

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

1.  Addressee's Address
2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: Mr. Robert M. Lanham Environmental Engineer Anheuser-Busch Companies, Inc. One Busch Place (202-4) St. Louis, Missouri 63118	4a. Article Number P 832 538 735
5. Signature (Addressee)	4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature (Agent)	7. Date of Delivery
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PS Form 3811 October 1990

U.S. GPO: 1990-273-861

**DOMESTIC RETURN RECEIPT**

P 832 538 735



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Mr. Robert M. Lanham, A-B Co.	
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Postage	\$
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TOTAL Postage & Fees	\$
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Mailed: 10-15-91	
Permit: AC 16-199113	

PS Form 3800, June 1990



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. Robert M. Lanham, Environmental Engineer  
Anheuser-Busch Companies, Inc.  
Executive Office  
One Busch Place (202-4)  
St. Louis, Missouri 63118

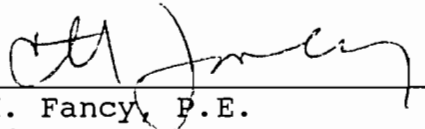
October 14, 1991

Enclosed is construction permit AC 16-199113 to construct/modify can coating lines Nos. 2, 3, 4, and 5 and the oil mist control system. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

Copy furnished to:

Andrew G. Kutyna, DER  
John H. Schamburg, P.E.  
Darrel J. Hall, BESD  
Dean Pusch, AB Companies, Inc.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10-15-91.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Kim Ober  
Clerk

10-15-91  
Date

Final Determination

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
Duval County  
Jacksonville, Florida

Can Coating Lines Nos. 2, 3, 4 and 5  
and an Oil Mist Constrol System

Permit Number: AC 16-199113

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

October 14, 1991

mg/l = ppm  
1000ug = 1 mg  
1,000,000 ug = 1 kg

## Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct/modify can coating lines Numbers 2, 3, 4, and 5 and the oil mist control system at Anheuser-Busch Companies, Inc. facility in Jacksonville, Duval County, Florida, was distributed September 19, 1991. The Notice of Intent to Issue was published in The Florida Times-Union on September 23, 1991. Copies of the evaluation were available for public inspection at the Department's Tallahassee and Northeast District offices and the Duval County Department of Health, Welfare, & Bio-Environmental Services office.

Comments were submitted on the Department's Intent to Issue the permit by Mr. Dean E. Pusch, Senior Environmental Scientist with Anheuser-Busch. Mr. Pusch requested clarification regarding the specific conditions of the permit and minor corrections within the Technical Evaluation and Preliminary Determination. The Department evaluated Mr. Pusch's comments and determined the following:

COMMENT: Specific Condition No. 1 - Emission Limits..."The VOC limit for inside spray should read 0.88 kilogram per liter of solids."

RESPONSE: Specific Condition No. 1 will be modified as requested.

### Present Specific Condition No. 1:

#### Emission Limits

1. Each coating line at this facility shall not discharge or cause the discharge of VOC that exceeds the following volume-weighted calendar-month average emissions:

- 0.28 Kilogram of VOC per liter of coating solids from each two piece can exterior basecoating operation, except clear basecoat.
- 0.40 Kilogram of VOC per liter of coating solids from each two-piece can clear basecoatings operation and from each overvarnish coating operation.
- 0.85 Kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operations.

### New Specific Condition No. 1:

#### Emission Limits

1. Each coating line at this facility shall not discharge or cause the discharge of VOC that exceeds the following volume-weighted calendar-month average emissions:

- 0.28 Kilogram of VOC per liter of coating solids from each two piece can exterior basecoating operation, except clear basecoat.
- 0.40 Kilogram of VOC per liter of coating solids from each two-piece can clear basecoatings operation and from each overvarnish coating operation.
- 0.88 Kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operations.

COMMENT: Specific Condition No. 12 - The second sentence of this condition should read, "The following parameters shall not be exceeded on an annual average basis."

RESPONSE: Specific Condition No. 12 will be modified as requested.

Present Specific Condition No. 12:

12. The permitted materials and utilization rates are as stated in the application. The following parameters shall not be exceeded:

Line No. 2 production: 1300 cans per minute  
All 16 oz cans  
1400 cans per minute  
All 12 oz cans  
85% of 16 oz cans basecoated

Line No. 3 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 4 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 5 production: 2160 cans per minute  
All 12 oz cans  
No basecoated cans

New Specific Condition No. 12:

12. The permitted materials and utilization rates are as stated in the application. The following parameters shall not be exceeded on an annual average basis:

Line No. 2 production: 1300 cans per minute  
All 16 oz cans  
1400 cans per minute  
All 12 oz cans  
85% of 16 oz cans basecoated

Line No. 3 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 4 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 5 production: 2160 cans per minute  
All 12 oz cans  
No basecoated cans

COMMENT: Specific Condition No. 14 - to allow the flexibility to design an effective compliance monitoring program based on EPA's Method 25 and Method 25A, the following wording is suggested:

"Compliance with the VOC emission limits for this facility shall be determined using EPA Method 25 and/or 25A for capture and destruction efficiencies, and EPA Method 24 or 24A for VOC content. The monitoring protocol shall be submitted to the Department for prior approval. The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by referenced in Section 17-2.700, F.A.C."

RESPONSE: This condition will not be modified as requested. In late October 1991, the Department will be adopting F.A.C. Rule 17-2.700(6)(c), EPA-VOC Capture Efficiency Test Procedures. Therefore, this facility shall comply with this regulation (F.A.C. Rule 17-2.700(6)(c)). Specific Condition No. 14 will be modified as follows:

Present Specific Condition No. 14:

Compliance Determination

14. Compliance with the VOC emission limits for this facility shall be determined by EPA Method 25 (destruction efficiency), Method 25A (Capture Efficiency), and EPA Method 24 or 24A (VOC content). The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by reference in Section 17-2.700, F.A.C.

Compliance with the VOC capture efficiency limit shall be determined by EPA approved protocol(s) as described in the EPA Memorandum dated April 16, 1990, entitled "Guidelines for Developing a State Protocol for the Measurement of Capture Efficiency" (copy attached). The permittee shall notify the Department and the Duval County Bio-Environmental Services Division (BESD) of the Method and/or protocol selected for prior approval before applying for an operating permit.

New Specific Condition No.14:

Compliance Determination

14. Compliance with the VOC emission limits for this facility shall be determined by EPA Method 25 (destruction efficiency), and EPA Method 24 or 24A (VOC content). The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by reference in Section 17-2.700, F.A.C.

Compliance with the VOC capture efficiency limit shall be determined by EPA approved protocol(s) as described in the EPA Memorandum dated April 16, 1990, entitled "Guidelines for Developing a State Protocol for the Measurement of Capture Efficiency" (copy attached). The permittee shall notify the Department and the Duval County Bio-Environmental Services Division (BESD) of the protocol selected for prior approval before applying for an operating permit.

COMMENT: It is assumed that Specific Condition No. 16 refers to the oil control system.

RESPONSE: This is correct.

COMMENT: On Specific Condition No. 27, the annual reporting requirements for VOC emissions should read "VOC emissions (tons/yr, tons/month, and tons/day...." to be consistent with the emission limits specified in Specific Conditions 2 through 6.

RESPONSE: This condition will modified as requested.

Present Specific Condition No. 27:

27. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from the facility. These reports shall include but are not limited to the following: utilization rates (lbs/yr) manufacturer's certifications, VOC emissions (tons/yr, tons/day, and tons/hr), test results, VOC emissions per line, VOC content, liquid waste disposed, hours of operation, fuel utilization, quantity of cans processed, combustion temperature, destruction and capture efficiency, etc. Annual reports shall be sent to the BESD office.

New Specific Condition No. 27:

27. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from the facility. These reports shall include, but are not limited to the following: coating and



solvent utilization rates (lbs/yr), manufacturer's certification of VOC content or coatings, VOC emissions (tons/yr, tons/month, and tons/day), VOC emissions per line, compliance tests results, VOC content or coatings and solvents, quantity of coating and solvent waste disposed, hours of operation, fuel utilization, quantity of cans produced, thermal oxidizer operating temperature, destruction and capture efficiency, etc. Annual reports shall be sent to the BESD office.

The correct permit number for this facility is AC 16-199113.

The final action of the Department will be to issue construction permit AC 16-199113 with the changes as indicates in this final determination.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

**PERMITTEE:**

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
1100 North Ellis Road  
Jacksonville, FL 32206-6257

**Permit Number:** AC 16-199113

**Expiration Date:** May 31, 1993

**County:** Duval

**Latitude/Longitude:** 30°20'15"N

81°40'42"W

**Project:** Can Coating Lines Nos.  
2, 3, 4, 5, and the Oil Mist  
Control System

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the construction/modification of Can Coating Lines Nos. 2, 3, 4, 5, and the oil mist control system to be located at Jacksonville, Duval County, Florida.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. DER Form 17-2.202(1) Application to Construct Air Pollution Sources, received on June 21, 1991.
2. Additional Information received on August 14, 1991 and September 3, 1991.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-199113 Expiration Date: May 31, 1993

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 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 processes 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 the 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.

**PERMITTEE:**

**Anheuser-Busch Companies, Inc.**

**Permit Number: AC 16-199113**

**Expiration Date: May 31, 1993**

**GENERAL CONDITIONS:**

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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 a reasonable time, 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 the 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 non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

PERMITTEE:

Anheuser-Busch Companies, Inc.

Permit Number: AC 16-199113

Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

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 403.73 and 403.111, 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 Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance 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. 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 the permit, copies of all reports required by this permit, and

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-199113  
Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

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:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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.

**SPECIFIC CONDITIONS:**

Emission Limits

1. Each coating line at this facility shall not discharge or cause the discharge of VOC that exceeds the following volume-weighted calendar-month average emissions:

- 0.28 Kilogram of VOC per liter of coating solids from each two piece can exterior basecoating operation, except clear basecoat.
- 0.40 Kilogram of VOC per liter of coating solids from each two-piece can clear basecoatings operation and from each overvarnish coating operation.
- 0.88 Kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operations.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-199113 Expiration Date: May 31, 1993

SPECIFIC CONDITIONS:

2. Maximum total VOC emissions for Can Coating Line No. 2 shall not exceed 0.32 tons/day, 9.50 tons/month and 114 tons/year.

3. Maximum total VOC emissions for Can Coating Line No. 3 shall not exceed 0.29 tons/day, 8.7 tons/month and 105 tons/year.

4. Maximum total VOC emissions for Can Coating Line No. 4 shall not exceed 0.29 tons/day, 8.7 tons/month and 105 tons/year.

5. Maximum total VOC emissions for Can Coating Line No. 5 shall not exceed 0.11 tons/day, 3.2 tons/month and 38.7 tons/year.

6. Total volatile organic compounds (VOC) and organic solvents emissions for the entire facility shall not exceed 1.1 tons/day, 30.7 tons/month and 368 tons/year.

7. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

AAC = (OEL) / safety factor

where,

AAC = acceptable ambient concentration

Safety Factor = 50 for category B substances (8 hrs/day)
100 for category A substances (8 hrs/day)
210 for category B substances (24 hrs/day)
420 for category A substances (24 hrs/day)

OEL = Occupational exposure level such as ACGIH, OSHA, and NIOSH published standards for toxic materials.

8. Visible emissions from this facility shall not exceed 20% opacity.

9. Particulate matter emissions from the oil mist control system shall not exceed 3.3 lbs/hr and 14.5 tons/yr.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-199113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

Operating Rates

10. The operating requirements for the regenerative thermal oxidizer are:

A. A 95% minimum destruction efficiency.

B. An 80% minimum capture efficiency.

11. This facility is allowed to operate continuously (8760 hours per year).

12. The permitted materials and utilization rates are as stated in the application. The following parameters shall not be exceeded on an annual average basis:

Line No. 2 production: 1300 cans per minute  
All 16 oz cans  
1400 cans per minute  
All 12 oz cans  
85% of 16 oz cans basecoated

Line No. 3 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 4 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 5 production: 2160 cans per minute  
All 12 oz cans  
No basecoated cans

13. Any other operating parameters established during compliance testing and/or inspection that will confirm the proper operation of this facility shall be included in the operating permit.

Compliance Determination

14. Compliance with the VOC emission limits for this facility shall be determined by EPA Method 25 (destruction efficiency), and EPA Method 24 or 24A (VOC content). The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by reference in Section 17-2.700, F.A.C.



**PERMITTEE:**

**Anheuser-Busch Companies, Inc.**

**Permit Number: AC 16-199113**

**Expiration Date: May 31, 1993**

**SPECIFIC CONDITIONS:**

Compliance with the VOC capture efficiency shall be determined by EPA approved protocol(s) as described in the EPA Memorandum dated April 16, 1990, entitled "Guidelines for Developing a State Protocol for the Measurement of Capture Efficiency" (copy attached). The permittee shall notify the Department and the Duval County Bio-Environmental Services Division (BESD) of the protocol selected for prior approval before applying for an operating permit.

15. Daily and monthly compliance for this facility shall be demonstrated in accordance with 40 CFR 60, Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry.

16. Compliance with the V.E. standards for this facility shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, as described in 40 CFR 60, Appendix A (July 1989). This V.E. test shall be performed during the VOC emission testing. The duration of the V.E. shall be at least 60 minutes.

17. Compliance with the particulate matter standard for the oil mist control system shall be determined by EPA Method 5, contained in 40 CFR 60, Appendix A and adopted by reference in F.A.C. 17-2.700.

18. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR, Appendix A (July 1989). Test results will be the average of 3 valid runs. This facility shall be operating between 90% and 100% of permitted capacity during the tests. The permittee shall notify the BESD office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the BESD office no later than 45 days from the date of testing.

19. Compliance with the acceptable ambient concentrations (AAC) shall be demonstrated based on calculations certified by a professional engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approval dispersion modeling. AAC calculations shall be made available upon request.

20. At the request of the BESD or the Department, the permittee or the coating manufacturer shall conduct an EPA Method No. 24 analyses on any coating, solvent or waste solvent specified. The enclosed Appendix B (EPA 450/3-84-019), if properly completed for each affected coating, may be submitted in lieu of the Method 24 or 24A tests. New coatings or the same coatings supplied by a different

**PERMITTEE:**

Anheuser-Busch Companies, Inc.

Permit Number: AC 16-199113

Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

manufacturer shall be tested for VOC content using EPA Method 24 and 24A or the above mentioned Appendix B prior to initial use in production. Each coating shall be tested after it is diluted with the maximum amount of solvent used by the permittee for production. The use of a different coating with a higher than permitted NSPS VOC content is not allowed. Prior written notification is required in the event that the VOC content of a coating (not included in the application) increases above that of the previous coating in use. Notification shall be provided to the BESD and shall include EPA Method 24 or Appendix B test results on the VOC content of the proposed coating and solvent.

21. When the Department or the BESD, after investigation, has good reason (such as odor complaints, increased visible emissions, excess emissions, etc.), to conclude that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the facility and to provide a report on the results of said tests to the Department.

Rule Requirements

22. This facility shall comply with all applicable provisions of Chapter 403, Florida Statutes, and Chapters 17-2 and 17-4, Florida Administrative Code.

23. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

24. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. The following procedures shall be utilized to minimize pollutant emissions:

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;

**PERMITTEE:** Anheuser-Busch Companies, Inc. **Permit Number:** AC 16-199113  
**Expiration Date:** May 31, 1993  
**SPECIFIC CONDITIONS:**

- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

25. This facility is subject to applicable provisions of VOC-RACT Rule 17-2.650(1)(f)1-Can Coating Requirements, 40 CFR 60, Subpart WW-NSPS for Beverage Can Surface Coating Industry, and F.A.C. Rule 17-2.700-Emission Test Procedures.

26. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

27. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from the facility. These reports shall include, but are not limited to the following: coating and solvent utilization rates (lbs/yr), manufacturer's certification of VOC content or coatings, VOC emissions (tons/yr, tons/month, and tons/day), VOC emissions per line, compliance tests results, VOC content or coatings and solvents, quantity of coating and solvent waste disposed, hours of operation, fuel utilization, quantity of cans produced, thermal oxidizer operating temperature, destruction and capture efficiency, etc. Annual reports shall be sent to the BESD office.

28. This permit replaces construction permit AC 16-187863.

29. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

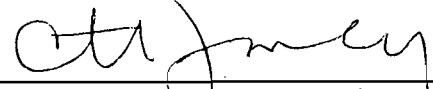
30. An application for an operation permit must be submitted to the BESD office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:  
Anheuser-Busch Companies, Inc.

Permit Number: AC 16-199113  
Expiration Date: May 31, 1993

Issued this 15 day  
of October, 1991

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



for

STEVE SMALLWOOD, P.E., Director  
Division of Air Resources Mgmt.

Check Sheet

Company Name: METAL CONTAINER CORPORATION  
Permit Number: AC 16-199113  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- Initial Application
- Incompleteness Letters
- Responses
- Waiver of Department Action
- Department Response
- Other

**Cross References:**

- 
- 
- 

**Intent:**

- Intent to Issue
- Notice of Intent to Issue
- Technical Evaluation
- BACT Determination
- Unsigned Permit

Correspondence with:

- EPA
- Park Services
- Other
- Proof of Publication
  - Petitions - (Related to extensions, hearings, etc.)
  - Waiver of Department Action
  - Other

**Final Determination:**

- Final Determination
- Signed Permit
- BACT Determination
- Other

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other



**Metal Container  
Corporation**

ONE OF THE AIRHEWLE REUSCH COMPANIES

**RECEIVED**

JAN 20 1998

Bureau of Air Monitoring  
& Mobile Sources

January 9, 1998

Certified Mail No. P 159 413 367

Florida Department of Environmental Protection  
Air Quality  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RE: METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
SEMI-ANNUAL COMPLIANCE STATEMENT  
FACILITY ID# 31DVL1600097**

Dear Director:

This letter provides semi-annual reporting as required under 40 CFR 60.495(b) for the period July 1, 1997 through December 31, 1997. During the aforementioned period, Metal Container Corporation's Jacksonville can plant used only coatings which directly complied with federal New Source Performance Standards for VOC content, as specified in 40 CFR 60.492.

Please contact me at (314) 957-0714 if you have any questions or need additional information.

Sincerely,  
METAL CONTAINER CORPORATION

Mary S. Mahaffey

cc: G. Patts  
T. Schoening

cc: C. Kirts

**RECEIVED**

JAN 21 1998

BUREAU OF  
AIR REGULATION



**Metal Container  
Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

January 6, 1997

Florida Department of Environmental Protection  
Air Quality  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RE: METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
SEMI-ANNUAL COMPLIANCE STATEMENT  
FACILITY ID# 31DVL1600097**

Dear Director:

This letter provides semi-annual reporting as required under 40 CFR 60.495(b) for the period 7/01/96 - 12/31/96. During the aforementioned period, Metal Container Corporation's Jacksonville can plant used only coatings which directly complied with federal New Source Performance Standards for VOC content, as specified in 40 CFR 60.492.

Please contact me at (314) 957-0714 or Bob Lanham at (314) 957-0769 if you have any questions or need additional information.

Sincerely

Anna C. Nabb

cc: R. Lanham  
G. Patts

cc: Duval Co.



**Metal Container  
Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

July 2, 1997

**RECEIVED**

**JUL 17 1997**

DIVISION OF AIR  
RESOURCES MANAGEMENT

Florida Department of Environmental Protection  
Air Quality  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RECEIVED**

**JUL 17 1997**

BUREAU OF  
AIR REGULATION

**RE: METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
SEMI-ANNUAL COMPLIANCE STATEMENT  
FACILITY ID# 31DVL1600097**

Dear Director:

This letter provides semi-annual reporting as required under 40 CFR 60.495(b) for the period 01/01/97 - 06/30/97. During the aforementioned period, Metal Container Corporation's Jacksonville can plant used only coatings which directly complied with federal New Source Performance Standards for VOC content, as specified in 40 CFR 60.492.

Please contact me at (314) 957-0714 or Bob Lanham at (314) 957-0769 if you have any questions or need additional information.

Sincerely,

Anna C. Nabb

cc: R. Lanham  
G. Patts  
T. Schoening





**Metal Container  
Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

July 16, 1996

Florida Department of Environmental Protection  
Air Quality  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RECEIVED**

JUL 22 1996

BUREAU OF  
AIR REGULATION

**RE: METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
SEMI-ANNUAL COMPLIANCE STATEMENT  
FACILITY ID #31DVL160097**

Dear Director:

This letter provides semi-annual reporting as required under 40CFR 60.495(b) for the period 1/01/96 - 6/30/96. During the aforementioned period, Metal Container Corporation's Jacksonville can plant used only coatings which directly complied with federal New Source Performance Standards for VOC content, as specified in 40 CFR 60.492.

Please contact me at (314)957-0714 or Bob Lanham at (314)957-0769 if you have any questions or need additional information.

Sincerely,

Anna C. Nabb

cc: R. Lanham  
G. Patts

cc: Duval Co. ✓

c:\admin\subww

Metal Container Corporation  
3636 South Geyer Road  
Suite 400  
St. Louis, MO 63127-1218

BEST AVAILABLE COPY

SERVICES DEPARTMENT

FAX COVER SHEET

AIR QUALITY DIVISION

421 West Church Street, Suite 412  
Jacksonville, Florida 32202  
(904)630-3484 (OFFICE)  
(904)630-3638 (FAX)

DATE: 11/29/95 TIME: 3:20 p

TO: TERESA HERON FAX #: (904) 922-6979  
DSD - TALL

MESSAGE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FROM: RON ROBERSON

NUMBER OF PAGES FAXED (including cover): 2

PLEASE CALL (904)630-3484 IF YOU DO NOT RECEIVE ALL THE PAGES OF THIS FAX OR IF TRANSMISSION IS UNCLEAR. OUR FAX NUMBER IS (904)630-3638.

BEST AVAILABLE COPY



Metal Container Corporation

October 31, 1995

City of Jacksonville  
Department of Regulatory &  
Environmental Services  
Air Quality Division  
421 West Church Street  
Jacksonville, Florida 32202-4111



RE: METAL CONTAINER CORPORATION  
FACILITY ID NO. 31DVL160097  
COATING/SOLVENT CHANGES

Dear Director:

As a condition of Permit Number AC 16-199113, Metal Container Corporation is providing notification that the VOC content of an overvarnish coating and clean-up solvent has changed from that identified in the permit.

The overvarnish indicated in the permit application is 2.09 pounds VOC per gallon less water. The new overvarnish is 2.11 pounds VOC per gallon less water. The new clean-up solvent is 8.88 pounds VOC per gallon versus a 7.5 pound per gallon VOC for the original solvent. The usage rate for these materials will remain below the rates indicated in the permit application and an overall increase in VOC emissions from the plant will not occur.

This notification is based on permit requirements only, and is not a request to increase the existing VOC limits at the facility. All existing permit limitations will continue to be met.

If you have any questions regarding this notification, please contact me at (314) 957-0714 or Bob Lanham at (314) 957-0769.

Sincerely,

*Anna C. Nabb*  
Anna C. Nabb

*Sp Condition N<sup>o</sup> 20*

*Can N<sup>o</sup> 1*

*2, 3, 4*

*0.40 Kgs VOC*  
*ll*

c:\facility\jax\omgchg

Metal Container Corporation  
3636 South Geyer Road  
Suite 400  
St. Louis, MO 63127-1216

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
 Robert M. Jarham, PE  
 Mgr. Engr. Engineering  
 Anheuser-Busch  
 Executive Offices  
 St. Louis, Missouri  
 63118-1852

4a. Article Number  
 Z 751 860 017

- 4b. Service Type
- Registered  Insured
  - Certified  COD
  - Express Mail  Return Receipt for Merchandise

7. Date of Delivery  
 3/3/95

5. Signature (Addressee)  
 Robert Jarham

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 \*U.S. GPO: 1992-323-402 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Z 751 860 017



**Receipt for Certified Mail**

No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

Send to	Robert M. Jarham
Street and No.	Anheuser-Busch
P.O., State and Zip Code	St. Louis, Missouri
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	2-27-95
	AC 16-199113

PS Form 3800, March 1993



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

February 24, 1995

**CERTIFIED MAIL- RETURN RECEIPT REQUESTED**

Mr. Robert M. Lanham, P.E.  
Manager, Environmental Engineering  
Environmental Affairs Department  
Anheuser-Busch Companies, Inc  
Executives Offices  
St. Louis, Missouri 63118-1852

Dear Mr. Lanham:

RE: Metal Container Corporation  
Jacksonville Can Plant-Permit AC 16-199113

The Department is in receipt of your letter dated January 25, 1995, requesting the expiration date of the above referenced permit to be extended. The Bureau has evaluated your request and agrees to extend the expiration date of the permit as follows:

**FROM:**

May 31, 1995

**TO:**

May 31, 1996

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

Mr. Robert M. Lanham  
February 24, 1995  
Page Two

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This letter shall be attached to permit AC 16-199113 and shall become a part of the permit.

Sincerely,



Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/th/t

Enclosure:



Mr. Robert M. Lanham's letter dated January 25, 1995

cc: J. Cole, Northeast District

Memorandum

Florida Department of  
Environmental Protection

---

TO: Howard L. Rhodes   
FROM: Clair Fancy   
DATE: February 24, 1995  
SUBJECT: Metal Container Corporation  
Jacksonville Can Plant - Permit AC 16-199113  
Extension of Permit

Attached for your approval and signature is a letter that will extend the expiration date for the above referenced permit for Metal Container Corporation.

I recommend your approval and signature.

CHF/th

Attachment

159304  
185835

AC 16 - 187863  
16 - 199113



**Metal Container  
Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

*Teresa*

**RECEIVED**

FEB 13 1995

Bureau of  
Air Regulation

February 3, 1995

Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400


**RE: METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
SEMI-ANNUAL COMPLIANCE STATEMENT**

Dear Director:

This letter provides semi-annual reporting as required under 40CFR 60.495(b) for the period 7/1/94 - 12/31/94. During the aforementioned period, Metal Container Corporation's Jacksonville, Florida plant used only coatings which directly complied with federal New Source Performance Standards for VOC content, as specified in 40 CFR 60.492.

Please contact me at (314)957-0714 or Bob Lanham at (314)957-0769 if you have any questions or need additional information.

Sincerely,



Anna C. Nabb

cc: City of Jacksonville, DRE  
Air Quality Division  
421 West Church Street  
Jacksonville, Florida 32202-4111

R. Lanham  
J. Serbia  
G. Patts

c:\facility\subww

Metal Container Corporation  
3636 South Geyer Road  
Suite 400  
St. Louis, MO 63127-1218



3755

0100813



**Metal Container Corporation**  
ONE OF THE ANHEUSER-BUSCH COMPANIES

January 25, 1995

Mr. C. H. Fancy, P.E.  
Bureau of Air Regulation  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**Re: Permit No. AC 16-199113  
Metal Container Corporation  
Jacksonville Can Plant**

Dear Mr. Fancy:

Metal Container Corporation (MCC) requests an extension of the expiration date of the referenced permit from May 31, 1995 to May 31, 1996. The project was constructed as specified in the permit and was completed in September 1992. A check in the amount of \$50.00 is enclosed for this request.

This extension is requested in order to comply with the compliance demonstration requirements of the permit. MCC has completed the destruction efficiency testing as required and a report was submitted September 8, 1994. A letter was received October 20, 1994 stating that MCC has fulfilled the VOC destruction efficiency requirements of the permit (copy attached).

There continues to be one outstanding compliance demonstration that remains to be resolved which is beyond the control of MCC. The capture efficiency demonstration required by the permit must be approved by the Bureau and USEPA. We are currently waiting for USEPA to publish their final capture efficiency requirements. This document was expected to be published in November 1994, however to date this has not occurred. This extension of time will allow for USEPA to complete and publish its guidance and allow MCC to prepare and execute a test protocol based on the USEPA guidance.

If you have any questions regarding this request, please contact me at (314) 957-0769.

