

# OPERATING AIR PERMIT

Pursuant to the Regulations of the Arkansas Operating Air Permit Program, Regulation #26:

Permit #: 1440-AOP-R1

IS ISSUED TO:

Arkansas Glass Container Corporation  
516 West Johnson  
Jonesboro, AR 72403  
Craighead County  
CSN: 16-0061

THIS PERMIT AUTHORIZES THE ABOVE REFERENCED PERMITTEE TO INSTALL, OPERATE, AND MAINTAIN THE EQUIPMENT AND EMISSION UNITS DESCRIBED IN THE PERMIT APPLICATION AND ON THE FOLLOWING PAGES. THIS PERMIT IS VALID BETWEEN:

June 25, 1998

and

June 24, 2003

AND IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:

\_\_\_\_\_  
Keith A. Michaels

\_\_\_\_\_  
Date Modified

## SECTION I: FACILITY INFORMATION

PERMITTEE: Arkansas Glass Container Corporation  
CSN: 16-0061  
PERMIT NUMBER: 1440-AOP-R1

FACILITY ADDRESS: 516 West Johnson  
Jonesboro, Arkansas 72403

COUNTY: Craighead

CONTACT POSITION: Glen Moring  
TELEPHONE NUMBER: (870) 932-4564

REVIEWING ENGINEER: Lyndon Poole

UTM North-South (Y): 3969  
UTM East-West (X): 707

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## **SECTION II: INTRODUCTION**

Arkansas Glass Container Corporation owns and operates a glass container manufacturing facility in Jonesboro, Arkansas (Craighead County). The facility first began operation in 1949 as the McSwain Glass Company. Current ownership was established in January of 1986.

### **Summary of Permit Activity**

The purpose of this modification is to:

- Identify existing emission points previously omitted from the air permit.
- Update emission calculation methods for baghouse-controlled sources and the forming machines.
- Update the insignificant activities list.
- Acknowledge the addition of electric boost systems in the glass melting furnaces (previously approved by the Department in October 1999).
- Incorporate a slightly higher VOC limit for the glass furnaces, due to stack testing conducted in July 1999 (this increase was not due to any modification of the furnaces).

### **Process Description**

The raw materials used for making glass are stored in silos. Particulate emissions from the feldspar/nephelene silo (SN-04A), the soda ash silo (SN-04B), and the cullet silo (SN-04C) are controlled with fabric socks on top of the silos. Particulate emissions from the sand silo (SN-04D) and the limestone silo (SN-04E) are controlled with baghouses. The discharges from the silos are controlled with a baghouse (SN-04F). The railcar unloading operation is also controlled with a baghouse (SN-08).

The raw materials are mixed and conveyed to one of two glass melting furnaces (SN-01 and SN-03), where molten glass is produced. Natural gas burners provide the energy needed to melt the raw materials. Electrical boost systems help equalize the temperature in the flow of liquid glass in order to improve the quality of the finished glass. The electrical boost system is essentially a series of heating coils placed in the flow of liquid glass. No emissions are associated with the electrical boost systems.

The molten glass is carried through distribution channels (alcoves) to the forehearths. Natural gas-fired burners inside the alcoves provide heat to keep the glass molten. The molten glass is then shaped into containers in the forming machines (SN-09). VOC emissions from the forming machines occur due to the flash vaporization of the lubricant used on the molds. The still hot

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formed containers proceed to the annealing lehrs for controlled cooling. The annealing lehrs are also heated with natural gas burners. All of the natural gas combustion sources associated with the alcoves, forehearths, and annealing lehrs, the heated caustic tanks, and the oil/water separator dehydrators are grouped together as SN-05.

The finished glass is then inspected, packaged, and shipped to customers. Defective glass containers are returned to the furnaces for remelting.

### **Regulations**

Operations at this facility are subject to regulation under the *Clean Air Act* as amended, the *Arkansas Water and Air Pollution Control Act*, the *Arkansas Air Pollution Control Code* (Regulation 18), the *Regulations of the Arkansas Plan of Implementation for Air Pollution Control* (Regulation 19), and the *Regulations of the Arkansas Operating Air Permit Program* (Regulation 26). The facility is also classified a major stationary source as defined by 40 CFR Part 52.21, *Prevention of Significant Deterioration of Air Quality* (PSD).

The *Standards of Performance for Glass Manufacturing Plants* (40 CFR Part 60, Subpart CC) are not applicable to the glass melting furnaces at this facility. The work performed on these sources since the applicability date of the standards (June 15, 1979) is exempt from the requirements, because rebricking of furnace structures is expressly excluded from the regulation's definition of reconstruction (60.292(c)).

### **Emission Summary**

The following table is a summary of emissions from the facility. Specific conditions and emissions for each source can be found starting on the page cross referenced in the table. This table, in itself, is not an enforceable condition of the permit.

