



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. L. D. Riley, Jr.  
Stone Container Corporation  
1 Everitt Avenue  
Post Office Box 2560  
Panama City, Florida 32402

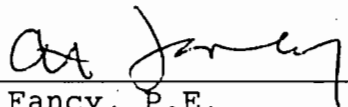
November 1, 1990

Enclosed is construction permit No. AC 03-178473 for Stone Container Corporation to install TRS incineration equipment and controls for the No. 4 bark boiler at the Panama City Mill. 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:

E. Middleswart, NW District  
C. T. Fontaine, P.E., SCC

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 buisness on 11-2-90.

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.

Kenn Cohen  
Clerk

11-2-90  
Date

Final Determination

Stone Container Corporation  
Bay County  
Panama City, Florida

Construction Permit Number:  
AC 03-178473

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

October 30, 1990

## Final Determination

The construction permit application has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in the News-Herald on October 12, 1990. The Technical Evaluation and Preliminary Determination were available for public inspection at the DER's Northwest District office and the DER's Bureau of Air Regulation office.

There were no comments received during the public notice period. Therefore, it is recommended that the construction permit be issued as drafted.

# Florida Freedom Newspapers, Inc.

PUBLISHERS OF THE NEWS-HERALD

Panama City, Bay County, Florida

Published Daily

State of Florida

County of Bay

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

Scott Walker

, who on oath says that (s)he

is Advertising Director of the News-Herald, a daily

newspaper published at Panama City, in Bay County, Florida; that the attached copy

of advertisement, being a Legal Advertisement

in the matter of Notice of Intent

Dept. of Env. Reg.

in the Bay County

Court, was published in said newspaper in the issues of October 12, 1990

Affiant further says that the News-Herald is a direct successor of the Panama City News and that this publication, together with its direct predecessor, has been continuously published in said Bay County, Florida, each day (except that the predecessor, Panama City News, was not published on Sundays), and that this publication, together with its said predecessor, has been entered as a second class mail matter at the post office in Panama City in said Bay County, Florida, for a period of one year next preceding the first publication of the attached copy of the advertisement, all in accordance with the provisions of section 49.03, Florida Statutes; and affiant further says that (s)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 the said newspaper.

Sworn to and subscribed before me this \_\_\_\_\_ 12th day of

October 1990

Notary Public, State of Florida at Large

Notary Public, State of Florida

My Commission Expires Aug. 25, 1992

Board of Three Year Term - Insurance Inc.

0023

State of Florida  
Department of  
Environmental Regulation  
Notice of  
Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Stone Container Corporation, 1 Everett Avenue, Panama City, Bay County, Florida 32402, to modify the existing No. 4 Bark Boiler by connecting the T.R.S. noncondensable gas handling and transporting system to 1 for incineration purposes and as a back-up incinerator to the main incinerator. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing the 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 fourteen (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:

- 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;
- A statement of how and when each petitioner received notice of the Department's action or proposed action;
- A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- A statement of the material facts disputed by Petitioner, if any;
- A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- 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 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 the 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 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  
Northwest District  
160 Governmental Center  
Panama City, Florida  
32501-5794

Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.  
October 12, 1990



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary

## PERMITTEE:

Stone Container Corporation  
Post Office Box 2560  
Panama City, Florida 32402

Permit Number: AC 03-178473  
Expiration Date: Dec. 31, 1991  
County: Bay  
Latitude/Longitude: 30°08'30"N  
85°37'25"W

Project: No. 4 Bark Boiler  
Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) 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 of a noncondensable gas (NCG) collection and transport system for TRS gases from the Nos. 1A, 2, and 3 Multiple Effect Evaporator (MEE) Systems and the batch digesting blow heat recovery system to the existing No. 4 Bark Boiler. The No. 4 Bark Boiler's capacity is 300,000 pounds of steam produced per hour. An existing venturi scrubber controls the pollutant emissions from the No. 4 Bark Boiler. The No. 4 Bark Boiler will be used to minimize TRS emissions when the existing lime kiln is not adequately operative. The UTM coordinates of the existing facility are Zone 16, 632.8 km East and 3355.1 km North.

The Standard Industrial Codes are: Industry Nos. 2611-Pulp Mills and 2621-Paper Mills.

The Standard Classification Codes are: Major Group 49: External Combustion Boilers, Wood/Bark Waste, 1-02-009-02 (tons burned).

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 to be Incorporated:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-1.202(1), received April 2, 1990.
2. Mr. C. H. Fancy's letter dated April 5, 1990.
3. Mr. C. H. Fancy's letter dated April 27, 1990.
4. Mr. L. D. Riley, Jr.'s letter with enclosure received June 18, 1990.
5. Interoffice Memorandum by Bruce Mitchell dated August 23, 1990.
6. Mr. David Riley's letter received via FAX on September 4, 1990 and amended September 5, 1990.
7. Technical Evaluation and Preliminary Determination dated September 5, 1990.

**PERMITTEE:**

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991

**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:

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991

**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:

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991

**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 proscribed 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:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

**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:**

1. This permit for the No. 4 Bark Boiler shall supercede previous permits issued only to the extent of the changes due to the additional TRS noncondensable gas incineration system.

