Golder Associates Inc.

6241 NW 23rd Street, Suite 500 Gainesville, FL USA 32653 Telephone (352) 336-5600 Fax (352) 336-6603 www.golder.com

RECEIVED

Golder Associates

April 11, 2007

APR 12 2007

063-7645

BUREAU OF AIR REGULATION

Florida Department of Environmental Protection Bureau of Air Regulation 2600 Blair Northwest District Tallahassee, Florida 32399-2400

Attention: Jeffery F. Koerner, P.E., Air Permitting North

RE: SMURFIT-STONE CONTAINER ENTERPRISES, INC.

PROJECT NO. 0050009-028-AC (PSD-FL-388)

PETCOKE FIRING IN LIME KILN REQUEST FOR ADDITIONAL INFORMATION

Dear Mr. Koerner:

Smurfit-Stone Container Enterprises, Inc. (SSCE) and Golder Associates Inc. have received the Department's request for additional information (RAI) dated March 23, 2007, regarding the proposed petroleum coke (petcoke) firing in the Lime Kiln at the Panama City Mill. Each of the Department's requests is answered below, in the same order as they appear in the RAI letter. Note that the RAI indicated the project number as 0590005-028-AC. We believe this should instead be project no. 0050009-028-AC.

Alternate Fuel Blends - Petroleum Coke and natural Gas or Fuel Oil

Comment 1. The application requests authorization to fire up to 90% petroleum coke with a maximum sulfur content of 7% as a substitute for fuel oil and natural gas. Please provide the "as-fired" specifications for petcoke including the ultimate and proximate analyses as well as metal concentrations.

Response: Provided below is an ultimate/proximate analysis and metals analysis for a representative petcoke sample.

	As Received	Dry Basis
Moisture	6.84	,
Ash	0.47	0.50
Sulfur	6.90	7.41
Carbon	80.79	86.72
Hydrogen	3.17	3.40
Nitrogen	1.36	1.46
Oxygen by I	Diff 0.47	0.51

Other Analysis	Dry Basis (ppm):
Vanadium	1,402
Calcium	185
Iron	269
Nickel	258
Silicon	535
Sodium	69

NOx Controls

Comment 2. The vendor estimated NO_x emissions for a blend of 80% petroleum coke / 20% natural gas at 105-125 ppm. Please provide data to support the vendor estimate, such as actual stack test data for the burners firing petcoke blends.

Response: Unfortunately, Coen could not locate copies of the actual stack test data from units firing the petcoke blends. However, Coen states the following in regards to the Department's comments:

"The numbers have been provided in the proposal as estimates based on burner calculations. Please note, the NO_x emissions listed in the proposal are based on lime recovery kilns. In lime kilns used to make cements, typically natural gas has the highest NO_x emissions (as listed in the Arcadis report) with a very high flame temperature. With lime recovery kilns requiring lower flame temperatures, fuel nitrogen from oil contributes additional NO_x when compared to natural gas combustion. Hence, NO_x emissions for oil is greater than natural gas."

Comment 3. The vendor estimated NO_x emissions for a blend of 80% petroleum coke / 20% natural gas at 165 – 185 ppm. Please provide data to support the vendor estimate, such as actual stack test data for the burners firing petcoke blends. The Department is aware of a report by Arcadis¹ stating, "For example, in the kiln, natural gas combustion with a high flame temperature and low fuel nitrogen generates a larger quantity of NO_x than does oil or coal, which have higher fuel nitrogen but which burn with lower flame temperatures." If this is true, then it would appear that NO_x emissions would decrease with the use of oil. Please comment.

Response: Refer to response to Comment 2 above. Also, Arcadis is quoting AP-42, Section 11.6 for Lime Kilns. However, Coen states in their proposal, page 5 of 13, in regards to their Dual Zone gas gun: "In addition recirculation is produced by the spinner bringing in flue gases (internal flue gas generator) and since the heat is transferred efficiently the flame cools down, thereby reducing the thermal NO_x produced from our burner as compared to any other make burner." Therefore, it is the unique design of the Coen burner that produces lower NO_x emissions when burning natural gas compared to fuel oil.

- Comment 4. The PSD report indicates that the exhaust from the lime kiln is between 1600°F and 2700°F, which may provide a reasonable temperature window for SNCR (1600°F to 2000°F). However, the application states that load fluctuations and difficulties in maintaining the proper temperature window would preclude using a SNCR system for control of NO_x emissions.
 - a. Please explain why there is such a wide variation in loads for the lime kiln as suggested in the application. Describe the lime kiln operation and document the magnitude and frequency of the load fluctuations by providing hourly production rates for 2006.
 - b. The Department has discussed load variations with Fuel-Tech, an SNCR vendor. From these discussions, it appears that load fluctuations are simply another design consideration. In addition, new cement kilns are being permitted with SNCR systems that do not involve a complicated injection grid for ammonia or urea. Please provide data on the lime kiln

¹ "Environmental Considerations and Permitting, use of Petroleum Coke as Supplemental Fuel in Lime Kilns", Arcadis report prepared for DTE Energy Services, December 2003.

exhaust temperature downstream of the lime kiln and upstream of the venturi scrubber. Provide dimensions and/or drawings of the exhaust duct from the lime kiln through the venturi scrubber. Indicate if any obstructions exist that would prohibit modifications to the existing duct to accommodate ammonia injection. Please provide a vendor quotation for an SNCR system.

Response: On page 5-4 of the PSD application, it is stated that "A lime kiln typically operates in the 1,600 to 2,700 °F range." This is a general statement, and not specific to SSCE's Lime Kiln. On page 5-5 in the discussion of SNCR, the application states, "The correct temperature window of 1,600°F to 2,100°F occurs inside the rotating body of the kiln. Locating injection nozzles in such an area is not technically feasible at the present time and has not been attempted on any lime kiln." SSCE measures flue gas temperature at two locations in the kiln: at the hot end, where the burner is located, and at the cold end where the combustion gases exit the kiln and where the lime mud enters the kiln.

Hourly hot end temperature data for the first quarter of 2007 is shown graphically in Figure 1 attached. The data reveal that the temperature at the hot end averages about 2,500°F, and rarely falls below 2,200°F. Hourly cold end temperature data for the first quarter of 2007 is shown in Figure 2. The data shows that the temperature at the cold end is normally between 550°F and 600°F. Therefore, as stated in the application, the correct temperature window of 1,600°F to 2,100°F occurs inside the rotating body of the kiln

SSCE also examined Lime Kiln load variation. Hourly Lime Kiln throughput is shown graphically in Figures 3, 4, and 5 for the periods January, June, and December 2006. The data reveal significant load variations. These data are typical of year-around operation. The primary reason for the load variations is that the kiln is part of a larger production process and needs to be able to respond to fluctuations in that process due to limited storage capacity in the liquor cycle. The demands of the production process vary due to a number of reasons. These include: different product mixes, scheduled downtime, and unscheduled downtime. In addition, the kiln needs to have "catch up" capacity should it need to be down.

For all of the above reasons, SNCR is not technically feasible for application to the SSCE Lime Kiln. To confirm the correctness of this conclusion, FuelTech Inc. was contacted and their combustion survey form completed for the Lime Kiln. Additional information regarding the dimensions of the Lime Kiln and the temperature information was also provided. FuelTech's response was as follows:

Fuel Tech has reviewed the information you provided for the above referenced lime kiln application, but it does not appear feasible to release the chemical within the appropriate temperature window for the SNCR process.

The kiln is 375 ft long with a diameter of 12.5 ft. The hot end of the kiln is at 2,400°F and the cold end of the kiln is at 600°F. The appropriate temperature window is somewhere in between, but since the kiln is rotating we can only inject from either end. The baseline NO_x is between 165 and 185 ppm. In order for FTI to be able to produce any reduction in NO_x emissions, the chemical would have to be released at a temperature of 1950°F or below, assuming low CO. If we assume a linear temperature drop across the kiln, that would mean that the temperature gradient is 4.8°F per foot (a temperature drop of 1800°F – from 2400°F to 600°F – over a length of 375 feet). If we inject through the end at 2400°F, need to release at 1950°F, and use the gradient of 4.8°F/ft, the urea would have to travel 94 feet into the kiln before it reaches the temperature of interest. If we inject through the cold end at 600°F, the urea would have to travel over 200 feet to reach a minimum temperature of 1600°F where some NO_x reduction could take place. We do not believe that either approach is realistic.

This statement substantiates that SNCR is not technically feasible for the SSCE Lime Kiln. A copy of the combustion survey form and the email from FuelTech are provided in Attachment A.

Comment 5. Please submit the 2006 NO_x emissions stack test report, including emissions data, operating conditions, etc.

Response:

The pertinent pages from the 2006 stack test report are provided in Attachment B.

SO₂ Controls

Comment 6. The application estimates 80% SO₂ reduction in the lime kiln and 90% reduction in the wet scrubber for an overall reduction of approximately 98%. The Arcadis report¹ suggests an SO₂ reduction for the lime kiln alone may be as high as 99.5%. From historical permit records, this lime kiln is more than 300 feet in length, which would provide intimate contact with the exhaust gas and lime. Please provide data to support the low expected SO₂ reductions.

Response: For purposes of the permit application, emission estimates must necessarily be conservative since an emission limit may be imposed which must be met on a continuous basis. Actual SO₂ reductions will likely be greater than the application estimates. However, the actual SO₂ reduction can not yet be quantified, until the project is implemented and emission testing is conducted.

Comment 7. The application indicates that the venturi scrubber uses fresh water as the scrubber media and combined with the highly alkaline lime dust that exits the lime kiln acts as a virtual flue gas desulfurization system. Please discuss the option of adding lime to the scrubber media to increase SO₂ removal efficacy.

