Seminole Kraft Corporation

Jacksonville Mill

9469 Eastport Road P.O. Box 26998 Jacksonville, Florida 32218-0998

November 6, 1991

904 751-6400

PECELVED NOV 8 1991

Mr. Clair Fancy, Chief Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, FL 32399-2400

OERTEL, HOFFMAN, FERNANDEZ & COLE, P.A.

Dear Mr. Fancy:

In September you met with Stone Container representatives, Mr. Curt Barton and Mr. Terry Cole, concerning Seminole Kraft Corporation's request to burn recycled fiber rejects in the bark boilers. This request was for the period of time between the mill conversion to recycled fiber operation in the Summer/Fall 1992 and AES Compliance testing (Spring 1994). In a July 23, 1991 letter to Mr. Steve Smallwood, it was stated that the rejects would be less than 25% of the fuel and would not result in the increase of allowable emissions or heat input.

At the meeting you expressed three concerns: 1) Of the estimated 10% plastic content, how much is chlorinated plastic, 2) is there a danger of increased metals emissions from the estimated 15% inorganic portion, and 3) will there be a significant increase in VOC emissions. During the past month, we have initiated several projects to help address these concerns.

Quantity of Chlorinated Plastic

Stone Container's Missoula, Montana mill has a new recycled fiber plant which is similar in operation, reject removal and burning, and raw material feed to the one being constructed at Seminole Kraft. A typical 750 pound bale of recycled fiber was broken open and hand sorted for plastic material. While most of the plastic could not be identified as to original use, nearly all of it fell into one of two categories; strapping or bags. Further, the total 2 1/2 pounds of retrieved plastic (0.3% of the bale weight) was nearly equally divided between the two fractions. These two samples were sent to Galbraith Laboratories for chlorine analyses and the results are included in Appendix I.

The average chlorine content, 190 ppm, is low and is comparable with the chlorine content of bark, 153 ppm, (Appendix II). Total chlorine contribution from the plastic is 190 ppm CH x 0.3% plastic = 0.0001%.



Mr. Clair Fancy, Chief November 4, 1991 Page 2

Inorganic Fraction of Recycle Rejects

Again, our Missoula, Montana operation was used to provide the necessary data. Samples of actual recycle fiber reject material was taken from the collection bin just prior to burning. The samples were ashed and the results (Appendix III) revealed that the inorganic portion was 1.43% which is much lower than the original estimate of 15% and, in fact, is lower than the inorganic fraction found in bark, 3.4%, (Appendix II). As a second check, a sample of recycle fiber rejects from Stone Container's Florence, South Carolina mill was also ashed. The inorganic portion was found to be 1.23% (Appendix IV) which agrees with the Missoula results. This low ash content is similar to carbonaceous fuels presently being burned in the bark boilers, and indicates there should be no increase in metal emissions resulting from burning recycle fiber rejects.

VOC Emissions

As you suggested at the September meeting, the best way of ascertaining that there will be no significant increase in VOC emission is to conduct a VOC stack test before and after the introduction of recycle fiber rejects to the bark boilers. Seminole Kraft agrees to conduct these tests.

Summary

In summary, our projects portray a burnable recycle fiber reject feed containing 98.3% fiber, 1.4% inorganic (sand, glass, etc.) and 0.3% plastic which contained only 190 ppm chlorine. We trust these data adequately answer your concerns and that we have demonstrated that this interim burning of recycle fiber rejects will have no environmental impact.

Sincerely.

Michael E. Riddle, Technical Director

Craig Hurd, Regional Environmental Manager

/pt

cc: L.A. Stanley

Terry Cole Curt Barton



Stone Container Corporation

Missoula Mill

Mullan Road P.O. Box 4707 Missoula, Montana 59806-4707

Containerboard and Paper Division

APPENDIX I

406 626-4451

Oct 2, 1991

Ontained in a bale that weight approximately 750 /b. Set me know what you find regarding percent pur after your investigation is over.

Best Regardo, January Brown

Seperated in two piles by Seminole.

straps/tape bags

412.2 grams 737.7 grams total 1149.9 grams
or 2.5 possed.

GALBRAITH

Laboratories, Inc.

QUANTITATIVE MICROANALYSES

ORGANIC — INORGANIC PHONE 615/546-1335 FAX 615/546-7209 (C. Crosy Hurd.

HARRY W. GALBRAITH, PH.D. CHAIRMAN OF THE BOARD

KENNETH S WOODS PRESIDENT

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WILLIAM M LONGMIRE VICE-PRESIDENT TECHNICAL SERVICES

Mr. Gene Doss Seminole Kraft Corporation 9469 Eastport Road Jacksonville, Florida 32218 October 21, 1991

Received: Oct. 16th

PO#: 11423

Dear Mr. Doss:

Analysis of your compound gave the following results:

Your #, Our #, ppm Chlorine,

A strap/tupe T-3677 270

B bags T-3678 109

Sincerely yours,

GALBRAITH LABORATORIES, INC.

Gail R. Hutchens

Exec. Vice-President

GRH:sla

APPENDIX II

Average of 7 attached bark tests.

Ash = 3.4%

Chlorine = 153 ppm



Marks:

02/16/88

TECHNICAL SERVICES, INC.