2. The No. 4 Bark Boiler may operate continuously, i.e., 8760 hrs/yr, except when incinerating TRS gases. When incinerating TRS gases, the No. 4 Bark Boiler may operate 24 hrs/day continuously, not to exceed 360 hrs/yr total.

3. The maximum rated capacity is 300,000 pounds of steam produced per hour from firing any combination of the fuels wood waste, No. 6 fuel oil, coal, turpentine residue, and TRS gases. Projected wood waste utilization rate is 30 tons per hour at 48% moisture (273 MMBtu/hr).

4. The maximum fuel utilization rates, heat inputs, and their maximum % sulfur, by weight, are:

o No. 6 Fuel Oil	3150 gals/hr	(472 MMBtu/hr)	2.4%
o Coal	15.8 TPH	(395 MMBtu/hr)	1.7%
o Natural Gas	0.04 MMcf/hr	(40 MMBtu/hr)	-

PERMITTEE:

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

5. If the TRS gases from the Nos. 1A, 2, and 3 MEE Systems and the batch digesting system are collected and transported to the No. 4 Bark Boiler for incineration, then the TRS gases shall be subjected to a minimum of 1200°F for at least 0.5 seconds.

6. A continuous temperature monitor shall be installed, calibrated, and operated in accordance with F.A.C. Rule 17-2.710. Also, a continuous recorder for the temperature shall be installed, calibrated, and operated properly.

7. The No. 4 Bark Boiler emissions shall not exceed:

- a) TRS: 5 ppmvd at standard conditions, @ 10% O<sub>2</sub>, 12-hr avg.  
(4.45 lbs/hr, 0.80 TPY)
- b) SO<sub>2</sub>: 772 lbs/hr, 3381 TPY (No TRS Incineration)  
988 lbs/hr, 3420 TPY (TRS Incineration)
- c) PM: o carbonaceous fuel: 0.3 lbs/10<sup>6</sup> Btu of heat input  
o fossil fuel: 0.1 lbs/10<sup>6</sup> Btu of heat input
- d) VE: ≤ 30% opacity, except ≤ 40% for ≤ 2 mins in any 1 hour

Note: Fly ash and SO<sub>2</sub> are controlled by a wet scrubber. The projected SO<sub>2</sub> removal efficiency is 35%.

8. Annual compliance tests for PM and visible emissions shall be conducted using the following test methods in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A:

- a) EPA Method 5, Determination of Particulate Emissions from Stationary Sources.
- b) EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources.

9. Initial (and annual) compliance tests for SO<sub>2</sub> shall be conducted using the following test method in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A.

- a) EPA Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources.

10. Compliance tests for TRS shall be conducted using one of the following test methods in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A:

- a) EPA Method 16, 16A or 16B, Determination of TRS Emissions from Stationary Sources.

11. The Department reserves the right to require testing for TRS, in accordance with No. 10 above, for operation permit renewal.

PERMITTEE:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

12. Other test methods may be used only after prior Department approval in accordance with F.A.C. Rule 17-2.700(3).

13. The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.600(4)(c)1.c., which includes the requirement of establishing a contingency plan.

14. The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rules 17-4.130: Plant Operation-Problems; 17-2.240: Circumvention, 17-2.250: Excess Emissions; and, 17-2.710(4): Quarterly Reporting Requirements.

15. Except for start-up, shut-down, or malfunction, the No. 4 Bark Boiler is not permitted to fire 100% fossil fuel.

16. The project shall comply with all applicable provisions of F.A.C. Chapters 17-2 and 17-4.

17. All process equipment shall be inspected regularly and maintained in good operating condition to minimize fugitive gaseous emissions.

18. Objectionable odors shall not be allowed off plant property in accordance with F.A.C. Rule 17-2.620(2).

19. The DER's Northwest District office shall be notified in writing at least 15 days prior to source testing pursuant to F.A.C. Rule 17-2.700(2)(a)5. Written reports of the tests shall be submitted to the DER's Northwest District office within 45 days of the test completion in accordance with F.A.C. Rule 17-2.700(7).

20. Any change in the method of operation, raw materials, chemicals processed, equipment, or operating hours pursuant to F.A.C. Rule 17-2.100(123), Modification, shall be submitted for approval to the DER's Bureau of Air Regulation office and Northwest District office.

21. The No. 4 Bark Boiler shall be tested for SO<sub>2</sub> emissions before and after connecting the TRS NCG handling system to it and the system is operating properly. The SO<sub>2</sub> emissions tests, using EPA Method 6 pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A, shall be used to rule out or require further emissions review pursuant to F.A.C. Rule 17-2.500, PSD, and to assess the appropriate processing fee pursuant to F.A.C. Rule 17-4.050.

**PERMITTEE:**

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991


**SPECIFIC CONDITIONS:**

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

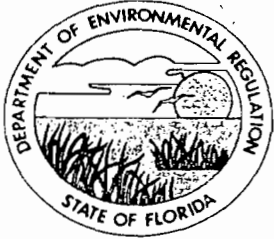
23. An application for an operation permit must be submitted to the DER's Northwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the 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. Rule 17-4.220).