Response: The pH of the scrubber water, as measured by SSCE, is already approximately 9, due to the lime dust captured in the venturi scrubber. Adding additional lime would not result in any higher pH, or any greater SO₂ control.

Comment 8. Please submit the SO₂ stack test reports from 2002 and 2006 including emissions data, operating conditions, etc.

Response: The pertinent pages from the 2002 and 2006 stack test reports are attached in Attachment B.

Air Quality Modeling Analysis

Comment 9. Please revise Table 6-5 to show that the short-term SO₂ emission rates for Combination Boilers 3 and 4 represent an actual decrease in emissions and not an increase that should be included in the SO₂ PSD Class I and II significant impact analyses. From the table, it appears that you are requesting a new combined SO₂ emissions limit for these units. Please specify the new enforceable permit limit that formed the basis for the SO₂ air quality analysis.

Response: The emissions shown in Table 6-5 were used in the ambient air quality standard (AAQS) analysis and PSD Class II increment analysis, and are not related to the significant impact analysis. The emissions used in the significant impact analysis are shown in Table 6-3. These emissions did not include the reductions from the Nos. 3 and 4 Combination Boilers. The emissions

used in the significant impact analysis did not include any emission reductions due to the Nos. 3 and 4 Combination Boilers because the Recovery Boilers building enclosure is not related to the Lime Kiln petcoke project. However, since the Lime Kiln petcoke project required modeling for AAQS and PSD Class II increments, it was decided to include the Recovery Boiler buildings modeling analysis in the petcoke application in order to expedite review of the modeling. Proposed wording for new enforceable permit conditions that form the basis of the SO₂ air quality analysis are provided below:

No. 3 Combination Boiler

- **B.5.** Sulfur Dioxide. Sulfur dioxide emissions shall not exceed 887 pounds per hour based on a 24-hour average. Sulfur dioxide emissions shall be continuously monitored and recorded. The permittee shall maintain a scrubber pH of 7.0 or greater (24-hour average) during times when the continuous monitor is being repaired and/or calibrated. Monitoring records shall be maintain and available for inspection by the Department.
 - a. Beginning on the date that the permittee completes the enclosure of the east wall of the Recovery Boilers building, the combined total sulfur dioxide emissions from the Nos. 3 and 4 Combination boilers shall not exceed 1,350 pounds per hour based on a 24-hour average.
 - b. Beginning on the date that the permittee completes the enclosure of the east wall and one or more additional walls of the Recovery Boilers building, the combined total sulfur dioxide emissions from the Nos. 3 and 4 Combination boilers shall not exceed 1,100 pounds per hour based on a 24-hour average.
 - c. The permittee shall provide notification to the Department within 7 days of completion of activities authorized in condition B.5.a and B.5.b above.

No. 4 Combination Boiler

- C.5. Sulfur Dioxide. Sulfur dioxide emissions shall not exceed 1,183 pounds per hour when incinerating NCG and SOG, 1,174 pounds per hour when burning SOG but not NCG, 1,183 pounds per hour when burning NCG but not SOG, and 772 pounds per hour when not incinerating NCG or SOG. Sulfur dioxide emissions shall be continuously monitored and recorded. The permittee shall maintain a scrubber pH of 8.0 or greater (24-hour average) during times when the continuous monitor is being repaired and/or calibrated. Monitoring records shall be maintain and available for inspection by the Department.
 - a. Beginning on the date that the permittee completes the enclosure of the east wall of the Recovery Boilers building, the combined total sulfur dioxide emissions from the Nos. 3 and 4 Combination boilers shall not exceed 1,350 pounds per hour based on a 24-hour average.
 - b. Beginning on the date that the permittee completes the enclosure of the east wall and one or more additional walls of the Recovery Boilers building, the combined total sulfur dioxide emissions from the Nos. 3 and 4 Combination boilers shall not exceed 1,100 pounds per hour based on a 24-hour average.

c. The permittee shall provide notification to the Department within 7 days of completion of activities authorized in condition C.5.a and C.5.b above.

Comment 10. Rule 212.400(4)(e), F.A.C. requires an analysis of the air quality impacts as well as the nature and extent of any or all commercial, residential, industrial, and other growth which has occurred since August 7, 1977 in the area that the modification would affect. Please provide this information.

Response:

The requested analysis is provided in Attachment C.

Comment 11. NO, is an ozone precursor and, for any net increase of 100 tons per year, the federal rules require an ambient impact analysis for ozone. The predicted NOx increase for this project is greater than 100 tons per year. Please provide this analysis.

Response:

The requested analysis is provided in Attachment D.

Also attached is the Professional Engineer certification statement. Thank you for consideration of this information. If you have any questions, please do not hesitate to call me at (352)336-5600.

Sincerely,

GOLDER ASSOCIATES INC Dail a Bus

David A. Buff, P.E., O.E.P.

Principal Engineer

DB/all

Enclosure

Cc: Tom Clements, Smurfit-Stone

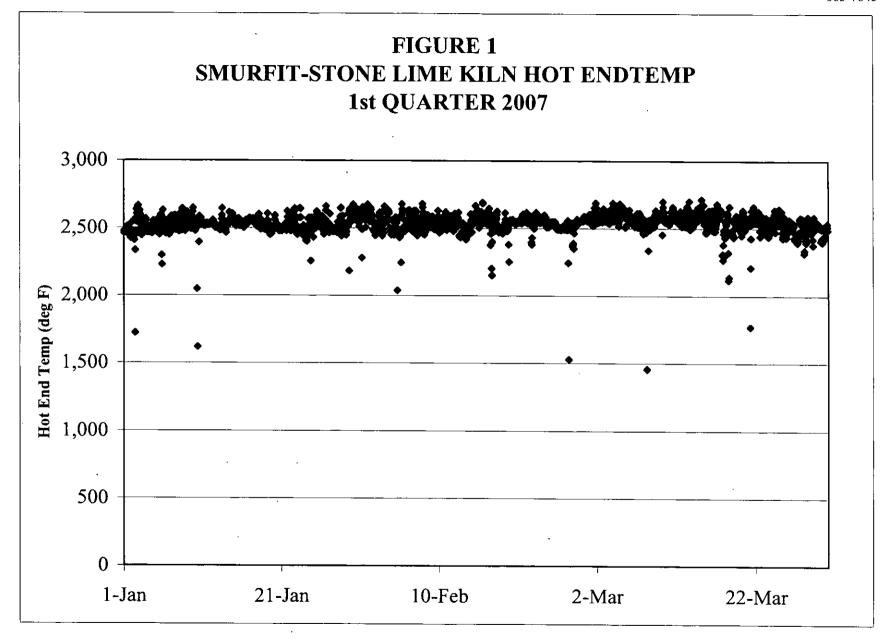
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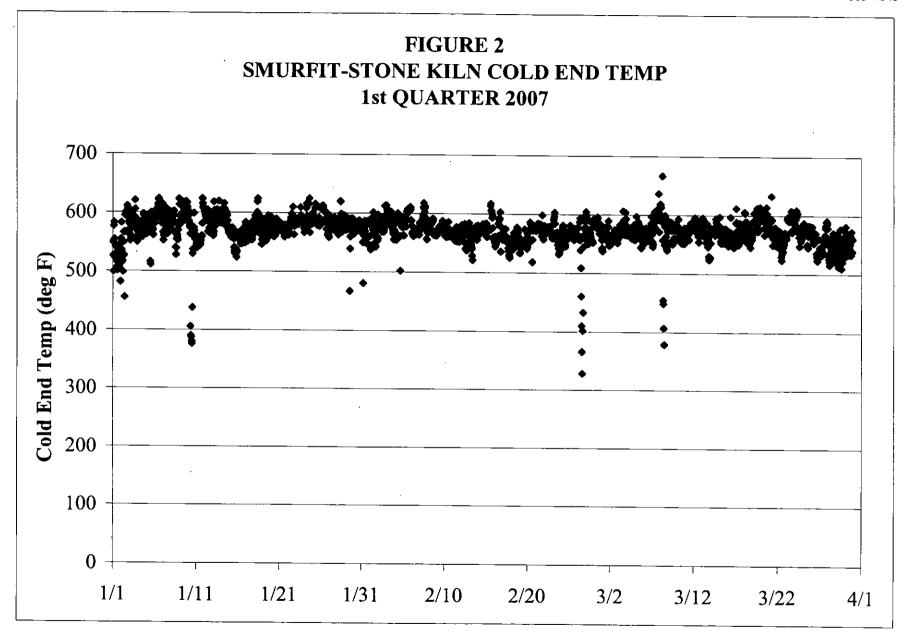
APPLICATION INFORMATION.