ENVIRONMENTAL CONSULTANTS — INDUSTRIAL CHEMISTS

OFFICE 2471 SWAN ST. — P.O. BOX 52329 LABORATORIES 103-107 STOCKTON STREET JACKSONVILLE, FLORIDA 32201 (904) 353-5761

	(4.3	.,				
Laboratory No.	82968		Februa	ry 24	19_	88
Sample of	Bark					
Date Received_	02/16/88					
For	Seminole Kraft Corporation, P. Attention: Mr. Hodges	O. Box 26998, J	Jacksonville, Fl	orida 3	2218	

CERTIFICATE OF ANALYSIS OR TESTS

		Method	Date/Time	Analyst
BTU/lb(Dry Basis)	6,971	ASTM D2015	02/17/88-1525	RK
Carbon (Dry Basis)	50.11 %			
Hydrogen (Dry Basis)	6.08 %			
Nitrogen (Dry Basis)	0.26 %			
Sulfur (Dry Basis)	0.012 %	ASTM D3177	02/18/88-0911	RK
Chloride (Dry Basis)	0.061 العام	ASTM D808	02/18/88-1341	RK
Oxygen	41.67 %	By Difference	e	
Ash (Dry Basis)	1.804 %	ASTM D3174	02/17/88-1427	RK
Moisture (as received)	34.89 %	ASTM D3172	02/17/88-0912	RK
	Colculat Assume Ci	368 ppm a cd by M, hloride = A hlorine = 6	s Chlorine Riddle 1; Va Cl 0.3 % of chlo	1/31/91 .r'd=

Respectfully submitted,

TECHNICAL SERVICES. INC.

ev Herrey C. Hurry, J.

LABORATORY I.D. NO. 82145

GALBRAITH

Laboratories, Inc.

QUANTITATIVE MICROANALYSES

ORGANIC - INORGANIC

PHONE 615/546-1335 FAX 615/546-7209

HARRY W. GALBRAITH. PH D
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EXECUTIVE VICE-PRESIDENT
WILLIAM M. LONGMIRE
VICE-PRESIDENT

Mr. G. Doss Seminole Kraft Corporation 9469 Eastport Road Jacksonville, Florida 32218 September 10, 1991

TECHNICAL SERVICES

Received: August 28th

PO#: 10441

Dear Mr. Doss:

(Bark)

Analysis of your compound gave the following results:

Your #,	Our #,	Analyses,	
1	S-6602	As Received, % Moisture % Ash	41.76 2.15
		Dry Basis, % Carbon % Hydrogen % Kjeldahl Nitrogen ppm Sulfur ppm Chlorine % Ash % Oxygen (By Diff)	51.13 5.73 0.15 228 91 3.70 39.41
2	S-6603	As Received, % Moisture % Ash	44.91 3.48
		Dry Basis, % Carbon % Hydrogen % Kjeldahl Nitrogen ppm Sulfur ppm Chlorine % Ash % Oxygen (By Diff)	46.61 5.78 0.12 1247 336 6.31 41.14

Mr. Doss Page 2 September 10, 1991

, Analyses,	
4 As Received,	
	40.99
% Ash	1.28
Dry Basis,	
	52.79
<pre>% Hydrogen</pre>	5.72
	272
	97
	2.17
% Oxygen (By Diff)	39.28
5 As Received,	
	40.16
% Ash	1.96
Dry Basis,	
<pre>% Carbon</pre>	51.96
	5.65
	245
	80
	3.27
% Oxygen (By Diff)	39.09
6 As Received,	
	63.15
% Ash	1.69
Dry Basis,	
% Carbon	51.05
	5.50
	0.27
	663
ppm Chlorine	79
	4.58
<pre>% Oxygen (By Diff)</pre>	38.80
	As Received,

Mr. Doss Page 3 September 10, 1991

Your #,	Our #,	Analyses,	
6	S-6607	As Received, % Moisture % Ash	57.49 0.87
		Dry Basis,	51.84 5.59 0.34 348 19 2.04 40.49

Sincerely yours,

GALBRAITH LABORATORIES, INC.

Lail R. Hutchers/sen

Gail R. Hutchens

Exec. Vice-President

GRH:dse



Stone Container Corporation

Missoula Mill

APPENDIX III

Mullan Road P.O. Box 4707

Containerboard and Paper Division

Missoula, Montana 59806-4707

October 30, 1991

406 626-4451

Craig Hurd
Regional Manager
Environmental Services
Stone Container Corporation
Technology and Environmental Center
2150 Parklake Drive, Suite 400
Atlanta, GA 30345

Dear Craig,

As you requested, I had a sample of our burnable wastes tested for ash content. The averaged ash content was 1.43%.

A representative sample of our burnable OCC rejects was collected from the central collection bin. These rejects are a combination of rejects from: 1) the hydrapurge/selectpurge system, 2) the Wandel vibration screens (rejects from the coarse screens) and 3) the hydradenser (rejects from the tertiary slotted screen and waxes and stickies from the Krofta clarifier). I have included a print out of the basic scheme of the Missoula OCC plant from the Honeywell computer controls for reference.

This sample was divided into three parts and dried for 24 hours and weighed on a bone dry basis. The samples were then brought gradually up to approximately 575 degrees Centigrade in our muffle furnace and burned at that temperature for approximately three hours. The samples were then cooled for about one hour in a desiccator and weighed. The weights, in grams, are recorded below along with the calculated inorganic fraction of the sample in percent.

	Bone Dry	<u>Ash</u>	<u>łash</u>
Sample 1	1.7913	0.0237	1.323
Sample 2	0.8943 /	0.0133	1.487
Sample 3	0.9651	0.0152	1.606
Average:	1.2169	0.0174	1.430 (using the average veights.)

If you have any questions, please let me know.

Sincerely,

Jenny Brown

Quality Control Engineer

APPENDIX IV

A representative sample off recycle fiber rejects from the Stone Container mill in Florence, South Carolina was dried and then ashed in a muffle furnace at 600°C .

Bone Dry Weight:

0.0610/4.9702 = 0.0123

= 1.23% Ash

October 22, 1991 Gene Doss