ANCHOR GLASS CONTAINER CORPORATION
JACKSONVILLE PLANT 07

Facility ID No.: 0310005
DUVAL COUNTY

Title V Air Operation Permit Renewal
FINAL PERMIT No.: 0310005-006-AV

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

FINAL Permit No.: 0310005-006-AV

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Permittee:
Anchor Glass Container Corporation
2121 Huron St.
Jacksonville, FL 32254

FINAL Permit No.: 0310005-006-AV
Facility ID No.: 0310005
SIC No.: 32
Project: Title V Air Operation Permit Renewal

This permit renewal is for the purpose of renewing Title V Air Operation Permit No. 0310005-005-AV and incorporating the terms and conditions of Air Construction Permit No. 0310005-008-AC, for EU No. 003 (Glass Melting Furnace No. 3), into the Title V Air Operation Permit for the Anchor Glass Container Corporation, Jacksonville Plant 07. This facility is located at 2121 Huron Street, Jacksonville, Duval County, FL.; UTM Coordinates: Zone 17, 431.500 km East and 3357.500 km North; Latitude: 30° 20′ 57″ North and Longitude: 81° 42′ 53″ West.

This Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC), Chapters 62-4, 62-210, and 62-213, and Jacksonville Environmental Protection Board (JEPB) Rules 2.1301, 2.301, and 2.501. The above named permittee is hereby authorized to operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:
Appendix I-1, List of Insignificant Emission Units and/or Activities
Appendix U-1, List of Unregulated Emission Units
APPENDIX TV-6, TITLE V CONDITIONS
APPENDIX SS-1, STACK SAMPLING FACILITIES

Effective Date: **September 9, 2007**
Renewal Application Due Date: **March 1, 2012**
Expiration Date: **August 31, 2012**

Environmental Resource Management Department
Environmental Quality Division

_____
Ebenezer Gujjarlapudi, P.E.
Director

EG/JW

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Section I. Facility Information

Subsection A. Facility Description

Anchor Glass Container facility manufactures various types and colors of container glass primarily for the food and beverage industry. The facility consists of a raw material batching operation, two glass melting furnaces and six glass container forming and finishing lines. The raw material batching operation consists of three operations including raw material delivery by truck and rail, raw material transfer by bucket elevator and storage in separate storage silos. Raw material mixing consists of mixing and precisely weighing raw materials prior to feed into the glass melting furnaces.

The glass furnaces are precisely fed the raw material mix for continuous melting. The furnaces are fired by natural gas, propane fuel, and electric boost. After melting, the glass is cooled to forming temperatures in the refiner, alcoves, and forehearths. The glass melting furnaces are the only regulated emission units at the facility. They are each subject to the process weight table listed in Rule 62-296.320 FAC, and Rule 2.1101, JEPB. Additional emission limitations, throughput limitations, and production limitations have been placed into the permit to avoid Prevention of Significant Deterioration (PSD) applicability requirements as indicated in Air Construction permit no. 0310005-008-AC.

Glass forming consists of shearing mechanisms by which the molten glass is cut into precise increments of hot, viscous glass called gobs, which are gravity fed to the forming machines. The forming machines shape the glass through mechanical and air blowing processes into containers at the rate of hundreds per minute.

Hot end container coating consists of a vapor deposition hood, which is where a tin based coating is applied to the containers prior to the cold end coating process.

Containers are belt conveyed to the glass annealing lehrs, where residual stresses induced during glass container forming are removed prior to container cooling.

Cold End Container Coating allows the containers to pass through a fog-coating hood which applies a food-grade material for surface lubricity to aid in subsequent handling. A spray coater applies a polyethylene coating afterwards as a scratch preventative.

A video-jet printing system puts identifying numbers on selected containers and cartons as required by customers.

In the packaging area containers are placed into cardboard boxes or onto pallets for bulk handling and shipping.

The facility is a major source of air pollution because the potential emissions of regulated pollutants are greater than 100 tons per year.

Based upon the initial Title V permit application received on June 17, 1996, the revised Title V permit application received on December 20, 2001, and the renewal Title V permit application received on October 31, 2003, this facility is not a major source of hazardous air pollutants (HAPs).