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EMISSION SUMMARY					
Source No.	Description	Pollutant	Emission Rates		Cross Reference Page
			lb/hr	tpy	
Total Allowable Emissions		PM	35.7	126.2	-
		PM <sub>10</sub>	35.7	126.2	
		SO <sub>2</sub>	17.3	63.3	
		VOC	27.1	94.0	
		CO	3.4	12.6	
		NO <sub>x</sub>	177.4	653.1	
SN-01 (01A, 01B, 01C)	Glass Melting Furnace A	PM	14.6	106.9	15
		PM <sub>10</sub>	14.6	106.9	
		SO <sub>2</sub>	8.6	63.1	
		VOC	5.9	42.8	
		CO	1.2	8.6	
		NO <sub>x</sub>	86.5	634.0	
SN-02	Source removed.				
SN-03 (03A, 03B, 03C)	Glass Melting Furnace C	PM	14.6	Emission bubble-- combined with SN-01.	15
		PM <sub>10</sub>	14.6		
		SO <sub>2</sub>	8.6		
		VOC	5.9		
		CO	1.2		
		NO <sub>x</sub>	86.5		
SN-04A	Feldspar/Nepheline Storage Silo with Fabric Sock	PM	0.7	0.1	10
		PM <sub>10</sub>	0.7	0.1	
SN-04B	Soda Ash Storage Silo with Fabric Sock	PM	0.7	0.4	10
		PM <sub>10</sub>	0.7	0.4	
SN-04C	Cullet Silo with Fabric Sock	PM	0.7	0.7	10
		PM <sub>10</sub>	0.7	0.7	

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EMISSION SUMMARY					
Source No.	Description	Pollutant	Emission Rates		Cross Reference Page
			lb/hr	tpy	
SN-04D	Sand Silo with Baghouse	PM PM <sub>10</sub>	0.3 0.3	1.0 1.0	10
SN-04E	Limestone Silo with Baghouse	PM PM <sub>10</sub>	0.3 0.3	1.0 1.0	10
SN-04F	Storage Silos Discharge with Baghouse	PM PM <sub>10</sub>	2.1 2.1	9.2 9.2	10
SN-05	Miscellaneous Natural Gas Combustion Sources	PM PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>x</sub>	0.6 0.6 0.1 0.3 1.0 4.4	2.3 2.3 0.2 1.2 4.0 19.1	19
SN-06A	Refractory Shaker Screen (fugitive)	Moved to Insignificant Activity List.			
SN-06B	Cullet Hammer Mill	Removed from service.			
SN-07A	Gasoline Storage Tank (fugitive)	Moved to Insignificant Activity List.			
SN-07B	Diesel Storage Tank (fugitive)	Moved to Insignificant Activity List.			
SN-07C	Kerosene Storage Tank (fugitive)	Removed from service.			
SN-08	Railcar Unloading Baghouse	PM PM <sub>10</sub>	1.1 1.1	4.6 4.6	13

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EMISSION SUMMARY					
Source No.	Description	Pollutant	Emission Rates		Cross Reference Page
			lb/hr	tpy	
SN-09	Forming Machines	VOC	15.0	50.0	21

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### **SECTION III: PERMIT HISTORY**

Air Permit 1440-A was issued to Arkansas Glass Container Corporation on February 26, 1993. This was the first air permit issued to the facility. Permitted sources included three glass melting furnaces (SN-01, SN-02, SN-03) and a fabric dust collection system (SN-04).

Due to permitted nitrogen oxides emissions of 615.8 tons per year, Air Permit 1440-A classified the facility as a major source under the regulations of 40 CFR Part 52.21 (*Prevention of Significant Deterioration*).

Air Permit 1440-AOP-R0 was issued on June 25, 1998. This permit was issued in order to fulfill the requirements of Arkansas Regulation 26 and Title V of the Clean Air Act. This permitting action identified and quantified pre-existing emission sources not covered by the previous permit, authorized an annual production increase of 5200 tons of glass per year, acknowledged the removal of the middle glass furnace (SN-02), and recognized the identification of a higher daily production capacity for the two remaining glass furnaces (SN-01 and SN-03).



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**SECTION IV: EMISSION UNIT INFORMATION**

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**Raw Material Storage**

**(SN-04A, SN-04B, SN-04C, SN-04D, SN-04E, SN-04F)**

Source Description

High-silica sand, limestone, feldspar, and soda ash are the major raw materials used at the facility in the process of manufacturing glass. These materials are received in bulk by way of truck and railcar. They are off-loaded into storage silos, with one silo assigned to each material. Particulate emissions from the feldspar/nephelene silo (SN-04A), the soda ash silo (SN-04B), and the cullet silo (SN-04C) are controlled with fabric socks on top of the silos. Particulate emissions from the sand silo (SN-04D) and the limestone silo (SN-04E) are controlled with baghouses. The discharges from the silos are controlled with a baghouse (SN-04F).

Emission rates for raw material storage activities were calculated using an EPA AP-42 emission factor for cement unloading into a storage silo (no specific factor for glass raw material unloading was available). Pound per hour emissions were calculated based upon maximum equipment capacity. Ton per year emissions are limited by Specific Condition 4, except for sand and limestone generated emissions. Annual emissions from sand and limestone were calculated assuming year-round operation.