Issued this 31<sup>st</sup> day  
of October, 1990

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
STEVE SMALLWOOD, P.E., Director  
Division of Air Resources  
Management

Base Copy



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

September 5, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. L. D. Riley, Jr.  
Stone Container Corporation  
1 Everitt Avenue  
Post Office Box 2560  
Panama City, Florida 32402

Dear Mr. Riley:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to modify the existing No. 4 Bark Boiler by connecting the TRS noncondensable gas handling and transporting system to it for incineration purposes and as a back-up incinerator to the lime kiln.

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

Sincerely,

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

CHF/BM/plm

Attachments

c: E. Middleswart, NW District  
C. T. Fontaine, P.E., SCC

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Stone Container Corporation  
1 Everitt Avenue  
Post Office Box 2560  
Panama City, Florida 32402

DER File No. AC 03-178473

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INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue an air construction permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Stone Container Corporation, applied on April 2, 1990, to the Department of Environmental Regulation for a permit to modify the existing No. 4 Bark Boiler by connecting the TRS noncondensable gas handling and transporting system to it for incineration purposes and as a back-up incinerator to the lime kiln.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER 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, at the address specified 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 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.

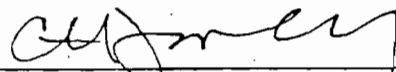
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) 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 in 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



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

Copies furnished to:

E. Middleswart, NW District  
C. T. Fontaine, P.E., SCC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 9-6-90.

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.

Lynn Ober 9-6-90  
Clerk Date

State of Florida  
Department of Environmental Regulation  
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Stone Container Corporation, 1 Everitt Avenue, Panama City, Bay County, Florida 32402, to modify the existing No. 4 Bark Boiler by connecting the TRS noncondensable gas handling and transporting system to it for incineration purposes and as a back-up incinerator to the lime kiln. 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 fourteen (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 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 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 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  
Northwest District  
160 Governmental Center  
Pensacola, Florida 32501-5794

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

Technical Evaluation  
and  
Preliminary Determination

Stone Container Corporation  
Bay County  
Panama City, Florida

Construction Permit Number  
AC 03-178473

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

September 5, 1990

## I. Application

### A. Applicant and Address

Stone Container Corporation  
1 Everitt Avenue  
Post Office Box 2560  
Panama City, Florida 32402

### B. Project and Location

The mill intends to modify the existing No. 4 Bark Boiler by connecting the TRS noncondensable gas handling and transporting system (NCG) to it for incineration purposes and as a back-up incinerator to the lime kiln. The project will take place at Stone Container Corporation's existing mill located in Bay County, Florida. The UTM coordinates are Zone 16, 632.8 km East and 3335.1 km North.

### C. Process and Controls

The No. 4 Bark Boiler is permitted to fire coal, No. 6 fuel oil, turpentine residue, natural gas and wood waste. The fuel sulfur, by weight, is limited to 2.4% in the fuel oil and 1.7% for coal.

The combustion/oxidation of the TRS gases from the NCG system will result in emissions of sulfur dioxide (SO<sub>2</sub>).

The existing boiler has an associated venturi scrubber system to control pollutant emissions.

### D. SIC and SCC

#### 1. The Standard Industrial Codes are:

- o 2611: Pulp Mills
- o 2621: Paper Mills

#### 2. The Source Classification Codes are:

- o Major Group 49: External Combustion Boiler  
1-02-099-02 Wood/Bark Waste (tons burned)

## II. Rule Applicability

The modification is subject to preconstruction review in accordance with Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4.

The existing facility is a major facility for all of the criteria pollutants pursuant to F.A.C. Rule 17-2.100(115) (October, 1989 version). The existing No. 4 Bark Boiler is a major source for SO<sub>2</sub> pursuant to F.A.C. Rule 17-2.100(116).

The existing facility is located in Bay County, which is an area designated attainment for all pollutants pursuant to F.A.C. Rule 17-2.420.

The following table exhibits the net potential pollutant emissions from the modification in tons per year (TPY):

Table 1

Source	Net Potential Pollutant Emissions (TPY)	
	TRS	SO <sub>2</sub>
Bark Boiler	0.80	39

- Note:
- o Maximum proposed hours of operation are 360 while incinerating TRS gases from the TRS NCG System.
  - o SO<sub>2</sub>: emissions are calculated from a TRS emission factor of 2.5 lbs/ton ADP (EPA TRS guideline document: Table 5-1) and 360 hrs/yr operation.
  - o Pulp production capacity @ 1694 TPD ADP.
  - o Scrubber projected efficiency for SO<sub>2</sub> @ 35%.
  - o TRS emissions @ 5 ppmvd, corr. to 10% O<sub>2</sub>, @ std. cond., 12-hr avg.

Since the net potential pollutant emissions are not greater than the significant levels in Table 500-2, F.A.C. Chapter 17-2, the modification's potential emissions will be reviewed in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration (PSD) or Nonattainment Requirements.