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

EU ID No.	Brief Description
003	Glass Melting Furnace No. 3
004	Glass Melting Furnace No. 4

Note: Please reference the Permit No., Facility ID No., and appropriate Emission Unit ID No(s)., on all correspondence, test report submittal, applications, etc.

Subsection C. Relevant Documents

The documents listed below are not a part of this permit, however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements
Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History
Appendix LR-1, Local Rule Index
Statement of Basis

These documents are on file with the permitting authority:

Renewal Title V Permit Application received October 31, 2003
Request for additional information dated December 23, 2003
Anchor Glass Container Corporation request for additional time to respond, letter dated March 19, 2004
Anchor Glass Container Corporation additional information dated May 21, 2004
Air Construction Permit No. 0310005-008-AC
Compliance testing results received March 29, 2007

Section II. Facility Wide Conditions

The following conditions apply facility-wide:

1. Appendix TV-6, Title V Conditions, is a part of this permit. It is noted that Appendix TV-6, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided one copy when requested or otherwise appropriate.

2. Prevention of Accidental Releases (Section 112(r) of CAA).
   a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 1515
Lanham-Seabrook, MD 20703-1515
Telephone: (301) 429-5018

and,

   b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), FAC.

[40 CFR 68]

3. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload, or use in any installation, VOC or OS without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), FAC, and Rule 2.1001, JEPB]

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

5. Copies of the test report(s) shall be filed with the Department within forty-five (45) days of completion of testing.
[Rule 62-297.310(8)(b), FAC, and Rule 2.1101, JEPB]

6. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then the EU(s) 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]

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

8. Permittee shall submit an annual operation report to the Department for this (these) 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]

9. Unregulated Emission Units and/or Activities Appendix U-1 List of Unregulated Emission Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), FAC, and Rule 2.501, JEPB]

10. Control equipment shall be provided with a method of access that is safe and readily accessible.
[Rule 62-297.310(6), FAC, and Rule 2.1101, JEPB]

11. When appropriate, any recording, monitoring or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.
[Rule 62-213.440, FAC and Rule 2.501, JEPB]

12. The **Annual Statement of Compliance** pursuant to Rule 62-213.440(3)(a)2., FAC and Rule 2.501, JEPB shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), FAC.
[Rules 62-213.440(3), 62-213.900, FAC and Rule 2.501, JEPB]

    It is noted that this condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., FAC, and Rule 2.501, JEPB (see Condition 51. of APPENDIX TV-6, TITLE V CONDITIONS).

13. 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]

14. The permittee shall submit all compliance related notifications and reports required of this permit to:

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

15. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch, Air Enforcement Section
61 Forsyth Street
Atlanta, GA 30303
Telephone: 404/562-9155
Fax: 404/562-9163

16. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), FAC, any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, FAC, shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.
[Rule 62-213.420(4), FAC and Rule 2.501, JEPB]

17. 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.
18. The permittee shall submit reports of any required monitoring at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports. The permittee shall report in accordance with the requirements of Rule 62-210.700(6), FAC, Rule 62-

4.130, FAC, Rule 2.201, JEPB, and Rule 2.1301, JEPB, deviations from permit requirements, including those attributable to upset conditions as defined in the permit. Reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All reports shall be accompanied by a certification by a responsible official, pursuant to Rule 62-213.420(4), FAC, and Rule 2.501, JEPB. Unless otherwise specified in **a permit, rule, or order;** reports shall cover the period of January through June (report due on or before September 1) and July through December (report due on or before March 1).
[Rule 62-213.440(1)(b)3., FAC, and Rule 2.501, JEPB]

The following Facility-wide conditions are not federally enforceable

19. 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]

20. The facility shall be subject to the 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].

Section III. Emissions Unit(s) and Conditions

Emission Unit 003-Glass Melting Furnace No. 3

Emission Unit Description: An end port regenerative glass melting furnace fired by natural gas or propane. Additional heat may be obtained from an electric boost 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 (2500 KVA) 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. Allowable PM emissions shall be determined by use of the equation $E = 3.59 \times P^{0.62}$, where P is less than or equal to 10.09 tons per hour, E = emissions in pounds per hour and P = process weight rate in tons per hour. For process weight rates in excess of 10.09 tons per hour the maximum allowable PM emissions shall not exceed 15.05 pounds per hour. PM emissions shall not exceed 65.90 tons per year.
[Rule 62-296.320(4)(a), FAC, Rule 62-212.400(g)(4), FAC, Rule 2.1001, JEPB, and Rule 2.401, JEPB]