Sincerely,  
METAL CONTAINER CORPORATION

Robert M. Lanham, P.E.  
Manager, Environmental Engineering  
attachment

Metal Container Corporation  
3636 South Geyer Road  
Suite 400  
St. Louis, MO 63127-1218

RECEIVED  
AIR - MAIL ROOM  
1995 FEB - 1 PM 2

0100813



# Metal Container Corporation

ONE OF THE ANHEUSER-BUSCH COMPANIES

089810

CHECK DATE	CHECK NUMBER
1/23/95	89810

VOID 180 DAYS AFTER ISSUANCE

Chemical Bank Delaware  
1201 Market Street  
Wilmington, Delaware 19801

ifty and 00/100th

311

-09  
2338

### PAY THIS AMOUNT

\$\*\*\*\*\*50.00

METAL CONTAINER CORPORATION

THE  
ORDER  
OF:

STATE OF FL DEPT OF ENVIR.  
WATER QUALITY ASSURANCE TRUST  
2600 BLAIRSTONE RD  
TALLAHASSEE FL 32399-2400

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE



Memorandum

Florida Department of Environmental Protection

TO: Howard L. Rhodes  
 FROM: Clair Fancy *CF*  
 DATE: May 20, 1994  
 SUBJECT: Request for Permit Amendment  
 Metal Container Corporation  
 AC 16-199113

*This is filed under Anheuser-Busch*

Attached for your approval and signature is an amendment to the Metal Container Corporation's construction permit prepared by the Bureau of Air Regulation. The purpose of the amendment is to extend the expiration date of the above mentioned permit.

I recommend your approval and signature.

CF/TH/bjb

Attachment

P 872 562 725



**Receipt for Certified Mail**

No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

Sent to Mr. Dean E. Pusch	
Street and No. One Busch Place	
P.O., State and ZIP Code St. Louis, MO 63118-1852	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date Mailed: 5/23/94 AC 16-199113	

s your RETURN ADDRESS completed on the reverse side?

<b>SENDER:</b> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
JUN 01 1994 Bureau of Air Regulation		
3. Article Addressed to: Mr. Dean E. Pusch Manager, Regulatory Issues Environmental Affairs Department One Busch Place Anheuser-Busch Companies, Inc. St. Louis, MO 63118-1852		4a. Article Number P 872 562 725
5. Signature (Addressee) <i>Dean E. Pusch</i>		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature (Agent)		7. Date of Delivery 5-26-94
		8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 \*U.S. GPO: 1992-323-402 DOMESTIC RETURN RECEIPT

PS Form 3800, JUNE 1991

Thank you for using Return Receipt Service.



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

May 20, 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Dean E. Pusch  
Manager, Regulatory Issues  
Environmental Affairs Department  
One Busch Place  
Anheuser-Busch Companies, Inc.  
St. Louis, MO 63118-1852

Dear Mr. Pusch:

RE: Permit No. AC 16-199113  
Metal Container Corporation  
Jacksonville Can Plant

The Department is in receipt of your letters dated April 20 and May 20, 1994, requesting an extension of the expiration date of the above mentioned permit. This request is acceptable. The expiration date for this permit is changed as follows:

FROM: May 31, 1994

TO: May 31, 1995

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

Mr. Dean E. Pusch  
May 20, 1994  
Page Two

The Petition shall contain the following information:


- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action;
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Mr. Dean E. Pusch  
May 20, 1994  
Page Three

A copy of this letter shall be attached to the above mentioned permit and shall become a part of this permit.

Sincerely,



Howard L. Rhodes  
Director  
Division of Air Resources  
Management

HLR/TH/bjb

Attachment to Be Incorporated:

Mr. Dean E. Pusch's letters of April 20 and May 20, 1994.

cc:

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this AMENDMENT and all copies were mailed by certified mail before the close of business on 5/23/94 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,  
on this date, pursuant to  
120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

Barbara J. Powell 5/23/94  
Clerk Date

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Mr. Dean E. Pusch  
Sr. Environmental Scientist  
Anheuser-Busch Companies, Inc.  
One Busch Place  
St. Louis, MO 63113-1852

4a. Article Number  
P 230 523 749

4b. Service Type  
 Registered     Insured  
 Certified     COD  
 Express Mail     Return Receipt for Merchandise

7. Date of Delivery  
6-24-93

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

PS Form 3871, December 1991    ☆U.S. GPO: 1992-323-402    DOMESTIC RETURN RECEIPT

P 230 523 749



**Receipt for Certified Mail**  
No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to <b>Mr. Dean E. Pusch, Anheuser-Busch Companies</b>	
Street and No. <b>One Busch Place</b>	
P.O., State and ZIP Code <b>St. Louis, MO 63113-1852</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date <b>Mailed: 6-18-93</b> <b>Permit: AC16-199113</b>	

PS Form 3800, June 1991



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

June 7, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Dean E. Pusch, Senior Environmental Scientist  
Anheuser-Busch Companies, Inc.  
Executive Offices  
One Busch Place  
St. Louis, MO 63113-1852

Re: Permit AC16-199113, Jacksonville Can Plant  
Metal Container Corporation

The Department is in receipt of your letters dated April 14 and April 28 on behalf of Anheuser-Busch Companies, Inc. requesting an extension of the expiration date of the above mentioned permit. This request is acceptable. The expiration date for this permit will be changed as follows:

From: May 31, 1993  
To: May 31, 1994

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of receipt of this amendment. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;



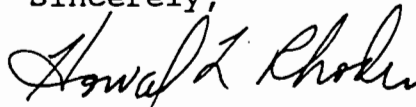
Mr. Dean E. Pusch  
Expiration Date Extension  
Page Two

- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,



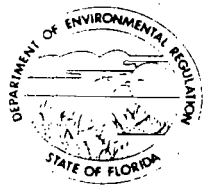
Howard L. Rhodes  
Director  
Division of Air Resources  
Management

HLR/TH/plm

Attachment to be Incorporated

Mr. Dean E. Pusch's letters of April 14 and April 28, 1993

cc: J. Cole, NED  
R. Roberson, BESD



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Howard L. Rhodes  
FROM: *John Brown*  
Clair Fancy  
DATE: June 7, 1993  
SUBJ: Amendment of Permit No. AC16-199113  
Metal Container Corporation

Attached for your approval and signature is a letter extending the expiration date of the above mentioned permit. This extension is needed to allow sufficient time to complete testing and demonstrate compliance.

I recommend your approval and signature of this amendment.

CF/TH/plm



**ANHEUSER-BUSCH COMPANIES**

May 9, 1994

VIA FEDERAL EXPRESS 924-667-7952

Ms. Patricia Adams  
Bureau of Air Regulations  
Florida Department of Environmental Protection  
Twin Towers Office Bldg.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: Permit Fee - Permit No. Ac 16-199113  
Metal Container Corporation  
Jacksonville Can Plant

Per our discussion, enclosed is a check for \$50 to cover the fee for the previously submitted request for extension of the referenced permit. A copy of the request is enclosed.

Please call me at (314) 577-4162 if you have any questions.

Dean E. Pusch

DEP:mls

5994dep.doc

cc: J. Nelson  
Q. Coll, WE-Dist.  
R. Robinson, EESD

RECEIVED

MAY 10 1994

Bureau of  
Air Regulation

5/5 Patten  
ck with milk on the legitimacy of his  
request be for processing - looks like they owe  
us a fee - clean



**ANHEUSER-BUSCH COMPANIES**

April 20, 1994

Mr. C. H. Fancy, P.E.  
Bureau of Air Regulation  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RECEIVED

APR 26 1994

Bureau of  
Air Regulation

**Re: Permit No. AC 16-199113  
Metal Container Corporation  
Jacksonville Can Plant**

Dear Mr. Fancy:

Metal Container Corporation (MCC) requests an extension of the expiration date of the referenced permit from May 31, 1994 to May 31, 1995. The project was constructed as specified in the permit, and was completed in September 1992.

In order to meet the compliance demonstration requirements of the permit, two issues, beyond MCC's control, must be resolved. The destruction test required by the referenced permit necessitates an alternate test method other than that called for in the permit. MCC has requested formal approval of the alternate method. The Bureau is in the process of reissuing the legal order allowing the use of an alternate test procedure.

The capture efficiency demonstration required by the permit must be approved by the Bureau and USEPA. EPA is currently evaluating its total temporary enclosure (TTE) capture efficiency requirement. This extension will allow time for EPA to complete its evaluation and establish a test protocol for the TTE and/or equivalent procedures, at which time MCC can perform the requisite compliance demonstrations.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch  
Manager, Regulatory Issues  
Environmental Affairs Department

Anheuser-Busch Companies, Inc.  
Executive Offices  
One Busch Place  
St. Louis, MO U.S.A. 63118-1852  
Telex 447 117 ANBUSCH STL



**ANHEUSER-BUSCH COMPANIES**

bcc: J. V. Stier  
M. Accardo  
W. McClarnand  
G. Potts

April 20, 1994

Mr. C. H. Fancy, P.E.  
Bureau of Air Regulation  
Florida Department of Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**Re: *Permit No. AC 16-199113***  
***Metal Container Corporation***  
***Jacksonville Can Plant***

Dear Mr. Fancy:

Metal Container Corporation (MCC) requests an extension of the expiration date of the referenced permit from May 31, 1994 to May 31, 1995. The project was constructed as specified in the permit, and was completed in September 1992.

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The capture efficiency demonstration required by the permit must be approved by the Bureau and USEPA. EPA is currently evaluating its total temporary enclosure (TTE) capture efficiency requirement. This extension will allow time for EPA to complete its evaluation and establish a test protocol for the TTE and/or equivalent procedures, at which time MCC can perform the requisite compliance demonstrations.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch  
Manager, Regulatory Issues  
Environmental Affairs Department

Anheuser-Busch Companies, Inc.  
Executive Offices  
One Busch Place  
St. Louis, MO U.S.A. 63118-1852  
Telex 447 117 ANBUSCH STL

BEST AVAILABLE COPY



ANHEUSER-BUSCH  
COMPANIES, INC.

CHECK NUMBER

No. 70143360

5972701	DATE 05/04/94	2397-09
FIFTY AND 00/100*****		*****\$50.00
*****		*****
PAY TO THE ORDER OF	FLORIDA DEPT OF ENVIRONMENTAL PROTECTION 2600 BLAIR STONE ROAD TALLAHASSEE FL 32399-6564	VOID 90 DAYS AFTER ISSUANCE
CHEMICAL BANK DELAWARE WILMINGTON, DELAWARE		





**ANHEUSER-BUSCH COMPANIES**

April 28, 1993

Mr. C. H. Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**PERMIT NO. AC 16-199113 - EXTENSION REQUEST (APRIL 14, 1993)  
METAL CONTAINER CORPORATION - JACKSONVILLE CAN PLANT**

Dear Mr. Fancy:

Attached please find a check for \$50.00 to cover the processing fee for the referenced request.

Sincerely,

Dean E. Pusch  
Environmental Affairs Department

DEP:pm  
Attachment

427932

001031

RECEIVED  
DER - MAIL ROOM  
1993 APR 30 AM 9:07



ANHEUSER-BUSCH  
COMPANIES, INC.

CHECK NUMBER

No. 70107110

5972701

DATE 04/27/93

2397-09

FIFTY AND 00/100 \*\*\*\*\* \$50.00  
\*\*\*\*\*

PAY  
TO THE  
ORDER OF

FLORIDA DEPT OF ENVIRONMENTAL  
REGULATION  
2600 BLAIR STONE ROAD  
TALLHASSEE FL 32301

CHEMICAL BANK DELAWARE  
WILMINGTON, DELAWARE

*Gerald C. Meyer*  
TREASURER





P 062 922 003



**Receipt for Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to	
Dear Busch	
Street and No.	
Wheeler-Busch	
P.O., State and ZIP Code	
St. Louis, MO	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	4-16-93
AC 16-199113	

PS Form 3800, June 1991



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

April 15, 1993

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Dean E. Pusch  
Environmental Affairs  
Anheuser-Busch Companies  
Executive Offices  
One Busch Place  
St. Louis, MO 63118-1852

Dear Mr. Pusch:

RE: Request to Extend Permit AC 16-199113  
Metal Container Corporation  
Jacksonville Can Plant

The Bureau of Air Regulation received your April 14, 1993, request for the above referenced project. On October 30, 1991, Rule 17-4.050(4)(o), F.A.C., was changed to require a \$50 processing fee for a permit extension; therefore, we will not be able to take action on your request until the fee is received. If you have any questions, please call Patty Adams at (904)488-1344.

Sincerely,

*Patricia G. Adams*  
for C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/pa

cc: Teresa Heron



ANHEUSER-BUSCH COMPANIES

RECEIVED

April 13, 1993

APR 14 1993

Division of Air  
Resources Management

Mr. C. H. Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

METAL CONTAINER CORPORATION  
JACKSONVILLE CAN PLANT  
CONSTRUCTION PERMIT NO. AC 16-199113

Dear Mr. Fancy:

Metal Container Corporation requests that the expiration date for the referenced construction permit be extended for one year, from the current May 31, 1993 to May 31, 1994. This extension will allow sufficient time to optimize operation of the thermal oxidizer, allow Line 5 to further approach its production potential, and allow time for EPA to complete its capture efficiency test program and establish a test protocol that can be used to demonstrate compliance as required by permit condition.

Sincerely,

Dean E. Pusch  
Environmental Affairs

DEP:pm

3293

cc: J. Heron  
J. Cole, NE Dist.  
R. Robinson, BESD



ANHEUSER-BUSCH COMPANIES

RECEIVED

April 13, 1993

APR 14 1993

Division of Air Resources Management

Mr. C. H. Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

METAL CONTAINER CORPORATION  
JACKSONVILLE CAN PLANT  
CONSTRUCTION PERMIT NO. AC 16-199113

Dear Mr. Fancy:

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Sincerely,

*Dean E. Pusch*

*10, 1990  
Dec 24 / 1990*

Dean E. Pusch  
Environmental Affairs

DEP:pm

3293

*cc: J. Heron  
Q. Cole, NE Dist.  
K. Johnson, 2550*

*Artificial parameters to  
simulate a non-ducted  
exhaust orientation*

*Table 2-1  
2-2*

*Emerson Paulsen  
880-4310*

*cf 373*

STATE OF FLORIDA )  
COUNTY OF Leon )

Pursuant to the provisions of Section 215.26, or Section \_\_\_\_\_, Florida Statutes, I hereby apply for a refund and request that a State Warrant be drawn in favor of:

NAME: Metal Container Corporation

ADDRESS: 3636 South Geyer Road, Suite 400  
St. Louis, MO 63127-1218

AMOUNT: \$250.00

which represents moneys I paid into the State Treasury subject to refund, and to substantiate such claim the following facts are submitted:

Reason for Claim: Permit amendment not required. To be handled as an ASP (no fee required).

CERTIFIED TRUE AND CORRECT this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

Signature

\*Must be completed if authority is other than Section 215.26, Florida Statutes.

(FOR AGENCY USE ONLY)

(1) Agency recommends denial of above claim based on the following facts, including statutory authority for collection: \_\_\_\_\_

or

(2) Agency recommends approval of above claim and submits the following information to substantiate such claim. The amount recommended: \$ \_\_\_\_\_.

The amount requested above was originally deposited into the State Treasury, included in State Treasurer's Receipt # \_\_\_\_\_, dated \_\_\_\_\_.

NAME OF ACCOUNT:

SAMAS ACCOUNT CODE											

Statutory Authority for Collection \_\_\_\_\_

It is requested that payment be made from:

NAME OF ACCOUNT:

SAMAS ACCOUNT CODE											

CERTIFIED TRUE AND CORRECT this 1st day of September, 1992.

Dept. of Environmental Regulation  
Agency

Signature of Authorized Person

Chief, Bureau of Air Regulation  
Title

SECTION 215.26 STATES, IN PART: "APPLICATION FOR REFUNDS AS PROVIDED BY THIS SECTION SHALL BE FILED WITH THE COMPTROLLER, EXCEPT AS OTHERWISE PROVIDED HEREIN, WITHIN 3 YEARS AFTER THE RIGHT TO SUCH REFUND SHALL HAVE ACCRUED ELSE SUCH RIGHT SHALL BE BARRED." Three years is interpreted as meaning three years from the date of payment into the State Treasury.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

180793

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Metal Container Corporation Date Aug. 24, 1992  
Address 3636 South Geary Rd., Suite 400 Dollars \$ 250.00  
St. Louis, MO 63127-1214  
Applicant Name & Address Marlene Accardo, Mgr. Env. Engineering  
Source of Revenue CL # 011193 (AC16-199113 Amendment)  
Revenue Code 001031 Application Number AC 16-218139  
By Patricia G. Adams

Department of Environmental Regulation  
**Routing and Transmittal Slip**

To: (Name, Office, Location)

1.

Clay Patten

2.

3.

4.

Remarks:

This is a request for an ASP. They paid \$250 for a modification (amendment) - which I suppose an ASP would be -

He haven't been charging for ASP's per se - maybe we could as an amendment but \$250 would hardly cover costs -

Do you think we should refund metal container's fee?  
should refund

From:

Patten

Date

8-27-92

Phone



**Metal Container Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES



RECEIVED  
DER - MAIL ROOM  
1992 AUG 20 AM 11:26

August 12, 1992

Mr. Ron Roberson  
City of Jacksonville  
Regulatory & Environmental Services Department  
Air Quality Division  
421 West Church Street  
TownCentre - Suite 412  
Jacksonville, FL 32202

**RE: EXCEPTIONS AND APPROVALS OF ALTERNATE PROCEDURES  
AND REQUIREMENTS, SECTION 17-2.700(3)**  
Permit No. AC16-199113  
Metal Container Corporation  
1100 North Ellis Road  
Jacksonville, FL 32205-6275

Dear Mr. Roberson:

Metal Container Corporation requests suspension of the requirement for capture efficiency testing specified in Permit No. AC16-199113 until July 1, 1993. Specific Condition 14. of Permit No. AC16-199113 requires that compliance with VOC capture efficiency be determined by the total temporary enclosure (TTE) protocol described in a 4/16/90 EPA Memorandum ("Guidelines for Developing a State Protocol for the Measurement of Capture Efficiency"). This request is based on a recent EPA decision to re-evaluate TTE methodology, see enclosed 3/20/92 letter from John S. Setiz. Information required under 17-2.700(3) is presented below.

1. Source :  
Production line 5.



**Metal Container Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

011193

CHECK DATE	CHECK NUMBER
7/20/92	11193

VOID 180 DAYS AFTER ISSUANCE

Manufacturers Hanover Bank (Delaware)  
1201 Market Street  
Wilmington, Delaware 19801

Two Hundred Fifty and 00/100th

TO THE ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS

**PAY THIS AMOUNT**

\$\*\*\*\*\*250.00

METAL CONTAINER CORPORATION

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE



BEST AVAILABLE COPY

ANHEUSER-BUSCH COMPANIES

ENVIRONMENTAL ENGINEERING & SITE SERVICES DEPARTMENT

ST. LOUIS, MISSOURI

FACSIMILE TRANSMITTAL

314/577-1032 (FAX)

DATE: 10/04/81

TO: G. FREDSON LEWIS

FLORIDA DEPT. OF ENV. REGULATION  
904-922-6979

FROM: DEAN F. BUSCH

NUMBER OF PAGES (INCLUDING THIS PAGE):

9

COMMENTS:



**ANHEUSER-BUSCH COMPANIES**

October 4, 1991

**RECEIVED**

Mr. G. Preston Lewis, P.E.  
Bureau of Air Regulation  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**OCT 7 1991**

Bureau of  
Air Regulation

**Re: Metal Container Corporation -  
Jacksonville Can Plant  
DER File No. AC 16-119113**

Dear Mr. Lewis:

The Technical Evaluation and Preliminary Determination and the proposed permit for the referenced application has been reviewed and the following comments are submitted.

Technical Evaluation and Preliminary Determination

Section 111 Project Description -- Emissions of 5.82 tons per year are attributed to respray operations by DER. Actually, 0.97 tons per year is due to respray and the remaining 4.85 tons per year is conservatively estimated from parts cleaning operations (see August 12, 1991 submittal).

Section V.1 Emission Limitations -- The largest portion of VOC emissions will result from n-butyl alcohol and butyl cellosolve, which are components of the coatings.

Table 1 - VOC Allowable Emissions -- the monthly allowable emission rate should read 30.7 tons of VOC per month.

The inside spray emission limit should read 0.88 kilograms of VOC per liter of solids. The value listed, 0.85, was carried through from a typographical error contained in the August 30, 1991 submittal, which should have read 0.88. The August 12, 1991 submittal contained the correct value, as does the existing permit for the facility. Attached are the supplier certified VOC data sheet and MSDS for the inside spray which indicate the 0.88 kg/l of solids. This limit ensures compliance with the New Source Performance Standards for the Beverage Can Industry.

Table 2 - VOC Net Emission Changes -- "Respray Operations" should read "Respray and Parts Cleaning Operations."

Proposed Permit

Specific Condition No. 1 - Emission Limits -- The VOC limit for inside spray should read "0.88" kilogram per liter of solids as indicated in the earlier comment. See the attached VOC data sheet for verification.

Specific Condition No. 12 -- the production rates, can mix, and fraction of cans basecoated shown in this condition are annual average values. The second sentence of this condition should read, "The following parameters shall not be exceeded on an annual average basis."

Specific Condition No. 14 -- to allow the flexibility to design an effective compliance monitoring program based on EPA's Method 25 and Method 25A, the following wording is suggested:

"Compliance with the VOC emission limits for this facility shall be determined using EPA Method 25 and/or 25A for capture and destruction efficiencies, and EPA Method 24 or 24A for VOC content. The monitoring protocol shall be submitted to the Department for prior approval. The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by reference in Section 17-2.700, F.A.C."

Specific Condition No. 16 -- it is assumed that this condition refers to the oil mist control system. Clarification is requested.

Specific Condition 27 -- the annual reporting requirements for VOC emissions should read, "..., VOC emissions (tons/yr, tons/month, and tons/day, ...)" to be consistent with the emission limits specified in Specific Conditions 2 through 6.

The following wording is suggested for the second sentence of this condition to provide additional clarity:

"These reports shall include, but are not limited to the following: coating and solvent utilization rates (lbs/yr), manufacturer's certification of VOC content

of coatings, VOC emissions (tons/yr, tons/month, and tons/day), VOC emissions per line, compliance test results, VOC content of coatings and solvents, quantity of coating and solvent waste disposed, hours of operation, fuel utilization, quantity of cans produced, thermal oxidizer operating temperature, destruction and capture efficiency, etc."

Please don't hesitate to call me at (314) 577-4162 with any questions.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.



Dean E. Pusch  
Sr. Environmental Scientist  
Attachment

DEP:cd  
10191

cc: J. DeLeon  
A. Kutyma, NE Dist.  
R. Robinson, BESD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

COATING SUPPLIER

VOC DATA SHEET

COATING MANUFACTURER: THE GLIDDEN COMPANY

COATING IDENTIFICATION: 640-C-554

BATCH IDENTIFICATION:

SUPPLIED TO: Metal Container Corporation

PROPERTIES OF THE COATING AS SUPPLIED\* TO THE CUSTOMER:

A.	COATING DENSITY ( $D_C$ ) <sub>S</sub> :	8.50	LB/GAL.	1.018	KG/L
	( X ) ASTM D1475	( )	OTHER**		
B.	TOTAL VOLATILES ( $W_V$ ) <sub>S</sub> :	79.30	WEIGHT PERCENT		
	( X ) ASTM D2369	( )	OTHER**		
C.	WATER CONTENT: 1. ( $W_W$ ) <sub>S</sub>	64.85	WEIGHT PERCENT		
	( X ) ASTM D3792	( )	ASTM D4017	( )	OTHER**
	2. ( $V_W$ ) <sub>S</sub>	66.17	VOLUME PERCENT		
	( X ) CALCULATED	( )	OTHER**		
D.	ORGANIC VOLATILES ( $W_O$ ) <sub>S</sub> :	14.45	WEIGHT PERCENT		
E.	NON-VOLATILES CONTENT ( $V_N$ ) <sub>S</sub> :	16.62	VOLUME PERCENT		
F.	VOC CONTENT ( $VOC$ ) <sub>S</sub> :	3.6	LB/GAL LESS WATER	0.44	KG/L LESS WATER
		7.4	LB/GAL SOLIDS	0.88	KG/L SOLIDS

REMARKS: TO CALCULATE LBS. OF VOC'S GENERATED ON AN ANNUAL BASIS:

$$(VOC \text{ LB/GALLON SOLIDS}) \times (\text{GALLONS USED}) \times [(\mathcal{V}_N)_S]_{/100} = \text{LBS VOC GENERATED}$$

\* THE SUBSCRIPT "S" DENOTES EACH VALUE IS FOR THE "AS SUPPLIED" COATING.

\*\* IDENTIFY METHODS USED UNDER "REMARKS".

ATO

SIGNED: Michael L. Martin DATE 01/25/90  
Michael L. Martin

## MATERIAL SAFETY DATA SHEET

Glidden

THE GLIDDEN COMPANY

640 C 554

PAGE 1

## SECTION I

CODE IDENTIFICATION 640 C 554 DATE PRINTED 01/25/90  
 PRODUCT IDENTIFICATION W/R SPRAY LINEA

## SECTION II-A - HAZARDOUS INGREDIENTS

CHEMICAL NAME: ETHANOL, 2-(DIMETHYLAMINO)- WT. %: 1-7  
 COMMON NAME : DIMETHYLAMINOETHANOL SARA? NO  
 CAS NUMBER : 108-01-0 LD50: 2340.00 MG/KG ORL RAT CERCLA? NO  
 CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO  
 ACGIH (TWA) : NOT EST. OSHA (TWA) : NOT EST.  
 ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.  
 OSHA (SKIN) : SKIN CEILING: SUPP REC STD. : NOT EST.

CHEMICAL NAME: 1-BUTANOL WT. %: 5-10  
 COMMON NAME : BUTYL ALCOHOL SARA? \*\*  
 CAS NUMBER : 71-36-3 LD50: 4400.00 MG/KG ORL RAT CERCLA? \*\*\*  
 CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO  
 ACGIH (TWA) : SKIN C 50 PPM OSHA (TWA) : NOT EST.  
 ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.  
 OSHA (SKIN) : SKIN CEILING: 150MG/M3 SUPP REC STD. : NOT EST.

CHEMICAL NAME: ETHANOL, 2-BUTOXY- WT. %: 5-10  
 COMMON NAME : BUTYL CELLOSOLVE SARA? \*\*  
 CAS NUMBER : 111-76-2 LD50: 530.00 MG/KG ORL RAT CERCLA? NO  
 CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO  
 ACGIH (TWA) : SKIN 25 PPM OSHA (TWA) : 120 MG/M3  
 ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.  
 OSHA (SKIN) : SKIN CEILING: SUPP REC STD. : NOT EST.

SKIN - DENOTES THAT ADDITIONAL EXPOSURE, OVER AND ABOVE  
 AIRBORNE EXPOSURE, MAY RESULT FROM SKIN ABSORPTION.  
 C-CEILING - THE CONCENTRATION THAT SHOULD NOT BE EXCEEDED  
 EVEN INSTANTANEOUSLY.  
 \*\* THIS CHEMICAL IS SUBJECT TO SARA 313 REPORTING  
 REQUIREMENTS (40 CFR PART 372).  
 \*\*\* THIS CHEMICAL IS A HAZARDOUS SUBSTANCE AS DEFINED BY  
 CERCLA (40 CFR PART 302.4).