Specific Conditions

1. Pursuant to §19.501 et seq of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) effective February 15, 1999 and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
SN-04A	Feldspar/Nepheline Storage Silo with Fabric Sock	PM <sub>10</sub>	0.7	0.1
SN-04B	Soda Ash Storage Silo with Fabric Sock	PM <sub>10</sub>	0.7	0.4
SN-04C	Cullet Silo with Fabric Sock	PM <sub>10</sub>	0.7	0.7

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SN-#	Description	Pollutant	lb/hr	ton/yr
SN-04D	Sand Silo with Baghouse	PM <sub>10</sub>	0.3	1.0
SN-04E	Limestone Silo with Baghouse	PM <sub>10</sub>	0.3	1.0
SN-04F	Storage Silos Discharge with Baghouse	PM <sub>10</sub>	2.1	9.2

2. Pursuant to §18.801 of the Arkansas Air Pollution Control Code (Regulation #18) effective February 15, 1999, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
SN-04A	Feldspar/Nepheline Storage Silo with Fabric Sock	PM	0.7	0.1
SN-04B	Soda Ash Storage Silo with Fabric Sock	PM	0.7	0.4
SN-04C	Cullet Silo with Fabric Sock	PM	0.7	0.7
SN-04D	Sand Silo with Baghouse	PM	0.3	1.0
SN-04E	Limestone Silo with Baghouse	PM	0.3	1.0
SN-04F	Storage Silos Discharge with Baghouse	PM	2.1	9.2

3. Pursuant to §18.501 of the Arkansas Air Pollution Control Code (Regulation 18) and A.C.A §8-4-203 as referenced by §8-4-304 and §8-4-311, the following sources shall not exceed 5% opacity: SN-04D, SN-04E, and SN-04F. The following sources shall not exceed 10% opacity: SN-04A, SN-04B, SN-04C. Requirements for opacity compliance demonstration are outlined in Plantwide Condition 7.
4. Pursuant to §19.705 of the Regulations of the Arkansas Plan of Implementation for Air

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Pollution Control (Regulation #19) A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 70.6, annual throughput for the bulk storage silos is limited to the following:

<b>Raw Material</b>	<b>Annual Limit (ton/yr)</b>
Feldspar/Nepheline	5,400
Soda Ash	24,000
Cullet	46,000

Compliance with this condition shall be based upon a 12-month rolling total, and verified by monthly records of the raw materials. The records shall be kept on site, made available to Department personnel upon request, and shall be included in the semi-annual report as outlined in General Provision 7.

5. Pursuant to §19.303 of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19) and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, all fabric filter control equipment (baghouses and socks) shall be operated in accordance with manufacturer's specifications.

Unless prompted by visible emission monitoring events, routine inspections of all control equipment shall be performed no less than once per month. Records of inspection and maintenance of equipment components shall be maintained in a log, and updated as performed. A copy of the specification sheet and maintenance log for each filter shall be kept on site and made available to Department personnel upon request.

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### Railcar Unloading Baghouse

(SN-08)

#### Source Description

Raw materials for the glass manufacturing processes are received and unloaded by railcar. The particulate emissions from railcar unloading activities are controlled by a baghouse (SN-08).

Pound per hour emissions were calculated for this baghouse based upon maximum equipment capacity. Annual emissions were calculated assuming year-round operation.

#### Specific Conditions

6. Pursuant to §19.501 et seq of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
08	Railcar Unloading Baghouse	PM <sub>10</sub>	1.1	4.6

7. Pursuant to §18.801 of the Arkansas Air Pollution Control Code (Regulation #18) and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
08	Railcar Unloading Baghouse	PM	1.1	4.6

8. Pursuant to §18.5 of the Arkansas Air Pollution Control Code (Regulation 18) and 40 CFR Part 52, Subpart E, the following source shall not exceed 5% opacity: SN-08. Requirements for opacity compliance demonstration are outlined in Plantwide Condition 7.

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9. Pursuant to §19.303 of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19) and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, all fabric filter control equipment (baghouses and socks) shall be operated in accordance with manufacturer's specifications.

Unless prompted by visible emission monitoring events, routine inspections of all control equipment shall be performed no less than once per month. Records of inspection and maintenance of equipment components shall be maintained in a log, and updated as performed. A copy of the specification sheet and maintenance log for each filter shall be kept on site and made available to Department personnel upon request.

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## **Glass Melting Furnaces**

**(SN-01, SN-03)**

### Source Description

The pre-mixed raw materials are loaded into the glass melting furnaces by means of a ram feeder system. Once inside the furnaces, the material heats up quickly in a 2730°F environment. The glass furnaces use a twin bed regenerative burner system. In this scenario, while one burner is in operation, its twin on the opposite side provides an outlet for the exhaust gases. The exhaust gases pass through a bed of refractory rock, which cools the gases and then preheats the incoming combustion air as it passes through the rock bed. This cycle is systematically reversed every few seconds by the automatic burner control system. The hot combustion air is mixed with natural gas and combusted in the burner zone above the bed of molten glass. Electrical boost systems help equalize the temperature in the flow of liquid glass in order to improve the quality of the finished glass. The electrical boost system is essentially a series of heating coils placed in the flow of liquid glass. No emissions are associated with the electrical boost systems.