The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.600(10)(a), Carbonaceous Fuel Burning Equipment. Compliance shall be demonstrated in accordance with F.A.C. Rule 17-2.700, which includes Table 1. The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.600(4)(c)6. in accordance with F.A.C. Rule 17-2.600(4)(c)1.

Visible emissions shall not exceed 30% opacity, except that 40% opacity is permissible for not more than 2 minutes in any one hour pursuant to F.A.C. Rule 17-2.600(10)(a)2.a. Initial and annual compliance tests shall be conducted using EPA Method 9 pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A.

Particulate matter emissions shall be limited to 0.3 lbs/10<sup>6</sup> Btu of heat input of carbonaceous fuel and 0.1 lbs/10<sup>6</sup> Btu of heat input of fossil fuel. Except for start-up, shut-down, or malfunction, the No. 4 Bark Boiler is not permitted to burn 100% fossil fuel. Initial and annual compliance tests shall be conducted using EPA Method 5 pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A.

All compliance test methods shall be in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A (July, 1989 version).

The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.620(2), Objectionable Odors Prohibited.

The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.710, which includes quarterly reporting requirements.

An initial TRS mass compliance test using EPA Method 16, 16A or 16B, shall be required in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A. The Department shall reserve the right to require TRS mass tests for annual compliance and for permit renewal times and will require that a continuous temperature monitor and recorder be installed, properly operated, and maintained (see attachment: C. H. Fancy's letter dated April 5, 1990).

The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operations-Problems.

A mass test (Pre-test) for SO<sub>2</sub> shall be conducted using EPA Method 6 prior to connecting the TRS NCG system to the No. 4 Bark Boiler. A mass test (Post-test) for SO<sub>2</sub> shall be conducted using EPA Method 6 after connecting the TRS NCG system to the No. 4 Bark Boiler. A comparison of the pre- and post-tests shall be made to determine if further PSD review is warranted, which might include a processing fee.

### III. Summary of Emissions

#### A. Emission Limitations

The No. 4 Bark Boiler will have allowable emission limits and standards for the pollutants TRS, PM, SO<sub>2</sub> and visible emissions (VE). The following table reflects these limits and standards:

Table 2

Source	Pollutant	Allowable Emission Limits/Standards
No. 4 Bark Boiler	TRS	5 ppmvd @ standard conditions, 10% O <sub>2</sub> , 12-hr average (4.45 lbs/hr, 0.80 TPY)
	PM	0.3 lbs/10 <sup>6</sup> Btu of heat input for carbonaceous fuel; 0.1 lbs/10 <sup>6</sup> Btu of heat input for fossil fuel



Table 2 (cont'd)

Source	Pollutant	Allowable Emission Limits/Standards
	SO <sub>2</sub>	772 lbs/hr, 3381 TPY (No TRS Incineration) <sup>1</sup>
		988 lbs/hr, 3420 TPY (TRS Incineration) <sup>2</sup>
	VE	≤ 30% opacity, except ≤ 40% opacity for ≤ 2 mins. in any 1 hour

- Note:
- o Maximum permitted hours of operation are 360 while incinerating TRS gases from the TRS NCG System.
  - o PM: F.A.C. Rule 17-2.600(10)(a)2.; except for start-up, shut-down, or malfunction, the No. 4 Bark Boiler is not permitted to fire 100% fossil fuel.
  - o SO<sub>2</sub>: 1. No TRS Incineration: based on AP-42, Table 1.3-1 for fuel oil - industrial boiler: 157S lbs/1000 gals; 2.4%S, 3150 gals/hr.  
2. TRS Incineration: Sum of the amount from "no TRS incineration" and the amount from Table 1, which is the net potential emissions of 39 TPY from incinerating TRS.
  - o Pulp production capacity @ 1694 TPD ADP.
  - o Scrubber estimated efficiency for SO<sub>2</sub> @ 35%.
  - o TRS emissions @ 5 ppmvd, corr. to 10% O<sub>2</sub>, @ std. cond., 12-hr avg.
  - o Boiler capacity is 300,000 lbs/hr steam produced.

#### B. Ambient Air Quality Analysis

Based on a review of the proposed project, an air quality analysis was not required.

#### IV. Conclusion

Based on the information provided by Stone Container Corporation, the Department has reasonable assurance that the modification of the No. 4 Bark Boiler, 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.

*Randy J. ...*  
# 36024  
9-6-90



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**  
Stone Container Corporation  
Post Office Box 2560  
Panama City, Florida 32402

**Permit Number:** AC 03-178473  
**Expiration Date:** Dec. 31, 1991  
**County:** Bay  
**Latitude/Longitude:** 30°08'30"N  
85°37'25"W  
**Project:** No. 4 Bark Boiler  
Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) 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 of a noncondensable gas (NCG) collection and transport system for TRS gases from the Nos. 1A, 2, and 3 Multiple Effect Evaporator (MEE) Systems and the batch digesting blow heat recovery system to the existing No. 4 Bark Boiler. The No. 4 Bark Boiler's capacity is 300,000 pounds of steam produced per hour. An existing venturi scrubber controls the pollutant emissions from the No. 4 Bark Boiler. The No. 4 Bark Boiler will be used to minimize TRS emissions when the existing lime kiln is not adequately operative. The UTM coordinates of the existing facility are Zone 16, 632.8 km East and 3355.1 km North.