5. Maximum allowable PM_{10} emissions shall not exceed 14.29 pounds per hour and 62.61 tons per year. 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_2 emissions 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]

<u>Test Methods and Procedures</u>

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, 7A, or 7E (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. PM testing and VE testing shall be conducted concurrently and annually from the date of November 1, 2006. VE testing shall be conducted for a minimum period of 30 minutes. PM testing minimum sample volume shall be 25 dry standard cubic feet per run. 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. SO_2 and NO_x compliance testing on the furnace shall be conducted 225 days prior to the expiration date of the permit. 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 items a., b., c., and d. above on a daily basis including the type of fuel used (natural gas or propane). The process weight rate shall be calculated and recorded **hourly** during periods when stack testing is being conducted. 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. The owner or operator shall submit the records, required by Specific Condition (SC) No. 15. above, to the Department every six (6) months within 31 days from the end of each six month period (i.e.: on or before July 31 for the period of January 1 through June 30 and on or before January 31 for the period of July 1 through December 31). Note: Records may be submitted electronically.
[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]

Emission Unit 004-Glass Melting Furnace No. 4

Emission Unit Description: An end port regenerative glass melting furnace fired by natural gas or propane. Additional heat may be obtained from an electric boost with a maximum heat input of 7.0 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 heat input from natural gas or propane shall be limited to 54.60 X 10^6 Btu per hour. The maximum heat input the electric boost shall be limited to 7.0 X 10^6 Btu per hour.
[Rule 62-210.200, FAC, and Rule 2.301, JEPB]

3. The maximum process weight rate shall be limited to 13.73 tons per hour of raw materials, cullet, and additives for glass production. The glass pull rate shall be limited to a maximum of 280 tons per day (TPD) and 102,200 tons per year (TPY).
[Permits 0310005-004-AC and 0310005-007-AC]

4. Allowable PM emissions shall be determined by use of the equation $E = 3.59 \times P^{0.62}$, where E = emissions in pounds per hour and P = process weight rate in tons per hour.
[Rule 62-296.320(4)(a), FAC and Rule 2.1001, JEPB]

5. Maximum allowable PM emissions at the maximum permitted process rate (13.73 tons per hour) shall be limited to 18.22 pounds per hour and 79.72 tons per year.
[As requested by applicant, Rule 62-296.320(4)(a), FAC and Rule 2.1001, JEPB]

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]

Test Methods and Procedures

7. 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]

8. 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]

9. PM testing and VE testing shall be conducted concurrently and annually from the date of November 1, 2006. VE testing shall be conducted for a minimum period of 30 minutes. PM testing minimum sample volume shall be 25 dry standard cubic feet per run.
[Rule 62-297.310(4), FAC, and Rule 2.1101, JEPB]

Record-keeping Requirements

10. The process weight rate shall be calculated and recorded daily and the glass pull rate shall be recorded daily. Owners or operators shall maintain these records for a minimum period of five (5) years. Note: The process weight rate shall be calculated and recorded **hourly** during periods when stack testing is being conducted.
    [Rule 62-213.440(1)(b)2.b., FAC, and Rule 2.501, JEPB]

11. The permittee shall maintain records of the quantity and type of fuel used at glass furnace No. 4 (including electric boost) on a monthly basis. The quantity and type of fuel used shall be recorded and summarized in a log.
    [Rule 62-213.440(1)(b)2.b., FAC, and Rule 2.501, JEPB]

Reporting Requirements

12. The owner or operator shall submit the records, required by Specific Condition (SC) Nos. 10. and 11. above, to the Department every six (6) months within 31 days from the end of each six month period (i.e.: on or before July 31 for the period of January 1 through June 30 and on or before January 31 for the period of July 1 through December 31). Note: Records may be submitted electronically.
    [Rule 62-213.440(1)(b)3.a., FAC, and Rule 2.501, JEPB]

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