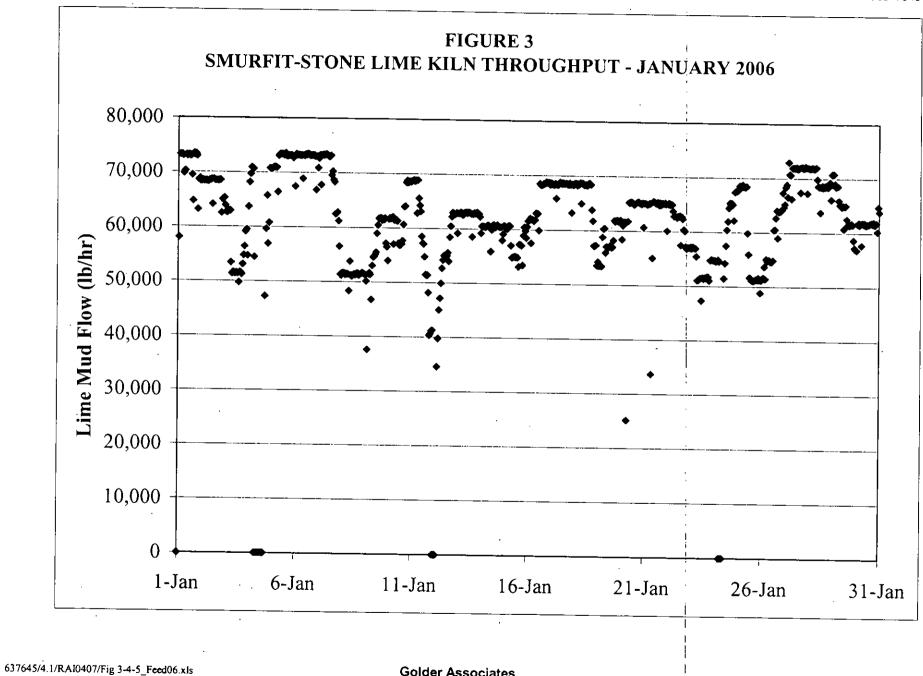
Pr	ofessional Engineer Certification
1.	Professional Engineer Name: David A. Buff
	Registration Number: 19011
2.	Professional Engineer Mailing Address
	Organization/Firm: Golder Associates Inc.**
	Street Address: 6241 N.W. 23rd Street, Suite 500
	City: Gainesville State: Florida Zip Code: 32653
3.	Professional Engineer Telephone Numbers
	Telephone: (352) 336-5600 ext.545 Fax: (352) 336-6603
4.	Professional Engineer Email Address: dbuff@golder.com
5.	Professional Engineer Statement:
	I, the undersigned, hereby certify, except as particularly noted herein*, that:
	(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
	(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.
	(3) If the purpose of this application is to obtain a Title V air operation permit (check here \(\Bar{\text{l}}\), if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.
	(4) If the purpose of this application is to obtain an air construction permit (check here \boxtimes , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here \square , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.
	(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. Device 1/07
-	Signature Date Date

^{*} Attach any exception to certification statement.

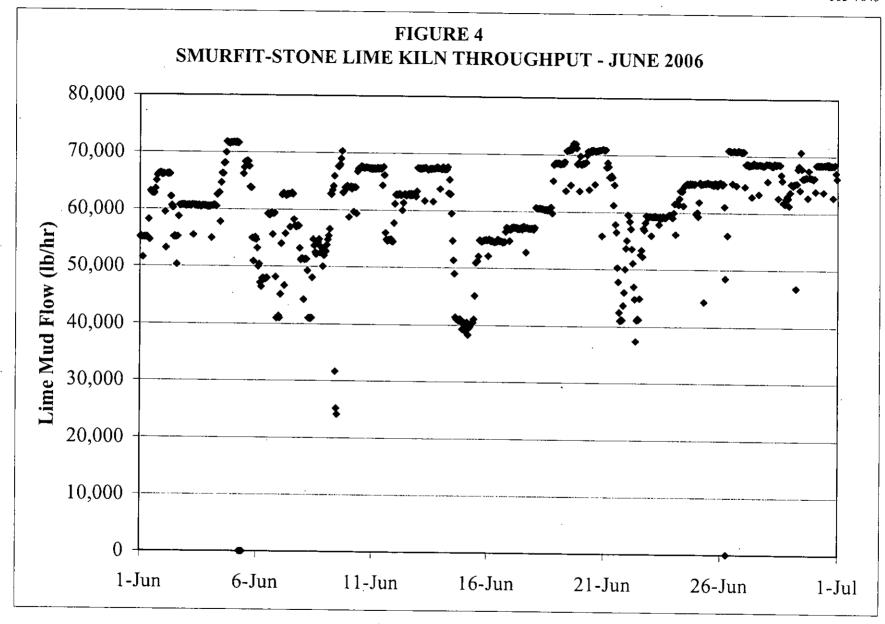
** Board of Professional Engineers Certificate of Authorization #00001670

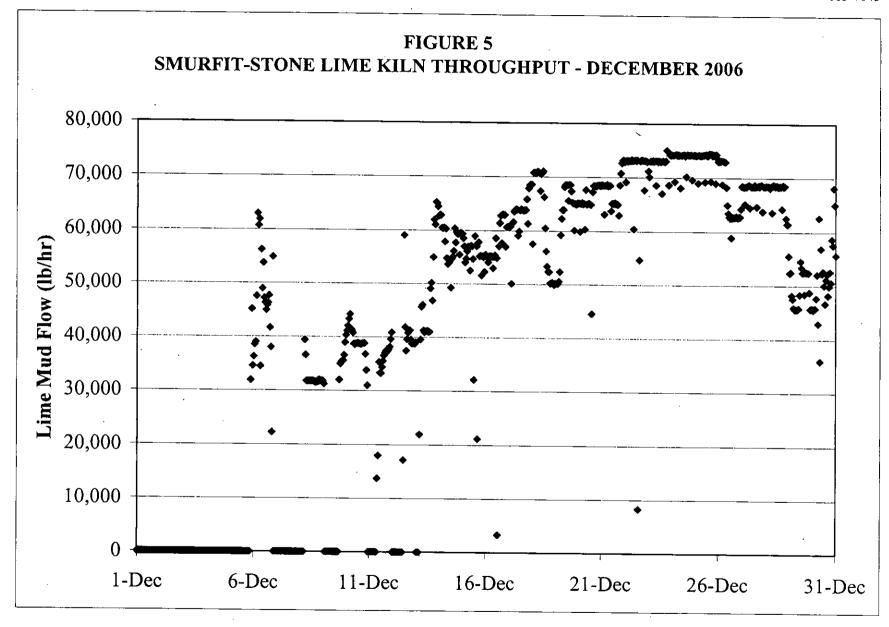






Golder Associates





ATTACHMENT A

SNCR INFORMATION FOR FUELTECH, INC.

Buff, Dave

From:

Terry Brown [TBrown@ftek.com]

Sent:

Tuesday, April 03, 2007 1:38 PM

To:

Buff, Dave

Cc:

Tex Quillian

Subject: SSCE Lime Kiln SNCR

Dave.

Fuel Tech has reviewed the information you provided for the above referenced lime kiln application, but it does not appear feasible to release the chemical within the appropriate temperature window for the SNCR process.

The kiln is 375 ft long with a diameter of 12.5 ft. The hot end of the kiln is at 2400°F and the cold end of the kiln is at 600°F. The appropriate temperature window is somewhere in between, but since the kiln is rotating we can only inject from the either end. The baseline NOx is between 165 and 185 ppm. In order for FTI to be able to produce any reduction in NOx emissions, the chemical would have to be released at a temperature of 1950°F or below, assuming low CO. If we assume a linear temperature drop across the kiln, that would mean that the temperature gradient is 4.8°F per foot (a temperature drop of 1800°F – from 2400°F to 600°F – over a length of 375 feet). If we inject through the end at 2400°F, need to release at 1950°F, and use the gradient of 4.8°F/ft, the urea would have to travel 94 feet into the kiln before it reaches the temperature of interest. If we inject through the cold end at 600°F, the urea would have to travel over 200 feet to reach a minimum temperature of 1600°F where some NOx reduction could take place. We do not believe that either approach is realistic.

Thank you for the opportunity to review this application for your client. Please let me know if you have any questions. Thank you.

Terry L. Brown Regional Sales Manager

Fuel Tech, Inc.
110 Habersham Drive, Suite 108
Fayetteville, GA 30214-1381
770-371-5020 Office Phone
770-371-5021 Office Fax
770-560-1880 Mobile Phone
tbrown@ftek.com

ATTACHMENT B

2002 AND 2006 STACK TESTS ON LIME KILN

SOURCE TEST REPORT

ENGINEERING TESTS FOR SO₂ SMURFIT-STONE CONTAINER CORP. PANAMA CITY, FLORIDA

LIME KILN

October 31, 2002

Prepared By:

AAS Inc.

Ambient Air Services, Inc.

106 Ambient Airway - Starke, FL 32091 - (904) 964-8440 - Fax (904) 964-6673

1.0 INTRODUCTION

Ambient Air Services, Inc. was engaged by Smurfit-Stone Container Corporation, Panama City, Florida to perform emissions test on the Lime Kiln for Sulfur Dioxide. This was an Engineering test for information only. The test was performed on October 31, 2002, and three runs of 1 hour each were made by AASI personnel with the assistance of the Smurfit-Stone operating crews.

Results for the SO2 emissions are reported on a mass emissions basis and therefore Volumetric flow rates were determined as well.

We wish to express our appreciation to Mr. Tom Clements and associates and the mill operating staff for their cooperation in the successful completion of this project. We also wish to thank the production staff for maintaining the required production rates and recording the operating data during the test period.