The Standard Industrial Codes are: Industry Nos. 2611-Pulp Mills and 2621-Paper Mills.

The Standard Classification Codes are: Major Group 49: External Combustion Boilers, Wood/Bark Waste, 1-02-009-02 (tons burned).

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 to be Incorporated:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-1.202(1), received April 2, 1990.
2. Mr. C. H. Fancy's letter dated April 5, 1990.
3. Mr. C. H. Fancy's letter dated April 27, 1990.
4. Mr. L. D. Riley, Jr.'s letter with enclosure received June 18, 1990.
5. Interoffice Memorandum by Bruce Mitchell dated August 23, 1990.
6. Mr. David Riley's letter received via FAX on September 4, 1990 and amended September 5, 1990.
7. Technical Evaluation and Preliminary Determination dated September 5, 1990.

PERMITTEE:

Stone Container Corporation

Permit Number: AC 03-178473

Expiration Date: December 31, 1991

**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: Permit Number: AC 03-178473  
Stone Container Corporation Expiration Date: December 31, 1991

**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: Permit Number: AC 03-178473  
Stone Container Corporation Expiration Date: December 31, 1991

**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 proscribed 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:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

**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:**

1. This permit for the No. 4 Bark Boiler shall supercede previous permits issued only to the extent of the changes due to the additional TRS noncondensable gas incineration system.

2. The No. 4 Bark Boiler may operate continuously, i.e., 8760 hrs/yr, except when incinerating TRS gases. When incinerating TRS gases, the No. 4 Bark Boiler may operate 24 hrs/day continuously, not to exceed 360 hrs/yr total.

3. The maximum rated capacity is 300,000 pounds of steam produced per hour from firing any combination of the fuels wood waste, No. 6 fuel oil, coal, turpentine residue, and TRS gases. Projected wood waste utilization rate is 30 tons per hour at 48% moisture (273 MMBtu/hr).

4. The maximum fuel utilization rates, heat inputs, and their maximum % sulfur, by weight, are:

o No. 6 Fuel Oil	3150 gals/hr	(472 MMBtu/hr)	2.4%
o Coal	15.8 TPH	(395 MMBtu/hr)	1.7%
o Natural Gas	0.04 MMcf/hr	(40 MMBtu/hr)	-

PERMITTEE:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

5. If the TRS gases from the Nos. 1A, 2, and 3 MEE Systems and the batch digesting system are collected and transported to the No. 4 Bark Boiler for incineration, then the TRS gases shall be subjected to a minimum of 1200°F for at least 0.5 seconds.

6. A continuous temperature monitor shall be installed, calibrated, and operated in accordance with F.A.C. Rule 17-2.710. Also, a continuous recorder for the temperature shall be installed, calibrated, and operated properly.

7. The No. 4 Bark Boiler emissions shall not exceed:

- a) TRS: 5 ppmvd at standard conditions, @ 10% O<sub>2</sub>, 12-hr avg.  
(4.45 lbs/hr, 0.80 TPY)
- b) SO<sub>2</sub>: 772 lbs/hr, 3381 TPY (No TRS Incineration)  
988 lbs/hr, 3420 TPY (TRS Incineration)
- c) PM: o carbonaceous fuel: 0.3 lbs/10<sup>6</sup> Btu of heat input  
o fossil fuel: 0.1 lbs/10<sup>6</sup> Btu of heat input
- d) VE: ≤ 30% opacity, except ≤ 40% for ≤ 2 mins in any 1 hour

Note: Fly ash and SO<sub>2</sub> are controlled by a wet scrubber. The projected SO<sub>2</sub> removal efficiency is 35%.

8. Annual compliance tests for PM and visible emissions shall be conducted using the following test methods in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A:

- a) EPA Method 5, Determination of Particulate Emissions from Stationary Sources.
- b) EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources.

9. Initial (and annual) compliance tests for SO<sub>2</sub> shall be conducted using the following test method in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A.

- a) EPA Method 6, Determination of Sulfur Dioxide Emissions from Stationary Sources.

10. Compliance tests for TRS shall be conducted using one of the following test methods in accordance with F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A:

- a) EPA Method 16, 16A or 16B, Determination of TRS Emissions from Stationary Sources.

11. The Department reserves the right to require testing for TRS, in accordance with No. 10 above, for operation permit renewal.

