ANCHOR GLASS CONTAINER CORPORATION
JACKSONVILLE PLANT 07

FACILITY ID NO.: 0310005
DUVAL COUNTY
AIR CONSTRUCTION PERMIT
DRAFT PERMIT NO.: 0310005-008-AC

PERMITTING AND COMPLIANCE AUTHORITY
ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT
ENVIRONMENTAL QUALITY DIVISION
117 WEST DUVAL STREET
SUITE 225
JACKSONVILLE, FL 32202
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Air Construction Permit

Draft Permit No.: 0310005-008-AC

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Emission Unit ID No.	Brief Description
003	Glass Melting Furnace No. 3

Permittee:

Anchor Glass Container Corporation
2121 Huron Street
Jacksonville, FL 32254

Draft Permit No.: 0310005-008-AC
Facility ID No.: 0310005
SIC No.: 32
Project: Construction Permit for
Glass Melting Furnace No. 3

This permit is for the modification of glass melting furnace No. 3 at the Anchor Glass Container Corporation, Jacksonville Plant 07, located at 2121 Huron Street, Jacksonville, Duval County, Florida, 32236. UTM Coordinates: Zone 17, 431.5 km East and 3337.5 km North; Latitude: 30^0 20' 57" North and Longitude: 81^0 42' 53" West.

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC), Rules 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Environmental Resource Management Department, Environmental Quality Division (Department), and made a part hereof, in accordance with the terms of this permit.

Title V Revision Operation Permit Application Due Date: December 31, 2005
Expiration Date: June 30, 2006

Environmental Resource Management Department
Environmental Quality Division

Robert Steven Pace, P.E.
Air Quality Branch Manager

RSP/JW/rds

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Section I. Facility Information

Subsection A. Project and Facility Description

Glass melting furnace no. 3 is an existing glass melting furnace with a currently permitted maximum process weight of 12.9 tons per hour (equivalent to 274 tons per day of glass production). Anchor Glass Container Corporation has requested that the permitted maximum process weight be increased to 14.7 tons per hour (equivalent to 312.26 tons per day of glass production) to meet customer demand and that the capacity of the electric boost system be increased to a maximum of 2500 KVA. The modified furnace shall **not** be subject to 40 CFR 60, Subpart CC, Standards of Performance for Glass Manufacturing Plants, and 40 CFR 60, Subpart A, General Conditions. The existing furnace is capable of production at the 312.26 tons per day rate, according to the applicant, and will not be modified as defined by the above referenced 40 CFR 60 regulations. The furnace is subject to the requirement to obtain an air construction permit since the changes proposed are modifications as defined by the Department of Environmental Protection regulations, Chapter 62-210, FAC. The permitted maximum glass process weight will be capped at 14.7 tons per hour and the maximum permitted glass production rate will be capped at 312.26 tons per day and 113,976.1 tons per year. Heat input from fossil fuel firing and electrical boost input shall be limited. Limitations on the emissions of particulate matter (PM), particulate matter less than or equal to ten (10) micrometers (PM_{10}), sulfur dioxide (SO_2) and oxides of nitrogen (NO_x) are required in order to avoid Prevention of Significant Deterioration regulations. These limitations will limit the increase of each applicable pollutant listed in Rule 62-212.400, Table 212.400-2, Regulated Air Pollutants—Significant Emission Rates, FAC and Rule 2.401, JEPB, to less than significant levels.

The facility is a major source of air pollution for Title V purposes because the potential emissions of regulated air pollutants are greater than 100 tons per year and the facility is a major source of air pollution for Prevention of Significant Deterioration (PSD) purposes because the potential emissions of regulated air pollutants are greater than 250 tons per year pursuant to Chapter 62-210, FAC, and JEPB Rule 2.301. This project is not subject to PSD preconstruction review requirements since the modification would not result in a significant net emissions increase in accordance with Rule 62-212.400(2)(e)2., FAC, and Rule 2.401, JEPB.