## SECTION II-B - OTHER INGREDIENTS

CHEMICAL NAME: EPOXY-STYRENE/ACRYLIC COPOLYMER WT. %: 10-20  
 COMMON NAME: EPOXY ACRYLIC  
 CAS NUMBER : 23262-39-7

CHEMICAL NAME: WATER WT. %: 60-70  
 COMMON NAME: WATER, DEIONIZED  
 CAS NUMBER : 7732-18-5

## SECTION III - PHYSICAL DATA

VAPOR PRESSURE NOT DETERMINED SPECIFIC GRAVITY 1.020  
 BOILING RANGE 243 - 343 F WEIGHT PER GALLON 8.47  
 %VOLATILE BY VOLUME 85.00  
 PHYSICAL STATE LIQUID COLOR CLEAR  
 SOLUBILITY IN WATER NOT DETERMINED PH 7.30



PAINTS - THE WORLD LEADER

**MATERIAL SAFETY DATA SHEET**
 **THE GLIDDEN COMPANY**

10000 AVENUE  
 WILSON, CALIFORNIA  
 92595 TELEPHONE (714) 826-8866

THIS SHEET IS A SUMMARY OF THE INFORMATION AVAILABLE TO THE GENERAL PUBLIC. IT IS NOT INTENDED TO BE USED AS A SUBSTITUTE FOR THE ORIGINAL PRODUCT SPECIFICATION SHEET OR THE ORIGINAL SAFETY DATA SHEET. FOR MORE INFORMATION, CONTACT THE MANUFACTURER OR THE NATIONAL FIRE PROTECTION ASSOCIATION, 1190 L STREET, N.W., WASHINGTON, D.C. 20045. 640 C 554 PAGE 2

---

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**


---

FLASH POINT (SETA) 104 F LOWER EXPLOSIVE LIMIT 3.0  
 UPPER EXPLOSIVE LIMIT NOT DETERMINED

**EXTINGUISHING MEDIA**

DRY CHEMICAL OR FOAM

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.  
 VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.  
 MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

**SPECIAL FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.

---

**SECTION V - HEALTH HAZARD DATA**


---

**PRIMARY ROUTE(S) OF EXPOSURE**

NOT DETERMINED

**EFFECTS OF OVEREXPOSURE**

**INHALATION** IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO MUCCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTEADEDNESS, HEADACHE, NAUSEA, VOMITING, MENTAL APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS.

**SKIN CONTACT** IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, ABSORPTION THROUGH SKIN, ALLERGIC RESPONSE, SEVERE SKIN IRRITATION, SEVERE SKIN IRRITATION OR BURNS.

**EYE CONTACT** IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE REDNESS OF EYES, ABSORPTION THROUGH SKIN, ALLERGIC RESPONSE, SEVERE EYE IRRITATION, SEVERE EYE IRRITATION OR BURNS, CORNEAL INJURY.

**INGESTION** INGESTION MAY CAUSE FATIGUE, DIZZINESS AND/OR LIGHTEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, DIGESTIVE SYSTEM PROBLEMS, VISUAL DISTURBANCES, MENTAL APATHY, LIVER DAMAGE, KIDNEY DAMAGE.

**SUPPLEMENTAL HEALTH INFORMATION**

OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO BLOOD. MAY BE ABSORBED THROUGH SKIN.  
 NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

EYE, SKIN, RESPIRATORY DISORDERS  
 KIDNEY DISORDERS



PAINTS - THE WORLD LEADER

**MATERIAL SAFETY DATA SHEET**

100 BROAD AVENUE  
 NEW BRUNSWICK, N.J. 07102  
 TELEPHONE (609) 826-4500

REGISTERED UNDER THE HAZARDOUS INFORMATION STANDARD SYSTEM

640 C 554

PAGE 3

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**SECTION VI - FIRST AID PROCEDURES**


---

**INHALATION** REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

**SKIN CONTACT** WASH OFF QUICKLY WITH PLENTY OF WATER, THEN SOAP AND WATER; REMOVE CONTAMINATED CLOTHING. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. DISPOSE OF CONTAMINATED LEATHER ITEMS, SUCH AS SHOES AND BELTS.

**EYE CONTACT** FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. OBTAIN EMERGENCY MEDICAL TREATMENT.

**INGESTION** IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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**SECTION VII - REACTIVITY DATA**


---

**STABILITY** STABLE

**INCOMPATIBILITY** OXIDIZERS, ACIDS, BASES, ALDEHYDES, ISOCYANATES.

**CONDITIONS TO AVOID** ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT.

**HAZARDOUS DECOMPOSITION PRODUCTS** CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN.

**HAZARDOUS POLYMERIZATION** WILL NOT OCCUR

---

**SECTION VIII - SPILL OR LEAK PROCEDURES**


---

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.  
 ELIMINATE ALL SOURCES OF IGNITION.  
 VENTILATE AREA.  
 SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS.  
 EVACUATE ALL UNNECESSARY PERSONNEL.  
 TOXIC TO FISH.  
 LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGE MATERIAL AND RINSE WATER OUT OF SEWERS OR WATER COURSES.

**WASTE DISPOSAL** DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.





BEST AVAILABLE COPY  
**MATERIAL SAFETY DATA SHEET**



100 AVENUE  
LANSING, MICHIGAN 48206  
TELEPHONE NO. 313-926-9566

This material is intended for use as a base for...  
...with OSHA HAZARD COMMUNICATION STANDARD 1910.1201  
640 C 554 PAGE 4

-----  
**SECTION IX - SPECIAL PROTECTION INFORMATION**  
-----

**RESPIRATORY PROTECTION**

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE STANDARDS. WHERE RESPIRATORY PROTECTION IS REQUIRED, USE ONLY NIOSH/MSHA APPROVED RESPIRATORS IN ACCORDANCE WITH OSHA STANDARD 29 CFR 1910.134.

**VENTILATION**

PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.

**PERSONAL PROTECTIVE EQUIPMENT**

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES, IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, FACE SHIELD, APRON.

-----  
**SECTION X - SPECIAL PRECAUTIONS**  
-----

**HANDLING AND STORAGE**

STORE BELOW 100 F.  
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.  
DO NOT STORE IN ALUMINUM CONTAINERS.

**OTHER PRECAUTIONS**

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.

**DOT**

PAINT, COMBUSTIBLE LIQUID, UN 1263



**Metal Container  
Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

**RECEIVED**

**SEP 30 1991**

Division of Air  
Resources Management

September 26, 1991

Bureau of Air Regulation  
Florida Department of  
Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

ATTN: Mr. Preston Lewis

Gentlemen:

Enclosed is proof of publication of the Notice of Intent to issue a permit for Line 5 at Metal Container Corporation, 1100 North Ellis Road, Jacksonville, Florida.

If I can be of any assistance in this matter, please contact me.

Sincerely,

METAL CONTAINER CORPORATION

James A. Reed  
Mfg. Engineering Manager

JAR902.91/rjp

cc: Marlene Accardo  
Dean Pusch

*J. DeWitt  
A. Rutyna, NEWIST  
R. Robinson, BESD*



**Metal Container Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

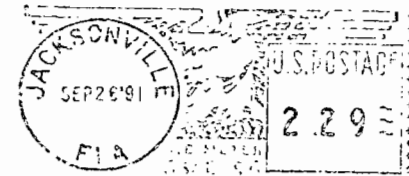
1100 North Ellis Road  
Jacksonville, FL 32205-6275

*Fold at line over top of envelope to the right  
of the return address.*

**CERTIFIED**

P 423 136 726

**MAIL**



Bureau of Air Regulation  
Florida Department of  
Environmental Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

ATTN: Mr. Preston Lewis



# FLORIDA PUBLISHING COMPANY

Publisher

JACKSONVILLE, DUVAL COUNTY, FLORIDA

STATE OF FLORIDA }  
COUNTY OF DUVAL }

Before the undersigned authority personally appeared \_\_\_\_\_

Janie Joeriman who on oath says that he is

LEGAL ADV REP of The Florida Times-Union,

a daily newspaper published at Jacksonville in Duval County, Florida; that the  
attached copy of advertisement, being a Legal Notice

in the matter of Environmental Regulation Notice of  
Intent to Issue Permit

in the \_\_\_\_\_ Court,

was published in THE FLORIDA TIMES-UNION in the issues of \_\_\_\_\_  
September 23, 1991

Affiant further says that the said The Florida Times-Union is a newspaper published at Jacksonville, in said Duval County, Florida, and that the said newspaper has heretofore been continuously published in said Duval County, Florida, The Florida Times-Union each day, has been entered as second class mail matter at the postoffice in Jacksonville, in said Duval County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Sworn to and subscribed before me  
this \_\_\_\_\_ day of \_\_\_\_\_

25th day of September, 1991  
Notary Public  
State of Florida at Large.

Janie Joeriman

My Commission Expires \_\_\_\_\_

Notary Public State of Florida

DA 444 My Commission Expires Dec. 2, 1994

Bonjour Inc. Troy Fein Insurance Inc.

STATE OF FLORIDA

DEPARTMENT OF

ENVIRONMENTAL REGULATION

NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Regulation gives notice of its intent to issue a permit to Anheuser-Busch Companies, Inc., Metal Container Corporation, 1100 North Ellis Road, Jacksonville, Florida 32206-6257, to construct/modify can coating lines numbers 2,3,4,5, and the oil mist control system. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules statutes petitioner contends require reversal or modification of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F. S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation, Bureau of Air regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

Department of Environmental Regulation, Northeast District, 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256-7577

Duval County Dept. of Health, Welfare, & Bio-Environmental Services, 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

**BEST AVAILABLE COPY**

Put your address in the "RETURN TO" Space on the reverse side. Failure to do so, prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. <span style="float:right">2. <input type="checkbox"/> Restricted Delivery</span> <span style="display: block; text-align: center;">↑(Extra charge)↑</span>	
3. Article Addressed to: Mr. Dean E. Busch Anheuser-Busch Co., Inc. Executive Office One Busch Place (202-4) St. Louis, Missouri <span style="float:right">63118</span>	4. Article Number P 832 538 960 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail Always obtain signature of addressee or agent and <u>DATE DELIVERED.</u>
5. Signature - Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Gary Schaefer</i>	
7. Date of Delivery	

P 832 538 960

**Certified Mail Receipt**  
 No Insurance Coverage Provided  
 Do not use for International Mail  
 (See Reverse)

Sent to <i>Dean Busch</i>	
Street & No. <i>Anheuser-Busch Co</i>	
P.O. State & Zip Code <i>St. Louis, Missouri</i>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	<i>9-19-91</i>
<i>P.C. 16-119113</i>	

PS Form 3800, June 1990



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

September 19, 1991

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Dean E. Pusch, Sr. Environmental Scientist  
Anheuser-Busch Companies, Inc.  
Executive Office  
One Busch Place (202-4)  
St. Louis, Missouri 63118

Dear Mr. Lanham:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct/modify can coating lines numbers 2, 3, 4, 5, and the oil mist control system.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Preston Lewis of the Bureau of Air Regulation.

Sincerely,

for C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/TH/plm

Attachments

c: Andrew G. Kutyna, DER  
Robert G. Keutz, P.E.  
Darrel J. Hall, BESD

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

CERTIFIED MAIL

In the Matter of an  
Application for Permit by:

DER File No. AC 16-119113  
Duval County

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
1100 North Ellis Road  
Jacksonville, Florida 32206-6257

---

INTENT TO ISSUE

The Department of Environmental Regulation gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Anheuser-Busch Companies, Inc., applied on June 21, 1991, to the Department of Environmental Regulation for a permit to construct/modify can coating lines numbers 2, 3, 4, 5, and the oil mist control system. Metal Container Corporation is located at 1100 North Ellis Road in Jacksonville, Duval County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

Pursuant to Section 403.815, Florida Statutes and Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding

(hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of their receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this intent. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this intent in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this



proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*Barry D. Andrews*  
fr- C. H. Fancy, P.E., Chief  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399  
904-488-1344

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE and all copies were mailed by certified mail before the close of business on 9-19-91 to the listed persons.

Clerk Stamp

**FILING AND ACKNOWLEDGMENT**  
FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Keri Tolber*      9-19-91  
Clerk                              Date

Copies furnished to:  
Andrew G. Kutyna, DER  
Robert G. Keutz, P.E.  
Darrel J. Hall, BESD

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF INTENT TO ISSUE PERMIT

The Department of Environmental Regulation gives notice of its intent to issue a permit to Anheuser-Busch Companies, Inc., Metal Container Corporation, 1100 North Ellis Road, Jacksonville, Florida 32206-6257, to construct/modify can coating lines numbers 2, 3, 4, 5, and the oil mist control system. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation  
Bureau of Air Regulation  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Department of Environmental Regulation  
Northeast District  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7577

Duval County Dept. of Health, Welfare  
& Bio-Environmental Services  
421 West Church Street, Suite 412  
Jacksonville, Florida 32202-4111

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation  
and  
Preliminary Determination

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
Duval County  
Jacksonville, Florida

Can Coating Lines Nos. 2, 3, 4, & 5  
and  
Oil Mist Control System

Permit Number: AC 16-119113

Florida Department of Environmental Regulation  
Division of Air Resources Management  
Bureau of Air Regulation

September 19, 1991

I. SYNOPSIS OF APPLICATION

I.1 Applicant Name and Address

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
1100 North Ellis Road  
Jacksonville, Florida 32206-6257

I.2 Reviewing and Process Schedule

Date of Receipt of Application: July 21, 1991.

30 Days Completeness Review: August 24, 1991.

Additional Information Received: August 14, 1991 and  
September 3, 1991.

Application Completeness Day: August 14, 1991 (can coating  
lines), September 3, 1991 (oil mist control system).

II. FACILITY INFORMATION

II.1 Facility Location

Metal Container Corporation is located at 1100 North Ellis Road in Jacksonville, Duval County, Florida. The UTM coordinates are zone 17, 428.440 km East and 3356.377 km North.

II.2 Standard Industrial Classification Code

This facility is classified as follows:

Major Group No. - 34 Fabricated Metal Products, Except  
Machinery and Transportation Equipment.

Group No. - 341 Metal Cans and Shipping Containers

Industry No. - 3411 Metal Cans

II.3 Facility Category

Metal Container Corporation (MCC) is classified as a major emitting facility for volatile organic compounds (VOC). The total VOC permitted emissions for this facility was 376 tons per year. The proposed project will reduce plant-wide emissions by 8 tons per year. The total permitted emissions for this facility shall not exceed 368 tons per year as a result of this modification.

III. PROJECT DESCRIPTION

Metal Container Corporation (MCC) plans to install a new can production line, designated Line No. 5. Existing production Line 1

will be shut down and existing Line 2 will be reconfigured to produce 16 ounces as well as 12 ounce cans. Existing Line 3 and Line 4 will remain unchanged. The two existing thermal oxidizers will be replaced by one regenerative thermal oxidizer system. These modifications will include: a) An increase of 38.69 tons per year (Line No. 5), 4.21 tons per year (Line No. 2), and 5.82 tons per year (respray operations); b) A decrease of 34.5 tons per year (shut down of Line No. 1), a decrease in permitted emissions of 22.10 tons per year (Line No. 3 and Line No. 4); c) A net reduction of 8 tons per year on the total plant-wide permitted emissions is expected as a result of these modifications.

In addition to the modification to the can lines described above, MCC will be installing an oil mist control system as part of this project. Particulate matter emissions are expected not to exceed 14.5 tons per year. Oil mist will be controlled with Munters oil mist eliminator units, which are high efficiency filters for aerosol particulates.

Attached is a diagram showing the plant configuration and the ducting of the different equipment to the thermal oxidizer after the proposed changes are completed. This diagram also includes all modifications accomplished at the facility (1981-1991).

### III.1 Background Information

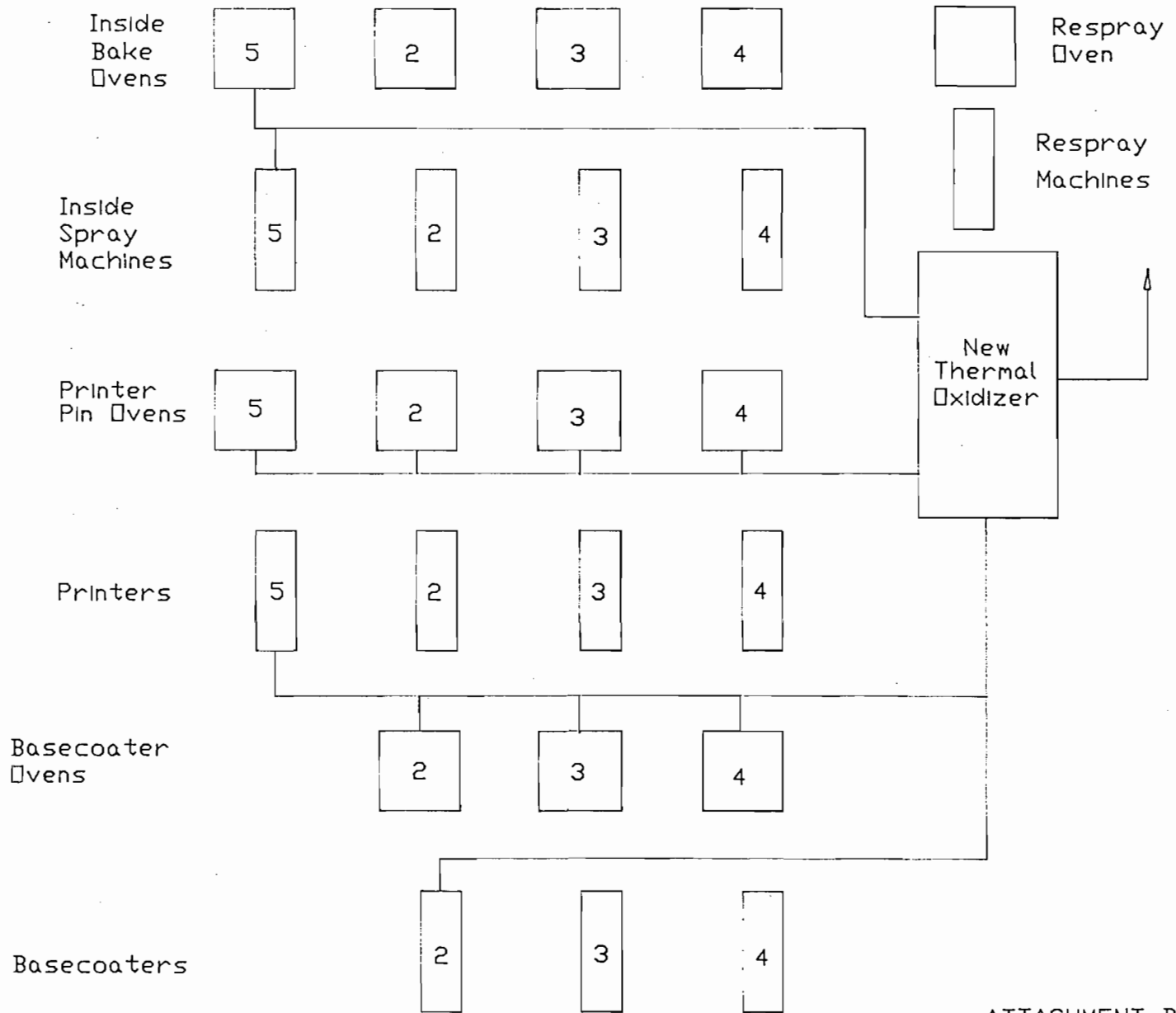
The following is a list of the chronological activities that have occurred at the plant since 1981.

o 1981 - The plant switched to water based coating technology. The Department determined this year to be the baseline date for contemporaneous increases or decreases. Actual emissions of 315.5 TPY plus RACT credit of 48.0 TPY formed the baseline of 363.5 TPY. Previously, the plant used solvent-based coatings and controlled VOC by thermal oxidation. Application renewals for operating permit were submitted and permits to operate were issued on October 29, 1981 (AO 16-44656, 57, 58 and 59). Applications to construct overvarnish units on Can Coating Lines 1 and 2 were submitted on November 18, 1981.

o 1982 - Permits to construct (overvarnish) on Can Coating Lines 1 and 2 were issued (AC 16-50417, 18). These permits allowed Can Coating Lines 1 and 2 the use of overvarnish on the outside surface of white basecoating cans in order to increase the can thickness to alleviate abrasions problems encountered during shipping of the product. Emissions level increase of 45.1 tons per year VOC was subject to limited new source review requirements contained in F.A.C. Rule 17-2.510(3)(a)1.a.(ii).

Certificates of Completion of Construction were submitted on April 23, 1982, for AC 16-50417, 18. Permit to operate the overvarnish unit on Lines 1 and 2 were issued (AO 16-55208, 10). They expired on May 31, 1987.

METAL CONTAINER CORPORATION  
 JACKSONVILLE, FLORIDA  
 AFTER LINE 5 ADDITION



Applications to construct overvarnish units on Can Coating Lines 3 and 4 were submitted on July 1, 1982. These lines were permitted for the addition of a roll coating unit to the existing dry offset lithography unit. Permits to construct (overvarnish) on Can Coating Lines 3 and 4 were issued (AC 16-57752, 53). Total plant emissions were limited to 403.5 tons of VOC per year to avoid a significant net emissions increase. Certificates of Completion of Construction were submitted for AC 16-57752 and -57753 on October 21, 1982. Permits to operate Can Coating Lines 1, 2, 3, and 4 (AO 16-55208, -62285, and -62287), including overvarnish units on all lines, were issued on December 1, 1982, and expired on May 31, 1987.

- o 1984 - Necker/Flanger Lube Reduction.

- o 1985 - Request to modernize line speeds from 950 to 1,400 cans per minute for Can Coating Lines 2, 3, and 4. Can Coating Line No. 1 was to remain as a back-up line. Total permitted emissions remained at 403.5 tons VOC per year, no significant emission increase occurred.

- o 1986 - Specific Conditions 2 and 4 of Construction Permit Nos. AC 16-57752 and -57753 were modified to reflect modernized lines. On August 18, 1986, MCC requested to reinstate Line No. 1 from a standby to a full-time basis and to increase the speed of the line to 1,000 cans per minute. The overvarnish and bottom varnish operations from the three modernized lines were ducted to the line thermal oxidizer (T.O.) No. 2 in order to provide an offset of 45.7 tons per year. The application was submitted on November 26, 1986. On September 30, 1986, MCC requested approval of a schedule for start-up and emissions testing of thermal oxidizer Nos. 1 and 2. This request was approved on October 6, 1986.

- o 1987 - Additional information received on January 21, 1987, for the modification of Can Coating Line No. 1. On January 22, 1987, the schedule for start-up and emission testing program was extended from February to April 1987. On February 6, 1987, MCC requested approval to begin installation of the necessary duct work to vent the three basecoater oven exhausts to the existing thermal oxidizer. This request was approved on March 4, 1987. On March 30, 1987, the schedule for start-up and emission testing program was extended from April 1, 1987, to October 1, 1987. On July 21, 1987, a permit was issued for Can Coating Line No. 1. On October 22, 1987, a request to extend the expiration date to July, 1988 of permit AC 16-127873 was approved.

- o 1988 - On March 8, 1988, a request to include the respray machine and to increase the maximum daily emissions for Can Coating No. 1 to 0.19 tons was approved. On April 8, 1988 a request to extend the expiration of permit No. AC 16-127873 to October 1, 1988, was approved. The company was finalizing connection of the duct work from the inside respray machine into T.O. No. 1, and the stack test was pending. On October 5, 1988, a request to extend



the expiration date of permit AC 16-127873 was approved in order for the company to complete engineering modifications to improve capture efficiency and the required source test.

o 1989 - On April 20, 1989, a letter was received explaining the company's effort to improve capture and destruction efficiencies. On June 20, 1990, a letter was received from the Bio-Environmental Services Division, which included Anheuser-Busch's letters of May 4, 1990, and September 22, 1989. The Company's letter dated May 4, 1990, was to request permit AC 16-127873 be modified to reflect some internal changes proposed. The Company's letter dated September 22, 1989 was to request amendment of operating permits AO 16-164835, 16-134410, 16-141581 and 16-141580.

o 1990 - On July 24, 1990, the Bureau of Air Regulation responded to Anheuser-Busch requesting the Company to submit a complete application for permit to construct Can Coating Lines No. 1, 2, 3, and 4. On October 11, 1990, the Company submitted an application requesting internal changes to Lines No. 1 and 2, including the facility's modifications for the last ten years.

o 1991 - Permit No. AC 16-187863 was issued. This permit incorporated all modifications performed at the facility for the last ten years. Total plant-wide emissions were reduced by 27.50 tons per year. Total permitted emissions for the facility were 376 tons per year.

o 1991 - Permit No. AC 16-119113 (current proposal). This permit will involve the construction of Line No. 5, the modification of Line No. 2 and the shut down of Line No. 1. Total permitted emissions for the facility will be 368 tons per year. In addition to this modification, an oil mist control system will be installed to control particulate matter emissions from the can body makers.

A summary of the annual VOC emission changes are shown below:

<u>Year</u>	<u>Allowable VOC Emissions (TPY)</u>
1980	366.3
1981	315.5
1982	363.5
	403.5
1983-86	403.5
1987-90	400.3
1991 (June)	376.0
1991 (September)	368.0

#### IV. RULE APPLICABILITY

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Rules 17-2 and 17-4.

Metal Container Corporation (MCC) is located in an area (Duval County) currently designated nonattainment for ozone.

In 1987 a modification to Can Coating Line No. 1 was reviewed under federal rules (40 CFR 51, Vol. 233), and F.A.C. Rule 17-2.510, New Source Review (NSR) for nonattainment areas. F.A.C. Rule 17-2.510 did not require the full nonattainment NSR since an overall net reduction of emissions (45.7 TPY) from the facility was expected. However, federal rules (netting individual units in a nonattainment area, in this case, Line No. 1 with an increase of 42.5 TPY) required the application of LAER. Therefore, it was determined that the application of thermal oxidizers to control emissions from Can Coating Lines No. 1 (thermal oxidizer No. 1) 2, 3, and 4 (thermal oxidizer No. 2) in conjunction with low solvent technology was LAER. This LAER determination assured compliance with both state (F.A.C. Rule 17-2.510) and federal rules (40 CFR 51, Vol. No. 233, Emissions Trading Policy Statement).

This project, as proposed, is exempt from federal and state regulations for NSR for nonattainment areas since there is no net increase of emissions either at the plant as a whole or at the individual emitting units (Line 5 and Line 2) as stated in F.A.C. Rule 17-2.510 and/or 40 CFR 51, Vol. No. 233, Emissions Trading Policy Statement.

Presently, this facility is being reviewed in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment requirements.

This facility shall comply with applicable provisions of F.A.C. Rule 17-2.650(1)(f)(1), Reasonably Available Control Technology (RACT) for Can Coating Operations; F.A.C. Rule 17-2.620, General Pollutant Emission Limiting Standards; F.A.C. Rule 17-2.660, New Source Performance Standard for Beverage Can Surface Coating Industry, 40 CFR 60, Subpart WW, and F.A.C. Rule 17-2.700, Emission Test Procedures.

#### V. SOURCE IMPACT ANALYSIS

##### V.1 Emission Limitations

The operation of the can coating facility will produce emissions of volatile organic compounds to the atmosphere.

The largest portion of the VOC emissions will result from methyl ethyl ketone, methyl chloroform and butyl cellosolve, which are components of the coatings.

The following summary shows the permitted emissions and the net emission changes for this facility as a result of this modification. These permitted emissions are in compliance with all applicable requirements of F.A.C. Rule 17-2 and New Source Performance Standards for Beverage Can Surface Coating Industry, 40 CFR 60, Subpart WW.

EMISSIONS SUMMARY  
Table 1  
VOC Allowable Emissions

The total permitted emissions for the whole plant shall not exceed 1.1 tons of VOC per day, 30.6 tons of VOC per month, and 368 tons of VOC per year.

Maximum permitted emissions for this Can Coating Line facility shall not exceed:

- 0.28 Kilogram of VOC per liter of coating solids from each two piece can exterior basecoating operation, except clear basecoat.
- 0.40 Kilogram of VOC per liter of coating solids from each two-piece can clear basecoatings operation and from each overvarnish coating operation.
- 0.85 Kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operations.