PERMITTEE:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

SPECIFIC CONDITIONS:

12. Other test methods may be used only after prior Department approval in accordance with F.A.C. Rule 17-2.700(3).
13. The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rule 17-2.600(4)(c)1.c., which includes the requirement of establishing a contingency plan.
14. The No. 4 Bark Boiler is subject to the provisions of F.A.C. Rules 17-4.130: Plant Operation-Problems; 17-2.240: Circumvention, 17-2.250: Excess Emissions; and, 17-2.710(4): Quarterly Reporting Requirements.
15. Except for start-up, shut-down, or malfunction, the No. 4 Bark Boiler is not permitted to fire 100% fossil fuel.
16. The project shall comply with all applicable provisions of F.A.C. Chapters 17-2 and 17-4.
17. All process equipment shall be inspected regularly and maintained in good operating condition to minimize fugitive gaseous emissions.
18. Objectionable odors shall not be allowed off plant property in accordance with F.A.C. Rule 17-2.620(2).
19. The DER's Northwest District office shall be notified in writing 15 days prior to source testing pursuant to F.A.C. Rule 17-2.700(2)(a)5. Written reports of the tests shall be submitted to the DER's Northwest District office within 45 days of the test completion in accordance with F.A.C. Rule 17-2.700(7).
20. Any change in the method of operation, raw materials, chemicals processed, equipment, or operating hours pursuant to F.A.C. Rule 17-2.100(123), Modification, shall be submitted for approval to the DER's Bureau of Air Regulation office and Northwest District office.
21. The No. 4 Bark Boiler shall be tested for SO<sub>2</sub> emissions before and after connecting the TRS NCG handling system to it and the system is operating properly. The SO<sub>2</sub> emissions tests, using EPA Method 6 pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A, shall be used to rule out or require further emissions review pursuant to F.A.C. Rule 17-2.500, PSD, and to assess the appropriate processing fee pursuant to F.A.C. Rule 17-4.050.



PERMITTEE:  
Stone Container Corporation

Permit Number: AC 03-178473  
Expiration Date: December 31, 1991

**SPECIFIC CONDITIONS:**

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

23. An application for an operation permit must be submitted to the DER's Northwest District 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. Rule 17-4.220).

Issued this \_\_\_\_\_ day  
of \_\_\_\_\_, 1990

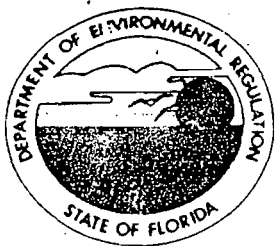
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

Attachment 1  
Available Upon Request

Attachment 2



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

April 5, 1990

Mr. Ray Andreu, Chairman  
 Florida Pulp and Paper Association  
 Technical and Environmental Committee  
 Route 3, Box 260  
 Perry, Florida 32347

Dear Mr. Andreu:

This is to confirm the agreements made by the Florida Pulp and Paper Association and the Bureau of Air Regulation at our meeting on March 20, 1990, regarding incineration of TRS gases in an incinerator(s).

1. Any company using an incinerator will initially test to show compliance with the 5 ppmvd limit, corrected to 10% oxygen, using DER approved test methods.
2. These tests will not be required annually. The Department reserves the right to require testing for operation permit renewal (every 5 years).
3. Compliance during the five year period will be demonstrated by continuous monitoring and recording of the temperature showing that a minimum temperature of 1200°F is being achieved.
4. By the selected design and the P.E. of record, the construction permit applications shall contain calculations to insure that the specified retention time (i.e., 0.5 seconds) will be achieved by the source in order to provide reasonable assurance to the Department.

Sincerely,

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

CHF/kt

Attachments 3 & 4  
Available Upon Request

Attachment 5



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: Main File: AC 03-178473  
FROM: Bruce Mitchell *BM*  
DATE: August 23, 1990  
SUBJ: Calculation of TRS Limits From the Emission Limiting Standard.

Based on stack test parameters received today via phone from Mr. David Riley, with Stone Container Corporation, the TRS emission limits are calculated:

Parameters: September, 1989 test data  
258,000 acfm  
182,849 dscfm  
9.5% O<sub>2</sub>  
19.5% H<sub>2</sub>O  
140°F

Standard: 5 ppmvd @ standard conditions @ 10% O<sub>2</sub>

Correction for O<sub>2</sub>:  
 $(21-10)/(21-9.5) = 0.957$   
 $5 \text{ ppm}/0.957 = 5.22 \text{ ppm}$

Therefore,

$$PV = mRT$$

$$M = PV/RT$$

$$m = (14.7 \times 144) \text{ lbf/ft}^2 \times 182,849 \text{ dcfm} \times \text{lbfm-R}^\circ/45.44 \text{ ft-lbf} \times \\ 1/(460 + 140) \text{ R}^\circ \times 60 \text{ min/hr} \times 5.22 \text{ ppm}/10^6 = 4.45 \text{ lbs/hr} \\ \text{as H}_2\text{S}$$

$$4.45 \text{ lbs/hr} \times 360 \text{ hrs/yr} \div 2000 \text{ lbs/ton} = 0.80 \text{ TPY}$$

