

**AIR EMISSION PERMIT NO. 13900005-004**

**IS ISSUED TO**

**ANCHOR GLASS CONTAINER CORPORATION**

One Anchor Plaza  
4343 Anchor Plaza Parkway  
Tampa, Florida 33634-7613

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit application(s):

Permit Type	Permit Action	Application Date(s)	Issuance Date (s)
Total Facility Operating Permit	001	June 15, 1995	January 28, 2005
MPCA-Initiated Major Amendment	002	April 12, 2005	August 9, 2005
Administrative Amendment	003	August 30, 2005	October 27, 2005
MPCA-Initiated Major Amendment	004	February 22, 2006	See Below

This permit authorizes the Permittee to operate the stationary source located at **4108 Valley Industrial Boulevard, Shakopee, Scott County, Minnesota**, unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

**Permit Type:** Federal; Part 70/Major for NSR

**Issue Date:** January 28, 2005

**Expiration:** January 28, 2010

All Title I Conditions do not expire.

**Major Modification**

**Issue Date: May 24, 2006**

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Richard J. Sandberg, Manager  
Air Quality Permits Section  
Industrial Division

for Sheryl A. Corrigan  
Commissioner  
Minnesota Pollution Control Agency

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**NOTICE TO THE PERMITTEE:**

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	(651) 296-6300
Outside Metro Area	1-800-657-3864
TTY	(651) 282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

**PERMIT SHIELD:**

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition.

Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

**FACILITY DESCRIPTION:**

Anchor Glass Container Corporation owns and operates a glass manufacturing facility at 4108 Valley Industrial Boulevard, Shakopee, Scott County, Minnesota. The facility produces glass containers from raw materials and recycled glass. The facility consists of two glass melting furnaces, raw materials unloading and conveying with fabric filter baghouses, crusher/grinder, mold repair, forming machines, annealing lehrs, cullet processing, videojet printing and hot end coating hoods. Raw materials consist of sand, soda-ash, feldspar, aragonite and cullet (broken and recycled glass).

### **PERMIT ACTION 002 (MPCA-INITIATED MAJOR AMENDMENT)**

This major permit amendment is an MPCA-initiated amendment under Minn. R. 7007.1600, subp. 1(D). It incorporates a production limit of less than or equal to 352 tons per day of glass pulled for No. 1 Glass Furnace (EU001) imposed on the Facility under the performance testing rules (Minn. R. 7017.2025, subp. 3).

### **PERMIT ACTION 003 (ADMINISTRATIVE AMENDMENT)**

This administrative amendment grants the Permittee an extension of up to 120 days to submit the stack test report for No. 2 Glass Furnace (EU 002). The new due date is January 02, 2006, which is 45 days from test completion date, (allowed in Air Emissions Permit No. 13900005-002,) plus 120 days. The Testing Frequency Plan due date has also been extended 105 days, to meet the due date for the test report. The submittal requirement for a Fugitive Emissions Control Plan has been fulfilled and deleted from this permit. In addition to compliance with all other requirements listed in Minn. R. 7011.0150, the Permittee is now required to comply with the Fugitive Emissions Control Plan submitted on April 01, 2005.

### **PERMIT ACTION 004 (MPCA-INITIATED MAJOR AMENDMENT)**

This major permit amendment is an MPCA-initiated amendment under Minn. R. 7007.1600, subp. 1 (D) and Minn. R. 7007.1600, subp. 3, mandatory reopening that is needed in order to assure compliance with applicable requirements. It incorporates a production limit of less than or equal to 356 tons per day of glass pulled for No. 2 Glass Furnace (EU002) imposed on the Facility under the performance testing rules (Minn. R. 7017.2025, subp. 3). In addition, the permit amendment incorporates a new performance testing reoccurrence requirement for EU 002. The Permittee met the deadline dates to submit the performance test report and testing frequency plan to the MPCA.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee  
 Permit Number: 13900005 - 004

**Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.**

**Subject Item: Total Facility**

What to do	Why to do it
A. OPERATIONAL REQUIREMENTS	hdr
Ambient Air Quality Standards: The Permittee shall comply and demonstrate compliance with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50 and with Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080.	40 CFR pt. 50; Minn. Stat. Section 116.07, subd. 4a and 9; Minn. R. 7007.0080, subp. 5; Minn. R. 7007.0100, subps. 7A, 7L and 7M; Minn. R. 7007.0800, subps. 1, 2 and 4; Minn. R. 7009.0010 - 7009.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150 and with the Fugitive Emissions Control Plan.	Minn. R. 7011.0150
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
B. PLANS	hdr
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
C. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
D. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
Performance Test Notifications and Submittals:  Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.  Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test	Minn. R. 7017.2030, subp. 1-4 and Minn. R. 7017.2035, subp. 1-2
E. MONITORING REQUIREMENTS	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
F. DISPERSION MODELING REQUIREMENTS	hdr
G. AMBIENT AIR MONITORING	hdr
H. RECORDKEEPING	hdr
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
I. REPORTING	hdr
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.  At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.  At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
J. MISCELLANEOUS	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-3

05/24/06

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-4

05/24/06

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item: GP 001 Forming Machines****Associated Items:** EU 009 Forming Machine No. 1

EU 010 Forming Machine No. 2

EU 011 Forming Machine No. 3

EU 012 Forming Machine No. 4

EU 014 Forming Machine No. 5

EU 015 Forming Machine No. 6

SV 007 Robertson Ventilators

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.02 grains/dry standard cubic foot using 3-hour Rolling Average of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735. (limit applies at the stack level)	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity (limit applies to each unit)	Minn. R. 7011.0715, subp. 1(B)



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item: GP 002 Annealing Lehrs**

- Associated Items:** EU 016 Annealing Lehr 1  
 EU 017 Annealing Lehr 2  
 EU 018 Annealing Lehr 3  
 EU 019 Annealing Lehr 4  
 EU 020 Annealing Lehr 5  
 EU 021 Annealing Lehr 6  
 SV 007 Robertson Ventilators

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input using 3-hour Rolling Average (limit applies to each unit)	Minn. R. 7011.0515, subp. 1; Minn. R. 7011.0550
Sulfur Dioxide: less than or equal to 1.6 lbs/million Btu heat input using 3-hour Rolling Average (limit applies to each unit)	Minn. R. 7011.0515, subp. 1; Minn. R. 7011.0550
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0515, subp. 2
Fuel Restriction: Burn natural gas and liquified petroleum gas only in the units	Minn. R. 7007.0800, subp. 2
B. RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Record and maintain the type of fuel combusted on a monthly basis by the 15th day of each month.	Minn. R. 7007.0800, subp. 4 and 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 001 Glass Melting Furnace #1

**Associated Items:** SV 001 North Stack

SV 002 South Stack

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 23.75 lbs/hour using 3-hour Average based on a fill rate of 17.7 tons/hr	Minn. R. 7011.0610, subp. 1(A)(1)
Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input using 3-hour Rolling Average	Minn. R. 7011.0610, subp. 2(A)(2)
Opacity: less than or equal to 20 percent opacity ; except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(1)
B. OTHER LIMITS AND REQUIREMENTS	hdr
<p>Production: less than or equal to 352 tons/day of glass pulled by dividing the total pull rate by the total operating time in a day. Down time of 15 or more minutes is not to be included as operating time.</p> <p>The Permittee may increase the production limit up to the maximum production capacity of 361 tons per day, if an approved performance test is established at 95% of the desired limit and the emission certified complaint with Minn. R. 7011.0610 and Minn. R. 7011.0730.</p>	Minn. R. 7017.2025, subp. 3
Fuel Restriction: Burn natural gas and propane only	Minn. R. 7007.0800, subp. 2
C. RECORDKEEPING REQUIREMENTS	hdr
Production Recordkeeping: The Permittee shall maintain and record on a daily basis tons per day of glass pulled.	Minn. R. 7007.0800, subp. 2
Recordkeeping of Fuel: Record and maintain records of each fuel combusted on a monthly basis by the 15th day of each month	Minn. R. 7007.0800, subp. 5
D. PERFORMANCE TEST REQUIREMENTS	hdr
<p>Performance Test: due before end of each 36 months starting 10/05/2004 to measure PM, PM10 and opacity from SV 001 and SV 002.</p> <p>For additional applicable performance test requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility."</p>	Minn. R. 7017.2020, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 002 Glass Melting Furnace #2