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

Emission Unit ID No.	Brief Description
003	Glass melting furnace No. 3

Subsection C. Relevant documents

Air pollution source construction permit application received September 20, 2004
EQD letters requesting additional information dated October 12, 2004, and December 30, 2004
Additional information received on December 2, 2004, and February 10, 2005

Section II. Facility Wide Conditions

Subsection A. General Conditions

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific process and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under conditions of the permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

   Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. A description of and cause of noncompliance; and
   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a

reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, FAC, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:
    ( ) Determination of Best Available Control Technology (BACT)
    ( ) Determination of Prevention of Significant Deterioration (PSD)
    ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
    ( ) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:
    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by this permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
    c. Records of monitoring information shall include:
        1. the date, exact place, and time of sampling or measurements;
        2. the person responsible for performing the sampling or measurements;
        3. the date(s) analyses were performed;
        4. the person responsible for performing the analyses;
        5. the analytical techniques or methods used;
        6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

[Rule 62-4.160, FAC, and Rule 2.1301, Jacksonville Environmental Protection Board (JEPB)]

Subsection B. Specific Conditions

1. Permittee shall notify the Department fifteen (15) days prior to EU testing.
   [Rule 62-297.310(7)(a)(9), FAC, and Rule 2.1101, JEPB]

2. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing. The test report shall provide the percentage of cullet processed during the testing.
   [Rule 62-297.310(8)(b), FAC, Rule 62-297.310(8)(c), FAC and Rule 2.1101, JEPB]

3. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum process weight rate allowed by the permit. If it is impracticable to test at permitted capacity, then the EU may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
   [Rule 62-297.310(2), FAC, and Rule 2.1101, JEPB]

4. Any revision(s) to a permit (and application) shall be submitted to and approved by the Department prior

to implementing.
[Rule 62-4.080(2), FAC, and Rule 2.1301, JEPB]

5. Stack sampling facilities shall comply with the requirements of Rule 62-297.310(6), FAC, and Rule 2.1101, JEPB.

6. Permittee shall submit an annual operation report to the Department for this emission unit(s) on the form(s) supplied for each calendar year on or before March 1.
[Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]

7. The modification shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing sixty (60) days prior to the expiration of the construction permit. A new schedule and request for an extension of the construction permit must be submitted.
[Rule 62-4.080(2), FAC, and Rule 2.1301, JEPB]

8. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for a revision to the Title V Air Operation Permit with compliance records and test results, to the Department as specified in this construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid Title V Air Operation Permit to operate the modified no. 3 glass melting furnace.
[Rule 62-210.300(2), FAC, and Rule 2.301, JEPB]

9. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), FAC, and Rule 2.1001, JEPB]

10. General Particulate Emission Limiting Standards. General Visible Emissions Standard.
Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity) in accordance with Rule 62-296.320(4)(b)1., FAC, and Rule 2.1001, JEPB. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, FAC, and Rule 2.1101, JEPB. Testing shall be required upon request of the Department.

11. Unconfined particulate matter emissions from yard operations, open stock piling of materials and/or materials handling operations shall be controlled by using the following reasonable precautions.

Reduced speed for vehicular traffic.

Use of liquid resinous adhesives or other liquid dust suppressants or wetting agents.

Use of paving or other asphaltic materials.

Removal of particulate matter from paved roads and/or other paved areas by vacuum cleaning or otherwise by wetting prior to sweeping.

Covering of trucks, trailers, front end loaders, and other vehicles or containers to prevent spillage of

particulate matter during transport.

Use of mulch, hydro seeding, grassing, and/or other vegetative ground cover on barren areas to prevent or reduce particulate matter from being windblown.

Use of hoods, fans, filters, and similar equipment to contain, capture, and vent particulate matter.

Enclosures or covering of conveyor systems.