BM/plm

ATTACHMENT 6



**BEST AVAILABLE COPY**

**STONE CONTAINER CORPORATION**

**Panama City Mill**

**Sulfur Dioxide Generated from Incinerating TRS in No. 4 Bark Boiler**

1. Emission factors taken from EPA TRS guideline document Table 5-1. TRS values are expressed as hydrogen sulfide.
2. TRS emissions from digester system: 1.5 Lbs/T ADP  
 TRS emissions from evaporators: 1.0 Lbs/T ADP  
 Total TRS emissions: 2.5 Lbs/Ton /ADP
3. Pulp Production: 1694 A.D. Tons/Day
4. TRS Gasses to Incinerate: 2.5 Lbs/Ton ADP x 1694 A.D.Ton/Day = 4235 Lbs/Day
5. Sulfur Dioxide Produced: 4,235 Lbs. TRS/Day x 64/34 = 7,972 Lbs/Day
6. Scrubbing Medium (Ph Controlled with Caustic) reduces SO<sup>2</sup> Emissions by 35%.
7. SO<sup>2</sup> emitted per hour from incinerating TRS Gasses:  $\frac{7,972 \text{ Lbs./Day}}{24 \text{ Hrs/Day}} \times 65\% = 216 \text{ Lbs/Hrs}$
8. Incinerating TRS gasses in the lime kiln results in emissions of 8.4 pounds of sulfur dioxide per hour. This 8.4 pounds per hour of sulfur dioxide will not be emitted when incinerating TRS gasses in No. 4 bark boiler. 9-5-90 Not agreed to. Spoke w Mr. Riley. *RAH*
9. The net increase of sulfur dioxide emissions from incinerating TRS gasses in NO. 4 bark boiler is: 216 pounds per hour (from item 7) - 8.4 Lbs/Hr = 207.6 Lbs. SO<sup>2</sup>/Hour 9-5-90  
*To use 216 lbs/hr. Spoke w Mr. Riley. RAH*
10. We do not anticipate maintenance outages, mechanical failures, or process upsets will preclude our incinerating TRS gasses in the lime kiln (primary incineration device) for more than 380 hours per year. 9-5-90 To use 360 hrs/yr operation. Spoke w Mr. Riley. *RAH*
11. Yearly emissions from incinerating TRS gasses in No. 4 bark boiler for 380 hours per year are: 9-5-90  

$$\frac{380 \text{ hrs/year} \times 207.6 \text{ Lbs. SO}_2/\text{Hr.}}{2000 \text{ Lbs/Ton}} = 39.4 \text{ Tons/Yr.}$$
*Therefore,  $\frac{360 \times 216}{2000} = 39 \text{ TPY}$   
 Spoke w Mr. Riley. *RAH**
12. Increased sulfur dioxide emission estimates are less than 40 Ton/Year therefore, PSD considerations are not involved.

RECEIVED

SEP 4 1990

DER-BAQM

Post-It™ brand fax transmittal memo 7671 # of pages 1

To	Bruce Mitchell	From	Dave Riley
Co	Central Air Permit	Co.	Stone - PC
Dept.		Phone #	775-431- ext 227
Fax #	904-922-6979	Fax #	ext 212



Stone Container Corporation

Panama City Mill

Containerboard and Paper Division

Post Office Box 2560  
Panama City, Florida 32402

(904) 785-4311

February 14, 1990

Mr. Bruce Mitchell  
Central Air Permitting  
Florida Dept. of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399

Dear Mr. Mitchell:

Enclosed are two copies of a construction permit application to install TRS incineration equipment and controls for No. 4 bark boiler at the Panama City Mill of Stone Container Corporation.

If you have questions or comments, please contact David Riley at (904) 785-4311, Ext: 257.

Yours very truly,

L. D. Riley, Jr.  
Environmental Superintendent

LDR,Jr:cf

Enclosures

C.L. 0057

#1031

E.O.TI ~~FR~~

Air Regulation

RECEIVED  
DER-MAIL ROOM  
1990 APR -2 AM 10:51

## DEPARTMENT OF ENVIRONMENTAL REGULATION

#500pd.

4-2-90

Receipt # 15112

BEST AVAILABLE COPY

NORTHWEST DISTRICT  
BRANCH OFFICE  
340 WEST 23RD STREET  
PANAMA CITY, FLORIDA 32405



AC 03-178473

BOB MARTINEZ  
GOVERNORDALE TWACHTMANN  
SECRETARY

## APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Emissions  New<sup>1</sup>  ExistingAPPLICATION TYPE:  Construction  Operation  ModificationCOMPANY NAME: Stone Container Corporation COUNTY: BayIdentify 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) No. 4 Bark Boiler with Venturi scrubberSOURCE LOCATION: Street #1 Everitt Avenue City Panama City

UTM: East \_\_\_\_\_ North \_\_\_\_\_

Latitude 30 ° 08' 30 "N Longitude 85 ° 37' 25 "WAPPLICANT NAME AND TITLE: Stone Container CorporationAPPLICANT ADDRESS: P. O. Box 2560 - Panama City, FL 32402

## SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

## A. APPLICANT

I am the undersigned owner or authorized representative\* of Stone 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

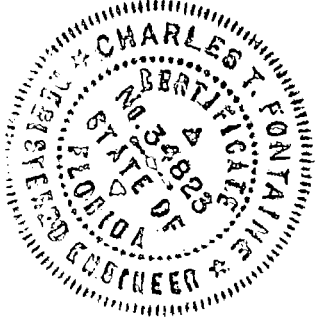
Signed: L. D. Riley, Jr.  
L. D. Riley, Jr., Environmental Superintendent  
Name and Title (Please Type)Date: 2/14/90 Telephone No. (904)785-4311

## 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 Charles T. Fontaine

Charles T. Fontaine

Name (Please Type)

Stone Container Corporation

Company Name (Please Type)

Mailing Address (Please Type)

Florida Registration No. 34823 Date: 3/29/90 Telephone No. 904 785 4311

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.