Table 2  
VOC Net Emission Changes

<u>Increases</u>	<u>TPY</u>
Line No. 2	4.21
Line No. 5	38.69
<u>Respray Operations</u>	<u>5.82</u>
<b>TOTAL</b>	<b>+48.72</b>
<u>Decreases</u>	
Line No. 1	34.5
Line No. 3	11.05
<u>Line No. 4</u>	<u>11.05</u>
<b>TOTAL</b>	<b>-56.60</b>
 <u>Net Emission Change</u>	 <u>-7.88</u>

Table 3  
Oil Mist Control System

Source	Control Efficiency	Pollutant lbs/hr	tons/yr
Four Munters Units	99%	3.3	14.5

Compliance for each coating line shall be determined as follows:

For any 24-hour period, the total actual VOC emissions shall be calculated from daily units of production records (e.g., number of each type of can, sheet, etc.), application rates of each coating (e.g., gallons/units of production), solvent and solids content of each coating (kilogram of VOC per liter of coating solids), and control efficiency.

On an annual basis, compliance with the VOC emission rate from the thermal oxidizer shall be determined by EPA Reference Method 25, or any other method approved by the Department. Reporting and recordkeeping requirements shall be as described in 40 CFR 60.495, NSPS for Beverage Can Surface Coating Industry, Subpart WW.

#### V.2 Air Quality Analysis

From a technical review of the application, the Department has determined that the modification and operation of these sources will not have an adverse/significant impact on Florida's ambient air quality standards.

#### V.3 Air Toxics Information

Currently, the Department is developing acceptable ambient concentrations for toxic substances. Specifically, sources classified as Category A (carcinogens and highly toxic) and Category B (moderately toxic substances).

In the event toxic emission limits are set during the term of this permit or any subsequent permit which are different than the permitted emissions, the Department may seek modification pursuant to F.A.C. Rule 17-4.08.

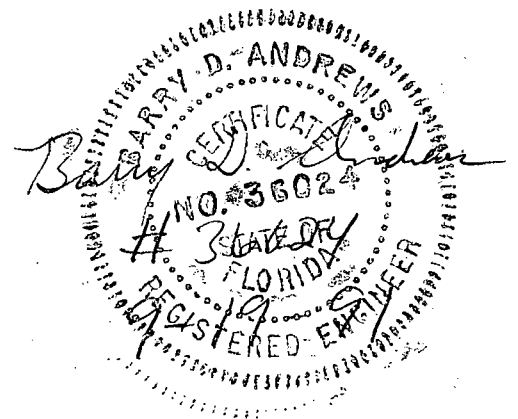
### VI. CONCLUSION

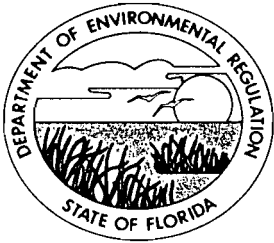
Based on the information provided by Anheuser-Busch Companies, Inc., the Department has reasonable assurance that the proposed project, as described in this evaluation, and subject to

the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.

Barry D. Antone  
# 36624  
9-19-91

the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

**PERMITTEE:**

Anheuser-Busch Companies, Inc.  
Metal Container Corporation  
1100 North Ellis Road  
Jacksonville, FL 32206-6257

Permit Number: AC 16-119113

Expiration Date: May 31, 1993

County: Duval

Latitude/Longitude: 30°20'15"N

81°40'42"W

Project: Can Coating Lines Nos.  
2, 3, 4, 5, and the Oil Mist  
Control System

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the construction/modification of Can Coating Lines Nos. 2, 3, 4, 5, and the oil mist control system to be located at Jacksonville, Duval County, Florida.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. DER Form 17-2.202(1) Application to Construct Air Pollution Sources, received on June 21, 1991.
2. Additional Information received on August 14, 1991 and September 3, 1991.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 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 processes 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 the 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.



PERMITTEE:

Anheuser-Busch Companies, Inc.

Permit Number: AC 16-119113

Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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 a reasonable time, 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 the 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 non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

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 403.73 and 403.111, 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 Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance 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. 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 the permit, copies of all reports required by this permit, and

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**GENERAL CONDITIONS:**

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:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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.

**SPECIFIC CONDITIONS:**

Emission Limits

1. Each coating line at this facility shall not discharge or cause the discharge of VOC that exceeds the following volume-weighted calendar-month average emissions:

- 0.28 Kilogram of VOC per liter of coating solids from each two piece can exterior basecoating operation, except clear basecoat.
- 0.40 Kilogram of VOC per liter of coating solids from each two-piece can clear basecoatings operation and from each overvarnish coating operation.
- 0.85 Kilogram of VOC per liter of coating solids from each two-piece can inside spray coating operations.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

2. Maximum total VOC emissions for Can Coating Line No. 2 shall not exceed 0.32 tons/day, 9.50 tons/month and 114 tons/year.
3. Maximum total VOC emissions for Can Coating Line No. 3 shall not exceed 0.29 tons/day, 8.7 tons/month and 105 tons/year.
4. Maximum total VOC emissions for Can Coating Line No. 4 shall not exceed 0.29 tons/day, 8.7 tons/month and 105 tons/year.
5. Maximum total VOC emissions for Can Coating Line No. 5 shall not exceed 0.11 tons/day, 3.2 tons/month and 38.7 tons/year.
6. Total volatile organic compounds (VOC) and organic solvents emissions for the entire facility shall not exceed 1.1 tons/day, 30.6 tons/month and 368 tons/year.
7. Unless the Department has determined other concentrations are required to protect public health and safety, predicted ambient air impact of any toxic pollutant (as listed in the MSDS submitted with the application) shall not exceed the concentration calculated by the following formula:

$$AAC = \frac{(OEL)}{\text{safety factor}}$$

where,

AAC = acceptable ambient concentration

Safety Factor = 50 for category B substances (8 hrs/day)  
100 for category A substances (8 hrs/day)  
210 for category B substances (24 hrs/day)  
420 for category A substances (24 hrs/day)

OEL = Occupational exposure level such as ACGIH, OSHA, and NIOSH published standards for toxic materials.

8. Visible emissions from this facility shall not exceed 20% opacity.
9. Particulate matter emissions from the oil mist control system shall not exceed 3.3 lbs/hr and 14.5 tons/yr.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

Operating Rates

10. The operating requirements for the regenerative thermal oxidizer are:

- A. A 95% minimum destruction efficiency.
- B. An 80% minimum capture efficiency.

11. This facility is allowed to operate continuously (8760 hours per year).

12. The permitted materials and utilization rates are as stated in the application. The following parameters shall not be exceeded:

Line No. 2 production: 1300 cans per minute  
All 16 oz cans  
1400 cans per minute  
All 12 oz cans  
85% of 16 oz cans basecoated

Line No. 3 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 4 production: 1400 cans per minute  
All 12 oz cans  
60% of cans basecoated

Line No. 5 production: 2160 cans per minute  
All 12 oz cans  
No basecoated cans

13. Any other operating parameters established during compliance testing and/or inspection that will confirm the proper operation of this facility shall be included in the operating permit.

Compliance Determination

14. Compliance with the VOC emission limits for this facility shall be determined by EPA Method 25 (destruction efficiency), Method 25A (Capture Efficiency), and EPA Method 24 or 24A (VOC content). The aforementioned Methods are contained in 40 CFR 60, Appendix A (July 1, 1989) and adopted by reference in Section 17-2.700, F.A.C.

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

Compliance with the VOC standards can also be determined by EPA approved protocol(s) as described in the EPA Memorandum dated April 16, 1990, entitled "Guidelines for Developing a State Protocol for the Measurement of Capture Efficiency" (copy attached). The permittee shall notify the Department and the Duval County Bio-Environmental Services Division (BESD) of the Method and/or protocol selected for prior approval before applying for an operating permit.

15. Daily and monthly compliance for this facility shall be demonstrated in accordance with 40 CFR 60, Subpart WW - Standards of Performance for the Beverage Can Surface Coating Industry.

16. Compliance with the V.E. standards for this facility shall be determined by EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources, as described in 40 CFR 60, Appendix A (July 1989). This V.E. test shall be performed during the VOC emission testing. The duration of the V.E. shall be at least 60 minutes.

17. Compliance with the particulate matter standard for the oil mist control system shall be determined by EPA Method 5, contained in 40 CFR 60, Appendix A and adopted by reference in F.A.C. 17-2.700.

18. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR, Appendix A (July 1989). Test results will be the average of 3 valid runs. This facility shall be operating between 90% and 100% of permitted capacity during the tests. The permittee shall notify the BESD office in writing at least 15 days in advance of the compliance test. Compliance test results shall be submitted to the BESD office no later than 45 days from the date of testing.

19. Compliance with the acceptable ambient concentrations (AAC) shall be demonstrated based on calculations certified by a professional engineer registered in Florida using actual operating conditions. Determination of the ambient concentration for organic compounds shall be determined by Department approval dispersion modeling. AAC calculations shall be made available upon request.

20. At the request of the BESD or the Department, the permittee or the coating manufacturer shall conduct an EPA Method No. 24 analyses

PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

on any coating, solvent or waste solvent specified. The enclosed Appendix B (EPA 450/3-84-019), if properly completed for each affected coating, may be submitted in lieu of the Method 24 or 24A tests. New coatings or the same coatings supplied by a different manufacturer shall be tested for VOC content using EPA Method 24 and 24A or the above mentioned Appendix B prior to initial use in production. Each coating shall be tested after it is diluted with the maximum amount of solvent used by the permittee for production. The use of a different coating with a higher than permitted NSPS VOC content is not allowed. Prior written notification is required in the event that the VOC content of a coating (not included in the application) increases above that of the previous coating in use. Notification shall be provided to the BESD and shall include EPA Method 24 or Appendix B test results on the VOC content of the proposed coating and solvent.

21. When the Department or the BESD, after investigation, has good reason (such as odor complaints, increased visible emissions, excess emissions, etc.), to conclude that any applicable emission standard contained in F.A.C. Chapter 17-2, or in this permit is being violated, it may require the owner or operator of the facility to conduct compliance tests which identify the nature and quantity of air pollutant emissions from the facility and to provide a report on the results of said tests to the Department.

Rule Requirements

22. This facility shall comply with all applicable provisions of Chapter 403, Florida Statutes, and Chapters 17-2 and 17-4, Florida Administrative Code.

23. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements and regulations (F.A.C. Rule 17-2.210(1)).

24. According to F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload, or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emissions control devices or systems deemed necessary and ordered by the Department. The following procedures shall be utilized to minimize pollutant emissions:

**PERMITTEE:**

**Anheuser-Busch Companies, Inc.**  
**SPECIFIC CONDITIONS:**

**Permit Number: AC 16-119113**  
**Expiration Date: May 31, 1993**

- maintain tightly fitting covers, lids, etc., on all containers of VOC when they are not being handled, tapped, etc.;
- prevent excessive air turbulence across exposed VOCs;
- where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc., of VOC so that it can be covered when not in use;
- all fittings, valve lines, etc., shall be properly maintained; and,
- all VOC spills shall be attended to immediately and the waste properly disposed of, recycled, etc.

25. This facility is subject to applicable provisions of VOC-RACT Rule 17-2.650(1)(f)1-Can Coating Requirements, 40 CFR 60, Subpart WW-NSPS for Beverage Can Surface Coating Industry, and F.A.C. Rule 17-2.700-Emission Test Procedures.

26. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to F.A.C. Rule 17-2.620(2). Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to F.A.C. Rule 17-2.100(135).

27. Pursuant to F.A.C. 17-2.210(2) Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from the facility. These reports shall include but are not limited to the following: utilization rates (lbs/yr) manufacturer's certifications, VOC emissions (tons/yr, tons/day, and tons/hr), test results, VOC emissions per line, VOC content, liquid waste disposed, hours of operation, fuel utilization, quantity of cans processed, combustion temperature, destruction and capture efficiency, etc. Annual reports shall be sent to the BESD office.

28. This permit replaces construction permit AC 16-187863.

29. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).



PERMITTEE: Anheuser-Busch Companies, Inc. Permit Number: AC 16-119113  
Expiration Date: May 31, 1993

**SPECIFIC CONDITIONS:**

30. An application for an operation permit must be submitted to the BESD office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

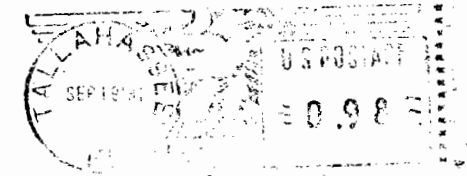
Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1991

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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STEVE SMALLWOOD, P.E., Director  
Division of Air Resources Mgmt.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
2600 BLAIR STONE ROAD  
TWIN TOWERS OFFICE BUILDING  
TALLAHASSEE, FLORIDA 32399-2400



~~Mr. Robert G. Keitz, P.E.~~  
~~Anheuser-Busch Companies, Inc.~~  
~~One Busch Plaza (174th)~~  
~~St. Louis, Missouri 63118~~

*not at  
this address*

**FIRST CLASS**

C. S. SMALLWOOD  
Barry - AT

# SPEARMAN MANAGEMENT, INC.



402 High Point Drive

Cocoa, FL 32926

(407) 631-2750

September 9, 1991

RECEIVED

SEP 13 1991

Division of Air  
Resources Management

The Honorable Carol Browner  
Secretary  
Florida Department of Environmental Regulation  
Twin Towers, 2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Dear Carol *Carol*

As you know, I represent Anheuser-Busch Companies in Florida. Could you please make sure this doesn't sit on someones desk? We our pleased with our (A-B's) dealings with the Department. Ms. Heron has been most cooperative. We just don't want this to get "lost in the shuffle".

With Warm Personal Regards,

Sincerely,

Guy M. Spearman, III

GMS, III/tlc

Attachment

P.S. - Please don't take this that we are unhappy with DER.

GUY M. SPEARMAN III  
President

Department of Environmental Regulation  
**Routing and Transmittal Slip**

To: (Name, Office, Location)

1. *Clair AI: DARM 361*

2. *Barry Due: 9-30-91*

3.

4.

Remarks:

*Respond*

*Barry handled by  
phone through  
Kimberly Barr  
Patty*

From:

*Suby*

Date

*9-19*

Phone

DEIV

1991

MA  
10/1/91

DEP



## ANHEUSER-BUSCH COMPANIES

bcc: J. W. Sugar  
J. V. Stier  
J. E. Engelhuber  
R. G. Kreutz  
W. C. Meglan  
M. M. Accardo  
J. D. Young

August 30, 1991

Ms. Teresa Heron  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Towers Office Building  
Tallahassee, Florida 32301

Re: Metal Container Corporation -  
Jacksonville, Florida  
Can Plant Air Permitting

Dear Ms. Heron:

Enclosed please find information supporting the permit application for the Line 5 Modernization and the Munters units at the Jacksonville Can Plant. This information is based upon our discussions in the August 27, 1991 meeting.

Munters Oil Mist Eliminators - enclosed are signed pages 1 and 2 of the construction permit application to accompany the August 12, 1991 information on these units. Check #385 for \$1000 is enclosed to cover the application fee.

New Source Performance Standards - the VOC contents of the coatings used on Lines 2, 3, 4, and 5 will not exceed the following limits:

Basecoat	-	0.28 kilogram per liter of solids
Varnish	-	0.40 kilogram per liter of solids
Inside Spray	-	0.85 kilogram per liter of solids

These limits meet the New Source Performance Standards for the Beverage Can Industry (40 CFR 60 Subpart WW).

Facility Annual Emissions - VOC emissions reported in 1989 and 1990 were relatively low due to a number of extenuating circumstances. During late 1988 and 1989, the Metal Container Corporation plant in Jacksonville experienced serious quality problems in can production. As a result of these problems, can lines were shut down for maintenance and VOC emissions were less than would be expected from full operation. In 1990, production improved although Line #1 was

Page 2

adversely affected by major projects entailing changes to can handling equipment.

In addition to the above issues, Metal Container has been involved in on-going production efficiency improvement programs to reach can production quantities indicated in air permit applications. These programs have resulted in significant efficiency improvements in all four production lines since 1989. As production efficiencies improve, VOC emissions increase proportionally and approach permitted limits.

VOC Emission Reports - enclosed is a copy of the plant's VOC emission report for the week beginning 7/15/91 to illustrate the plant's recordkeeping for coating usage and the resulting VOC emissions.

Thermal Oxidizer - manufacturer's specifications on the thermal oxidizer are enclosed. These specifications are typical of the unit to be installed; a final vendor has not yet been selected.

If you have any questions on this information, or any other issues, please don't hesitate to call me.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.



Dean E. Pusch  
Sr. Environmental Scientist  
(314) 577-4162  
Enclosures

DEP:cd



ANHEUSER-BUSCH COMPANIES

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1991 SEP -3 PM 2:05

RECEIVED

August 30, 1991

SEP 3 1991

Bureau of  
Air Regulation

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Anheuser-Busch Companies, Inc.  
Executive Offices  
One Busch Place  
St. Louis, MO U.S.A. 63118-1852  
Telex 447 117 ANBUSCH STL

001031

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Sr. Environmental Scientist  
(314) 577-4162  
Enclosures

DEP:cd

cc: J. Alton  
G. Kutyniec, NE Dist.  
R. Robinson, BESD



**OIL MIST CONTROL SYSTEM**

## DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

## APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Two-piece Can Manufacturing [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Metal Container Corporation COUNTY: Duval

Identify the specific emission point source(s) addressed in this application (i.e. Lime  
Kila No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Oil Mist Eliminators on Can  
Lines 2, 3, 4 & 5  
SOURCE LOCATION: Street 1100 N. Ellis Road City Jacksonville

UTM: East 428.440 North 3356.77

Latitude 30 ° 20 ' 15 "N Longitude 81 ° 44 ' 42 "W

APPLICANT NAME AND TITLE: Dean F. Busch, Senior Environmental Scientist

APPLICANT ADDRESS: One Busch Place (202-4) St. Louis, MO 63118

## SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

## A. APPLICANT

I am the undersigned owner or authorized representative\* of Metal Container Corporation

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: J. F. Engelhuber

J. F. Engelhuber, V.P. Operations  
Name and Title (Please Type)

Date: 8/30/91 Telephone No. (314) 957-0789

## B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

<sup>1</sup> See Florida Administrative Code Rule 17-2:100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed \_\_\_\_\_

\_\_\_\_\_  
Name (Please Type)

\_\_\_\_\_  
Company Name (Please Type)

\_\_\_\_\_  
Mailing Address (Please Type)

Florida Registration No. \_\_\_\_\_ Date: \_\_\_\_\_ Telephone No. \_\_\_\_\_

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction \_\_\_\_\_ Completion of Construction \_\_\_\_\_

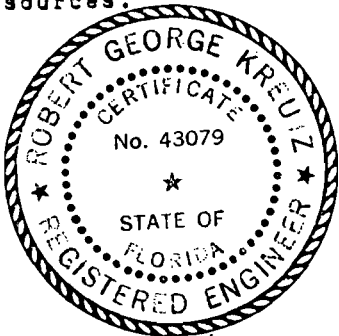
C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Signed Robert George Keutz

Robert G. Keutz  
Name (Please Type)

Anheuser-Busch Companies, Inc.  
Company Name (Please Type)

One Busch Place (124-1) St. Louis, MO 63118  
Mailing Address (Please Type)

Florida Registration No. 43079 Date: 8/30/91 Telephone No. (314) 577-4821

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Oil mist containment equipment on the can bodymakers for Lines 2, 3, 4, and 5 will be ducted to four Munters units which will minimize particulate emissions. The four Munters units will discharge through the plant's roof.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 9/91 Completion of Construction 6/92

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Four Munters units - Line 2, \$24,200; Line 3, \$25,200, Line 4, \$25,200; Line 5, \$45,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

New emission points

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;  
if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. If this is a new source or major modification, answer the following questions.  
(Yes or No) Not applicable

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_

3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_

5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_ NO

a. If yes, for what pollutants? \_\_\_\_\_

b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

A. Raw Materials and Chemicals Used in your Process, if applicable: Not applicable

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) Not applicable

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
particulate	3.3	14.5		3.3	3.3	14.5	

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from<sup>1</sup> operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Munters	particulate	99%		Manufacturer's data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

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LINE 2 MUTERS UNIT

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 57 ft. Stack Diameter: 2.0 ft.  
 Gas Flow Rate: 7600 ACFM          DSCFM Gas Exit Temperature: 70 °F.  
 Water Vapor Content: - % Velocity: 40.3 FPS

**SECTION IV: INCINERATOR INFORMATION**

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste         

Total Weight Incinerated (lbs/hr)          Design Capacity (lbs/hr)         

Approximate Number of Hours of Operation per day          day/wk          wks/yr.         

Manufacturer         

Date Constructed          Model No.         

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height:          ft. Stack Diameter:          Stack Temp.         

Gas Flow Rate:          ACFM          DSCFM\* Velocity:          FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control devices:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify)



LINE 3 MUTERS UNIT

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 57 ft. Stack Diameter: 2.2 ft.  
 Gas Flow Rate: 9057 ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: 70 °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: 39.8 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control devices:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

LINE 4 MUTERS UNIT

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 57 ft. Stack Diameter: 2.2 ft.  
 Gas Flow Rate: 9075 ACFM          DSCFM Gas Exit Temperature: 70 °F.  
 Water Vapor Content:          % Velocity: 39.8 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lb/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lb/hr) \_\_\_\_\_ Design Capacity (lb/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tone per day design capacity, submit the emission rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control devices:  Cyclone  Wet Scrubber  Afterburner

Other (specify) \_\_\_\_\_



Brief description of operating characteristics of control devices: The air stream containing the oil mist flows through two modules (in series) each consisting of a stainless mesh coalescing pad and a set of chevron plates. Fine oil droplets impinge on the pad and coalesce into coarser droplets which then impinge on the chevron plates and drain to the base of the unit.

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

Oil removed by the units is filtered and reused as lubricant in the bodymakers. -

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY** N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes  No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes  No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.
- b. Diameter: ft.
- c. Flow Rate: ACFM
- d. Temperature: °F.
- e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration


(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

**SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION**

**A. Company Monitored Data**

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

\*Specify bubbler (B) or continuous (C).



2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No
- b. Was instrumentation calibrated in accordance with Department procedures?  
[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
- 2. Surface data obtained from (location) \_\_\_\_\_
- 3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
- 4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

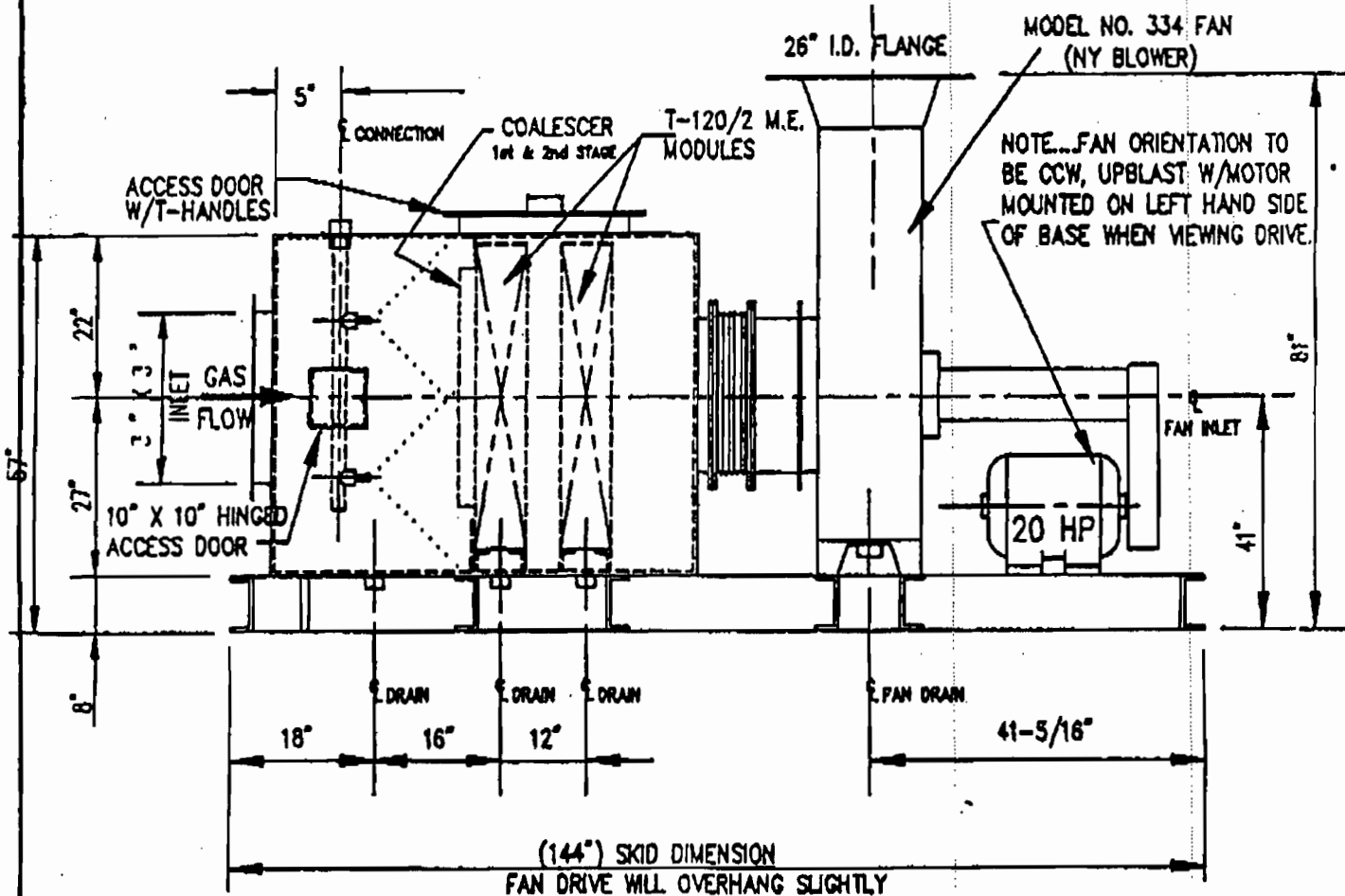
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# OIL MIST ELIMINATOR

7600 SCFM  
ANHEUSER BUSCH  
G-104-11617

SK-11617-03



WEIGHT = 3500 LBS.

( 48" ) WIDTH OF SKID  
(O.S. OF CHANNELS)

VOC EMISSION REPORT

PLANT: 1 JACKSONVILLE  
 WEEK ENDING: 7/21/1991

DATE RANGE: 6/30/1991 TO 8/01/1991

EXAMPLE EXPLANATIONS

W/S #: 1 LINE 1

DAY:		MON	TUE	WED	THU	FRI	SAT	SUN	WEEK'S TOTALS
DATE:		7/15/91	7/16/91	7/17/91	7/18/91	7/19/91	7/20/91	7/21/91	
PRODUCTION (M)		1,070	1,059	1,090	1,030	1,093	986	1,149	7,477
BASECOAT PPG									
3606	GAL	30.3	30.0	30.9	29.2	31.0	28.0	32.6	212.0
VOC FACTOR		.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120
95 TONS VOC		.0028	.0027	.0028	.0027	.0028	.0026	.0030	.0194
INK MISC ACME									
MISC JAX	LBS	84.3	83.4	85.9	81.1	86.1	77.7	90.5	589.0
VOC FACTOR		.00002090	.00002090	.00002090	.00002090	.00002090	.00002090	.00002090	.00002090
1220 TONS VOC		.0018	.0017	.0018	.0017	.0018	.0016	.0019	.0123
INSIDE SPRAY GLIDDEN									
640-C-554 JAX	GAL	268.2	265.4	273.2	258.2	273.9	247.1	288.0	1874.0
VOC FACTOR		.00011690	.00011690	.00011690	.00011690	.00011690	.00011690	.00011690	.00011690
1120 TONS VOC		.0314	.0310	.0319	.0302	.0320	.0289	.0337	.2191
OVERVARNISH PPG									
3665 JAX	GAL	73.0	72.2	74.3	70.3	74.6	67.3	78.4	510.1
VOC FACTOR		.00007600	.00007600	.00007600	.00007600	.00007600	.00007600	.00007600	.00007600
1170 TONS VOC		.0055	.0055	.0056	.0053	.0057	.0051	.0060	.0387
SOLVENT MISC									
IPA JAX	GAL	3.6	3.5	3.6	3.4	3.7	3.3	3.8	24.9
VOC FACTOR		.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500
1245 TONS VOC		.0118	.0115	.0118	.0111	.0121	.0108	.0124	.0815
TOTAL VOC (TONS)		.0533	.0524	.0539	.0510	.0544	.0490	.0570	.3710
CUMULATIVE VOC (TONS) (AS OF 1/01/1991)		9.6912	9.7436	9.7975	9.8485	9.9029	9.9519	10.0089	10.0089

NUMBER OF CANS PRODUCED ON LINE #1 ON 7-21-91, 3,149,000 CANS

GALLONS OF BASECOAT USED ON LINE #1 ON 7-21-91

TONS OF VOC FROM BASECOAT USED ON LINE #1 ON 7-21-91

Total tons of VOC from LINE #1 ON 7-21-91

TOTAL cumulative tons OF VOC FROM LINE #1 FOR PERIOD 1-1-91 to 7-21-91. PERMIT limit is 34.50 TPY.