Exhaust gases pass through the beds and are then vented to the atmosphere. Automatic temperature controllers regulate the percentage of exhaust gases passing through the regenerative beds.

Each of the two glass melting furnaces has three vents, designated as SN-01A, SN-01B, and SN-01C for SN-01, and SN-03A, SN-03B, and SN-03C for SN-03. The larger diameter stacks (48") are designated "B" and "C," and handle 40% of the exhaust volume each. The smaller stacks (16") are labeled "A," and carry 20% of the exhaust volume at each furnace.

The rated capacity of each furnace is 140 tons per day. Typical emissions from the glass furnaces include oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and small amounts of particulate matter (PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOCs). These emissions are the byproducts resulting from the combustion of natural gas and the volatilization of impurities in the raw materials.

Permitted emission rates for the glass furnaces have been calculated using stack test data and emission factors from the EPA AP-42 and the Handbook of Glass Manufacture. Pound per hour emissions were calculated based upon maximum equipment capacity. Ton per year emissions are limited by Specific Condition 13.



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Specific Conditions

10. Pursuant to §19.501 et seq of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
01	"A" Glass Melting Furnace	PM <sub>10</sub>	14.6	106.9
		SO <sub>2</sub>	8.6	63.1
		VOC	5.9	42.8
		CO	1.2	8.6
		NO <sub>x</sub>	86.5	634.0
03	"C" Glass Melting Furnace	PM <sub>10</sub>	14.6	Emission bubble--combined with SN-01.
		SO <sub>2</sub>	8.6	
		VOC	5.9	
		CO	1.2	
		NO <sub>x</sub>	86.5	

11. Pursuant to §18.801 of the Arkansas Air Pollution Control Code (Regulation #18) and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
01	"A" Glass Melting Furnace	PM	14.6	106.9
03	"C" Glass Melting Furnace	PM	14.6	Emission bubble--combined with SN-01.

12. Pursuant to §19.503 of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) and 40 CFR Part 52, Subpart E, the following sources shall not exceed 20% opacity: SN-01, SN-03. Requirements for opacity compliance demonstration are outlined in Plantwide Condition 7.

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13. Pursuant to §19.705 of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 70.6, combined raw material throughput for the glass furnaces (SN-01, SN-03) shall not exceed 280 tons per day or 85,500 tons per year (both furnaces). The annual throughput limit shall be based upon a 12-month rolling total.
14. Pursuant to §19.705 of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19) and 40 CFR Part 52 Subpart E, the permittee shall keep a production log of total raw material throughput for the furnaces. The log shall be updated daily, totaled monthly, kept on site, and made available to Department personnel upon request. Monthly summaries of the throughput log shall be included in the semi-annual report as outlined in General Provision 7.
15. Pursuant to §19.705 of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 70.6, pipeline quality natural gas shall be the only fuel used for combustion at SN-01 and SN-03.
16. Pursuant to §19.702 of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19) and 40 CFR Part 52 Subpart E, the permittee shall conduct stack testing on SN-01 in accordance with the following parameters:

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Item	Description										
Test Schedule	Within 180 days of permit issuance, and annually thereafter.										
Pollutants	Total Particulate, SO <sub>2</sub> , VOC, CO, NO <sub>x</sub> .										
Throughput	Within 10% of maximum capacity.										
EPA Reference Method	<table> <tr> <td>Total Particulate</td> <td>5</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>6C</td> </tr> <tr> <td>VOC</td> <td>25A</td> </tr> <tr> <td>CO</td> <td>10</td> </tr> <tr> <td>NO<sub>x</sub></td> <td>7E</td> </tr> </table>	Total Particulate	5	SO <sub>2</sub>	6C	VOC	25A	CO	10	NO <sub>x</sub>	7E
Total Particulate	5										
SO <sub>2</sub>	6C										
VOC	25A										
CO	10										
NO <sub>x</sub>	7E										

Sampling for each pollutant specified shall be conducted simultaneously at all three vents for each furnace, unless an alternative technique is approved by the Department prior to testing. Each test shall be coordinated in advance with the Compliance Inspector Supervisor, in accordance with Plantwide Condition 3.

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**Miscellaneous Natural Gas Combustion Sources**  
**(SN-05)**

Arkansas Glass operates various natural gas combustion sources throughout the plant to facilitate the required heating of molten glass and other raw materials. The sources are summarized as follows:

Equipment	Total Rating (Btu/hr)
Caustic Cleaning Tanks (3 burners @ 150,000 Btu/hr each. 2 at East Tank, 1 at West Tank.	450,000
Forehearth 1 (96 burners @ 16,000 Btu/hr each)	1,536,000
Forehearth 2 (96 burners @ 16,000 Btu/hr each)	1,536,000
Forehearth 3 (96 burners @ 16,000 Btu/hr each)	1,536,000
Forehearth 4 (96 burners @ 16,000 Btu/hr each)	1,536,000
Forehearth 5 (104 burners @ 16,000 Btu/hr each)	1,664,000
Forehearth 6 (96 burners @ 16,000 Btu/hr each)	1,536,000
Forehearth 7 (108 burners @ 16,000 Btu/hr each)	1,728,000
Forehearth 8 (104 burners @ 16,000 Btu/hr each)	1,664,000
Alcove Drain (64 burners @ 16,000 Btu/hr each)	1,024,000
Annealing Lehr 2 (22 burners @ 35,000 Btu/hr each, 8 burners @ 50,000 Btu/hr each)	1,170,000
Annealing Lehr 3 (8 burners @ 305,000 Btu/hr each)	2,440,000
Annealing Lehr 4 (8 burners @ 305,000 Btu/hr each)	2,440,000
Annealing Lehr 5 (8 burners @ 305,000 Btu/hr each)	2,440,000
Annealing Lehr 6 (8 burners @ 305,000 Btu/hr each)	2,440,000
Annealing Lehr 7 (24 burners @ 35,000 Btu/hr each, 8 burners @ 30,000 each)	1,080,000
Annealing Lehr 8 (24 burners @ 35,000 Btu/hr each, 2 burners @ 540,000 each)	1,920,000
Alcoves (26 burners @ 500,000 Btu/hr each, 1 @ 1,000,000 Btu/hr each, 72 @ 16,000 Btu/hr each)	15,152,000
Dehydrators (1 burner @ 80,000 Btu/hr, 1 burner @ 85,000 Btu/hr)	165,000
<b>TOTAL Btu/hr</b>	<b>43,457,000</b>

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Emissions for the combined natural gas combustion sources have been calculated at maximum heat input capacity and year-round operation.

Specific Conditions

17. Pursuant to §19.501 et seq of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
05	Miscellaneous Natural Gas Combustion Sources	PM <sub>10</sub>	0.6	2.3
		SO <sub>2</sub>	0.1	0.2
		VOC	0.3	1.2
		CO	1.0	4.0
		NO <sub>x</sub>	4.4	19.1

18. Pursuant to §18.801 of the Arkansas Air Pollution Control Code (Regulation #18) and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
05	Miscellaneous Natural Gas Combustion Sources	PM	0.6	2.3

19. Pursuant to §18.501 of the Arkansas Air Pollution Control Code (Regulation 18) and A.C.A §8-4-203 as referenced by §8-4-304 and §8-4-311, the combustion units designated as SN-05 shall not exceed 5% opacity.
20. Pursuant to §19.705 of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 70.6, pipeline quality natural gas shall be the only fuel used for combustion at the units designated as SN-05.

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**Forming Machine**  
**(SN-09)**

Molten glass gob is cut from the forehearth channels and fed into the forming machine, where the container is pressed in blank molds. The majority of emissions from the forming process are generated from the glass gob coming into contact with the machine lubricant. These emissions are vented to the atmosphere through openings in the production building, and have been calculated using an assumption of total evaporation and historical usage data..

**Specific Conditions**

21. Pursuant to §19.501 et seq of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) and 40 CFR Part 52, Subpart E, the permittee shall not exceed the emission rates set forth in the following table.

SN-#	Description	Pollutant	lb/hr	ton/yr
09	Forming Machine	VOC	15.0	50.0

22. Pursuant to §19.705 of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control (Regulation #19) A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 70.6, the permittee shall not exceed 100,000 lb/yr of lubricant usage at the Forming Machine (SN-09). This limit shall be based upon a rolling 12-month total.
23. Pursuant to §19.705 of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19) and 40 CFR Part 52 Subpart E, the permittee shall maintain records which document compliance with the lubricant throughput limit set forth in the preceding condition. These records shall be updated daily, totaled monthly, kept on site, and made available to Department personnel upon request. Monthly summaries of the lubricant usage shall be included in the semi-annual report as outlined in General Provision 7.

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## **SECTION V: COMPLIANCE PLAN AND SCHEDULE**

Arkansas Glass Container Corporation is in compliance with the applicable regulations cited in the permit application. Arkansas Glass will continue to operate in compliance with those identified regulatory provisions. The facility will examine and analyze future regulations that may apply and determine their applicability with any necessary action taken on a timely basis.

**SECTION VI: PLANTWIDE CONDITIONS**

1. Pursuant to §19.704 of Regulation 19, 40 CFR Part 52, Subpart E, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, the Director shall be notified in writing within thirty (30) days after construction has commenced, construction is complete, the equipment and/or facility is first placed in operation, and the equipment and/or facility first reaches the target production rate.
2. Pursuant to §19.410(B) of Regulation 19, 40 CFR Part 52, Subpart E, the Director may cancel all or part of this permit if the construction or modification authorized herein is not begun within 18 months from the date of the permit issuance or if the work involved in the construction or modification is suspended for a total of 18 months or more.
3. Pursuant to §19.702 of Regulation 19 and/or §18.1002 of Regulation 18 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311, any equipment that is to be tested, unless stated in the Specific Conditions of this permit or by any federally regulated requirements, shall be tested with the following time frames: (1) Equipment to be constructed or modified shall be tested within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source or (2) equipment already operating shall be tested according to the time frames set forth by the Department or within 180 days of permit issuance if no date is specified. The permittee shall notify the Department of the scheduled date of compliance testing at least fifteen (15) days in advance of such test. Compliance test results shall be submitted to the Department within thirty (30) days after the completed testing.
4. Pursuant to §19.702 of Regulation 19 and/or §18.1002 of Regulation 18 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311, the permittee shall provide:
  - a. Sampling ports adequate for applicable test methods
  - b. Safe sampling platforms
  - c. Safe access to sampling platforms
  - d. Utilities for sampling and testing equipment
5. Pursuant to §19.303 of Regulation 19 and A.C.A. §8-4-203 as referenced by A.C. A. §8-4-304 and §8-4-311, the equipment, control apparatus and emission monitoring equipment shall be operated within their design limitations and maintained in good condition at all times.
6. Pursuant to Regulation 26 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, this permit subsumes and incorporates all previously issued air permits for this facility.