Application is being made to install delivery pipe, controls, and burned to equip this unit for standby incineration of TRS gasses should the primary incineration device (lime kiln) fail.

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

Start of Construction \_\_\_\_\_ Completion of Construction February 6, 1989

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.

Operating permit No. A003-169285. A copy of the specific conditions in the operating permit is attached.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 50; 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) N/A

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. No

3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

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 justification 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:

N/A

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

B. Process Rate, if applicable: (See Section V, Item 1) N/A

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)

Please see specific conditions from operating permit.

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	

<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)
FMC Link Belt	Particulate	90.3	N/A	Manufacture Guarantee
Model 200K				
Dual Throat Wet				
Scrubber				

E. Fuels

Please see specific conditions from operating permit.

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 0 Maximum 0

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

Ash - Pumped to Settling Pond - Decanted water returned to waste treatment system.

Ash stored on site.

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

Stack Height: 213'9" (Elevation 222'3") ft. Stack Diameter: 7'-10" ft.  
 Gas Flow Rate: 236,500 ACFM 179,200 DSCFM Gas Exit Temperature: 141 °F.  
 Water Vapor Content: 19 % Velocity: 86.5 FPS

**SECTION IV: INCINERATOR INFORMATION**

N/A

Type of Waste	Type O (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) \_\_\_\_\_



Brief description of operating characteristics of control devices: Wet scrubber

Operating with DP of 9-10 inches. PH of scrubbing liquid controlled with caustic.

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

Scrubber water is pumped to Settling pond - settled ash is removed and stored on site.

Decanted water is returned to waste treatment system.

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

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

Contaminant	Rate or Concentration

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

Contaminant

Rate or Concentration

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

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.

ROS

10.5 lb/TADP

MEE

6.3

16.8 x 1.694 = 28.46 lb<sub>s</sub> TAS / TADP

1694 / 24 = 70.583 T/hr ADP

= 2008 lb<sub>s</sub>/hr TAS ~~1694/24~~

x 64/34

3781.15 lb<sub>s</sub>/hr SO<sub>2</sub>

x 1.65

2457 lb<sub>s</sub>/hr SO<sub>2</sub>

~~39.9~~ 39.9 TPV  
2000

63  
42  
105  
1.694

32 hr

$$105 \times 1.694 = 177.87 \text{ lbs/hr TRS / 1694 TPD ADP}$$

$$177.87 \times \frac{64}{34} = 334.81 \text{ lbs/hr SO}_2 \text{ / 1694 TPD ADP}$$

(1.882)

$$334.81 \times 0.65 = 217.63$$

(6035%)

$$196 \times 217.63 / 2000 = 21.3 \text{ TPY SO}_2$$



Batch Digester S75 (22 batch digesters)  
 GAC 03-142979  
 AC 03-149716  
 -142717  
 -142718

Brace  
 off PN 26 Oct  
 Day 90 = 14 Nov

No 1A MEE  
 No 3 MEE  
 No. 2 MEE

$$157 \text{ S lb/SO}_2 / 1000 \text{ gal}$$

$$1715 \times 157 \times 2.5 / 1000 = \text{lb/hr SO}_2$$

250 x 10<sup>6</sup> Btu HI/hr  
 2.5% S oil  
 18000 Btu/lb  
 8.1 lb/gal

#6 FO  
 145,000 Btu/gal

$$250 \times 10^6 / 18000 \times 8.1 = \text{gal/hr}$$

10-9-90  
 1:59

Dr. Riley called me  
 back on the PN -  
 going to the paper  
 today. BSL

23-20

U125

Mr. David Riley  
@ SCC

① max fuel

{	Bark	$273 \times 10^6$
	Coal	31,600 lbs/hr
{	Oil	$395 \times 10^6$
		75 bbls/hr
		$472 \times 10^6$

30 TPH (48% H<sub>2</sub>O)

② Stack Parameters

~~60~~  
140° F

H <sub>2</sub> O % -	<u>18%</u>	19 1/2%
O <sub>2</sub> -	<u>9-10%</u>	
acfm -	258,000	
dscfm -	182,849	

↑  
→ sept '89 test data

~~Stack Parameters~~  
~~Sept 89 test data~~

To Bruce  
Date 4/24 Time 3:00

**WHILE YOU WERE OUT**

M Rich Prusa  
of NW Dist  
Phone 58 695-8364  
Area Code Number Extension

<input type="checkbox"/>	TELEPHONED	<input type="checkbox"/>	PLEASE CALL
<input type="checkbox"/>	CALLED TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN
<input type="checkbox"/>	WANTS TO SEE YOU	<input type="checkbox"/>	URGENT
<input type="checkbox"/>	RETURNED YOUR CALL		

Message Please call as soon as you know if Stone Container app. (AC03-178473) is complete  
4-26-90  
2:10:30 Patty Operator  
Told him about incompleteness letter.

Ron