YEARLY LIMIT: 34.50

PROGRAM: VCS375  
USER : BNGHMA

METAL CONTAINER CORPORATION  
V.O.C. MATERIAL

RUN DATE: 8/28/91 PAGE: 14  
RUN TIME: 16:28:54

PLANT: 1 JACKSONVILLE  
WEEK ENDING: 7/21/1991

DATE RANGE: 6/30/1991 TO 8/01/1991

R/S #: 2 LINE 2

DAY:	MON	TUE	WED	THU	FRI	SAT	SUN	WEEK'S
DATE:	7/15/91	7/16/91	7/17/91	7/18/91	7/19/91	7/20/91	7/21/91	TOTALS
PRODUCTION (M)	1,516	1,565	1,489	1,679	1,493	1,602	1,486	10,830
INK MISC ACME								
MISC JAY LBS	91.8	94.8	90.2	101.7	90.4	97.0	90.0	655.9
VOC FACTOR	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780
1220 TONS VOC	.0026	.0026	.0025	.0028	.0025	.0027	.0025	.0182
INSIDE SPRAY GLIDDEN								
640-C-554 JAY GAL	292.3	301.7	287.1	323.7	287.8	308.9	286.5	2088.0
VOC FACTOR	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500
1120 TONS VOC	.1798	.1855	.1766	.1991	.1770	.1900	.1762	1.2842
OVERVARNISH PPG								
3665 JAY GAL	79.5	82.1	78.1	88.1	78.3	84.0	77.9	568.0
VOC FACTOR	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100
1170 TONS VOC	.0080	.0083	.0079	.0089	.0079	.0085	.0079	.0574
SOLVENT MISC								
IPA JAY GAL	3.9	4.0	3.8	4.3	3.9	4.1	3.8	27.8
VOC FACTOR	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500
1245 TONS VOC	.0128	.0131	.0124	.0141	.0128	.0134	.0124	.0910
TOTAL VOC (TONS)	.2032	.2095	.1994	.2249	.2002	.2146	.1990	1.4508
CUMULATIVE VOC (TONS) (AS OF 1/01/1991)	39.4734	39.6829	39.8823	40.1072	40.3074	40.5220	40.7210	40.7210

YEARLY LIMIT: 109.90

PROGRAM: VC5375  
 USER : ENGMMA

METAL CONTAINER CORPORATION  
 V.O.C. MATERIAL

RUN DATE: 8/28/91 PAGE: 15  
 RUN TIME: 16:28:54

PLANT: 1 JACKSONVILLE  
 WEEK ENDING: 7/21/1991

DATE RANGE: 6/30/1991 TO 8/01/1991

W/S #: 3 LINE 3

DAY:	MON	TUE	WED	THU	FRI	SAT	SUN	WEEK'S
DATE:	7/15/91	7/16/91	7/17/91	7/18/91	7/19/91	7/20/91	7/21/91	TOTALS
PRODUCTION (H)	1,647	1,552	823	1,225	1,523	1,736	1,814	10,320
BASECOAT PPG								
3606 GAL	35.9	33.8	17.9	26.7	33.2	37.8	39.5	224.8
VOC FACTOR	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120
95 TONS VOC	.0033	.0031	.0016	.0024	.0030	.0034	.0036	.0204
INK MISC ACME								
MISC JAY LBS	99.7	94.0	49.8	74.2	92.2	105.1	109.9	624.9
VOC FACTOR	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780
1220 TONS VOC	.0028	.0026	.0014	.0021	.0026	.0029	.0031	.0175
INSIDE SPRAY GLIDDEN								
640-C-554 JAY GAL	317.6	299.3	158.7	236.2	293.7	334.8	349.8	1990.1
VOC FACTOR	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500
1120 TONS VOC	.1953	.1841	.0976	.1453	.1806	.2059	.2151	1.2239
OVERVARNISH PPG								
3665 JAY GAL	86.3	81.4	43.1	64.2	79.8	91.0	95.1	540.9
VOC FACTOR	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100
1170 TONS VOC	.0087	.0082	.0044	.0065	.0081	.0092	.0096	.0547
SOLVENT MISC								
IPA JAY GAL	4.1	3.9	2.1	3.1	3.8	4.4	4.6	26.0
VOC FACTOR	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500
1245 TONS VOC	.0134	.0128	.0069	.0102	.0124	.0144	.0151	.0852
TOTAL VOC (TONS)	.2235	.2108	.1119	.1665	.2067	.2358	.2465	1.4017
CUMULATIVE VOC (TONS) (AS OF 1/01/1991)	42.1375	42.3483	42.4602	42.6267	42.8334	43.0692	43.3157	43.3157

YEARLY LIMIT: 115.70

PROGRAM: VCS375  
 USER : ENGHMA

METAL CONTAINER CORPORATION  
 V.O.C. MATERIAL

RUN DATE: 8/28/91 PAGE: 16  
 RUN TIME: 16:28:54

PLANT: 1 JACKSONVILLE  
 WEEK ENDING: 7/21/1991

DATE RANGE: 6/30/1991 TO 8/01/1991

W/S #: 4 LINE 4

DAY:	MON	TUE	WED	THU	FRI	SAT	SUN	WEEK'S
DATE:	7/15/91	7/16/91	7/17/91	7/18/91	7/19/91	7/20/91	7/21/91	TOTALS
PRODUCTION (M)	1,843	1,895	1,599	1,842	1,587	1,559	1,722	12,047
BASECOAT PPG								
3606 GAL	40.2	41.4	34.9	40.2	34.6	34.0	37.6	262.9
VOC FACTOR	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120	.00009120
95 TONS VOC	.0037	.0038	.0032	.0037	.0032	.0031	.0034	.0241
INK MISC ACME								
MISC JAX LES	111.7	114.8	96.9	111.6	96.2	94.5	104.3	730.0
VOC FACTOR	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780	.00002780
1220 TONS VOC	.0031	.0032	.0027	.0031	.0027	.0026	.0029	.0203
INSIDE SPRAY GLIDDEN								
640-C-554 JAX GAL	355.4	365.4	308.3	355.2	306.0	300.6	332.0	2322.9
VOC FACTOR	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500	.00061500
1120 TONS VOC	.2186	.2247	.1896	.2184	.1882	.1849	.2042	1.4286
OVERVARNISH PPG								
3665 JAX GAL	96.7	99.4	83.9	96.6	83.3	81.8	90.3	632.0
VOC FACTOR	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100	.00010100
1170 TONS VOC	.0098	.0100	.0085	.0098	.0084	.0083	.0091	.0639
SOLVENT MISC								
IPA JAX GAL	4.7	4.9	4.1	4.7	4.1	4.0	4.4	30.9
VOC FACTOR	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500	.00327500
1245 TONS VOC	.0154	.0160	.0134	.0154	.0134	.0131	.0144	.1011
TOTAL VOC (TONS)	.2506	.2577	.2174	.2504	.2159	.2120	.2340	1.6380
CUMULATIVE VOC (TONS) (AS OF 1/01/1991)	42.4164	42.6741	42.8915	43.1419	43.3578	43.5698	43.8038	43.8038

YEARLY LIMIT: 115.70

\*\*\* END OF REPORT \*\*\*

**THERMAL OXIDIZER - MANUFACTURER'S INFORMATION**



Anheuser-Busch Company  
St. Louis, Missouri

Proposal No. PD-25-0-103-B  
June 11, 1991

## 2.1

### GENERAL DESCRIPTION

This proposal covers the supply of a **RE-THERM** thermal oxidizing system for VOC control. The **RE-THERM** system uses the principle of thermal oxidation with **regenerative** heat recovery. This is a proven technology which offers many advantages over other VOC control methods:

#### 1. Low VOC Emissions

The **RE-THERM** system oxidizes airborne hydrocarbons including volatile organic compounds (VOC's) and other organic odor causing constituents. **This oxidation converts the hydrocarbons into harmless carbon dioxide and water vapor.** The effectiveness of destroying VOC's is maintained continually.

#### 2. A Forgiving System

The system efficiently oxidizes VOC's of any type and concentration. It can **accommodate future changes** in process flow and solvent concentration as well as sudden fluctuations.

#### 3. Simple, Rugged and Reliable

The **RE-THERM** unit has over **2 million hours** of proven reliable performance in a number of different applications with severe operating conditions. The reason is the rugged construction and the few moving parts.

The system is induced - not pressurized. The main exhaust fan therefore operates on purified air and is not subject to potential contamination from untreated fumes. This desirable condition is possible due to the thermal efficiency of the **RE-THERM** and its **low exhaust temperature.**

#### 4. Unattended Operation

In normal operation, the **RE-THERM** operates without attendance. The system **automatically adjusts** to variations in volume and solvent loading.

The exclusive **RE-THERM** System has been developed by and is proprietary to **REECO**. The patented designs include the original Spherical **RE-THERM** (Pat. No. 3,895,918), the Vertical Flow Unit (Pat. No. 4,454,826), and various other patented features.

Anheuser-Busch Company  
St. Louis, Missouri

Proposal No. PD-25-0-103-B  
June 11, 1991

2.2

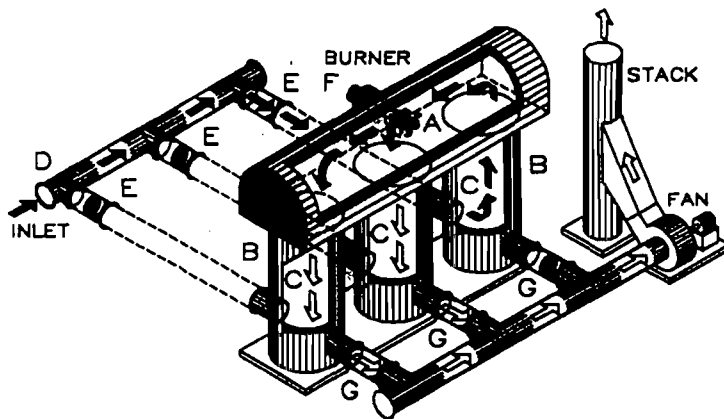
GENERAL DESCRIPTION (Continued)

The **RE-THERM** Unit is a thermal oxidizer for fume and odor control. It converts airborne Volatile Organic Compounds (VOC), hydrocarbons, and odor-causing constituents to harmless carbon dioxide (CO<sub>2</sub>) and water vapor. **Energy consumption is less** than any other oxidizer on the market.

The **RE-THERM** combines highly efficient **regenerative** heat recovery with ideal time, temperature, and turbulence characteristics and provides the most effective and economical fume and odor control available.

The **RE-THERM** consists of a purification chamber (A) with a number of energy recovery chambers (B) (lobes). These lobes contain ceramic heat exchange media (C) (stoneware). The solvent-laden air enters the inlet manifold (D). Inlet flow control valves (E) direct the air into those lobes that are in inlet mode.

The air passes through the stoneware beds (C) (that have been preheated in a previous cycle) and is heated by the stoneware. It enters the purification chamber (A) at a temperature very close to the oxidation temperature. The oxidation process is completed in the purification chamber. A gas (or oil) burner (F) maintains a preset oxidation temperature. If the incoming air contains sufficient concentration of solvents, **approximately 3% LEL**, the energy in the solvents provides the necessary energy to self-sustain the **RE-THERM**. The **burner automatically goes to pilot**.



One lobe is at any given time in transition from inlet to outlet mode or vice versa. Half of the other lobes are in inlet mode and half in outlet mode.

The air leaves the purification chamber through the stoneware beds (C) of those lobes in outlet mode. There the hot air gives up its heat to the stoneware and continues to the exhaust fan. The exhaust air temperature is only slightly higher than the air entering the **RE-THERM**.

Anheuser-Busch Company  
St. Louis, Missouri

Proposal No. PD-25-0-103-B  
June 11, 1991

### 2.3

#### GENERAL DESCRIPTION (Continued)

The retention time at the purification temperature is nominally 1.0 second. One by one the lobes change from inlet (preheat) mode to outlet (recovery) mode and back to inlet mode. In this fashion, energy is absorbed from the clean purified air from the purification chamber and stored in the heat exchange media to preheat the next cycle of incoming process fumes.

The odd number of heat recovery chambers allows the **RE-THERM** to maintain a continuous flow from the process. Only one chamber at a time is being switched between preheat and recovery mode. The remaining chambers maintain continuous flow.

The **RE-THERM** is furnished with an automatic emergency by-pass. In the event of an overtemperature condition or an electrical power failure, this **fail safe feature** will place all inlet (**E**) and outlet (**G**) valves in full open position.

Anheuser-Busch Company  
St. Louis, Missouri

Proposal No. PD-25-0-103-B  
June 11, 1991

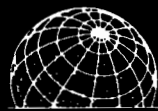
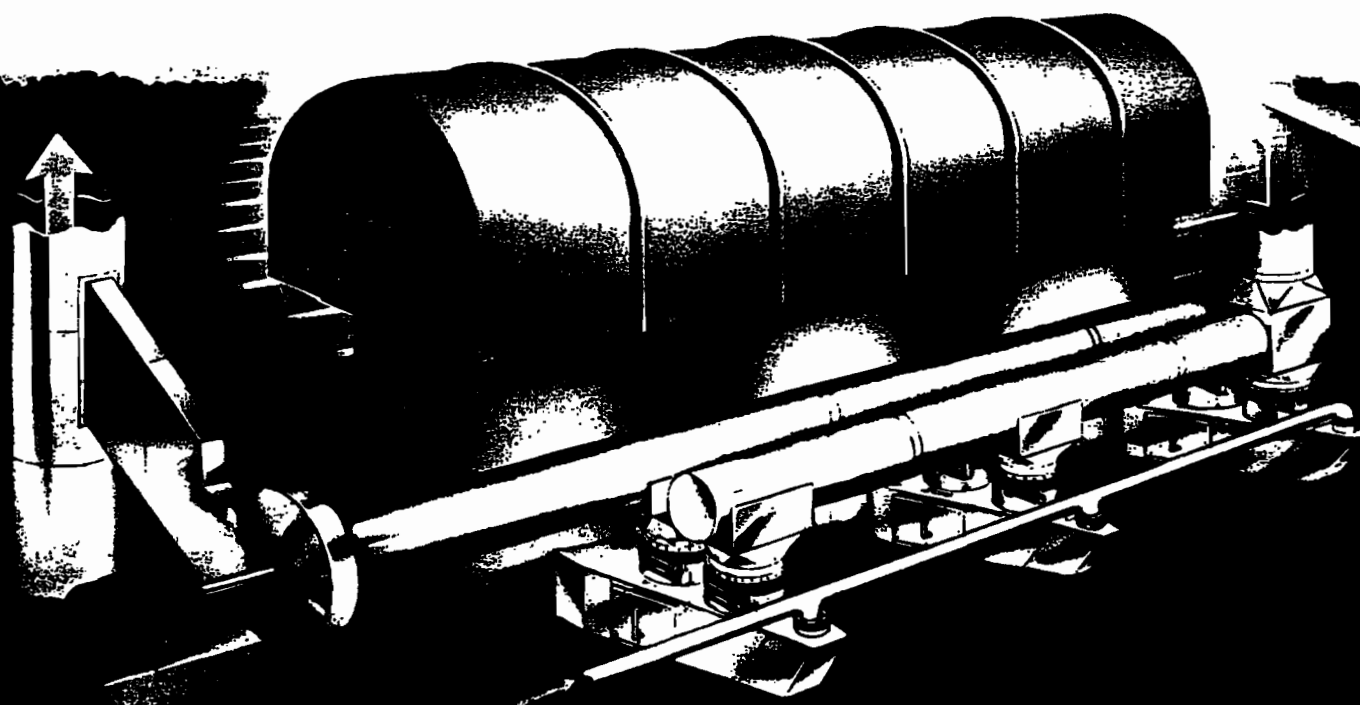
## 7.2

TECHNICAL DATA FOR EQUIPMENT

<b>RE-THERM Model</b>	<b>"VF-E"</b>
Air (or Process) Volume	38,000 SCFM (70°F)
Air (or Process) Temperature	313°F
Maximum Purification Temperature Limit	1,800°F
Thermal Energy Recovery (T.E.R.)	95%
Number of Burners	3
Burner Size	2.90 MM BTU/HR each
Combustion Blower Motor Size	10 HP
Number of Combustion Blowers	1
Number of Energy Recovery Chambers	5
Number of Fans	1
Fan Volume, Rating Each	75,685 ACFM @ 433°F
Fan Static Pressure, Rating (HOT)	26.9" WG
Fan Power Consumption	427 BHP
Number of Motors	1
Fan Motor Size Each	500 HP
Fan Motor Voltage	4160 V. 3 P 60 H <sub>z</sub> WITHOUT VFD OPTION
Fan Motor Voltage	480 V. 3 P 60 H <sub>z</sub> WITH VFD OPTION
Exhaust Stack Height	45 Feet

# RE-THERM<sup>®</sup> VF

The high efficiency,  
low maintenance approach to  
controlling airborne  
volatile organic compounds,  
air toxics and odors.

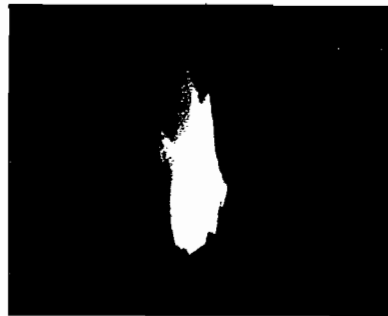


**Research-Cottrell**  
REECO, Inc.

Affiliate of  
Air & Water  
Technologies Corporation

**How to destroy VOCs,  
air toxics and odors  
with unmatched  
efficiency!**

High temperature can convert VOCs, air toxics and odors into simple carbon dioxide and water vapor. But the real challenge is to do the job efficiently, achieving maximum temperature with minimum energy consumption. RE-THERM Model VF does precisely that.



---

**The Three T's —  
Time  
Temperature  
Turbulence —  
mean pure air!**

Temperature — and plenty of it — is our ultimate weapon. Up to 2,000°F or more — for about 1 second — is enough to destroy offensive pollutants. Turbulence, inherent in the RE-THERM design, agitates fumes and odors as they heat, speeding the oxidation process, just as shaking the pan makes popcorn pop faster.



---

**Regeneration —  
up to 95%  
efficiency!**

Fill a ceramic cup with hot coffee. Pour out the coffee and the cup remains hot — hot enough to warm up a cold refill. That's energy recapture (regeneration) at a very low efficiency level.

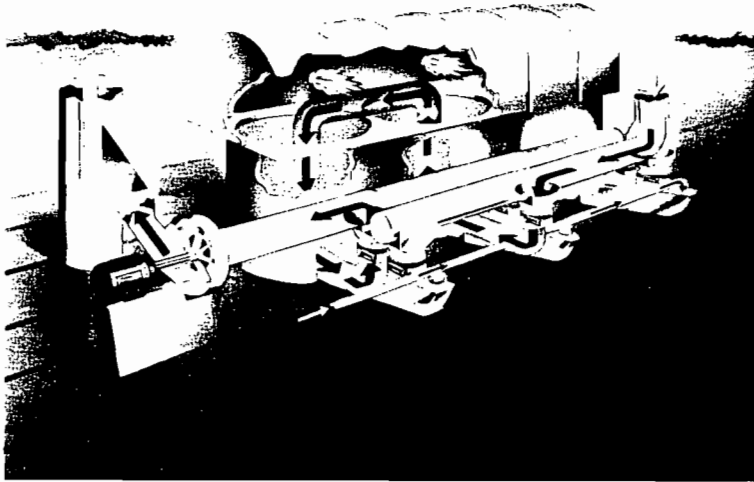
At very high efficiency levels, the RE-THERM VF heats volatile pollutants to the oxidation point with virtually no additional energy required. That's because the energy used in the oxidation process is being continually captured in ceramic "stoneware".



The energy is then reused to preheat incoming polluted air again and again. That's award-winning energy regeneration at its highest efficiency — up to 95%.

# RE-THERM® VF

BEST AVAILABLE COPY



## Lower Cost

- Improved air flow cuts electricity costs.
- Redesigned chambers allow higher destruction efficiency; lower operating cost.
- New damper valve actuators decrease component wear-and-tear; minimize maintenance costs.
- Exclusive Variable Energy Recovery option allows the unit to tolerate the higher temperatures that result from high solvent usage in certain industries. This reduces the costly downtime associated with less flexible VOC control systems.

## Easier to operate and maintain

- In response to customer requests for easier inspection access, additional doors are included on the VF.
- Carefully sited platforms provide easy access to components requiring inspection or maintenance.
- "Set and Forget" valves require minimal operator attention.
- Advanced burner design offers superior temperature control.
- New valve tracking feature indicates the position of the valve itself, not the position of the valve driver.
- Newly designed flow control valves, with no gasketed seats to replace, require little or no maintenance.
- Self-cleaning option permits simple, periodic cleaning of the ceramic bed from build-up of entrapped organic material.

## RE-THERM VF options

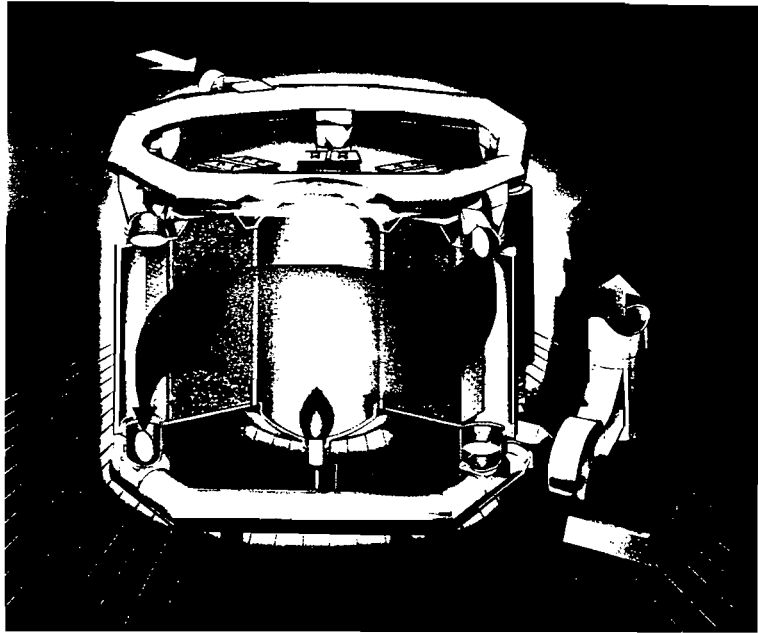
Options	1. Idle Mode 2. Recirculation 3. Variable Frequency Drive	4. Chamber Flushing 5. Valve Sealing 6. High Temperature Design	7. Bake-Out	8. Variable Energy Recovery
Benefits	Keeps operating costs in check during process fluctuations or shut-downs	Increases purification performance	Removal of organic buildup	Prevents over-temperature in cases of extremely high solvent loading

## BEST AVAILABLE COPY

**RE-THERM —  
highest efficiency for  
special applications.**

### Features/Benefits

- Efficient fume and odor destruction
- High thermal efficiency — 85%, 90% and 95%
- Low fuel consumption
- Self sustains (no fuel consumption) at as low as 3% LEL
- Normal incineration temperature 1400°F to 1600°F
- Excellent for multiple emission sources
- High turndown ratios
- No auto-ignition problems
- No condensation problems
- Auxiliary fuel can be natural gas, propane, oil or spent solvents
- Heat exchange media virtually indestructible
- Roof mounting or low profile configuration
- Functions automatically, without operator attention
- Proven history of low maintenance and long trouble-free operation



For applications with unusually high exhaust volumes or difficult contaminant streams that still require the utmost levels of destruction efficiency, the RE-THERM horizontal flow design is recommended. This unit has been supplied in highly efficient single unit capacities as large as 500,000 SCFM.

Although different in configuration from the RE-THERM Model VF, the principle of operation is identical. The RE-THERM cycling action is continuous, and heat energy stored in beds of ceramic stoneware is reused again and again.

This pacesetter in fume and odor control technology operates on well-proven principles. Whether oxidizing fumes from a painting or printing process or destroying odors emanating from a chemical or food processing plant, this unique RE-THERM has established and maintained the standards for cost-efficient pollution control.

***RE-THERM® VF and RE-THERM® – Simple, Rugged, Reliable***



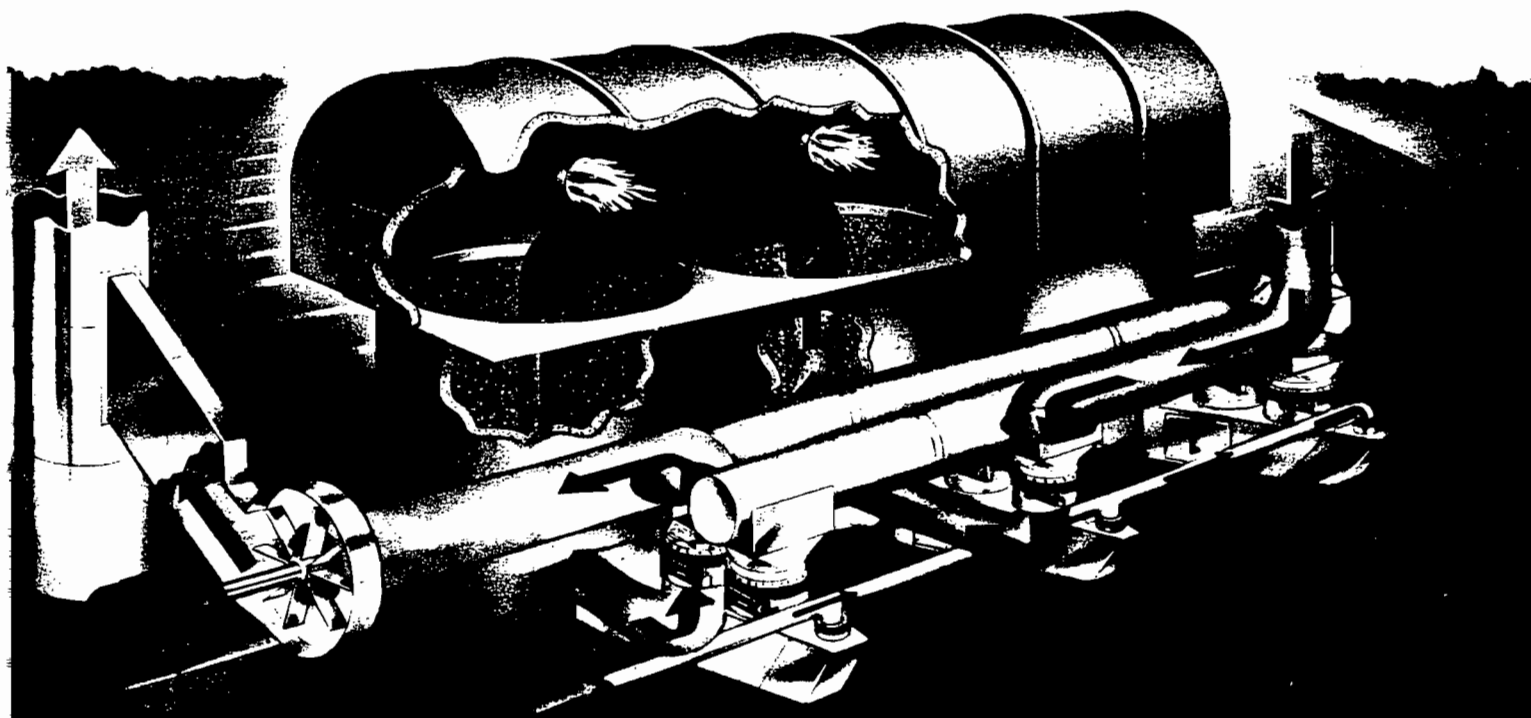
# RE-THERM VF

## Here's how it works.

Contaminated process exhaust enters the VF unit through an inlet manifold. Flow control valves direct the exhaust into those regenerative chambers that have just switched to the "inlet" mode. These chambers contain hot ceramic stoneware that has absorbed most of the heat energy from a previous batch of exiting cleaned air.