**Associated Items:** SV 003 North Stack

SV 004 South Stack

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 20.17 lbs/hour using 3-hour Average based on a fill rate of 16.19 tons/hr	Minn. R. 7011.0610, subp. 1(A)
Sulfur Dioxide: less than or equal to 2.0 lbs/million Btu heat input using 3-hour Rolling Average	Minn. R. 7011.0610, subp. 2(A)(2)
Opacity: less than or equal to 20 percent opacity ; except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 2(A)
B. OTHER LIMITS AND REQUIREMENTS	hdr
Production: less than or equal to 356 tons/day of glass pulled by dividing the total pull rate by the total operating time in a day. Down time of 15 or more minutes is not to be included as operating time.	Minn. R. 7017.2025, subp. 3
Fuel Restriction: Burn natural gas and propane only	Minn. R. 7007.0800, subp. 2
C. RECORDKEEPING REQUIREMENTS	hdr
Production Recordkeeping: The Permittee shall maintain and record on a daily basis tons per day of glass pulled.	Minn. R. 7007.0800, subp. 2
Recordkeeping of Fuel: Record and maintain records of each fuel combusted on a monthly basis by the 15th day of each month	Minn. R. 7007.0800, subp. 5
D. PERFORMANCE TEST REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 07/21/2005 to measure PM, PM10 and opacity from SV 003 and SV 004.	Minn. R. 7017.2020, subp. 1
For additional applicable performance test requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility."	

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 003 Raw Materials Unloading

**Associated Items:** CE 001 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 005 Raw Material Conveying Baghouse

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.1 grains/dry standard cubic foot using 3-hour Rolling Average unless required to reduce emissions to less than or equal to either the amount allowed by Minn. R. 7011.0730, or concentration allowed by Minn. R. 7011.0735	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 3.0 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated.	Minn. R. 7007.0800, subps. 2 and 14
C. MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping: The Permittee shall record the pressure drop once every 24 hours, when in operation.	Minn. R. 7007.0800, subps. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-9

05/24/06

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 004 Crusher/Grinder**Associated Items:** SV 009 Cullet Crusher/Grinder Batchhouse

<b>What to do</b>	<b>Why to do it</b>
Total Particulate Matter: less than 0.3 grains/dry standard cubic foot using 3-hour Rolling Average unless required to reduce emissions to less than or equal to either the amount allowed by Minn. R. 7011.0730, or concentration allowed by Minn. R. 7011.0735	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 005 Raw Materials Conveying

**Associated Items:** CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 005 Raw Material Conveying Baghouse

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.1 grains/dry standard cubic foot using 3-hour Rolling Average unless required to reduce emissions to less than or equal to either the amount allowed by Minn. R. 7011.0730, or concentration allowed by Minn. R. 7011.0735	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 3.0 inches of water column and less than or equal to 8.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated.	Minn. R. 7007.0800, subps. 2 and 14
C. MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping: The Permittee shall record the pressure drop once every 24 hours, when in operation.	Minn. R. 7007.0800, subps. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 006 Mold Repair

**Associated Items:** CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 006 Mold Shop Baghouse

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.1 grains/dry standard cubic foot using 3-hour Rolling Average unless required to reduce emissions to less than or equal to either the amount allowed by Minn. R. 7011.0730, or concentration allowed by Minn. R. 7011.0735	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated.	Minn. R. 7007.0800, subps. 2 and 14
C. MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping: The Permittee shall record the pressure drop once every 24 hours, when in operation.	Minn. R. 7007.0800, subps. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

**Subject Item:** EU 024 Cullet Processing

**Associated Items:** CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 008 Cullet Processor Baghouse

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.096 grains/dry standard cubic foot using 3-hour Rolling Average unless required to reduce emissions to less than or equal to either the amount allowed by Minn. R. 7011.0730, or concentration allowed by Minn. R. 7011.0735	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
B. POLLUTION CONTROL EQUIPMENT REQUIREMENTS	hdr
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 1.0 inches of water column and less than or equal to 6.0 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3, based on the values recorded during the most recent MPCA approved performance test where compliance was demonstrated.	Minn. R. 7007.0800, subps. 2 and 14
C. MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping: The Permittee shall record the pressure drop once every 24 hours, when in operation.	Minn. R. 7007.0800, subps. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subps. 4, 5, and 14
Alternative Pressure Drop Range: If the Permittee wishes to propose an alternative pressure drop range to the one specified in this permit without conducting a performance test, the Permittee shall submit the proposal to MPCA for review. The proposal shall contain control equipment vendor data, actual operating data, or other information as necessary, in order to justify an alternative range. Upon written approval by MPCA, the alternative range shall become an enforceable part of this permit.	Minn. R. 7007.0800, subp. 2
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subps. 4, 5 and 14