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7. Pursuant to §19.705 of the Regulations of the Arkansas State Implementation Plan for Air Pollution Control (Regulation 19), and 40 CFR 52, Subpart E, the permittee shall conduct observations of visible emissions for the sources listed below. The visible emissions (VE) observations shall be conducted in accordance with the following timeframes:

Source Number (SN)	VE Observation Frequency
01, 03	Daily.
04A, 04B, 04C, 04D, 04E	During each silo loading event.
04F	Weekly.
08	Weekly.

The visible emissions observations shall be used as a method of compliance verification for the opacity limits assigned. The observations shall be conducted by personnel familiar with the facility's visible emissions. If during the observations visible emissions are detected which appear to be in excess of the permitted opacity limit, the permittee shall:

- a) Take immediate action to identify the cause of the visible emissions.
- b) Implement all necessary corrective action.
- c) Reassess the visible emissions after corrective action is taken.
  - (i) If excessive visible emissions are still detected, an opacity reading shall be conducted in accordance with EPA Reference Method 9. This reading shall be conducted by personnel trained and certified in the reference method. If the opacity reading exceeds the permitted limit, further corrective measures shall be taken.
  - (ii) If no excessive visible emissions are detected, the incident shall be noted in the records as described below.

The permittee shall maintain records related to all visible emission observations and Method 9 readings. The records shall be updated on an as-performed basis. The records shall be kept on site and made available to Department personnel upon request. The records shall contain the following items:

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- a. the date and time of each observation/reading.
- b. any observance of visible emissions appearing to be above permitted limits, or any Method 9 reading which indicates exceedence.
- c. the cause of any observed exceedence of opacity limits, corrective action taken, and results of the reassessment.
- d. The name of the person conducting the observation/reading.

**Title VI Provisions**

8. The permittee shall comply with the standards for labeling of products using ozone depleting substances pursuant to 40 CFR Part 82, Subpart E:
  - a. All containers containing a class I or class II substance stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced to interstate commerce pursuant to §82.106.
  - b. The placement of the required warning statement must comply with the requirements pursuant to §82.108.
  - c. The form of the label bearing the required warning must comply with the requirements pursuant to §82.110.
  - d. No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
9. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
  - c. Persons performing maintenance, service repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.

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- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. (“MVAC-like appliance” as defined at §82.152.)
  - e. Persons owning commercial or industrial process refrigeration equipment must comply with leak repair requirements pursuant to §82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
10. If the permittee manufactures, transforms, destroys, imports, or exports a class I or class II substance, the permittee is subject to all requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
11. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant ( or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term “MVAC” as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or the system used on passenger buses using HCFC-22 refrigerant.

12. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program.

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**SECTION VII: INSIGNIFICANT ACTIVITIES**

Pursuant to §26.304 of Regulation 26, the following sources are insignificant activities. Any activity for which a state or federal applicable requirement applies is not insignificant even if this activity meets the criteria of §304 of Regulation 26 or is listed below. Insignificant activity determinations rely upon the information submitted by the permittee in an application dated December 6, 1999.

Description	Category
Refractory Shaker Screen (formerly SN-06A)	Group A # 13
120 Gallon Gasoline Storage Tank (formerly SN-07A)	Group A # 13
320 Gallon Diesel Storage Tank (formerly SN-7B)	Group A # 3
Cullet Jaw Crusher	Group A # 13
Spray Booth in Mold Shop	Footnote 1
Job Change Shop Internal Dust Collector	Footnote 2
Mold Shop Internal Dust Collector	Footnote 2

Footnote 1: The sprayed mold-release material contains no VOCs.

Footnote 2: These dust collectors discharge inside the production building.

Pursuant to §26.304 of Regulation 26, the emission units, operations, or activities contained in Regulation 19, Appendix B, have been determined by the Department to be insignificant activities. Activities included in this list are allowable under this permit and need not be specifically identified.