SOURCE PARAMETERS TEST METHOD

Lime Kiln Sulfur Dioxide EPA Method 6C

TABLE 2.1

SULFUR DIOXIDE EMISSIONS SUMMARY
LIME KILN

SMURFIT-STONE CONTAINER CORPORATION PANAMA CITY, FLORIDA

DATE	RUN	TIME	LEVEL	SO2	VOLUMETRIC	OXYGEN	SO2 EMIS	SSIONS
	NUMBER	PERIOD		PPM	FLOW SCFMD	%	LBS/DSCF	LB/HR
10/31/02	1	1040-1140	MAX	299.93			4.979E-05	117.75
			MIN	0.00			0.000E+00	0.00
		•	AVG	58.30	54799	5.94	9.677E-06	22.89 *>
10/31/02	2	1150-1250	MAX	36.16			6.003E-06	13.60
			MIN	0.00			0.000E+00	0.00
			AVG	17.11	52482	6.96	2.840E-06	6.43
10/31/02	3	1300-1400	MAX	32.07			5,324E-06	12.37
			MIN	0.00			0.000E+00	0.00
			AVG	12.27	53836	7.35	2.037E-06	4.73
_			MEAN	29.23	53705.7	6.75	4.851E-06	11.35

ppm - Parts per million by volume

LBS/HR = $1.66E-07 \times ppm \times SCFMD \times 60$

^{*} Mean determined as arithmetic average of the results for each run of the runs

	1	Lime Kiln				Cl ₌₁	er Flows			·		
	Mud Flow	Oil Flow	Gas Flow	Corrected TRS	Vent Diff	Scrubber Bull Flow	Tangential Flow	Green Liquor	Lime	Scrubber		NOTE: When the
NITS	LES/HR	GPM	MCFH	PPM	<u>In</u>	GPM	GPM	TPH	TPH	GPM	WHAT'S WRONG!	out, identify the
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7	717360	13.3	<u> </u>		33	053	784	49.4	17.1	33		
8	38330	133	٥	5	15	259	788	49.4	17.1	33		
9	MILIO	13.1	<u>0</u>	<u> </u>	25	(057	780	49 4	17.1	35		
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JBc FORMS/ELEACH/Linicidin@arthbor (7-19-04)



Weston Solutions, Inc. 1625 Pumphrey Avenue Auburn, Alabama 36832-4303 334-466-5600 • Fax 334-466-5660 www.westonsolutions.com

28 February 2006

Mr. Benny Raffield
Smurfit-Stone Container Corporation
1 Everitt Avenue
Panama City, Florida 32412-0560

(Ut. only thate 1 km)

Work Order No. 03939.009.006

Re: No. & Lime Kiln Emission Testing

Dear Mr. Raffield:

This letter with attachments constitutes our report of the nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emission testing performed on the No. & Lime Kiln at the Panama City, Florida facility. Mr. Rodney Padgett and Mr. Paul Green of Weston Solutions, Inc. (WESTON®) performed the testing on 7 February 2006 for in-house engineering use by mill personnel.

Attachment A to this letter presents the results of the testing in tabular form. Attachment B includes copies of the field data.

Nitrogen oxides and SO₂ sampling and analysis were conducted according to EPA Reference Methods 7E and 6C, respectively. The source gas volumetric flow rate was determined during sampling according to EPA Reference Methods 1-4.

We appreciate the opportunity to serve you on this project. If you have any questions or require additional information, please call me at 334-466-5617.

Sincerely,

WESTON SOLUTIONS, INC.

Billy Routhier

Project Manager

Sincerely,

WESTON SOLUTIONS, INC.

Melanie Wright, Ph.D.

Quality Assurance Representative

Welening Wright

jb

Enclosure



Table A-1 No. 3 Lime Kiln Summary of NO $_{x}$ and SO $_{z}$ Emission Results

	Run 1	Run 2	Run 3	Mean
Date	2/7/06	2/7/06	2/7/06	
Time Began	1201	1301	1401	
Time Ended	1301	1401	1501	
Stack Gas Data				
Temperature, °F	160	159	160	160
Velocity, ft/sec	48	48	50	48
Moisture, %	32	32	32	32
CO ₂ Concentration, %	19.0	16.4	17.2	17.5
O ₂ Concentration, %	6.7	8.0	7.7	7.5
VFR, x 10 ⁴ dscfm	5.17	5.20	5.34	5.24
Nitrogen Oxides				
Concentration, ppm	99	96	90	95
Concentration, ppm @ 10% O ₂	76	81	74	77
Emission Rate, lb/hr	37	36	34	36
Sulfur Dioxide				
Concentration, ppm	<1.0	<1.0	<1.0	<1.0
Concentration, ppm @ 10% O ₂	<0.8	<0.8	<0.8	<0.8
Emission Rate, lb/hr	<0.5	<0.5	<0.5	<0.5

VOLUMETRIC FLOW CALCULATIONS

Run Number	Run 1	Run 2	Run 3	Mean
Date	2/7/06	2/7/06	2/7/06	
Time	1240	1320	1450	
Volumetric Flow Data				
Velocity Head, in. H2O	•			
Point 1	1.45	1.50	1.45	1.47
Point 2	1.10	1.10	1.15	1.12
Point 3	0.66	0.60	0.62	0.63
Point 4	0.20	0.18	0.20	0.19
Point 5	0.06	0.05	0.24	0.12
Point 6	0.20	0.22	0.20	0.21
Point 7	0.72	0.73	0.74	0.73
Point 8	0.68	0.66	0.70	0.68
Point 9	0.66	0.66	0.70	0.67
Point 10	0.40	0.39	0.40	0.40
Point 11	0.04	0.05	0.06	0.05
Point 12	0.06	0.05	0.05	0.05
Point 13	0.84	0.84	0.85	0.84
Point 14	1.45	1.40	1.45	1.43
Point 15	1.45	1.45	1.50	1.47
Point 16	1.40	1.40	1.40	1.40
Square Root of Delta P, (in. H20) ¹ / ₂	0.767	0.763	0.789	0.773
Pitot Tube Coefficient (Cp)	0.84	0.84	0.84	0.84
Barometric Pressure (Pb), in. Hg	30.15	30.15	30.15	30.15
Static Pressure (Pg), in. H2O	-0.68	-0.66	-0.66	-0.67
Stack Pressure (Ps), in. Hg	30.10	30.10	30.10	30.10
Stack Diameter (I.D.), in.	75.1	75.1	75.1	75.1
Stack Cross-sectional Area, ft^2	30.76	30.76	30.76	30.76
Stack Gas				
Temperature (ts), °F	160	159	160	160
Moisture (Bws)	0.319	0.315	0.318	0.317
CO2 Concentration (CO2), %	19.0	16.4	17.2	17.5
O2 Concentration (O2), %	6.7	8.0	7.7	7.5
Molecular Weight (Ms), lb/lb-mole	27.1	26.9	26.9	26.9
Velocity (Vs), ft/sec	48.1	47.9	49.5	48.5
Volumetric Flow Rate,				
At Stack Conditions (Qa), ACFM	88703	88461	91415	89526
At Standard Conditions (Qs), DSCFM	51749	51955	53429	52378

Smurfit Stone Panama City, FL

03939.009.006 No. 3 Lime Kiln

EMISSION CALCULATIONS

Date Time Began Time Ended		Run 1 2/7/06 1201 1301		Run 2 2/7/00 1301 1401	_	Run : 2/7/0 1401 1501		Mean
Volumetric Flow Rate, (Qs), DSCFM BWS % Oxygen Oxygen Reference Concentration, %		5.17E+0 0.319 6.7 10.0)4	5.20E+0.315 8.0 10.0		5.34E+ 0.318 7.7 10.0	-	5.24E+04 0.317 7.5 10.0
Nitrogen Oxides MW= 46. Concentration, ppm Concentration, ppm @10%0: Emission Rate, lb/hr		99.0 76.0 36.7		96.0 81.1 35.7	•	90.0 74.3 34.4		95.0 77.1 35.6
Sulfur Dioxide MW= 64. Concentration, ppm Concentration, ppm @10%02 Emission Rate, lb/hr	<	1.0 0.8 0.5	< < <	1.0 0.8 0.5	< < <	1.0 0.8 0.5	< < <	1.0 0.8 0.5

M

IT

	Date: 2-07-07 Caustic Room Environmental Log Sheet												NOTE: When the environmental targets as
UNITS	Lime Kiln Lin					Scrubber	Slacker Flows			Check ERS System	WHAT'S WRONG!	Out, identify the problem and log the actic Being taken to get it back within limits.	
LIMIT	Mud Flow Oil Flow Get Flow		Corrected TRS Vent Diff Bull Flow			Tangential Flow Green Liquer Lime Se			Scrubber	1 1			
	LBS/HR < 70,602	rambtu < 180	===hts <190	PPM < 20	- In. > 20	GPM >752	GPM >748	TPH	TPH	CPM	1		
TIME	770,000	- 177	. 154	~ > > >		- 7/34		< 60.39	<21.19	>30			Action Taken To Fix It
VID	Hour	Hour	Hour	12 Hour	Hour	Hour	Hour	Rour	Hour	Hour	Yes		i
am	598-30	106		7.3	2-5	1082	105-8-	\$49.5	17.1	35-			
<u></u>	58330	106		1.0	2.5	1086	1060	49.4	17.1	33			
3	59610	106	1	1.0	25	1088	1063	49.4	170	15			
,	59830	106	-	1.4	2.5	3027	1059	49.4	17.1	35	7		····
0	50880	106		.7	26	1084	1059	49.5	17.0	35			
1	46090	97	-	_ 5	27	1086	1058	49.4	17:1	75			
2 рш	68430	_81	_	-4	26	1084	1053	46.8	16.1	3.5			
l i	68300	115	1	. 1:1	24	1084	1070	46.7	14.2	35			
, '	68500	106	ſ	.1.0	26	1088	1066	44.7	74.1	35			
1	68450	106	1	1.2	26	1082	1061	43.8	15.2	35	7		
	57120	106	_	1.0	27	1087	1065	44.1	15.7	35	-/		-
5	5 7290	106		1.4	27	1081	1057	44.0	15.2	35			
	56640	106	-].)	74	1075	1058	43.9	15.2	75			
,	57330	/36	261-	11	26	1076	106 5	41.1	77.3	75	44		
}	57220	106	ì	.8	и.	1678	/070	41.2	14.3		*2 +	****	
	57050	706	7	. 8	26	/075	1067	462	/4.3	35			
,	57170	106		1.6	u,	1085	1062	424	14.7	35	\rightarrow	····	
	5-719.)	/115		.8	2.7	1017	1071	42.4	9.7	74			
am .	57020	106	-	: 8	27	1080	1061	77.70	747	33			
	57/50	(0)	-	1.4	77	1086	1062	425	14.7	25			
	56850	136	~	2,1	27	1079	1065	425	14.7	34			
	57440	[] [~ ~	1.4	26	JOYG	1066	y ъ Y	/Y-7	73			
	57120	106		10	17	1015	1070	477	74.7	32			
	T7400	(0)		10	ŭ	/081	1074	Un. le	14.7	35	-5-1		
	OP	ERATOR		Fo	reman	- /*/	Super	rintendent	- 1 7 7 1	21 1			<u> </u>
7-3	5	4								Green Lie	uor {THP} =	GL Flow X 0.054	9
- 11	<u>Larry</u>	- A		- And	1/20					Lime {TH	P} = GL Flow	X 0.0190	
	gament	/ Sinker			X/\ /		VAA			Mud Flow	{LBS/HR} =	450.6 X Mud Flor	v X Density X {1+ Density}
1-7	Oslen !	m's sel	2	YK.	WKW.	i	1 13	X					