When the incoming, contaminated exhaust is drawn through the hot stoneware bed, its temperature increases. This causes many pollutants and odor-causing compounds to auto-ignite even before they reach the main purification chamber. Gas or oil burners in the main chamber maintain the required purification temperature. However, if the incoming gas stream contains enough VOCs, the unit can self-sustain. This keeps fuel costs to a bare minimum.

The purified air is channeled out through a stoneware bed that has switched to the "outlet" mode. There, it deposits most of its heat energy, which will be transferred to yet another batch of incoming, contaminated process exhaust. For most applications, warm clean air would then be vented to the atmosphere. Another option is to return this warm exhaust to the plant and use it to heat dryers, ovens or other equipment. In some units, waste solvent can even be used as auxiliary fuel, further reducing operating costs and eliminating the plant's solvent disposal problems.



**REECO RE-THERM®**  
meets industry's needs . . .  
including yours!

The pacesetter RE-THERM and RE-THERM VF, created and patented by REECO, reign among the most effective and innovative fume and odor control systems in the world. RE-THERM systems are designed to fit the largest and smallest needs of clients in metal finishing, printing, coating, laminating, foods, chemicals, flooring, film manufacturing, paint manufacturing, spray painting, and many other industrial processes.

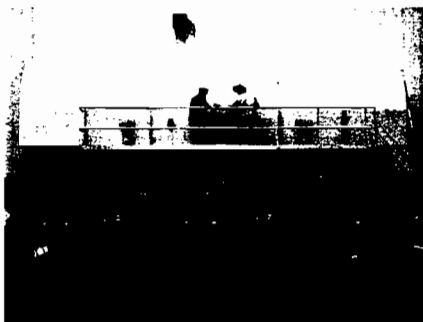
When clean air and energy savings are your objectives, REECO can supply a RE-THERM to provide the control you need.

For the full story on clean air, call us.

*Design and specifications subject to change without notice.*



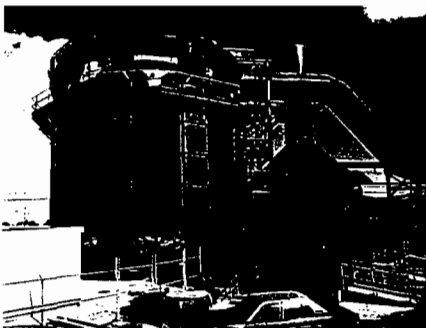
**RE-THERM VF — 25,000 SCFM.**  
Paint spray operation.



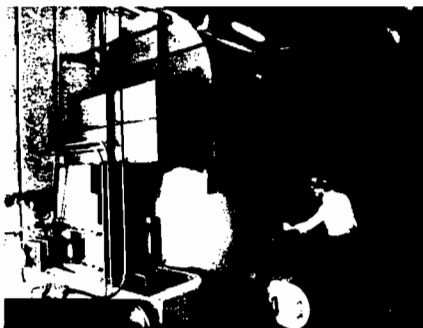
**RE-THERM VF — 17,000 SCFM.**  
Lost-foam casting.



**RE-THERM VF — 20,000 SCFM.**  
Turnkey installation. Rotogravure, flexo presses and laminating.



**RE-THERM — 150,000 SCFM.**  
Automotive finishes. Two units operating at 95% thermal energy recovery.



**RE-THERM VF — 3,000 SCFM.**  
Indoor installation. Metal parts manufacturer.



**RE-THERM — 75,000 SCFM.**  
Film coating. 95% thermal energy recovery.



**Research-Cottrell**

**REECO, Inc.**

520 SPEEDWELL AVENUE  
MORRIS PLAINS, NJ 07950-2127

PHONE (201) 538-8585 • FAX (201) 538-0407



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.  
ATLANTA, GEORGIA 30365

File Copy  
AC 16-199113

4APT-AEB

AUG 22 1991

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AUG 26 1991

Division of Air  
Resources Management

Mr. Clair H. Fancy, P.E., Chief  
Bureau of Air Regulation  
Florida Department of Environmental  
Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Emissions Netting Under the "Dual-Source" Definition

Dear Mr. Fancy:

This letter is to confirm a telephone conversation between Mr. Barry Andrews of your staff and Mr. Gregg Worley of my staff on August 2, 1991, in which the use of emissions netting in nonattainment areas was discussed, specifically as it related to a proposed modification to the Metal Container Corporation in Jacksonville. Mr. Andrews confirmed that the previous practice in Florida has been to apply a "dual-source" definition in nonattainment areas.

A discussion of the netting procedures for nonattainment areas, along with examples, is given in Chapter F of the 1990 New Source Review Workshop Manual. In summary, the netting procedures under the dual source definition work as follows:

1. Each emissions unit at a facility which has the potential to emit more than 100 tpy of the nonattainment pollutant is a "source" under the dual-source definition. Additionally, the facility, made up of one or more emissions units, is a major source if the total plantwide potential emissions are greater than 100 tpy.
2. A source may only "net" within itself; therefore, an emissions unit which is major itself or will have a major (>100 tpy) increase can not net on a plantwide basis under the dual-source definition. On the other hand, a unit which is not major itself and will not have a major increase, but is part of a major source, can net on a plantwide basis.

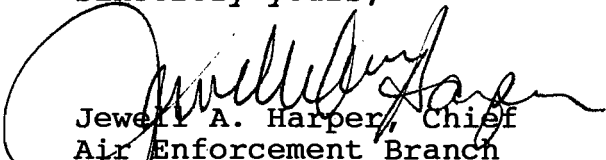
For the specific case in question, MCC is an existing major source. The proposed modification consists of the addition of a new emissions unit which has potential emissions of about 50 tpy of VOC. Since the new unit's potential emissions will be less than 100 tpy, the new unit will not be a "source" under the dual-source definition; however, since the increase in emissions from the modification will

exceed 40 tpy of VOC, New Source Review is triggered for the entire plant and the netting calculus may be performed. The netting procedure must include all contemporaneous, creditable increases and decreases on a plantwide basis.

As an added note, in the event that addition of or a modification to an emissions unit at a source is major, emissions decreases elsewhere in the plant, while not available for netting, potentially can be used as emissions offsets in fulfillment of NSR requirements.

I hope that this guidance is helpful and answers the questions of your staff. If you have any further questions or need further clarification regarding this issue, please do not hesitate to contact Mr. Gregg Worley of my staff at (404) 347-5014.

Sincerely yours,

  
Jewell A. Harper, Chief  
Air Enforcement Branch  
Air, Pesticides, and Toxics  
Management Division

cc: Barry Andrews, FDER }  
Preston Lewis, FDER } 8-27-91 RBH  
Clair Fancy  
Teresa Hehon



**ANHEUSER-BUSCH COMPANIES**

August 12, 1991

Ms. Teresa Heron  
Bureau of Air Regulation  
Florida Department of Environmental Regulation  
Irvin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

**RE: Metal Container Corporation  
Jacksonville Can Plant; Air Permit Application**

Dear Ms. Heron:

This letter presents additional information requested by the Department in support of the air permit application for a modification to the Jacksonville Can Plant. Information is also presented on several emission sources that have been added to the project since the submittal of the original application.

**COMMENT:** List the equipment for each line after the proposed modification.

**RESPONSE:** The table below lists the quantity of VOC emitting equipment by can line after the proposed project.

	<u>LINE 2</u>	<u>LINE 3</u>	<u>LINE 4</u>	<u>LINE 5</u>	<u>RESPRAY</u>
basecoater	1	1	1	-	-
basecoater pin over	1	1	1	-	-
printer	1	1	1	2	-
printer pin oven	1	1	1	2	-
inside spray machines	4	4	4	8	2
inside bake oven	1	1	1	1	1

**RECEIVED**

**AUG 14 1991**

Ms. Teresa Heron  
August 12, 1991  
Page 2

COMMENT: What are the actual emissions per each line?

RESPONSE: Actual annual emissions for the past two years as presented in the 1989 and 1990 Annual Emission Reports are shown below.

	<u>LINE 1</u>	<u>LINE 2</u>	<u>LINE 3</u>	<u>LINE 4</u>
<u>1989</u>	<u>15.5</u>	<u>67.3</u>	<u>66.4</u>	<u>69.7</u>
1990	14.7	70.2	75.4	73.8

COMMENT: Submit a LAER analysis ...

RESPONSE: Subsequent to the initial submittal, Metal Container Corporation has elected to install a thermal oxidizer with a 95% destruction efficiency. This will reduce the facility's emissions to 368 tons per year. See attached spreadsheet.

Emissions from the new Line 5 do not exceed 100 tons, thus, under the dual source definition, Line 5 is not a major source in and of itself. Therefore, the major source being modified is the entire plant.

With the 95% efficient thermal oxidizer and low solvent, water borne coatings, the total plant emissions will be 368 tons per year. This total represents a decrease of eight tons from the currently permitted 376 tons per year (Permit AC 16-187863).

The VOC contents of the coatings used on all lines will not exceed the following limits:

basecoat	0.28 kilogram per liter of solids
varnish	0.40 kilogram per liter of solids
inside spray	0.88 kilogram per liter of solids

These limits meet the NSPS for the Beverage Can Industry (40 CFR 60 Subpart WW) and the RACT requirements of the state.

Ms. Teresa Heron  
August 12, 1991  
Page 3

In addition, the equipment shown in the attached diagram from the original application will be ducted to the thermal oxidizer. This will result in the total plant emissions of 368 tons per year after the project, which is less than the currently permitted 376 tons per year.

ADDITIONAL INFORMATION

As part of the project, several additional emission sources will be added. In order to reduce the potential for lubricating oil mist to enter the plant air, enclosures on the bodymakers will be vented to the atmosphere. Oil mist will be controlled with Munters units, which are high efficiency filters for aerosol particulates. Data on these sources are presented on the attached project information sheets.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch  
Environmental Affairs  
Tel: (314) 577-4162  
Fax: (314) 577-1032

DEP/tms  
Attachment

cc: J. Heron  
A. Katsina, NE Dist.  
R. Robinson, BESD

METAL CONTAINER CORPORATION

JACKSONVILLE BEVERAGE CAN MANUFACTURING FACILITY (LINE5REV)

ANNUAL EMISSIONS – LINE 5 ADDITION

SCENARIO:

LINE 5 @ 2160 CPM; ALL 12 OZ CANS; NO BASECOATED CANS  
 LINE 2 @ 1300 CPM 16 OZ, 1400 CPM 12 OZ; 85% OF 16 OZ CANS BASECOATED  
 LINE 3 @ 1400 CPM; ALL 12 OZ CANS; 80% OF CANS BASECOATED  
 LINE 4 @ 1400 CPM; ALL 12 OZ CANS; 80% OF CANS BASECOATED  
 0.5% OF ANNUAL PRODUCTION RESPRAYED  
 ALL LINES @ 95% EFFICIENCY, 365 DAYS/YEAR

LINE 5 – 12 OZ ANNUAL PRODUCTION: 1.079E+09  
 LINE 2 – 16 OZ ANNUAL PRODUCTION: 3.020E+08  
 LINE 2 – 12 OZ ANNUAL PRODUCTION: 3.739E+08  
 LINE 3 – 12 OZ ANNUAL PRODUCTION: 6.990E+08  
 LINE 4 – 12 OZ ANNUAL PRODUCTION: 6.990E+08

COATING/SOLVENT	MANUFACTURERS IDENTIFICATION	USAGE (GALS)	DENSITY (PPG)	VOC FRACTION (BY WEIGHT)	UNCONTROLLED VOC EMISSIONS (TPY)	CAPTURE EFFICIENCY (BY WEIGHT)	FUGITIVE (TPY)	VOC EMISSIONS		TOTAL (TPY)	USAGE RATE (GALS/1000 CANS)
								T.O. INLET (TPY)	T.O. OUTLET (TPY)		

LINE 5 – 12 OUNCE CANS

INSIDE SPRAY	GLID 640-C-554	215,708	8.50	0.145	132.47	0.90	13.25	119.22	5.96	19.21	0.200
VARNISH	PPG 3925X	114,324	8.80	0.110	55.33	0.90	5.53	49.80	2.49	8.02	0.106
PRINTING INKS	VARIOUS	8,628	10.50	0.220	9.97	0.90	1.00	8.97	0.45	1.45	0.008
CLEAN-UP SOLVENTS MISC		3,020	6.63	1.000	10.01	0.00	10.01	0.00	0.00	10.01	0.003
SUBTOTALS					207.78		29.79	177.99	8.90	38.69	



LINE 2 - 12 AND 16 OUNCE CANS

WHITE BASECOAT	PPG 3606	39,357	11.30	0.085	18.90	0.90	1.89	17.01	0.85	2.74	0.153
INSIDE SPRAY	GLID 640-C-554	80,022	8.50	0.145	49.14	0.00	49.14	0.00	0.00	49.14	0.265
		74,770	8.50	0.145	45.92	0.00	45.92	0.00	0.00	45.92	0.200
VARNISH	PPG 3625X	41,974	8.80	0.110	20.32	0.83	3.45	16.86	0.84	4.30	0.139
		39,628	8.80	0.110	19.18	0.83	3.26	15.92	0.80	4.06	0.106
PRINTING INKS	VARIOUS	3,020	10.50	0.220	3.49	0.83	0.59	2.89	0.14	0.74	0.010
		2,991	10.50	0.220	3.45	0.83	0.59	2.87	0.14	0.73	0.008
CLEAN-UP SOLVENTS MISC		1,960	6.62	1.000	6.49	0.00	6.49	0.00	0.00	6.49	0.003
SUBTOTALS					166.89		111.33	55.55	2.78	114.11	

LINE 3 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	48,234	11.30	0.085	23.16	0.90	2.32	20.85	1.04	3.36	0.115
INSIDE SPRAY	GLID 640-C-554	139,810	8.50	0.145	85.86	0.00	85.86	0.00	0.00	85.86	0.200
VARNISH	PPG 3625X	74,099	8.80	0.110	35.86	0.83	6.10	29.77	1.49	7.59	0.106
PRINTING INKS	VARIOUS	5,592	10.50	0.220	6.46	0.83	1.10	5.36	0.27	1.37	0.008
CLEAN-UP SOLVENTS MISC		1,957	6.62	1.000	6.48	0.00	6.48	0.00	0.00	6.48	0.003
SUBTOTALS					157.83		101.85	55.98	2.80	104.65	

LINE 4 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	48,234	11.30	0.085	23.16	0.90	2.32	20.85	1.04	3.36	0.115
INSIDE SPRAY	GLID 640-C-554	139,810	8.50	0.145	85.86	0.00	85.86	0.00	0.00	85.86	0.200
VARNISH	PPG 3625X	74,099	8.80	0.110	35.86	0.83	6.10	29.77	1.49	7.59	0.106
PRINTING INKS	VARIOUS	5,592	10.50	0.220	6.46	0.83	1.10	5.36	0.27	1.37	0.008
CLEAN-UP SOLVENTS MISC		1,957	6.62	1.000	6.48	0.00	6.48	0.00	0.00	6.48	0.003
SUBTOTALS					157.83		101.85	55.98	2.80	104.65	

RESPRAY OPERATIONS

INSIDE SPRAY	GLID 640-C-554	1,576	8.50	0.145	0.97	0.00	0.97	0.00	0.00	0.97	0.100
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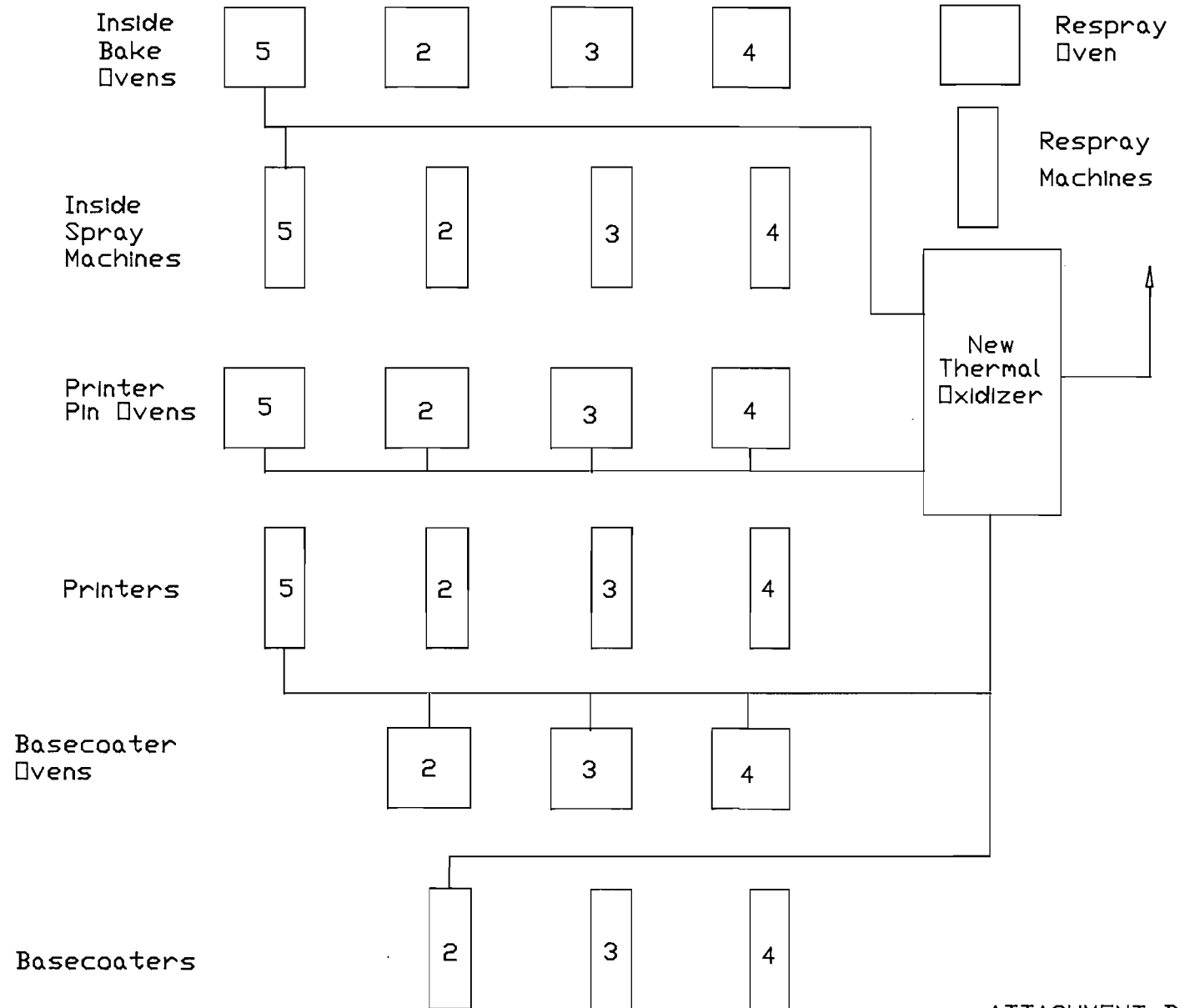
SAFETY KLEEN

PARTS CLEANING	SOLVENT 105 - MS	1,453	6.67	1.000	4.85	0.00	4.85	0.00	0.00	4.85	
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FACILITY TOTALS                      696.14                      350.64                      345.50                      17.27                      367.91

EMISSIONS (TPY)                      367.91

METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
AFTER LINE 5 ADDITION



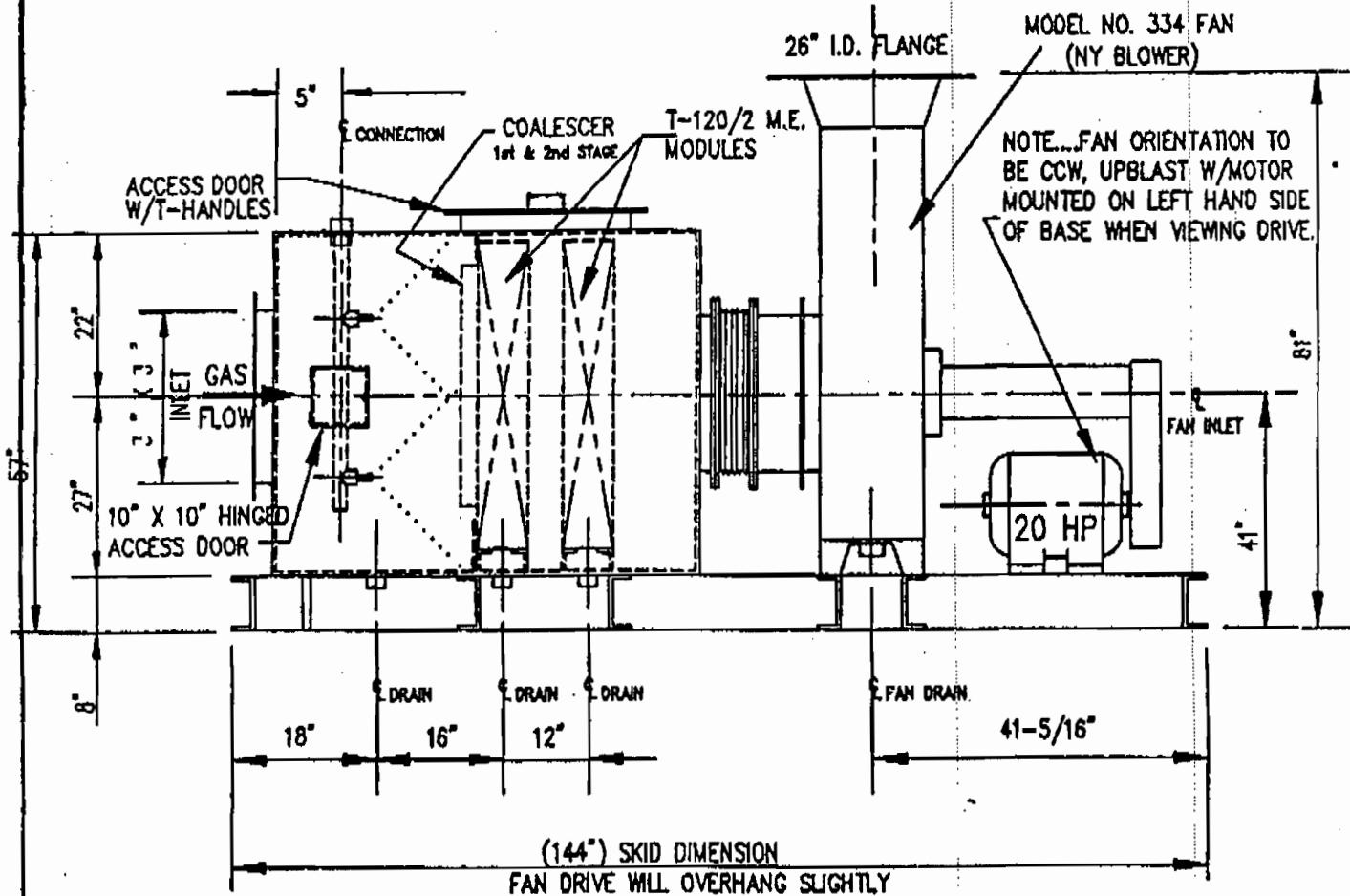
**OIL MIST CONTROL SYSTEM**

BEST AVAILABLE COPY



OIL MIST ELIMINATOR  
7600 SCFM  
ANHEUSER BUSCH  
G-104-11617

SK-11617-03



WEIGHT = 3500 LBS.

( 48" ) WIDTH OF SKID  
(O.S. OF CHANNELS)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed \_\_\_\_\_

\_\_\_\_\_  
Name (Please Type)

\_\_\_\_\_  
Company Name (Please Type)

\_\_\_\_\_  
Mailing Address (Please Type)

Florida Registration No. \_\_\_\_\_ Date: \_\_\_\_\_ Telephone No. \_\_\_\_\_

**SECTION II: GENERAL PROJECT INFORMATION**

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Oil mist containment equipment on the can bodymakers for Lines 2, 3, 4, and 5 will be ducted to four Munters units which will minimize particulate emissions. The four Munters units will discharge through the plant's roof.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 9/91 Completion of Construction 6/92

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Four Munters units - Line 2, \$24,200; Line 3, \$25,200, Line 4, \$25,200; Line 5, \$45,000

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

New emission points

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;  
if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. If this is a new source or major modification, answer the following questions.  
(Yes or No) Not applicable

- 1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_
  - a. If yes, has "offset" been applied? \_\_\_\_\_
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_
  - c. If yes, list non-attainment pollutants. \_\_\_\_\_
- 2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_
- 3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_
- 4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_
- 5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? NO

- a. If yes, for what pollutants? \_\_\_\_\_
- b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

A. Raw Materials and Chemicals Used in your Process, if applicable: Not applicable

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) Not applicable

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
particulate	3.3	14.5		3.3	3.3	14.5	

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).



D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Munters	particulate	99%		Manufacturer's data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

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LINE 3 MUTERS UNIT

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 57 ft. Stack Diameter: 22.2 ft.  
 Gas Flow Rate: 9057 ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: 70 °F.  
 Water Vapor Content: - % Velocity: 39.8 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_  
 Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_  
 Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_



LINE 5 MUTERS UNIT

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 53 ft. Stack Diameter: 3.0 ft.  
 Gas Flow Rate: 17,700 ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: 70 °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: 41.7 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rates: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control devices:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

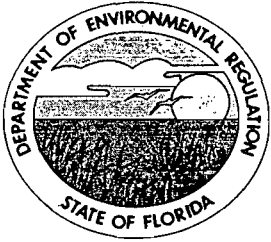
<b>SENDER:</b> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece next to the article number.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Mr. Dean E. Pusch Environmental Scientist Metal Container Corp. One Busch Place (202-4) St. Louis, MO 63113		4a. Article Number P 832 539 814	
		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured. <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
		7. Date of Delivery	
5. Signature (Addressee) <i>Dean E. Pusch</i>		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature (Agent) <i>7-24-91</i>			
PS Form 3811, October 1990		*U.S. GPO: 1990-273-681	
<b>DOMESTIC RETURN RECEIPT</b>			

P 832 539 814



PS Form 3800, June 1990

Sent to	
Mr. Dean E. Pusch, Metal	
Street & No. Container Corp.	
One Busch Place (202-4)	
P.O., State & ZIP Code	
St. Louis, MO 63113	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	
Mailed: 7-14-91	
Permit: AC 16-199113	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

July 18, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Dean E. Pusch  
Environmental Scientist  
Metal Container Corporation  
One Busch Place (202-4)  
St. Louis, MO 63113

Dear Mr. Pusch:

The Department has reviewed your application for a permit to construct/modify the Metal Container's can facility in Jacksonville, Duval County, Florida. We need more information in order to process this application. Please complete the application by supplying the information requested below:

1. List the equipment for each line (how many ovens, spray machines, printers, etc.) after the proposed modification.
2. What are the actual emissions per each line? Please submit records of actual emissions from your facility for the last two years.
3. Submit a LAER analysis for Can Coating Line Nos. 5 and 2 (please refer to F.A.C. Rule 17-2.510; 40 CFR 60.490(b), Subpart WW, NSPS for the Beverage Can Surface Coating Industry; 40 CFR 60.15(b), Reconstruction; and FR, Vol. 51, No. 233, 43830 C., Emissions Trading Policy Statement).

If you have any questions on the data requested, please call Teresa Heron at 904-488-1344 or write to me at the above address.