**TABLE B: SUBMITTALS**

B-1 05/24/06

Facility Name: Anchor Glass Container Corp - Shakopee  
Permit Number: 13900005 - 004

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue NW (6204N)  
Washington, D.C. 20460

**TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Protocol	due 1096 days after 01/28/2005 for PM10, SO2, and NOx. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. The protocol will be based on projected operating conditions under the next permit term. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Results	due 1461 days after 01/28/2005 for PM10, SO2, and NOx. To be submitted after the MPCA has reviewed and approved the modeling protocol. The submittal should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Monitoring Plan	<p>due 1096 days after 01/28/2005 for Ambient Air Monitoring. This Monitoring Plan is not required if the Permittee submits a computer dispersion modeling protocol OR an alternative widely-accepted method to demonstrate compliance for MPCA's consideration.</p> <p>Monitoring shall be done to measure ambient concentrations of PM10, SO2 and NOx along the fenceline and in the vicinity of the facility. As approved by the MPCA, the Permittee shall install monitoring equipment using an approved option.</p> <p>This is a state-only requirement and it is not enforceable by the EPA Administrator or citizens under the Clean Air Act.</p>	Total Facility

**TABLE B: RECURRENT SUBMITTALS**

B-3 05/24/06

Facility Name: Anchor Glass Container Corp - Shakopee

Permit Number: 13900005 - 004

<b>What to send</b>	<b>When to send</b>	<b>Portion of Facility Affected</b>
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 01/28/2005 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 01/28/2005 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

**APPENDIX MATERIAL B**

**Facility Name: Anchor Glass Container Corp - Shakopee**  
**Permit Number: 13900005-004**

**NO CHANGES IN PERMIT ACTION 002, 003 OR 004.**

**Permit Number: 13900005-001**  
**Insignificant Activities and Applicable Requirements**

<b>Description of Activity</b>	<b>Applicable Insignificant Activity</b>	<b>Likely Applicable Requirement</b>
Swabbing Compound Storage Tanks	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.0515
Mig/Tig Welders, Arc Welders, Torches	Minn. R. 7007.1300, subp. 3. H (4)	Minn. R. 7011.0710/0715
Surface Grinders and Cutters	Minn. R. 7007.1300, subp. 3. D (2)	Minn. R. 7011.0710/0715
Mold Oven	Minn. R. 7007.1300, subp. 3. B (2)	Minn. R. 7011.0610
Cooling Towers	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.0710/0715
Diesel Fire Pump	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.2300
Diesel Storage Tanks (1,550 gallons total)	Minn. R. 7007.1300, subp. 3. E(2)	Minn. R. 7011.1500
Space Heaters	Minn. R. 7007.1300, subp. 3.A.	Minn. R. 7011.0515
Safety-Kleen Parts Washers	Minn. R. 7007.1300, subp. 4. B.	Minn. R. 7011.0710/0715
Cardboard Baler	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.0710/0715
Propane Vaporizer	Minn. R. 7007.1300, subp. 3. I (2)	
Mineral Spirits Degreasers	Minn. R. 7007.1300, subp. 4. B.	Minn. R. 7011.0710/0715
Vacuum Pumps	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.0710/0715
Trine Labeler	Minn. R. 7007.1300, subp. 3. I (2)	Minn. R. 7011.0710/0715

**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**AIR EMISSION PERMIT NO. 13900005-004**

This Technical Support Document (TSD) is intended for all parties interested in the draft/proposed permit and to meet the requirements that have been set forth by the federal regulations and Minn. R. (40 CFR, § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the permit.