Note: Red Circle Any Limits That Are Out Of Target

ATTACHMENT C

AIR QUALITY IMPACTS OF ADDITIONAL GROWTH

1.0 IMPACTS DUE TO ASSOCIATED DIRECT GROWTH

1.1 Introduction

Rule 62-212.400(3)(h)(5), Federal Administrative Code (F.A.C.), states that an application must include information relating to the air quality impacts of, and the nature and extent of, all general, residential, commercial, industrial, and other growth that has occurred since August 7, 1977, in the area the facility or modification would affect. This growth analysis considers air quality impacts due to emissions resulting from the industrial, commercial, and residential growth associated with the Lime Kiln petcoke project proposed for the SSCE Panama City Mill. This information is consistent with the U.S. Environmental Protection Agency (EPA) guidance related to this requirement in the *Draft New Source Review Workshop Manual* (EPA, 1990).

The SSCE Mill is located in Bay County, which is bounded by Washington County to the north, Walton County to the west, Calhoun and Gulf Counties to the east, and the Gulf of Mexico to the south. The total area of Bay County is 1,033 square miles; 763 square miles of land and 270 square miles of water.

There should not be any increase in the workforce needed for the Lime Kiln petcoke project at the SSCE Mill. Therefore, there is not expected to be any increase in vehicular traffic in the area, with no effect on air quality levels.

There are also expected to be no air quality impacts due to associated commercial and industrial growth given the location of the Mill. The existing commercial and industrial infrastructure should be adequate to provide any support services that the project might require and would not increase with the operation of the Mill.

The following discussion presents general trends in residential, commercial, industrial, and other growth that has occurred since August 7, 1977, in Bay County. As such, the information presented is available from a variety of sources (i.e., Florida Statistical Abstract, FDEP, etc.) that characterize Bay County as a whole.

1.2 Residential Growth

1.2.1 Population and Household Trends

As an indicator of residential growth, the trends in the population and number of household units in Bay County since 1977 are shown in Figure 1. The County experienced a 68-percent increase in population for the years 1977 through 2004. During this period, there was an increase in population of about 64,000. Similarly, the number of households in the County increased by about 28,000, or 90 percent, since 1977.

Growth Associated with the Mill Modification

Because there will be no additional employees needed for the proposed modification, residential growth will not change.

1.3 Commercial Growth

1.3.1 Retail Trade and Wholesale Trade

As an indicator of commercial growth in Bay County, the trends in the number of commercial facilities and employees involved in retail and wholesale trade are presented in Figure 2. The retail trade sector comprises establishments engaged in retailing merchandise. The retailing process is the final step in the distribution of merchandise. Retailers are, therefore, organized to sell merchandise in small quantities to the general public. The wholesale trade sector comprises establishments engaged in wholesaling merchandise. This sector includes merchant wholesalers who buy and own the goods they sell; manufacturers' sales branches, and offices that sell products manufactured domestically by their own company; and agents and brokers who collect a commission or fee for arranging the sale of merchandise owned by others.

Since 1977, retail trade has increased by 121 establishments and 2,100 employees, or 19 and 27 percent, respectively. For the same period, wholesale trade has increased by about 55 establishments and 1,100 employees, or 44 and 95 percent, respectively.

1.3.2 Labor Force

The trend in the labor force in Bay County since 1977 is shown in Figure 3. The greatest number of persons employed in Bay County has been in the manufacturing, trade, and transportation industries

and education, health, and government services. Between 1977 and 2004, approximately 45,000 persons were added to the available work force, for an increase of 135 percent.

1.3.3 Tourism

Another indicator of commercial growth in Bay County is the tourism industry. As an indicator of tourism growth in the county, the trend in the number of hotels and motels and the number of units at the hotels and motels are presented in Figure 4.

This industry comprises establishments primarily engaged in marketing and promoting communities and facilities to businesses and leisure travelers through a range of activities, such as assisting organizations in locating meeting and convention sites; providing travel information on area attractions, lodging accommodations, restaurants; providing maps; and organizing group tours of local historical, recreational, and cultural attractions.

Between 1978 and 2004, there was a decrease of 40 percent in the number of hotels and motels. However, there was essentially no change in the total number of units at those facilities. In addition, the number of food establishments has more than doubled.

1.3.4 Transportation

As an indicator of transportation growth, the trend in the number of vehicle miles traveled (VMT) by motor vehicles on major roadways in Bay County is presented in Figure 5. The county's main arteries are Routes 98 and 231.

Between 1977 and 2005, there was an increase of more than 1,000,000 VMT, or 41-percent increase, on major roadways in the county.

1.3.5 Growth Associated with the Mill Modification

The existing commercial and transportation infrastructure should be adequate to provide any support services that might be required due to modification at the Mill.

1.4 Industrial Growth

1.4.1 Manufacturing and Agricultural Industries

As an indicator of industrial growth, the trend in the number of employees in the manufacturing industry in Bay County since 1977 is shown in Figure 6. As shown, the manufacturing industry experienced a slight decrease in the number of employees from 1977 through 2003.

As another indicator of industrial growth, the trend in the number of employees in the agricultural industry in Bay County since 1977 is also shown in Figure 6. As shown, the agricultural industry experienced a decrease in employment of 35 percent from 1977 through 2003.

1.4.2 Utilities

The existing power plants in Bay County are Gulf Power Company's Lansing Smith Plant and Bay County Energy Systems. The Gulf Power Company plant has an electrical nameplate generating capacity of nearly 1,000 megawatts (MW).

As an indicator of industrial growth, the change in electrical nameplate generating capacity in Bay County since 1977 is shown in Figure 7. As shown, the electrical nameplate generating capacity has increased by 524 MW, or 150 percent since 1977.

1.4.3 Growth Associated with the Mill Modification

Since the PSD baseline date of August 7, 1977, there have been only a few new major facilities built within a 35-km radius of the SSCE Mill. The nearest major sources are the Arizona Chemical Plant, Gulf Power Company's Lansing Smith Plant, and Bay County Energy Systems. Based on the locations of nearby air emission sources, there has not been a concentration of industrial and commercial growth in the vicinity of the SSCE Mill.

1.5 Air Quality Discussion

1.5.1 Air Emissions of Nearby Sources

Based on actual emissions reported for 2001 (latest year of available data) by EPA on its AIRSdata website, total emissions from stationary and area sources in Bay County are as follows:

• SO₂: 22,741 TPY

• PM₁₀: 10,009 TPY

• NO_x: 14,882 TPY

• CO: 87,660 TPY

VOC: 12,743 TPY

1.5.2 Air Emissions from Mobile Sources

The trends in the air emissions of CO, VOC, and NO_x from mobile sources in Bay County are presented in Figure 8. Between 1977 and 2005, there were significant decreases in these emissions. The decrease in CO, VOC, and NO_x emissions were about 282, 26, and 10 tons per day (TPD), respectively, which represent decreases from 1977 emissions of 76, 79, and 45 percent, respectively.

1.5.3 Air Monitoring Data

Since 1977, Bay County has been classified as attainment or maintenance for all criteria pollutants. Air quality monitoring data have been collected in the county at monitoring stations located in the following cities:

- SO₂ concentrations Panama City and Lynn Haven;
- PM₁₀ concentrations Panama City;
- NO₂ concentrations Panama City and Lynn Haven; and
- O₃ concentrations Panama City.

Data collected from these stations are considered to be generally representative of air quality in Bay County. Because these monitoring stations are generally located in more industrialized areas than at the SSCE Mill, the reported concentrations are likely to be somewhat higher than that experienced at the Mill.

These data indicate that the maximum air quality concentrations currently measured in the region comply with and are well below the applicable AAQS. These monitoring stations are located in areas where the highest concentrations of a measured pollutant are expected due to the combined effect of emissions from stationary and mobile sources, as well as the effects of meteorology. Therefore, the ambient concentrations in areas not monitored should have pollutant concentrations less than the monitored concentrations from these sites.

In addition, since 1988, PM in the form of PM₁₀ has been collected at the air monitoring stations due to the promulgation of the PM₁₀ AAQS. Prior to 1989, the AAQS for PM was in the form of TSP concentrations, and this form was measured at the stations.

SO₂ Concentrations

The trends in the annual, 24-hour, and 3-hour average SO₂ concentrations measured at the five Bay County monitoring stations since 1981 are presented in Figures 9 through 11, respectively. SO₂ concentrations have been measured at five stations for various time periods throughout these years. As shown in these figures, concentrations have been and continue to be well below the AAQS.

