when natural gas is curtailed, Saint Gobain shall only burn No. 2 diesel oil in Glass Melting Furnace No. 2 with a sulfur content, as purchased, not to exceed 15 parts per million by weight (0.0015%) while continuing to fire with oxy-fuel.

#### EMISSION STANDARDS

4. Whenever Saint Gobain burns No. 2 diesel oil (following Condition No. 4 above) in Glass Melting Furnace No. 2, the following emission limits shall not be exceeded:

PM 0.5 lb/ton of glass

SO<sub>2</sub> 1.6 lb/ton of glass

NO<sub>x</sub> 3.8 lb/ton of glass

#### OIL USE LIMITS

5. Saint Gobain shall not burn more than a total of 52,000 gallons of No. 2 diesel oil (following Condition No. 4 above) in Glass Melting Furnace No. 2, limited to periods of natural gas curtailment.

#### NOTIFICATION

## Order of Approval for NC No. 9369


APR 20 2006

### NOTIFICATION

6. Saint Gobain shall notify Puget Sound Clean Air Agency in writing, within 24 hours, whenever No. 2 diesel oil (following Condition No. 4 above) is substituted for natural gas in Glass Melting Furnace No. 2, during a calendar year.

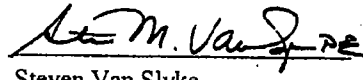
### APPEAL RIGHTS

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  
Reviewing Engineer

P.E.

ns

  
Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of Construction No. 9388

Registration No. 11656

Date 4/12/2006

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

(8) Replacement MAC 300 cfm dust collectors on existing raw material silos Nos. 1, 2, 3, 4, 5, 7 and 8 (No. 6 silo routed to No. 8 dust collector), and replacement Torit 1250 cfm dust collector (Plant Collector No. 4) on the No. 2 Tube North (Transfers raw materials from mixed batch silo to Furnace No. 2).

### APPLICANT

**Doug Coburn**  
**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

### OWNER

**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 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. Saint-Gobain shall allow no visible emissions or fallout from the MAC and Torit duct collectors.
4. Saint-Gobain shall within 30 days after startup, establish the pressure drop range across the MAC and Torit duct collectors, and record the minimum and maximum values in the facility's Operations and Maintenance Plan. The established pressure drop range shall be made visible on or near the baghouse pressure drop measuring instruments.
5. Saint-Gobain shall inspect the MAC and Torit duct collectors monthly when operating and document pressure drop readings. If the pressure drop is outside the established range, Saint-Gobain shall within 24 hours of the initial observation take corrective actions as specified in the Operations and Maintenance Plan. These actions may include shutting down the unit or activity until it can be repaired or until there are no visible emissions; or alternatively, recording the opacity using the reference test method.

### APPEAL RIGHTS

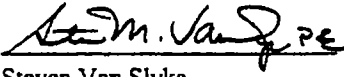
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Order of Approval for NC No. 9388

APR 12 2006

  
Fred Austin  
Reviewing Engineer  
P.E.

ns

  
Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. 9397

Registration No. 11656

Date 7/28/2006

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

Glass Melting Furnaces No. 4 Diesel Fuel Burner installation burning ultra-low sulfur fuel oil.

### APPLICANT

**Doug Coburn**  
**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

### OWNER

**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 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.

### FUEL OIL LIMITS

3. During periods when natural gas is curtailed, Saint Gobain shall only burn No. 2 diesel oil in Glass Melting Furnaces No. 4 with a sulfur content, as purchased, not to exceed 15 parts per million by weight (0.0015%).

### OIL USE LIMITS

4. Saint Gobain shall not burn more than a total of 52,000 gallons of No. 2 diesel oil (following Condition No. 3 above) per calendar year in Glass Melting Furnace No. 4, limited to periods of natural gas curtailment.

### NOTIFICATION

5. Saint Gobain shall notify Puget Sound Clean Air Agency in writing, within 24 hours, whenever No. 2 diesel oil (following Condition No. 3 above) is substituted for natural gas in Glass Melting Furnace No. 4 during a calendar year.

### 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. 9397

JUL 28 2006

  
Fred Austin  
Reviewing Engineer P.E.

ns

  
Steven Van Slyke  
Supervising Engineer



# Puget Sound Clean Air Agency

Notice of  
Construction No. **9528**

Registration No. **11656**

Date **FEB 22 2007**

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

One Tri-Mer Cloud Chamber Scrubber rated at 40,000 cfm for control of particulate and sulfur dioxide emissions from Glass Furnace #5.

#### APPLICANT

**David Grega**  
**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

#### OWNER

**Saint-Gobain Containers Inc**  
**5801 E Marginal Way S**  
**Seattle, WA 98134-2497**

#### INSTALLATION ADDRESS

**Saint-Gobain Containers Inc, 5801 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. Upon startup of the cloud chamber scrubber, Glass Furnace No. 5 shall be subject to the New Source Performance Standard for particulate matter under 40 CFR 60.292. The requirements under 40 CFR 60.293 shall continue to apply until startup of the cloud chamber scrubber. St. Gobain shall operate the cloud chamber scrubber until it has received an Order of Approval from the Agency cancelling and superseding this Order of Approval No. 9528. Startup occurs when the cloud chamber scrubber has been installed, shakedown is complete, and the Notice of Completion is submitted to the Agency.
4. Saint-Gobain shall continuously monitor and record (1-hour averages) the cloud chamber scrubber's recirculating water flow, make-up water flow, pH, and voltage whenever it's in operation.
5. Saint-Gobain shall monitor and record the following Glass Furnace No. 5 parameters on a daily basis: pull rate, color, electric boost, natural gas, bridge-wall temperature, type and quantity (i.e., percentage of batch) of fining agents, glass type and % cullet usage.
6. Saint-Gobain shall operate a continuous emission monitoring system for SO<sub>2</sub> at the inlet and outlet of the cloud chamber scrubber in accordance with the requirements of Section 12.03 of Regulation I, including 40 CFR Part 60, Appendix B (Performance Spec. 2) and Appendix F (Procedure 1), for a period of no less than 24 months from the startup of the cloud chamber scrubber.
7. All particulate matter source test reports for Glass Furnace No. 5 shall include the calculated SO<sub>2</sub> emissions in pounds of SO<sub>2</sub> per ton of glass of glass produced, based on the SO<sub>2</sub> CEMS data and the stack parameters measured during the

## Order of Approval for NC No. 9528

FEB 22 2007

tests.

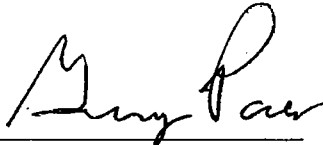
8. Saint-Gobain shall submit the hourly average scrubber monitoring data, daily furnace monitoring data, and the hourly CEMS monitoring data (required by Conditions 4 through 6 of this Order) to the Agency electronically along with the monthly SO2 CEMS reports.

9. Saint-Gobain shall investigate the relationships between the SO2 CEMS data and the furnace and cloud chamber scrubber operating parameter monitoring data in Conditions 4 and 5 of this Order. This investigation shall include an evaluation of 'if-and-how' the furnace operating parameters affect the scrubber inlet concentrations, and 'if-and-how' the scrubber operating parameters affected the outlet concentrations.

10. Saint-Gobain shall submit a report documenting the results of Condition 9 no later than 26 months from the date of startup of the cloud chamber scrubber.

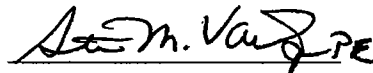
### APPEAL RIGHTS

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Gerry Pade  
Reviewing Engineer

ns



Steven Van Slyke  
Supervising Engineer