**1. General Information**

**1.1 Applicant and Stationary Source Location:**

Owner and Operator Address and Phone Number	Facility Address (SIC Code: 3221)
Anchor Glass Container Corporation 4343 Anchor Glass Parkway Tampa, FL 33634 Phone Number: 952-445-5000	Anchor Glass Container 4108 Valley Industrial Boulevard North Shakopee, MN 55379 Scott County
Contact: Mr. Ken Berg Phone: (952) 445-5000, ext. 348	

**1.2 Description of the Facility**

Anchor Glass Container Corporation owns and operates a glass manufacturing facility at 4108 Valley Industrial Boulevard, Shakopee, Scott County, Minnesota. The facility produces glass containers from raw materials and recycled glass. The facility consists of two glass melting furnaces, raw materials unloading and conveying with fabric filter baghouses, crusher/grinder, mold repair, forming machines, annealing lehrs, cullet processing, videojet printing and hot end coating hoods. Raw materials consist of sand, soda-ash, feldspar, aragonite and cullet (broken and recycled glass).

The main emissions from the stationary sources are Particulate Matter (PM), Particulate Matter less than 10 microns (PM<sub>10</sub>), Sulfur Dioxide (SO<sub>2</sub>) and Nitrogen Oxide (NO<sub>x</sub>). The facility is classified as a major source under federal New Source Review (NSR), federal Operating Program (40 CFR pt. 70) and non-major for National Emission Standards for Hazardous Air Pollutants (NESHAPs, 40 CFR pt. 63).

A Part 70 Total Facility Operating Permit (13900005-001) was issued to Anchor Glass Container Corporation on January 28, 2005. Previously, the facility operated under a total facility permit and two amendments. Since the expiration of Total Facility Operating permit on August 8, 1993, Anchor Glass Container Corporation continued to operate its facility under the conditions of the expired permit as is required by Minn. R. 7007.0450, Continuation of Expired Permit. The permit issued on January 28, 2005, was a consolidation of all existing conditions from the expired total facility operating permit and two amendments. The permit application for the permit issued on January 28, 2005, was received by the Minnesota Pollution Control Agency (MPCA) on June 15, 1995, in accordance with its deadline.

### **1.3 Description of the Activities Allowed by this Permit Action**

This major permit amendment is an MPCA-initiated amendment under Minn. R. 7007.1600, subp. 1 (D) and Minn. R. 7007.1600, subp. 3, mandatory reopening that is needed in order to assure compliance with applicable requirements. It incorporates a production limit of less than or equal to 356 tons per day of glass pulled for No. 2 Glass Furnace (EU002) imposed on the Facility under the performance testing rules (Minn. R. 7017.2025, subp. 3). In addition, the permit amendment incorporates a new performance testing reoccurrence requirement for EU 002. The Permittee met the deadline dates to submit the performance test report and testing frequency plan to the MPCA.

### **1.4 Change in Emissions**

There are no changes in emissions associated with the permit reopening.

## **2. Regulatory and/or Statutory Basis**

The following table shows which permit limits were revised in the permit, as well as the date of the MPCA letter that sets the new limit. See Attachment 1 to this TSD for a copy of the letter.

<b>Permit No.</b>	<b>Level*</b>	<b>Old/New Limits</b>	<b>Basis</b>
Anchor Glass Container  13900005-004	No. 2 Glass Melting Furnace (EU002)	Old: Production: less than or equal to 352 tons/day of glass pulled...  New: Production: less than or equal to 356 tons/day of glass pulled...	February 22, 2006, letter from MPCA implementing Minn. R. 7007.1600, subp. 1.D.

\*Level -- EU = emission unit, GP = group, TF = total facility, SV = stack/vent, CE = control equip.

### **3. Comments Received**

Public Notice Period: April 7, 2006 – May 8, 2006

U.S. Environmental Protection Agency's (EPA) 45-day Review Period: April 7, 2006 – May 23, 2006

Comments were not received from the public during the public notice period or during EPA's comment period. A letter dated April 4, 2006, was received from the Lac Vieux Desert Band of Lake Superior Chippewa Indians that indicated that they have no interest in this permit action.

### **4. Conclusion**

Based on the information provided by Anchor Glass Container Corporation, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 13900005-004, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team:      Amrill Okonkwo (permit writer/engineer)  
   Scott Parr (enforcement)  
   Curtis Stock (stack testing)  
   Bonnie Nelson (peer reviewer)

Attachment    1. MPCA Notification Letter (rescind based on performance test letter)  
                         2. CD-01 Printout Reflecting Changes  
                         3. Updated Emission Calculations