PM₁₀/TSP Concentrations

The trends in the annual and 24-hour average PM₁₀ and TSP concentrations since 1977 for monitoring sites in the county are presented in Figures 12 and 13, respectively. TSP concentrations are presented through 1988 since the AAQS was based on TSP concentrations through that year. In 1988, the TSP AAQS was revoked and the PM standard was revised to PM₁₀.

As shown in these figures, measured TSP concentrations were below the TSP AAQS. Since 1988, when PM₁₀ concentrations have been measured, the PM₁₀ concentrations have been and continue to be below the AAQS.

NO2 Concentrations

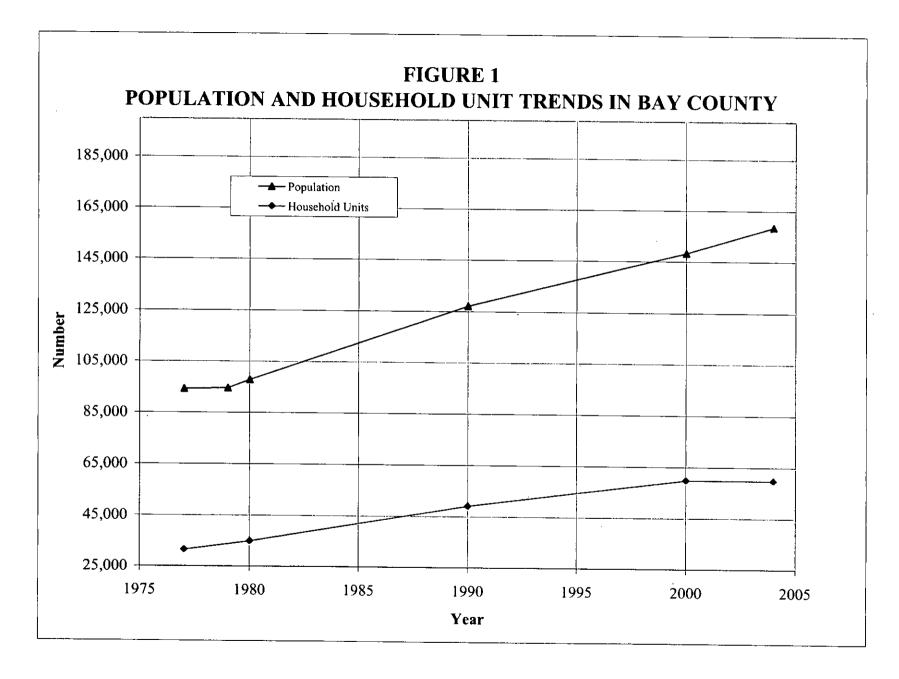
The trends in the annual average NO₂ concentrations measured at the nearest monitors to the Mill is presented in Figure 14. As shown in this figure, measured NO₂ concentrations at the monitors have been well below the AAQS.

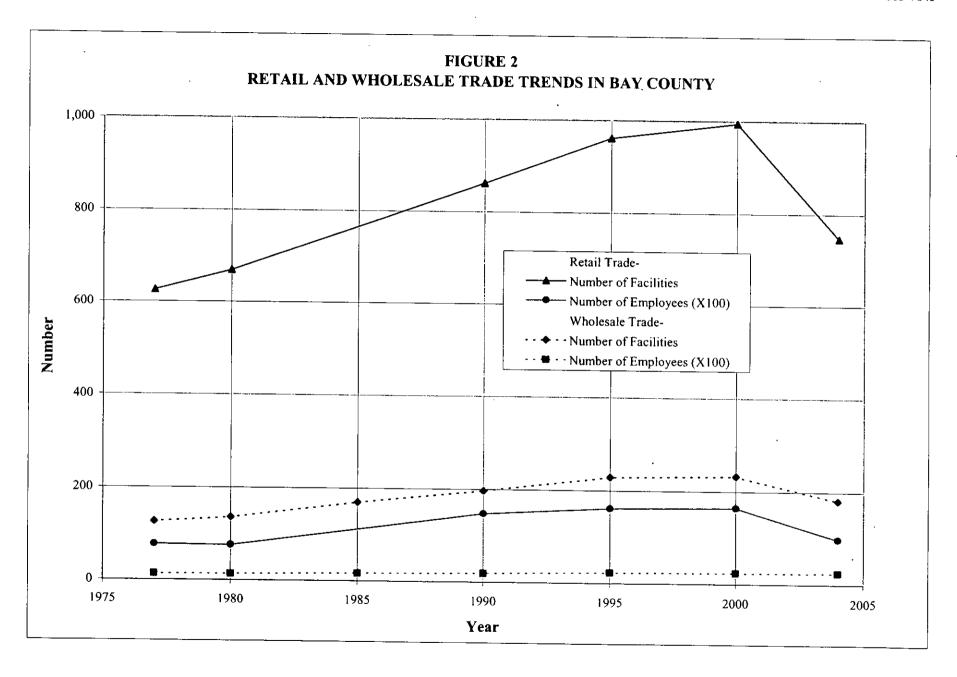
Ozone Concentrations

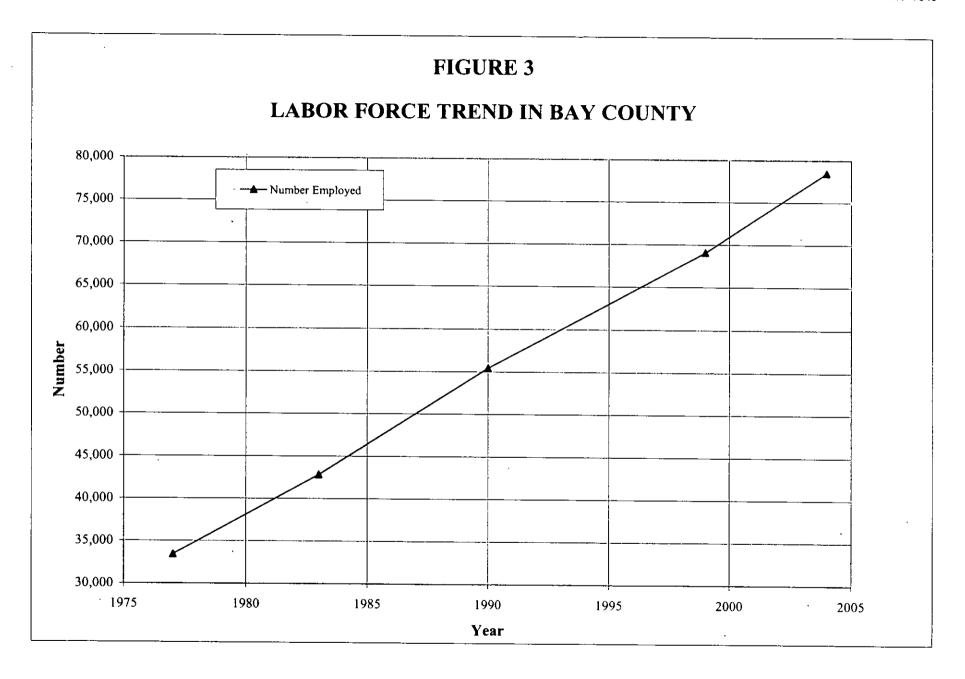
The trends in the 1-hour average O₃ concentrations since 1977 are presented in Figure 15. The 8-hour average O₃ concentrations are presented in Figure 16. As shown in these figures, the measured O₃ concentrations have been below the AAQS.

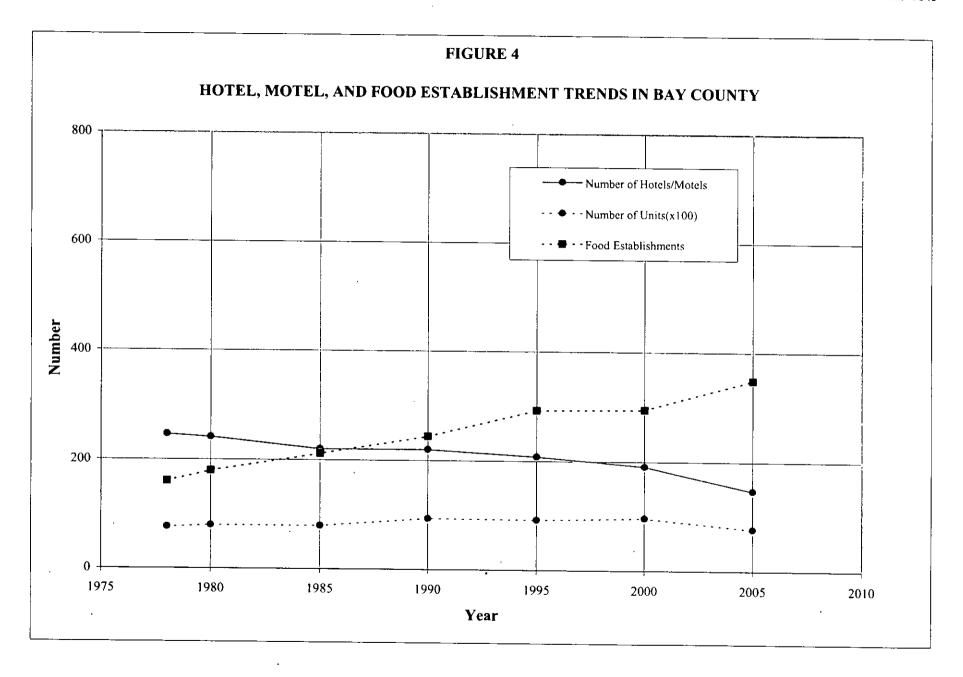
Air Quality Associated with the Mill Modification