[Rule 62-296.320(4)(c)2., FAC, and Rule 2.1001, JEPB]

12. The permittee shall submit all compliance-related notifications and reports required of this permit to the Department at:

Environmental Resource Management Department
Environmental Quality Division
117 West Duval Street, Suite 225
Jacksonville, FL 32202
Telephone: 904/630-4900
Fax: 904/630-3638

13. The facility shall be subject to City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1. [Final Rules with Respect to Organization, Procedure, and Practice]

14. The facility shall be subject to JEPB Rule 2, Part Nos. I through VII, and Part Nos. IX through XIII.

15. Excess emissions resulting from startup, shutdown, or malfunction of any emission unit shall be permitted, providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period, unless specifically authorized by the Department for longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Permitting Authority in accordance with Rule 62-4.130, FAC and Rule 2.1301, JEPB. A full written report on the malfunctions shall be submitted to the Permitting Authority in a quarterly report, if requested by the Permitting Authority.
[Rule 62-210.700, FAC, and Rule 2.201, JEPB]

Section III. Emission Units and Conditions

Emission Unit 003-Glass Melting Furnace No. 3

Emission Unit Description: An end port regenerative glass melting furnace with a maximum fossil fuel heat input rating of 51.860 X 10^6 Btu per hour. Natural gas is the primary fuel. An alternate fuel is propane. Additional heat may be obtained from an electric boost system with a maximum heat input of 8.6 X 10^6 Btu per hour.

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously, i.e., 8760 hours per year.
[Rule 62-210.300(2)(a), FAC, and Rule 2.301, JEPB]

Emission Limitations and Standards

2. The maximum process weight rate shall be limited to 14.70 tons per hour and 128,772 tons per year of raw materials, cullet, and additives for glass production. The glass pull rate shall be limited to a maximum of 312.26 tons per day (TPD) and 113,976.1 tons per year (TPY).
[62-212.400(4)(g), FAC, and Rule 2.401, JEPB]

3. Fossil fuels which may be fired are natural gas or propane. The maximum heat input from the combustion of fossil fuels shall be limited to 51.86 X 10^6 Btu per hour and 454,293.6 X 10^6 Btu per year (445.39 X 10^6 cubic feet per year of natural gas at a nominal heat content of 1020 Btu per cubic foot). The maximum heat input from the electrical boost system shall be limited to 8.6 X 10^6 Btu per hour and 75,336 X 10^6 Btu per year.
[62-212.400(4)(g), FAC, and Rule 2.401, JEPB]

Particulate Matter (PM) and PM_{10}

4. This emission unit shall be subject to the process weight table (Table 296.320-1) for determining allowable PM emissions. Interpolation of the data in Table 296.320-1, FAC for the process weight rate up to 30 tons per hour shall be accomplished by use of the equation E = 3.59 X P^ $^{0.62}$, where P is less than or equal to 30 tons per hour, E = emissions in pounds per hour and P = process weight rate in tons per hour.

PROCESS WEIGHT TABLE
TABLE 296.320-1

Process Rate (Tons Per Hour)	Emission Rate (Pounds Per Hour)
0.025	0.36
0.050	0.56
0.250	1.52
0.500	2.34
2.500	6.34
5	9.74
10	14.97
30	29.57
40	31.23
60	33.33
80	34.90
100	36.17
200	40.41
500	46.79

The PM rates from the above equation apply to process rates up to and including 10.09 tons per hour. For process rates above 10.09 tons per hour the maximum allowable PM emissions in specific condition no. 5 apply.
[Rule 62-296.320(4)(a), FAC and Rule 2.1001, JEPB]

5. Maximum allowable PM emissions at the maximum permitted process rate (14.7 tons per hour and 128,772 tons per year) shall be limited to 15.05 pounds per hour and 65.90 tons per year, respectively. Maximum allowable PM_{10} emissions at the maximum permitted process rate (14.7 tons per hour and 128,772 tons per year) shall be limited to 14.29 pounds per hour and 62.61 tons per year, respectively. Compliance with the PM limit indicates compliance with the PM_{10} limit.
[Rule 62-296.320(4)(a), FAC, Rule 62-212.400(g)(4), FAC, Rule 2.1001, JEPB, and Rule 2.401, JEPB]