## **SECTION VIII: GENERAL PROVISIONS**

1. Pursuant to 40 CFR 70.6(b)(2), any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*). Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute.
2. Pursuant to 40 CFR 70.6(a)(2) and §26.7 of the Regulations of the Arkansas Operating Air Permit Program (Regulation 26), this permit shall be valid for a period of five (5) years beginning on the date this permit becomes effective and ending five (5) years later.
3. Pursuant to §26.4 of Regulation #26, it is the duty of the permittee to submit a complete application for permit renewal at least six (6) months prior to the date of permit expiration. Permit expiration terminates the permittee's right to operate unless a complete renewal application was submitted at least six (6) months prior to permit expiration, in which case the existing permit shall remain in effect until the Department takes final action on the renewal application. The Department will not necessarily notify the permittee when the permit renewal application is due.
4. Pursuant to 40 CFR 70.6(a)(1)(ii) and §26.7 of Regulation #26, where an applicable requirement of the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.* (Act) is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions are incorporated into the permit and shall be enforceable by the Director or Administrator.
5. Pursuant to 40 CFR 70.6(a)(3)(ii)(A) and §26.7 of Regulation #26, records of monitoring information required by this permit shall include the following:
  1. The date, place as defined in this permit, and time of sampling or measurements;
  2. The date(s) analyses were performed;

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3. The company or entity that performed the analyses;
  4. The analytical techniques or methods used;
  5. The results of such analyses; and
  6. The operating conditions existing at the time of sampling or measurement.
6. Pursuant to 40 CFR 70.6(a)(3)(ii)(B) and §26.7 of Regulation #26, records of all required monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.
7. Pursuant to 40 CFR 70.6(a)(3)(iii)(A) and §26.7 of Regulation #26, the permittee shall submit reports of all required monitoring every 6 months. If no other reporting period has been established, the reporting period shall end on the last day of the anniversary month of this permit. The report shall be due within 30 days of the end of the reporting period. Even though the reports are due every six months, each report shall contain a full year of data. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official as defined in §26.2 of Regulation #26 and must be sent to the address below.

Arkansas Department of Environmental Quality  
Air Division  
ATTN: Compliance Inspector Supervisor  
Post Office Box 8913  
Little Rock, AR 72219

8. Pursuant to 40 CFR 70.6(a)(3)(iii)(B), §26.7 of Regulation #26, and §19.601 and 19.602 of Regulation #19, all deviations from permit requirements, including those attributable to upset conditions as defined in the permit shall be reported to the Department. An initial report shall be made to the Department by the next business day after the occurrence. The initial report may be made by telephone and shall include:
1. The facility name and location,
  2. The process unit or emission source which is deviating from the permit limit,
  3. The permit limit, including the identification of pollutants, from which deviation occurs,
  4. The date and time the deviation started,
  5. The duration of the deviation,

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6. The average emissions during the deviation,
7. The probable cause of such deviations,
8. Any corrective actions or preventive measures taken or being taken to prevent such deviations in the future, and
9. The name of the person submitting the report.

A full report shall be made in writing to the Department within five (5) business days of discovery of the occurrence and shall include in addition to the information required by initial report a schedule of actions to be taken to eliminate future occurrences and/or to minimize the amount by which the permits limits are exceeded and to reduce the length of time for which said limits are exceeded. If the permittee wishes, they may submit a full report in writing (by facsimile, overnight courier, or other means) by the next business day after discovery of the occurrence and such report will serve as both the initial report and full report.

9. Pursuant to 40 CFR 70.6(a)(5) and §26.7 of Regulation #26, and A.C.A. §8-4-203, as referenced by §8-4-304 and §8-4-311, if any provision of the permit or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications hereof which can be given effect without the invalid provision or application, and to this end, provisions of this Regulation are declared to be separable and severable.
10. Pursuant to 40 CFR 70.6(a)(6)(i) and §26.7 of Regulation #26, the permittee must comply with all conditions of this Part 70 permit. Any permit noncompliance with applicable requirements as defined in Regulation #26 constitutes a violation of the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.* and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Any permit noncompliance with a state requirement constitutes a violation of the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 *et seq.*) and is also grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
11. Pursuant to 40 CFR 70.6(a)(6)(ii) and §26.7 of Regulation #26, it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
12. Pursuant to 40 CFR 70.6(a)(6)(iii) and §26.7 of Regulation #26, this permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or

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termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

13. Pursuant to 40 CFR 70.6(a)(6)(iv) and §26.7 of Regulation #26, this permit does not convey any property rights of any sort, or any exclusive privilege.
14. Pursuant to 40 CFR 70.6(a)(6)(v) and §26.7 of Regulation #26, the permittee shall furnish to the Director, within the time specified by the Director, any information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the permittee may be required to furnish such records directly to the Administrator along with a claim of confidentiality.
15. Pursuant to 40 CFR 70.6(a)(7) and §26.7 of Regulation #26, the permittee shall pay all permit fees in accordance with the procedures established in Regulation #9.
16. Pursuant to 40 CFR 70.6(a)(8) and §26.7 of Regulation #26, no permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for elsewhere in this permit.
17. Pursuant to 40 CFR 70.6(a)(9)(i) and §26.7 of Regulation #26, if the permittee is allowed to operate under different operating scenarios, the permittee shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the scenario under which the facility or source is operating.
18. Pursuant to 40 CFR 70.6(b) and §26.7 of Regulation #26, all terms and conditions in this permit, including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator and citizens under the Act unless the Department has specifically designated as not being federally enforceable under the Act any terms and conditions included in the permit that are not required under the Act or under any of its applicable requirements.