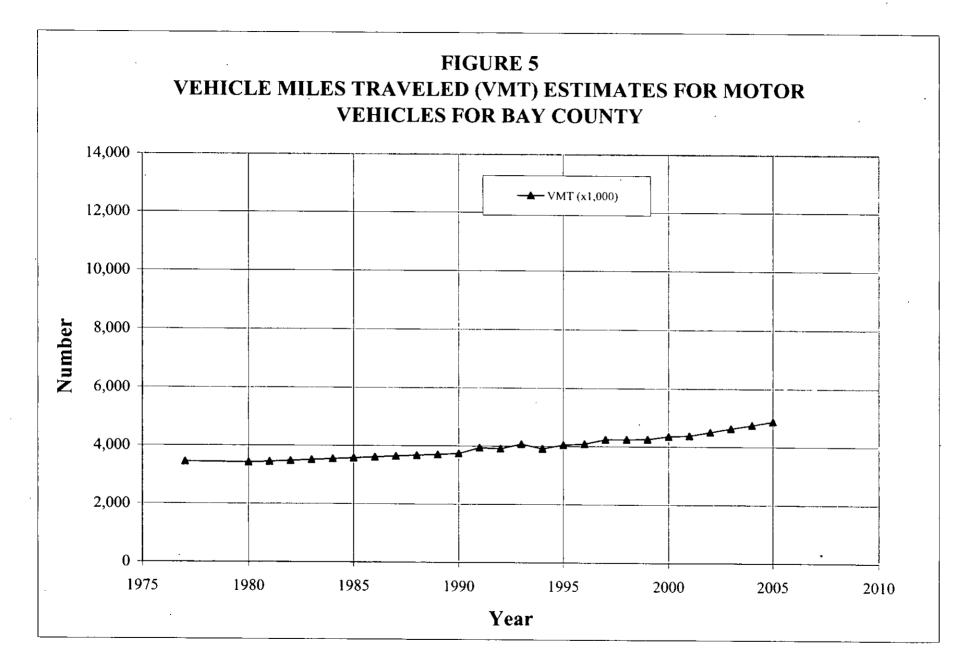
The air quality data measured in the region of the SSCE Mill indicate that the maximum air quality concentrations are well below and comply with the AAQS. Also, based on the trends of these maximum concentrations, the air quality has generally improved in the region since the baseline date of August 7, 1977. Because the maximum concentrations for the Mill are predicted to be below the AAQS, the air quality concentrations in the region are expected to remain below and comply with the AAQS after the modification occurs.