Visible Emissions

6. Visible emissions (VE) shall be limited to less than twenty (20) percent (%) opacity.
[Rule 62-296.320(4)(b), FAC, and Rule 2.1001, JEPB]

Sulfur Dioxide (SO_2)

7. SO_2emissions shall not exceed 44.24 pounds per hour and 193.76 tons per year.
[Rule 62-212.400(g)(4), FAC, and Rule 2.401, JEPB]

Oxides of Nitrogen (NO_x)

8. NO_x emissions shall not exceed 106.26 pounds per hour and 465.43 tons per year.
[Rule 62-212.400(g)(4), FAC, and Rule 2.401, JEPB]

Test Methods and Procedures

9. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 5 (as described in 40 CFR 60, Appendix A) for the determination of the PM emissions rate.
[Rule 62-296.320(4)(a)3., FAC, and Rule 2.1001, JEPB]

10. Testing for demonstration of compliance shall be performed in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b), FAC, and Rule 2.1001, JEPB]

11. Testing for demonstration of compliance shall be performed in accordance with EPA RM 6 or 6C (as described in 40 CFR 60, Appendix A) for the determination of sulfur dioxide emissions.
[Rule 62-4.070(3), FAC and Rule 2.1301, JEPB]

12. Testing for demonstration of compliance shall be performed in accordance with EPA RM 7 or 7A (as described in 40 CFR 60, Appendix A) for the oxides of nitrogen emissions.
[Rule 62-4.070(3), FAC and Rule 2.1301, JEPB]

13. Initial PM and VE compliance testing on the furnace shall be conducted within 120 days of the completion of modification of the electrical boost equipment. Compliance testing shall be conducted while processing the minimum percentage of cullet used during normal operations.
[Rule 62-212.400(g)(4), FAC, Rule 62-297.310(7)(a)1., FAC, Rule 2.401, JEPB, and Rule 2.1101, JEPB]

14. Initial SO_2 and NO_x compliance testing on the furnace shall be conducted within 120 days of the completion of modification of the electrical boost equipment. Compliance testing shall be conducted while processing the minimum percentage of cullet used during normal operations.
[Rule 62-212.400(g)(4), FAC, Rule 62-297.310(7)(a)1, FAC, Rule 2.401, JEPB, and Rule 2.1101, JEPB]

Record-keeping and Reporting Requirements

15. In order to provide reasonable assurance that applicable PSD significant levels are not exceeded with the modification and operation of glass melting furnace No. 3, restrictions have been placed on the following parameters:

    a. Process weight rate (including the percentage of cullet processed)

    b. Glass pull rate

    c. Fuel firing rate

    d. Heat input from the electrical boost system

    e. PM, PM_{10}, sulfur dioxide, and oxides of nitrogen emissions

    These restrictions are in the Emission Limitations specific conditions listed above.

    The permittee shall maintain records of item a. on an hourly basis, and of items b., c., and d. above on a daily basis including the type of fuel used (natural gas or propane). This information shall be recorded and summarized in a daily log. Owners or operators shall maintain these records for a minimum period of five (5) years.
[Rule 62-212.400(g)(4), FAC, Rule 62-4.070(3), FAC, Rule 2.401, JEPB, and Rule 2.1301, JEPB]

16. Quarterly reports of the information required by Section III, Specific Condition No. 15 a., b., c., and d., shall be submitted to the Department. These reports are due by the end of the month following completion of each calendar quarter (i.e.: JAN-MAR, APR-JUN, JUL-SEP, and OCT-DEC).
[Rule 62-212.400(g)(4), FAC, Rule 62-4.070(3), FAC, Rule 62-213.440(1)(b), FAC, Rule 2.501, JEPB, Rule 2.401, JEPB, and Rule 2.1301, JEPB]

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to S.120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

_____ _____
Clerk Date