Sincerely,

*for* C. H. Fancy, P.E.  
Chief  
Bureau of Air Regulation

CHF/TH/plm

c: Darrel Hall  
Gary L. Reynolds  
Robert G. Kreutz  
*A. Kutyna, NE Dist*

DEPARTMENT OF HEALTH, WELFARE  
& BIO-ENVIRONMENTAL SERVICES  
Air Resources Division



July 1, 1991

Mr. Clair Fancy, P.E.  
Bureau of Air Quality Management  
Department of Environmental Regulation  
2600 Blair Stone Road  
Twin Towers Office Building  
Tallahassee, FL 32301-8241

**RE: Air Pollution Construction Application  
Metal Container Corporation - Duval County**

Dear Mr. Fancy:

In accordance with the permitting agreement between the districts (local programs) and the Central Permitting Section, the captioned construction permit application is being forwarded to your office for processing.

If Air Resources Division (ARD) may be of further assistance in this matter, please advise.

Very truly yours,

Darrel J. Hall  
Pollution Control Specialist

DJH/nic

Enclosure

cc: Mr. Andrew G. Kutyna, P.E., DER  
ARD Air Permitting File  
ARD File 1860-A

RECEIVED  
DER - MAIL ROOM  
1991 JUL - 2 AM 8:22







**Metal Container Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

BEST AVAILABLE COPY

000385

CHECK DATE	CHECK NUMBER
8/29/91	385

Manufacturers Hanover Bank (Delaware)  
1201 Market Street  
Wilmington, Delaware 19801

VOID 180 DAYS AFTER ISSUANCE



311-09  
2338

ONE THOUSAND DOLLARS & NO/100\*\*\*\*\*

**PAY THIS AMOUNT**

**\$\*\*1,000.00\*\***

METAL CONTAINER CORPORATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS

AUTHORIZED SIGNATURE  
  
 AUTHORIZED SIGNATURE



Re: **Metal Container Corporation -  
Jacksonville, Florida  
Can Plant Air Permitting**

Dear Ms. Heron:

Enclosed please find information supporting the permit application for the Line 5 Modernization and the Munters units at the Jacksonville Can Plant. This information is based upon our discussions in the August 27, 1991 meeting.

Munters Oil Mist Eliminators - enclosed are signed pages 1 and 2 of the construction permit application to accompany the August 12, 1991 information on these units. Check #385 for \$1000 is enclosed to cover the application fee.

New Source Performance Standards - the VOC contents of the coatings used on Lines 2, 3, 4, and 5 will not exceed the following limits:

- Basecoat - 0.28 kilogram per liter of solids
- Varnish - 0.40 kilogram per liter of solids
- Inside Spray - 0.85 kilogram per liter of solids

These limits meet the New Source Performance Standards for the Beverage Can Industry (40 CFR 60 Subpart WW).

Facility Annual Emissions - VOC emissions reported in 1989 and 1990 were relatively low due to a number of extenuating circumstances. During late 1988 and 1989, the Metal Container Corporation plant in Jacksonville experienced serious quality problems in can production. As a result of these problems, can lines were shut down for maintenance and VOC emissions were less than would be expected from full operation. In 1990, production improved although Line #1 was



# Metal Container Corporation

ONE OF THE ANHEUSER-BUSCH COMPANIES

## 000368

CHECK DATE	CHECK NUMBER
6/17/91	368

VOID 180 DAYS AFTER ISSUANCE

Manufacturers Hanover Bank (Delaware)  
1201 Market Street  
Wilmington, Delaware 19801

2338-09

\*\*\*\*\*ONE THOUSAND DOLLARS & NO/100\*\*\*\*\*

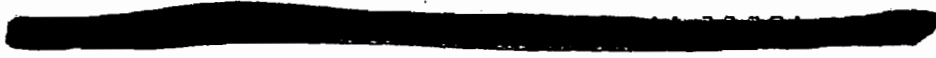
**PAY THIS AMOUNT**  
\$\*\*1,000.00\*\*

TO  
THE  
ORDER  
OF:

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATIONS

METAL CONTAINER CORPORATION

AUTHORIZED SIGNATURE  
*[Handwritten Signature]*  
AUTHORIZED SIGNATURE





**Metal Container Corporation**

ONE OF THE ANHEUSER-BUSCH COMPANIES

000368

CHECK NO.	368	DATE	6/17/91	VENDOR NO.
VENDOR	Florida Dept. of Envir. Regulations			

INVOICE NUMBER	INVOICE DATE	INVOICE DESCRIPTION	GROSS AMOUNT	DISCOUNTS, TAXES, RETENTION	NET AMOUNT
		Air Permit for Construction Jacksonville Modernization			\$1,000.00
		1031			

DETACH BEFORE DEPOSITING

TOTALS  
→

GROSS AMOUNT	NET AMOUNT
	\$1,000.00

<b>FROM</b> ANHEUSER BUSCH 1 BUSCH PL ST LOUIS MO 63118 DEAN E. BUSCH 202-4	<b>ORIGIN</b> DST <b>AIRBILL NO.</b> 480058121 <b>AIRBORNE EXPRESS</b>
<b>TO</b> BUREAU OF AIR QUALITY MGMT 6600 BLAIR STONE ROAD TALLAHASSEE FL 32301 TERESA HERON	<b>METHOD OF PAYMENT</b> <small>(ASSUMED SENDER UNLESS OTHERWISE NOTED)</small> <input checked="" type="checkbox"/> BILL SENDER <input type="checkbox"/> BILL RECEIVER <input type="checkbox"/> 3 <sup>rd</sup> PARTY    AIRBORNE ACCOUNT NO. <input type="checkbox"/> PAID IN ADVANCE    CHECK NO. / AMOUNT  BILLING REFERENCE (WILL APPEAR ON INVOICE)  NO. OF PACKAGES: 1    WEIGHT (LBS.): CHECK IF <input type="checkbox"/> SUBJECT TO CORRECTION <input type="checkbox"/> LETTER EXPRESS  <b>SPECIAL INSTRUCTIONS</b> <input type="checkbox"/> SAT <input type="checkbox"/> HAA <input type="checkbox"/> LAB <input type="checkbox"/>

*Dean E. Busch*

*TLH 4X*



48005 8121  
1219 50084  
121 850 084  
**ET BACKER**

THANK YOU FOR SHIPPING WITH AIRBORNE EXPRESS



ANHEUSER-BUSCH COMPANIES



June 17, 1991

RECEIVED

JUL 02 1991

Bureau of  
Air Regulation

Mr. Darrel J. Hall, P.E.  
Department of Health, Welfare and  
Bio-Environmental Services  
City of Jacksonville  
515 West 6th Street  
Jacksonville, Florida 32206

Dear Mr. Hall:

Enclosed please find four sets (one original and three copies) of an application to construct an air pollution source for a modification of Metal Container Corporation's Jacksonville Can Plant.

Metal Container Corporation plans to install a new can production line, designated Line 5. Existing production Line 1 will be shut down and existing Line 2 will be reconfigured to produce 16 ounce as well as 12 ounce cans. Existing Line 3 and Line 4 will remain unchanged. The two existing thermal oxidizers will be replaced by one regenerative thermal oxidizer system.

These modifications will result in an increase in annual volatile organic compound emissions of 14 tons.

This application package contains the appropriate forms and supporting data for a permit to construct. Given the construction schedule constraints, anything that can be done to expedite the application review will be greatly appreciated.

Please call me at (314) 577-4162 with any questions.

Sincerely,

ANHEUSER-BUSCH COMPANIES, INC.

Dean E. Pusch  
Sr. Environmental Scientist  
Enclosure  
061791

cc:

Teresa Heron  
Andy Kutyna, NE Dist. } 7-5-91 RA  
Darrell Hall, BESD

Anheuser-Busch Companies, Inc.  
Executive Offices  
One Busch Place  
St. Louis, MO U.S.A. 63118-1852  
Telex 447 117 ANBUSCH STL

**APPLICATION TO CONSTRUCT AN AIR POLLUTION SOURCE**

**METAL CONTAINER CORPORATION**

**JACKSONVILLE CAN PLANT**

**PRODUCTION LINE 5 ADDITION**

## INTRODUCTION

Metal Container Corporation intends to modify its Jacksonville Can Plant. A new production line capable of producing 2160 cans per minute will be installed. Existing production Line 1 will be shut down and existing Line 2 will be reconfigured to produce 16 ounce as well as 12 ounce cans. Existing Line 3 and Line 4 will remain unchanged. The two existing thermal oxidizers will be replaced by a single regenerative thermal oxidizer system.

After this modification, the facility will be capable of producing 3.2 billion cans annually. The current facility has an annual capacity of 2.7 billion cans.

Potential volatile organic compound emissions will increase from the currently permitted 376 tons per year to 390 tons per year, an increase of 14 tons per year. This small increase in potential emissions associated with the significant increase in production capacity reflects the continuing success that the facility has had with projects designed to reduce and control coating usage.

The following sections present the application forms and supporting data for a permit to construct the proposed modification.

## PROJECT DESCRIPTION

The modification of the plant includes the following:

- o addition of one 2160 can per minute production line - designated Line 5;
- o shut down of existing Line 1;
- o shifting of 16 ounce can production to existing Line 2;
- o addition of one bodymaker to existing Line 2.
- o retention of two inside spray machines and one inside bake oven from Line 1 for inside respray;
- o addition of a new regenerative thermal oxidizer; and
- o shut-down of the two existing thermal oxidizers.

Page 2

Line 3 and Line 4 will not be changed due to this modification project.

Attachment A is a flow diagram of the existing facility. Attachment B diagrams the facility after the addition of Line 5 and the new thermal oxidizer system, and the shut down of Line 1 and the two existing thermal oxidizers.

Annual production capacity will increase from 2.747 billion cans to 3.153 billion cans. Although production capacity will increase significantly, the facility's potential annual emissions will increase only 14 tons, from the current 376 tons to 390 tons. This minimal emissions increase is due to the facility's reduction and control of coating usage.

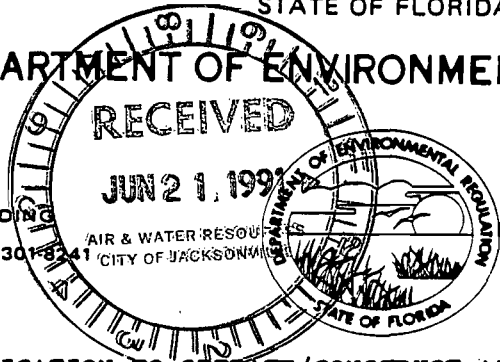
The spreadsheets in Attachment C present the maximum hourly and average annual emissions from the facility after the modification. These emissions estimates are based on typical coatings and solvents used at the facility.



Received: #1000  
Regt. # 151286  
AC16-119113

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



RECEIVED

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301-8241

AIR & WATER RESOURCES  
CITY OF JACKSONVILLE

JUL 02 1991

BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

Bureau of  
Air Regulation

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Two-piece Can Manufacturing [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: Metal Container Corporation COUNTY: Duval

Identify the specific emission point source(s) addressed in this application (i.e. Lime  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Can Lines 2,3,4,5 & respray

SOURCE LOCATION: Street 1100 N. Ellis Road City Jacksonville

UTM: East 428,440 North 3356.77

Latitude 30° 20' 15" N Longitude 81° 44' 42" W

APPLICANT NAME AND TITLE: D. E. Pusch, Sr. Environmental Scientist

APPLICANT ADDRESS: One Busch Place, (202-4), St. Louis, MO 63118

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Metal Container Corporation

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: Gary L. Reynolds

Gary L. Reynolds, Plant Manager  
Name and Title (Please Type)

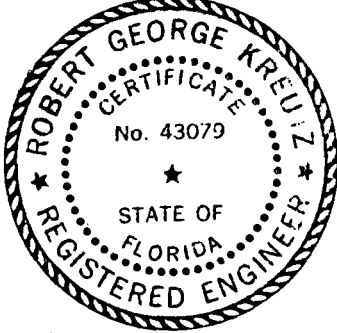
Date: 6/20/91 Telephone No. 904/695-7600

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

<sup>1</sup> See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.



Signed Robert George Kreutz

Robert G. Kreutz  
Name (Please Type)

Anheuser-Busch Companies, Inc.  
Company Name (Please Type)

One Busch Place (124-1) St. Louis, MO 63118  
Mailing Address (Please Type)

Florida Registration No. 43079 Date: 6/19/91 Telephone No. (314) 577-4821

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

A new can production line, Line 5, will be added. Existing Line 1 will be shut down. Existing Line 2 will be reconfigured to allow production of 16 oz. cans as well as 12 oz. cans. Existing Line 3 & 4 will continue to operate as they currently do. Two existing thermal oxidizers will be replaced by one large regenerative thermal oxidizer.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction 8/91 Completion of Construction 6/92

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Regenerative thermal oxidizer system - \$1,800,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

AC 16-187863 issued 6/7/91 expires 11/30/91

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;  
if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. If this is a new source or major modification, answer the following questions. Not appli-  
(Yes or No) cable

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_
  - a. If yes, has "offset" been applied? \_\_\_\_\_
  - b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_
  - c. If yes, list non-attainment pollutants. \_\_\_\_\_
2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_
3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_
4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_
5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

- H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_ Yes
- a. If yes, for what pollutants? VOC
  - b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

Information presented for entire facility-see attached spreadsheets for individual lines.

**A. Raw Materials and Chemicals Used in your Process, if applicable:**

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Basecoat	VOC	8.5	184.4	
Inside Spray	VOC	14.5	665.6	
Varnish (over and bottom)	VOC	11.0	364.9	
Inks	VOC	22.0	28.8	
Clean-up Solvent	VOC	100.0	9.4	

**B. Process Rate, if applicable: (See Section V, Item 1)**

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

**C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)**

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
VOC	100.9	389.8			191.0	699.8	

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input).

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Thermal Oxidizer	VOC	90%	N/A	Manufacturer's Specifications

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

Scrap Aluminum - recycled

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H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated (max.)						85.3	
Uncontrolled (lbe/hr)						94.8	

Description of Waste VOC  
 Total Weight Incinerated (lbe/hr) 85.3 Design Capacity (lbe/hr) --  
 Approximate Number of Hours of Operation per day 24 day/wk 7 wks/yr. 52  
 Manufacturer JWP Energy & Environmental - Air Technologies  
 Date Constructed -- Model No. --

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Combustion Chambers <u>--</u>		<u>--</u>	<u>natural gas</u>	<u>2.3 million</u>	<u>1500</u>

Stack Height: 45 ft. Stack Diameter: 64 in. Stack Temp. 396<sup>0</sup>F  
 Gas Flow Rate: \_\_\_\_\_ ACFM 38,000 DSCFM\* Velocity: 47 FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) REGENERATIVE THERMAL OXIDIZER

*1 Stack*

Brief description of operating characteristics of control devices: The thermal oxidizer will be a regenerative unit in which direct contact heat exchangers are used to preheat the waste stream. This type of system affords high energy recovery and destruction efficiency. Attachment B identifies the process streams which will be captured and ducted to the thermal oxidizer.

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

N/A

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

#### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes  No

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____
_____	_____

D. Describe the existing control and treatment technology (if any).

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining



- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.
- b. Diameter: ft.
- c. Flow Rate: ACFM
- d. Temperature: °F.
- e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:<sup>1</sup>
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:<sup>2</sup>
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 3.
  - a. Control Device:
  - b. Operating Principles:
  - c. Efficiency:<sup>1</sup>
  - d. Capital Cost:
  - e. Useful Life:
  - f. Operating Cost:
  - g. Energy:<sup>2</sup>
  - h. Maintenance Cost:
  - i. Availability of construction materials and process chemicals:
  - j. Applicability to manufacturing processes:
  - k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 4.
  - a. Control Device:
  - b. Operating Principles:
  - c. Efficiency:<sup>1</sup>
  - d. Capital Costs:
  - e. Useful Life:
  - f. Operating Cost:
  - g. Energy:<sup>2</sup>
  - h. Maintenance Cost:
  - f. Availability of construction materials and process chemicals:
  - j. Applicability to manufacturing processes:
  - k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:<sup>1</sup>
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:<sup>2</sup>
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
  - a. (1) Company:
  - (2) Mailing Address:
  - (3) City:
  - (4) State:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

**SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION**

**A. Company Monitored Data**

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

\*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent?  Yes  No
- b. Was instrumentation calibrated in accordance with Department procedures?  
 Yes  No  Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
- 2. Surface data obtained from (location) \_\_\_\_\_
- 3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
- 4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

- 1. \_\_\_\_\_ Modified? If yes, attach description.
- 2. \_\_\_\_\_ Modified? If yes, attach description.
- 3. \_\_\_\_\_ Modified? If yes, attach description.
- 4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

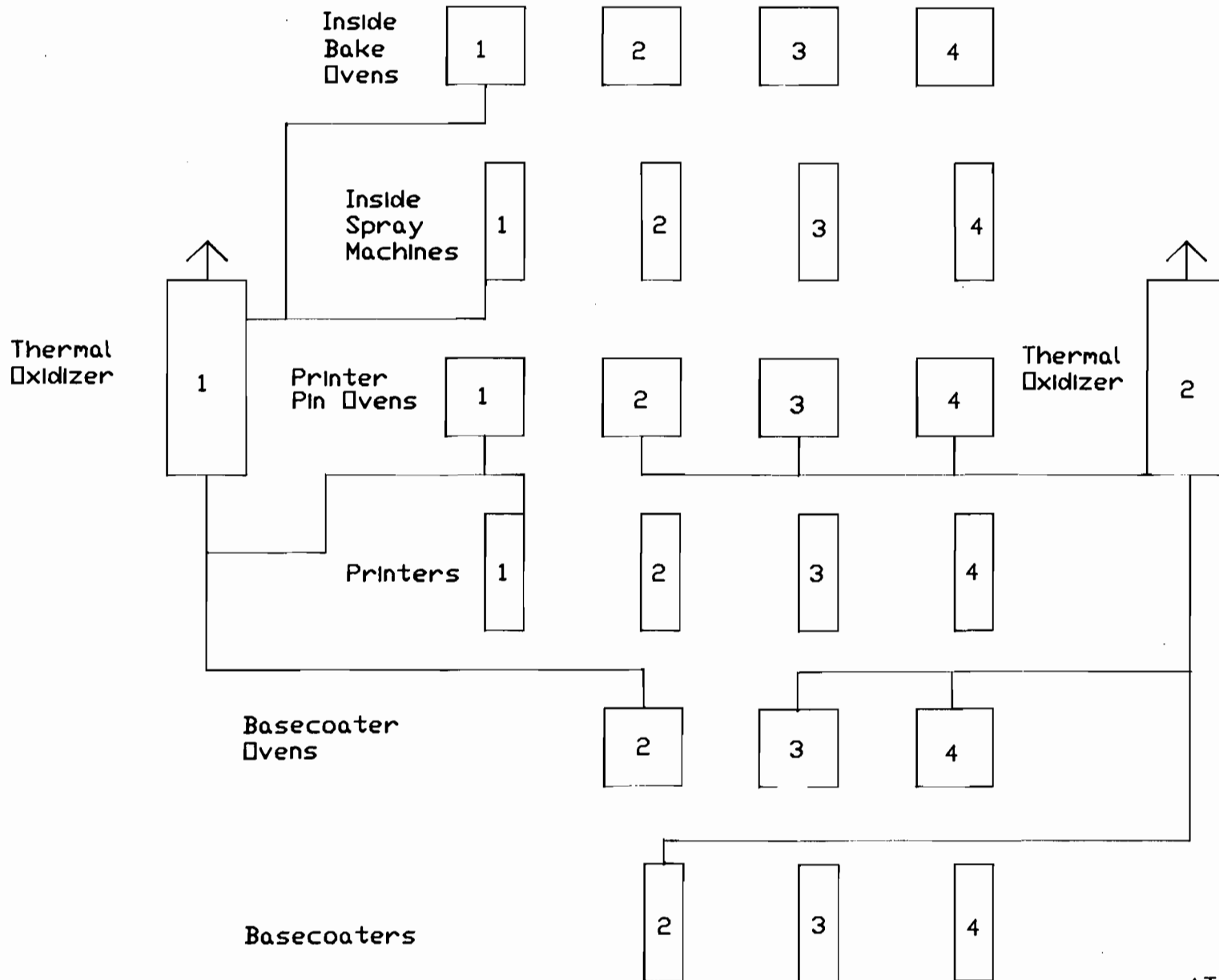
Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sup>2</sup>	_____ grams/sec

E. Emission Data Used in Modeling

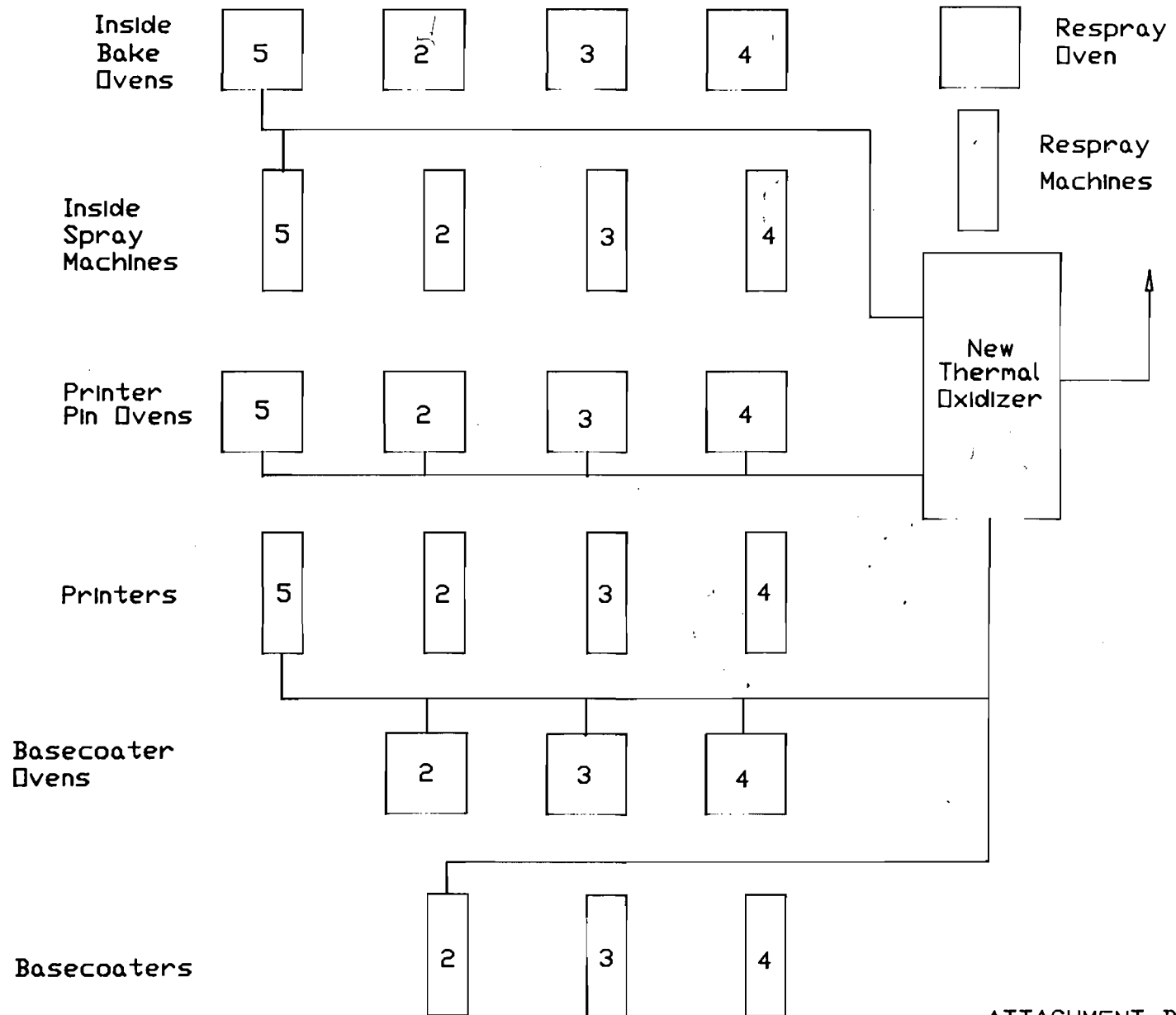
Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

- F. Attach all other information supportive to the PSD review.
- G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

METAL CONTAINER CORPORATION  
JACKSONVILLE, FLORIDA  
EXISTING CONFIGURATION



METAL CONTAINER CORPORATION  
 JACKSONVILLE, FLORIDA  
 AFTER LINE 5 ADDITION



7-15-2011 10:00 AM

**ATTACHMENT C**  
**EMISSIONS CALCULATIONS**

METAL CONTAINER CORPORATION  
 JACKSONVILLE BEVERAGE CAN MANUFACTURING FACILITY (LINE5REV)  
 ANNUAL EMISSIONS – LINE 5 ADDITION

SCENARIO:

LINE 5 @ 2160 CPM; ALL 12 OZ CANS; NO BASECOATED CANS  
 LINE 2 @ 1300 CPM 16 OZ, 1400 CPM 12 OZ; 85% OF 16 OZ CANS BASECOATED  
 LINE 3 @ 1400 CPM; ALL 12 OZ CANS; 60% OF CANS BASECOATED  
 LINE 4 @ 1400 CPM; ALL 12 OZ CANS; 60% OF CANS BASECOATED  
 0.5% OF ANNUAL PRODUCTION RESPRAYED  
 ALL LINES @ 95% EFFICIENCY, 365 DAYS/YEAR

LINE 5 – 12 OZ ANNUAL PRODUCTION: 1.079E+09  
 LINE 2 – 16 OZ ANNUAL PRODUCTION: 3.020E+08  
 LINE 2 – 12 OZ ANNUAL PRODUCTION: 3.739E+08  
 LINE 3 – 12 OZ ANNUAL PRODUCTION: 6.990E+08  
 LINE 4 – 12 OZ ANNUAL PRODUCTION: 6.990E+08

COATING/SOLVENT	MANUFACTURERS IDENTIFICATION	USAGE (GALS)	DENSITY (PPG)	VOC FRACTION (BY WEIGHT)	UNCONTROLLED VOC EMISSIONS (TPY)	CAPTURE EFFICIENCY (BY WEIGHT)	VOC EMISSIONS				USAGE RATE (GALS/1000 CANS)
							FUGITIVE (TPY)	T.O. INLET (TPY)	T.O. OUTLET (TPY)	TOTAL (TPY)	

LINE 5 – 12 OUNCE CANS

INSIDE SPRAY	GLID 640-C-554	215,706	8.50	0.145	132.47	0.90	13.25	119.22	11.92	25.17	0.200
VARNISH	PPG 3625X	114,324	8.80	0.110	55.33	0.90	5.53	49.80	4.98	10.51	0.106
PRINTING INKS	VARIOUS	8,628	10.50	0.220	9.97	0.90	1.00	8.97	0.90	1.89	0.008
CLEAN-UP SOLVENTS MISC		3,343	7.50	1.000	12.54	0.00	12.54	0.00	0.00	12.54	0.003
SUBTOTALS					210.31		32.31	177.99	17.80	50.11	



LINE 2 - 12 AND 16 OUNCE CANS

WHITE BASECOAT	PPG 3606	39,357	11.30	0.085	18.90	0.90	1.89	17.01	1.70	3.59	0.153
INSIDE SPRAY	GLID 640-C-554	80,022	8.50	0.145	49.14	0.00	49.14	0.00	0.00	49.14	0.265
		74,770	8.50	0.145	45.92	0.00	45.92	0.00	0.00	45.92	0.200
VARNISH	PPG 3625X	41,974	8.80	0.110	20.32	0.83	3.45	18.86	1.69	5.14	0.139
		39,828	8.80	0.110	19.18	0.83	3.26	15.92	1.59	4.85	0.106
PRINTING INKS	VARIOUS	3,020	10.50	0.220	3.49	0.83	0.59	2.89	0.29	0.88	0.010
		2,991	10.50	0.220	3.45	0.83	0.59	2.87	0.29	0.87	0.008
CLEAN-UP SOLVENTS MISC		2,703	7.50	1.000	10.14	0.00	10.14	0.00	0.00	10.14	0.004
SUBTOTALS					170.54		114.98	55.55	5.56	120.54	