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19. Pursuant to 40 CFR 70.6(c)(1) and §26.7 of Regulation #26, any document (including reports) required by this permit shall contain a certification by a responsible official as defined in §26.2 of Regulation #26.
20. Pursuant to 40 CFR 70.6(c)(2) and §26.7 of Regulation #26, the permittee shall allow an authorized representative of the Department, upon presentation of credentials, to perform the following:
  1. Enter upon the permittee's premises where the permitted source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
  4. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements.
21. Pursuant to 40 CFR 70.6(c)(5) and §26.7 of Regulation #26, the permittee shall submit a compliance certification with terms and conditions contained in the permit, including emission limitations, standards, or work practices. This compliance certification shall be submitted annually and shall be submitted to the Administrator as well as to the Department. All compliance certifications required by this permit shall include the following:
  1. The identification of each term or condition of the permit that is the basis of the certification;
  2. The compliance status;
  3. Whether compliance was continuous or intermittent;
  4. The method(s) used for determining the compliance status of the source, currently and over the reporting period established by the monitoring requirements of this permit; and
  5. Such other facts as the Department may require elsewhere in this permit or by §114(a)(3) and 504(b) of the Act.
22. Pursuant to §26.7 of Regulation #26, nothing in this permit shall alter or affect the following:

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1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;
  2. The liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance;
  3. The applicable requirements of the acid rain program, consistent with §408(a) of the Act; or
  4. The ability of EPA to obtain information from a source pursuant to §114 of the Act.
23. Pursuant to A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, this permit authorizes only those pollutant emitting activities addressed herein.

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## APPENDIX A

## APPENDIX B

## APPENDIX C

## APPENDIX D

# INVOICE REQUEST FORM

PDS-\_\_\_\_\_

Date October 11, 2001

- |                                     |                      |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | Air                  |
| <input type="checkbox"/>            | NPDES                |
| <input type="checkbox"/>            | Stormwater           |
| <input type="checkbox"/>            | State Permits Branch |
| <input type="checkbox"/>            | Solid Waste          |

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Facility Name Arkansas Glass Container Corporation

Invoice Mailing Address Sandy Lilly, Secretary/Treasurer  
Arkansas Glass Container Corp.  
P.O. Box 1717  
Jonesboro, AR 72403

- |                                     |              |
|-------------------------------------|--------------|
| <input type="checkbox"/>            | Initial      |
| <input checked="" type="checkbox"/> | Modification |
| <input type="checkbox"/>            | Annual       |

Permit Number 1440-AOP-R1  
Permit Description Title 5  
Permit Fee Code A

Amount Due \$ 1000.00

Engineer Lyndon Poole

Paid? GNo GYes Check # \_\_\_\_\_

## Comments: Air Permit Fee Calculation

(6 tons PM10 increase)X(\$19.12) = \$114.72  
\$114.72 < \$1000.00, therefore FEE = \$1000.00



## Public Notice

Pursuant to the Arkansas Operating Air Permit Program (Regulation #26) Section 602, the Air Division of the Arkansas Department of Environmental Quality gives the following notice:

Arkansas Glass Container Corporation owns and operates a glass container manufacturing facility in Jonesboro, Arkansas (Craighead County). The facility is located at 516 West Johnson, Jonesboro, Arkansas, 72403. The facility has proposed an air permit modification in order to: identify existing emission points previously omitted from the air permit, update emission calculation methods for baghouse-controlled sources and the forming machines, update the insignificant activities list, acknowledge the addition of electric boost systems in the glass melting furnaces (previously approved by the Department), and incorporate a slightly higher volatile organic compound (VOC) limit for the glass furnaces, due to 1999 test results. This modification will result in a plantwide increase in permitted emissions of particulate matter by 6.0 tons per year, and a plantwide decrease of VOC by 311.8 tons per year.

The application has been reviewed by the staff of the Department and has received the Department's tentative approval subject to the terms of this notice.

Citizens wishing to examine the permit application and staff findings and recommendations may do so by contacting Suzanne Carswell, Information Officer. Citizens desiring technical information concerning the application or permit should contact Lyndon Poole, Engineer. Both Suzanne Carswell and Lyndon Poole can be reached at the Department's central office, 8001 National Drive, Little Rock, Arkansas 72209, telephone: (501) 682-0744.

The draft permit and permit application are available for copying at the above address. A copy of the draft permit has also been placed at the Crowley Ridge Regional Library, 315 West Oak, Jonesboro, Arkansas, 72401. This information may be reviewed during normal business hours.

Interested or affected persons may also submit written comments or request a hearing on the proposal, or the proposed modification, to the Department at the above address - Attention: Suzanne Carswell. In order to be considered, the comments must be submitted within thirty (30) days of publication of this notice. Although the Department is not proposing to conduct a public hearing, one will be scheduled if significant comments on the permit provisions are received. If a hearing is scheduled, adequate public notice will be given in the newspaper of largest circulation in the county in which the facility in question is, or will be, located.

The Director shall make a final decision to issue or deny this application or to impose special conditions in accordance with Section 2.1 of the Arkansas Pollution Control and Ecology Commission's Administrative Procedures (Regulation #8) and Regulation #26.

Dated this

Richard A. Weiss  
Interim Director