LINE 3 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	48,234	11.30	0.085	23.16	0.90	2.32	20.85	2.08	4.40	0.115
INSIDE SPRAY	GLID 640-C-554	139,810	8.50	0.145	85.86	0.00	85.86	0.00	0.00	85.86	0.200
VARNISH	PPG 3625X	74,099	8.80	0.110	35.86	0.83	6.10	29.77	2.98	9.07	0.106
PRINTING INKS	VARIOUS	5,592	10.50	0.220	6.46	0.83	1.10	5.36	0.54	1.63	0.008
CLEAN-UP SOLVENTS MISC		2,167	7.5	1.000	8.13	0.00	8.13	0.00	0.00	8.13	0.003
SUBTOTALS					159.47		103.50	55.98	5.60	109.10	

LINE 4 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	48,234	11.30	0.085	23.16	0.90	2.32	20.85	2.08	4.40	0.115
INSIDE SPRAY	GLID 640-C-554	139,810	8.50	0.145	85.86	0.00	85.86	0.00	0.00	85.86	0.200
VARNISH	PPG 3625X	74,099	8.80	0.110	35.86	0.83	6.10	29.77	2.98	9.07	0.106
PRINTING INKS	VARIOUS	5,592	10.50	0.220	6.46	0.83	1.10	5.36	0.54	1.63	0.008
CLEAN-UP SOLVENTS MISC		2,167	7.50	1.000	8.13	0.00	8.13	0.00	0.00	8.13	0.003

SUBTOTALS                    159.47                    103.50                    55.98                    5.60                    109.10

RESPRAY OPERATIONS

INSIDE SPRAY	GLID 640-C-554	1,576	8.50	0.145	0.97	0.00	0.97	0.00	0.00	0.97	0.100
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FACILITY TOTALS                    699.79                    354.29                    345.50                    34.55                    389.81

EMISSIONS (TPY)                    389.81

METAL CONTAINER CORPORATION  
 JACKSONVILLE BEVERAGE CAN MANUFACTURING FACILITY (LN5REVHR)  
 MAXIMUM HOURLY EMISSIONS

SCENARIO: LINE 5 @ 2160 CPM; ALL 12 OZ CANS; NO BASECOATED CANS  
 LINE 2 @ 1300 CPM 16 OZ, ALL CANS BASECOATED  
 LINE 3 @ 1400 CPM; ALL 12 OZ CANS, ALL CANS BASECOATED  
 LINE 4 @ 1400 CPM; ALL 12 OZ CANS, ALL CANS BASECOATED  
 MAXIMUM RESPRAY 800 CPM  
 ALL LINES @ 100% EFFICIENCY

LINE 5 - 12 OZ CAN PRODUCTION: 1.286E+05  
 LINE 2 - 16 OZ CAN PRODUCTION: 7.800E+04  
 LINE 3 - 12 OZ CAN PRODUCTION: 8.400E+04  
 LINE 4 - 12 OZ CAN PRODUCTION: 8.400E+04

COATING/SOLVENT	MANUFACTURERS IDENTIFICATION	USAGE (GALS)	DENSITY (PPG)	VOC FRACTION (BY WEIGHT)	UNCONTROLLED VOC EMISSIONS (LBS/HR)	CAPTURE EFFICIENCY (BY WEIGHT)	VOC EMISSIONS				USAGE RATE (GALS/1000 CANS)
							FUGITIVE (LBS/HR)	T.O. INLET (LBS/HR)	T.O. OUTLET (LBS/HR)	TOTAL (LBS/HR)	
LINE 5 - 12 OUNCE CANS											
INSIDE SPRAY	GLID 640-C-554	26	8.50	0.145	31.84	0.90	3.18	28.65	1.43	4.62	0.200
VARNISH	PPG 3625X	14	8.80	0.110	13.30	0.90	1.33	11.97	0.60	1.93	0.106
PRINTING INKS	VARIOUS	1	10.50	0.220	2.40	0.90	0.24	2.16	0.11	0.35	0.008
CLEAN-UP SOLVENTS MISC		0	7.50	1.000	3.01	0.00	3.01	0.00	0.00	3.01	0.003
SUBTOTALS					50.54		7.77	42.78	2.14	9.90	

LINE 2 - 16 OUNCE CANS

WHITE BASECOAT	PPG 3606	12	11.3	0.085	11.46	0.90	1.15	10.32	0.52	1.66	0.153
INSIDE SPRAY	GLID 640-C-554	21	8.50	0.145	25.39	0.00	25.39	0.00	0.00	25.39	0.265
VARNISH	PPG 3625X	8	8.80	0.110	8.00	0.83	1.36	6.64	0.33	1.69	0.106
PRINTING INKS	VARIOUS	1	10.50	0.220	1.80	0.83	0.31	1.50	0.07	0.38	0.010
CLEAN-UP SOLVENTS MISC		0	7.50	1.000	1.81	0.00	1.81	0.00	0.00	1.81	0.003
SUBTOTALS					48.47		30.01	18.45	0.92	30.94	

LINE 3 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	10	11.30	0.085	9.28	0.90	0.93	8.35	0.42	1.35	0.115
INSIDE SPRAY	GLID 640-C-554	17	8.50	0.145	20.63	0.00	20.63	0.00	0.00	20.63	0.200
VARNISH	PPG 3625X	9	8.80	0.110	8.62	0.83	1.47	7.15	0.36	1.82	0.106
PRINTING INKS	VARIOUS	1	10.50	0.220	1.55	0.83	0.26	1.29	0.06	0.33	0.008
CLEAN-UP SOLVENTS MISC		0	7.5	1.000	1.95	0.00	1.95	0.00	0.00	1.95	0.003
SUBTOTALS					42.04		25.24	16.79	0.84	26.08	

LINE 4 - ALL 12 OUNCE CANS

WHITE BASECOAT	PPG 3606	10	11.30	0.085	9.28	0.90	0.93	8.35	0.42	1.35	0.115
INSIDE SPRAY	GLID 640-C-554	17	8.50	0.145	20.63	0.00	20.63	0.00	0.00	20.63	0.200
VARNISH	PPG 3625X	9	8.80	0.110	8.62	0.83	1.47	7.15	0.38	1.82	0.106
PRINTING INKS	VARIOUS	1	10.50	0.220	1.55	0.83	0.26	1.29	0.08	0.33	0.008
CLEAN-UP SOLVENTS MISC		0	7.50	1.000	1.95	0.00	1.95	0.00	0.00	1.95	0.003
SUBTOTALS					42.04		25.24	16.79	0.84	26.08	

RESPRAY OPERATIONS

INSIDE SPRAY	GLID 640-C-554	6	8.50	0.145	7.87	0.00	7.87	0.00	0.00	7.87	0.133
FACILITY TOTALS					190.95		96.14	94.82	4.74	100.88	
EMISSIONS (LBS/HR)					100.88						

*Can Coatings Lines  
Metal Container*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
DIVISION OF AIR RESOURCES MANAGEMENT

*Duval County*

AIR POLLUTION PERMIT APPLICATION - LONG FORM

See Specific Instructions for Form 17-220.900(1)

APPLICANT CERTIFICATION

I, the undersigned, am the owner or authorized representative\* of the facility described in this application. I certify that the statements made in this application for permit are true, correct, and complete to the best of my knowledge. Further, I agree to operate and maintain the source(s) of air pollutants and air pollution control equipment described in this application so as to comply with all provisions of Chapter 403, Florida Statutes, and all applicable rules and regulations of the Department of Environmental Regulation and revisions thereof. I also understand that any permit, if granted by the Department, will be nontransferable, and I will promptly notify the Department upon sale or legal transfer of any permitted source.

\*Attach letter of authorization if not currently on file.

Signature

Date (See note below)

Note: Each subsequent page of this form must also be so dated.

APPLICATION FORM TYPE

This Application Involves (Check One):

- A single air pollutant emission source.
- A group of similar sources regulated collectively and addressed on this copy only of Form 17-220.900(1).
- A group of similar sources regulated individually and addressed on separate copies of Form 17-220.900(1).  
This is form \_\_\_\_\_ of a total of \_\_\_\_\_ forms submitted.

APPLICATION PURPOSE

This Application is Submitted to (Check One):

- Obtain permit to construct new source or similar-source group.
- Obtain permit to modify existing source or similar-source group.  
Current Air Construction Permit No. AC 16-199113
- Application for air permit for previously unpermitted source or similar-source group.
- Supplement application for power-plant site certification.



AIRO20	Distict 31	Office DVL	County 16	Facility 0097	APIS	
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**FACILITY INFORMATION**

1. Facility Owner/Company Name <i>metal Containers Corporation</i>			
2. Facility Name/Street Address or Location Description <i>two-piece can manufacturing / 1100 N. Ellis Road</i>			3. Facility Location Zip Code
4. Facility City <i>Jacksonville</i>		County <i>Duval</i>	
6. Facility Type Code/Description <i>30 / Surface Coating Operation</i>			5. Major Facility? <i>Y</i>
7. Synthetic Minor Facility?			
8. Facility UTM Coordinates (km)	Zone	East <i>428.440</i>	North <i>3356.77</i>
9. Facility Lat./Long. (deg, min, sec)	Latitude <i>30° 20' 15"</i>		Longitude <i>81° 44' 42"</i>
10. Facility Compliance Tracking Codes	CDS	VOC	11. RFP Tracked?
12. Facility Comment (60 Characters) <i>This permit supersedes existing permit AC16-187863 which comprised originally can coating lines DE 1, 2, 3 and 4 controlled by 2 thermal oxidizers.</i>			

**SUPPLEMENTAL FACILITY INFORMATION**

*on file*

1. Area Map Showing Facility Location <input type="checkbox"/> Attached
2. Facility Plot Plan (Including Building Dimensions) <input type="checkbox"/> Attached
3. Precautions to Prevent Unconfined Emissions of Particulate Matter <input type="checkbox"/> Attached
4. Facility Flow Diagram <input type="checkbox"/> Attached



AIR021	Distict [ ][ ]	Office [ ][ ][ ]	County [ ][ ]	Facility [ ][ ][ ][ ]	APIS [ ][ ]
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**OWNER/CONTACT INFORMATION**

<b>1. Individual Owner or Authorized Representative</b>		
Name <i>BARY L. Reynolds</i>		
Organization/Firm <i>Metal Container Corporation</i>		
Street Address or P.O. Box <i>1100 N. Ellis Road</i>		
City <i>Jacksonville</i>	State <i>Florida</i>	Zip <i>32206-6257</i>
Telephone <i>(904) 695-7600</i>		
<b>2. Facility Contact for Air Regulatory Matters</b>		
Name		
Organization/Firm		
Street Address or P.O. Box		
City	State	Zip
Telephone <i>( )</i>		

DESCRIPTION OF SOURCE OR COLLECTIVELY-REGULATED SIMILAR-SOURCE GROUP

Pan Coating Lines N<sup>o</sup> 2, 3, 4, 5 & <sup>respray</sup>  
and oil mist control system

SUPPLEMENTAL SOURCE INFORMATION

1. Flow Diagram <input checked="" type="checkbox"/> Attached
2. Fuel Analysis <input type="checkbox"/> Attached <input type="checkbox"/> Not Applicable
3. Control Equipment Details <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Not Applicable (No Control Equipment Used)
4. Other Information Required by Rule or Statute (Check if Attached) <input type="checkbox"/> PSD <input type="checkbox"/> NAA NSR <input type="checkbox"/> Other: _____

SOURCE OR  
SOURCE-GROUP  
IDENTIFIER

SOURCE APIS ID

AIR030	Distict	Office	County	Facility	Source	APIS

APPLICATION PROCESSING AND SOURCE TRACKING INFORMATION

1. Construction Permit/PPS Information:					
Permit Number Assigned This Application AC 16 - 199113		PPS Number Assigned This Application		Fee Paid \$ 1000	
Date Permit Issued MM/DD/YY 10/15/91			Date Permit Expires MM/DD/YY 5/31/93		
2. Description of Source or Source-Group for APIS Tracking (60 Characters) This facility comprises 5 sources identified as Can coating lines N <sup>o</sup> 2, 3, 4 & 5 and the oil mist control system. The thermal incinerator was added as a Sep source.					
3. Similar Source APIS ID's (For Single Application Fee)					
4. Source Status C		5. Major Source? Y		6. AOR Required?	
7. Source Type Code 45		8. Source SIC Code 3411		9. Escape PSD or NAA Review?	
10. NSPS WW	11. NESHAP	12. 111(d)	13. PSD	14. NAA NSR	15. RACT
16. Source Comment (104 Characters) This facility escape NAA review because the netting calculator showed a decrease of 8 tons per year after the proposed modification will take place.					

AIR032	Distict	Office	County	Facility	Source	APIS

**SOURCE OPERATION SCHEDULE INFORMATION**

1. Typical Operating Schedule	hr/dy	dy/wk	2. Average Annual Operation	wk/yr	hr/yr
3. Typical % Hours of Operation by Season		DJF	MAM	JJA	SON
		25	25	25	25
4. Maximum Operating Schedule	hr/dy	dy/wk	wk/yr	hr/yr	
	24	7	52	8760	
5. Permitted Operating Schedule	hr/dy	dy/wk	wk/yr	hr/yr	
	24	7	52	8760	

**SOURCE OPERATING RATE INFORMATION**

1. Maximum Heat Input (Boilers Only)	Units
	Million Btu/Hour
2. Maximum Process Rate	Units
Line No 2	1300 cans per minute
Line No 3	1400 cans per minute
Line No 4	1400 cans per minute
Line No 5	2160 cans per minute
3. Maximum Production Rate	Units

AIR033	Distict [ ][ ]	Office [ ][ ][ ]	County [ ][ ]	Facility [ ][ ][ ][ ]	Source [ ][ ][ ]	APIS [ ][ ][ ]
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**SOURCE EMISSION POINT INFORMATION**

1. Emission Point Type		2. Point ID on Diagram		3. Sources with Common Stack	
4. Stack Height (ft)		5. Exit Diameter (ft)		6. Exit Temperature (Degree Farenheit)	
7. Actual Volumetric Flow Rate (acfm)			8. Dry Standard Flow Rate (dscfm)		
9. Nonstack Emission Point Description and Height (ft)		10. Building Description(s) and Dimensions (ft)		Height	Width
11. Point UTM Coordinates - Optional (km)		Height	Width	12. Good Engineering Practice Stack Height (ft)	
13. Emission Point Comments (52 Characters)					

**SOURCE CONTROL EQUIPMENT INFORMATION**

1a. Description of Control Equipment 'a'		
<i>Regenerative Thermal oxidizer system</i>		
1b. Description of Control Equipment 'b'		
2. Year of Cost Estimate	3. Estimated Annualized Capital Cost for Air Pollution Control <i>1,800,000</i>	4. Estimated Annual Operating Cost for Air Pollution Control

AIR034	Distict	Office	County	Facility	Source	APIS

SOURCE PROCESS INFORMATION

Coating Line N<sup>o</sup> 2

1a. Component Process or Fuel Type Employed 'a'		2a. Source Classification Code	
Can coating process		4-02-017-35	
3a. Rate Units	4a. Max Rate/Hour	5a. Rate Limit/Hour	
tons solvent in coating	0.02 $\frac{ton}{hr}$	—	
	6a. Estimated Rate/Year	7a. Rate Limit/Year	
—	—	— 170.54	
8a. Max % Sulfur	9a. Max % Ash	10a. MMBTU/Unit	11a. % Sulfur Limit

12a. SCC Comment for Above Process/Fuel (52 Characters)

Each coating line utilizes NSPS coatings  
 This rate reflects the total VOC quantity in coatings  
 (uncontrolled emissions)

Coating Line N<sup>o</sup> 3

1b. Component Process or Fuel Type Employed 'b'		2b. Source Classification Code	
Can coating process		4-02-017-	
3b. Rate Units	4b. Max Rate/Hour	5b. Rate Limit/Hour	
tons solvent in coating	0.02 $\frac{ton}{hr}$	—	
	6b. Estimated Rate/Year	7b. Rate Limit/Year	
—	—	— 159.47	
8b. Max % Sulfur	9b. Max % Ash	10b. MMBTU/Unit	11b. % Sulfur Limit

12b. SCC Comment for Above Process/Fuel (52 Characters)

Each coating line utilizes NSPS coatings  
 This rate reflects the total VOC quantity in coating

Total allowable for Inco.

AIR 34

Need one for the oil control system  
 How many stacks? 1? or each line

Total

Go to the Line Stack

or does each line have its own fuel.

AIR034	Distict	Office	County	Facility	Source	APIS

SOURCE PROCESS INFORMATION (Continued)

*Coating line N° 4*

1c. Component Process or Fuel Type Employed 'c'		2c. Source Classification Code	
<i>Can coating process</i>			
3c. Rate Units	4c. Max Rate/Hour	5c. Rate Limit/Hour	
<i>tons solvent in coating</i>	<i>0.02 <math>\frac{tm}{hr}</math></i>		
	6c. Estimated Rate/Year	7c. Rate Limit/Year	
		<i>159.47</i>	
8c. Max % Sulfur	9c. Max % Ash	10c. MMBTU/Unit	11c. % Sulfur Limit
<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
12c. SCC Comment for Above Process/Fuel (52 Characters)			
<i>Each coating line utilizes WSPS coatings This rate reflects total VOC emissions in coating (uncontrolled emissions)</i>			

*Coating line N° 5*

1d. Component Process or Fuel Type Employed 'd'		2d. Source Classification Code	
<i>Can coating process</i>			
3d. Rate Units	4d. Max Rate/Hour	5d. Rate Limit/Hour	
<i>tons solvent in coating</i>	<i>— 0.02 <math>\frac{tm}{hr}</math></i>	<i>—</i>	
	6d. Estimated Rate/Year	7d. Rate Limit/Year	
	<i>—</i>	<i>— 210.31</i>	
8d. Max % Sulfur	9d. Max % Ash	10d. MMBTU/Unit	11d. % Sulfur Limit
<i>—</i>			
12d. SCC Comment for Above Process/Fuel (52 Characters)			
<i>Each coating line utilizes WSPS coatings This rate reflects total VOC emissions in coating (uncontrolled emissions)</i>			

AIR038	Distict	Office	County	Facility	Source	APIS
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

PSD INFORMATION

1. PSD Increment Consuming/Expanding? (C, E, or N)	
<p style="text-align: center;"><i>VOE = N</i> <span style="margin-left: 200px;"><i>PM =</i></span></p>	
2. Baseline Emissions	
SO2 Short Term (lb/hr)	SO2 Annual (ton/yr)
PM Short Term (lb/hr)	PM Annual (ton/yr)
<i>3.3</i>	<i>14.5</i>
NO2 Short Term (lb/hr)	NO2 Annual (ton/yr)
3. Permit Issue Date	
4. Last PSD Permit Date	5. Last PSD Permit Number
6. Comments	
<p style="text-align: center;"><i>This is a source of VOC emissions. Particulate matter emissions are from the oil mist control system.</i></p>	



District	Office	County	Facility	Source	APIS
AIR040					

POLLUTANT INFORMATION

1. Pollutant Emitted VOC PM		2. Total % Efficiency of Control 90% Thermal oxidizer filters 99%									
3. Primary Control Device Code Thermal oxidizer		4. Secondary Control Device -									
5. Emission Factor 0.28 0.40 0.80	6. Emission Factor Units kilogram of VOC per liter of coating	7. Emission Factor Reference NSPS Subpart WW									
8. Potential Emission		<table border="1"> <tr> <td>26.67 (line D<sup>2</sup> 2)</td> <td>24.17 (line D<sup>2</sup> 4)</td> <td>114 (line D<sup>2</sup> 2)</td> <td>105 (line D<sup>2</sup> 4)</td> </tr> <tr> <td>24.17 (line D<sup>2</sup> 3)</td> <td>9.17 (line D<sup>2</sup> 5)</td> <td>105 (line D<sup>2</sup> 3)</td> <td>38.7 (line D<sup>2</sup> 5)</td> </tr> </table>		26.67 (line D <sup>2</sup> 2)	24.17 (line D <sup>2</sup> 4)	114 (line D <sup>2</sup> 2)	105 (line D <sup>2</sup> 4)	24.17 (line D <sup>2</sup> 3)	9.17 (line D <sup>2</sup> 5)	105 (line D <sup>2</sup> 3)	38.7 (line D <sup>2</sup> 5)
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24.17 (line D <sup>2</sup> 3)	9.17 (line D <sup>2</sup> 5)	105 (line D <sup>2</sup> 3)	38.7 (line D <sup>2</sup> 5)								
9. Estimated Emission (ton/yr)		10. Emission Estimate Method Code 5									
11. Requested Emission Limit(s)	lb/hr	ton/yr	12. Requested Emission Limit in Units Other Than lb/hr -								
13. Allowable Emissions	lb/hr	ton/yr	14. Allowable Emission Limit in Units Other Than lb/hr 0.32 ton/day (line 2) 0.20 ton/day (line 4) 0.29 ton/day (line 3) 0.11 ton/day (line 5)								
15. Regulation Code NSPS - Subpart WW		16. CEM Required?									
17. Compliance Test Frequency		18. Frequency Base Date									
19. Pollutant Comment (60 Characters) Each NSPS standard is applicable to different coating operations. Please refer to Subpart WW for appropriate classification (overvornish-basecoat-interior). Emissions are required in a daily and monthly bases.											

same

26.67  
 24.17  
 24.17  
 9.17  
 -----  
 84.18      ≈      85.3

CALCULATIONS SHOWING BASIS OF POLLUTANT INFORMATION ON REVERSE

[Empty box for calculations]

AIR042	Distict [ ][ ]	Office [ ][ ][ ]	County [ ][ ]	Facility [ ][ ][ ][ ]	Source [ ][ ][ ]	[ ][ ][ ]	APIS [ ][ ][ ]
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**SOURCE VISIBLE EMISSIONS INFORMATION**

1a. Visible Emissions Subtype 'a'		
<i>VE</i> <span style="margin-left: 200px;"><i>for the oil control system</i></span>		
2a. Allowable Opacity	Normal Conditions	Exceptional Conditions
<i>20%</i>	<i>20%</i> %	% min/hr
3a. Regulation Code		4a. CEM Required?
<i>GENVE</i>		<i>N</i>

1b. Visible Emissions Subtype 'b'		
2b. Allowable Opacity	Normal Conditions	Exceptional Conditions
	%	% min/hr
3b. Regulation Code		4b. CEM Required?

1c. Visible Emissions Subtype 'c'		
2c. Allowable Opacity	Normal Conditions	Exceptional Conditions
	%	% min/hr
3c. Regulation Code		4c. CEM Required?

AIR060	Distict [ ][ ]	Office [ ][ ]	County [ ][ ]	Facility [ ][ ][ ]	Source [ ][ ]	APIS [ ][ ]
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**BOILER INFORMATION**

1. Boiler Manufacturer
2. Boiler Model Number
3. Boiler Type
4. Maximum Steam Production Rate (lb/hr) and/or Horsepower
5. Generator Nameplate Rating (Gross MW)
6. Boiler Comment

AIR061	Distict	Office	County	Facility	Source	APIS

INCINERATOR/RESOURCE RECOVERY INFORMATION

1. Incinerator Manufacturer		
JWP Energy & Environmental - Air Technologies		
2. Incinerator Type		
Regenerative Thermal Oxidizer		
3. Incinerator Maximum Design Capacity	lb/hr	ton/day
	85.3	1.02
4. Dwell Time/Temperature	1500	5. Afterburner Temperature
sec. @	F	F
6. Type(s) of Waste Incinerated (Check All That Apply)		
<input type="checkbox"/> 0 - Trash <input checked="" type="checkbox"/> 5 - Nonsolid By-products <i>VOC emissions</i>		
<input type="checkbox"/> 1 - Rubbish <input type="checkbox"/> 6 - Solid By-products		
<input type="checkbox"/> 2 - Refuse <input type="checkbox"/> 7 - Municipal Solid Waste		
<input type="checkbox"/> 3 - Garbage <input type="checkbox"/> 8 - Hazardous Waste		
<input type="checkbox"/> 4 - Biological (Including Biohazardous) <input type="checkbox"/> Other: _____		
7. Generator Nameplate Rating (Gross MW) (Waste-to-Energy Facility Only)		
8. Incinerator Comment		
Fuel: Natural Gas 38,000 DSCFM Retention time: 1.0 sec		

AIR062	Distict	Office	County	Facility	Source	APIS
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**STORAGE TANK INFORMATION**

1. Storage Tank ID	2. Storage Tank Type of Control
3. Storage Tank Product	4. Storage Tank Size Category
	<input type="checkbox"/> 10,500 bbl <input type="checkbox"/> 67,000 bbl <input type="checkbox"/> 250,000 bbl
5. Storage Tank Capacity (1000 gal)	6. Storage Tank Estimated Annual Throughput (1000 gal)
7. Storage Tank Comment	

1. Storage Tank ID	2. Storage Tank Type of Control
3. Storage Tank Product	4. Storage Tank Size Category
	<input type="checkbox"/> 10,500 bbl <input type="checkbox"/> 67,000 bbl <input type="checkbox"/> 250,000 bbl
5. Storage Tank Capacity (1000 gal)	6. Storage Tank Estimated Annual Throughput (1000 gal)
7. Storage Tank Comment	

SUPPLEMENTAL REQUIREMENTS

1. If not submitted previously, provide an up-to-date 8-1/2" x 11" map (e.g., the relevant portion of an USGS topographic map) showing the location of the facility and points of air pollutant emissions in relation to residences, roads, and other features of the surrounding area.  
[ ] Attached            [ ] Submitted Previously
2. If not submitted previously, provide an up-to-date 8-1/2" x 11" plot plan of the facility showing the location of manufacturing processes, control equipment, stacks, vents, and sources of fugitive emissions.  
[ ] Attached            [ ] Submitted Previously
3. If not submitted previously, provide an up-to-date 8-1/2" x 11" flow diagram identifying the individual operations and processes. Indicate where raw materials enter, where solid and liquid wastes exit, where gaseous and/or particulate emissions are involved, and where finished products are obtained.  
[ ] Attached            [ ] Submitted Previously
4. For an construction permit application, provide an estimate of the maximum uncontrolled emission rate (in lb/hr) of each pollutant emitted and show the derivation of each such estimate (e.g., AP-42 emission factor). For a construction permit application involving the combustion of any fuel other than distillate oil, liquefied petroleum gas, or natural gas, provide an ultimate analysis of the fuel to be used. The ultimate analysis should give the density, the heat content, and the percent content by weight of carbon, hydrogen, oxygen, sulfur, nitrogen, ash, and moisture.
5. For a construction permit application, show the bases of the potential (after control) emission estimates (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and describe the proposed methods for showing proof of compliance with any applicable emission limiting standards.
6. For a construction permit application, provide design details for all air pollution control systems (e.g., for baghouse, include cloth to air ratio; for scrubber, include cross-section sketch, design pressure drop, etc.). For each such system, provide either a copy of the manufacture's guarantee of control efficiency or an engineering estimate of control efficiency as certified by a registered professional engineer. Items 4, 5, and 6 should be consistent; i.e.,  $Uncontrolled\ Emission = (Potential\ Hourly\ Emission)/(1 - Control\ Efficiency)$ .
7. For a construction permit application subject to review under Rule 17-2.500, "Prevention of Significant Deterioration," or Rule 17-2.510, "New Source Review for Nonattainment Areas," provide all additional information required by the department under such rule (e.g., summary of contemporaneous emission changes, BACT or LAER evaluation, monitoring data, summary of modeling results, one copy of all pertinent model output, etc.).
8. For a permit application subject to the "Reasonably Available Control Technology" provisions of Rule 17-2.650, provide all additional information required by the department under that rule.
9. For a permit application involving the incineration of hazardous wastes, provide all additional information required by the department under Rule 17-30 and Chapter 403, Florida Statutes.
10. Submit the appropriate application fee in accordance with Rule 17-4.05. The check should made payable to the Florida Department of Environmental Regulation.