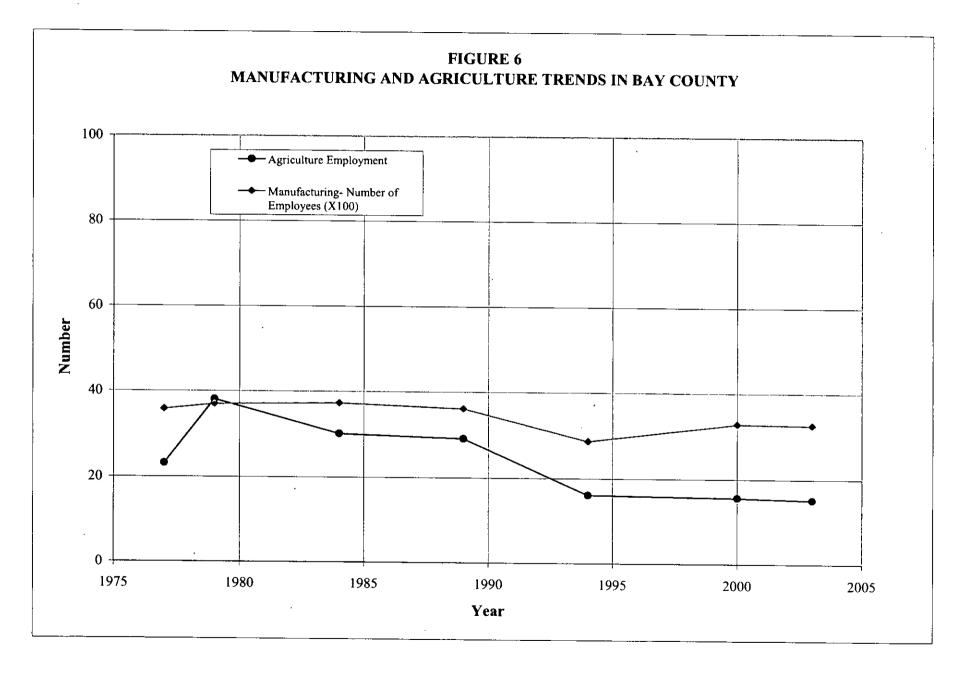




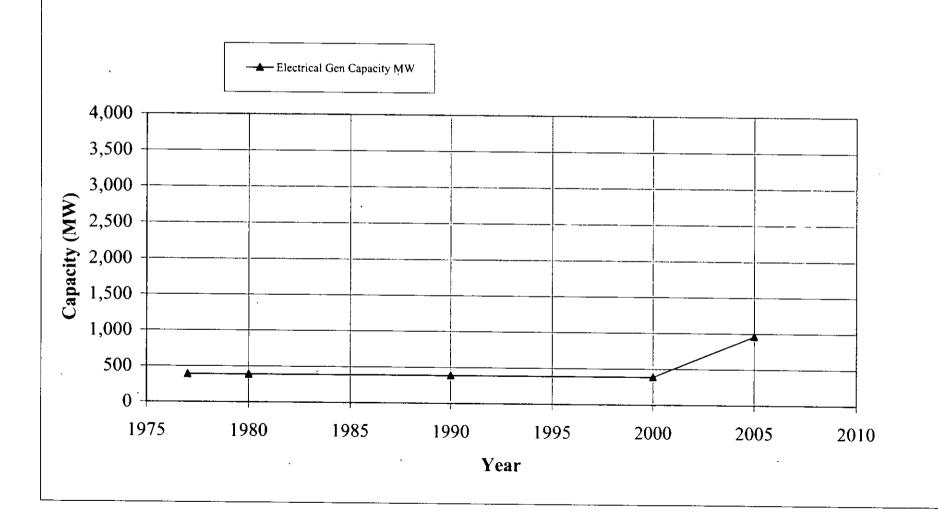


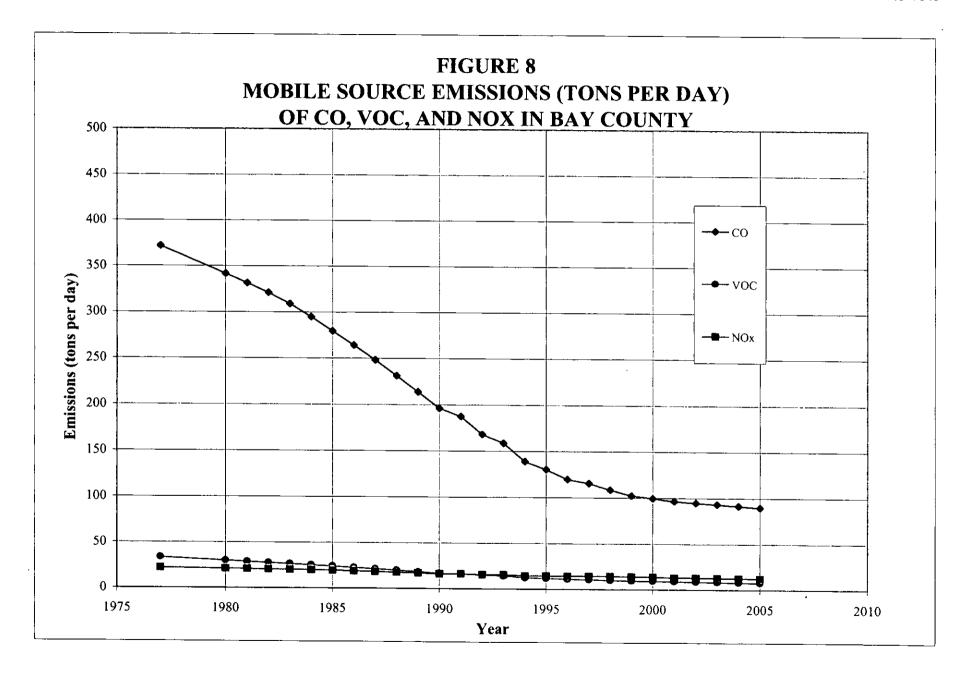


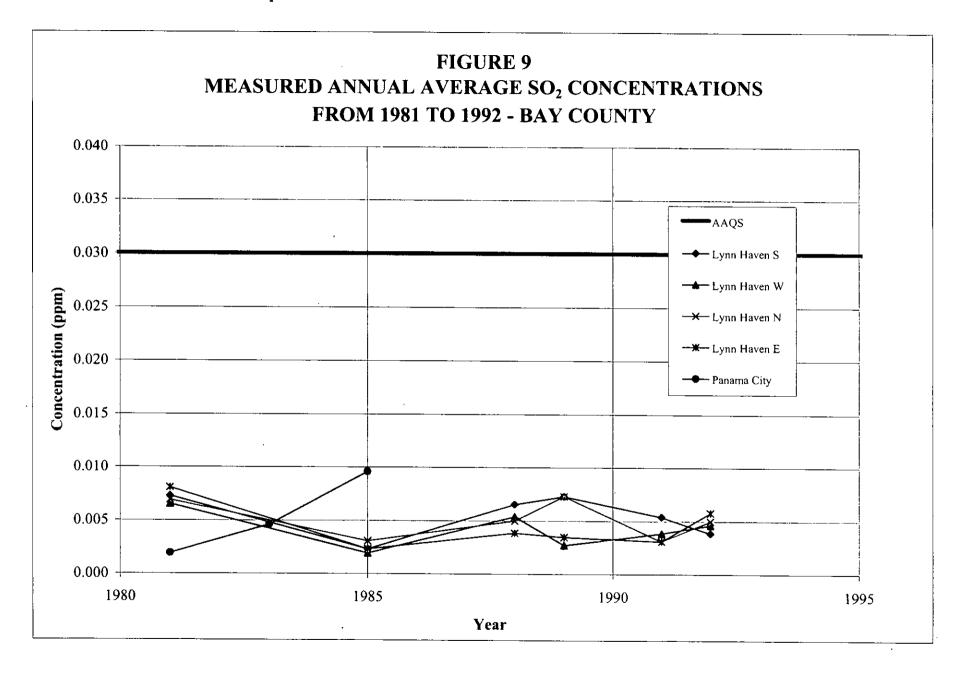


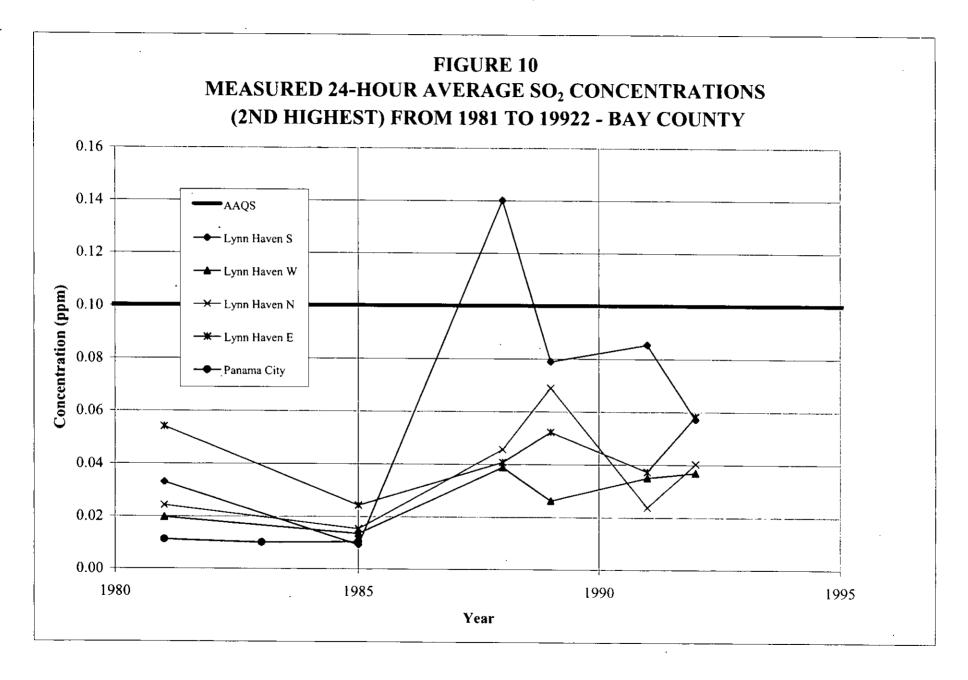


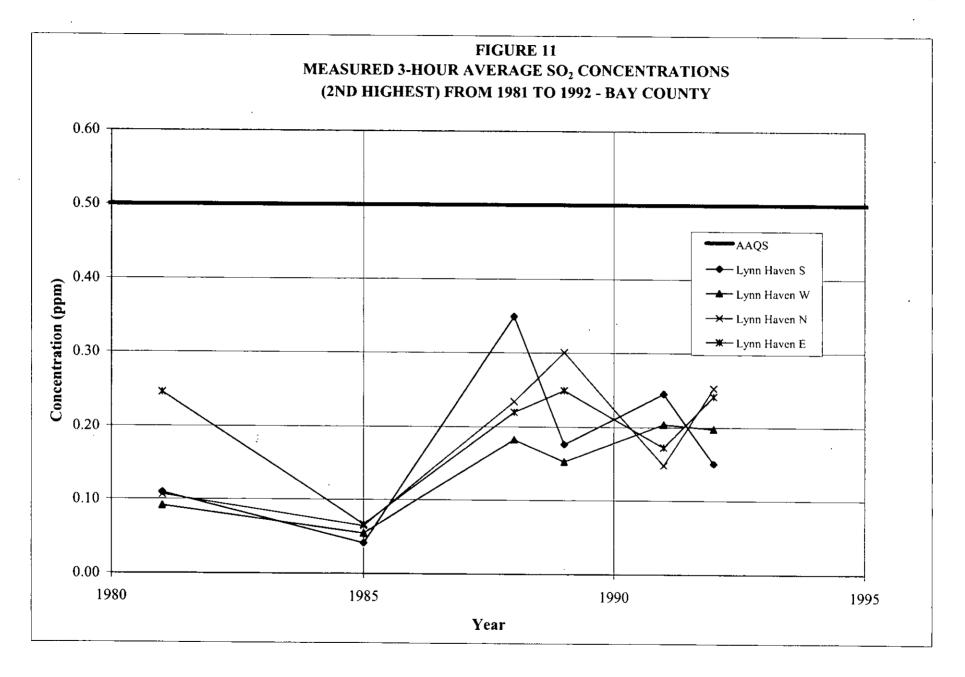


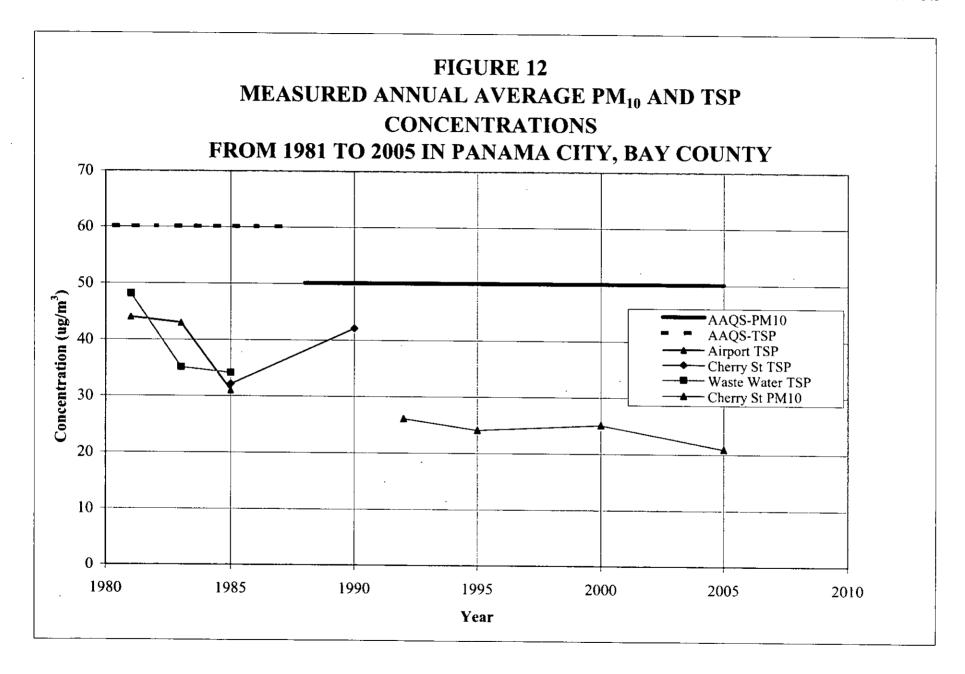


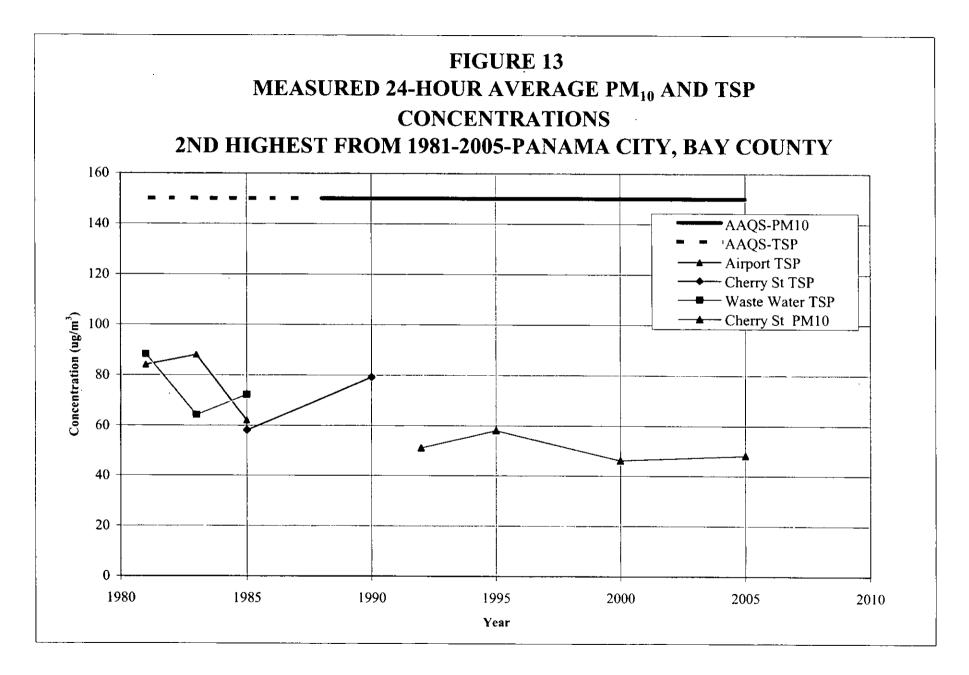


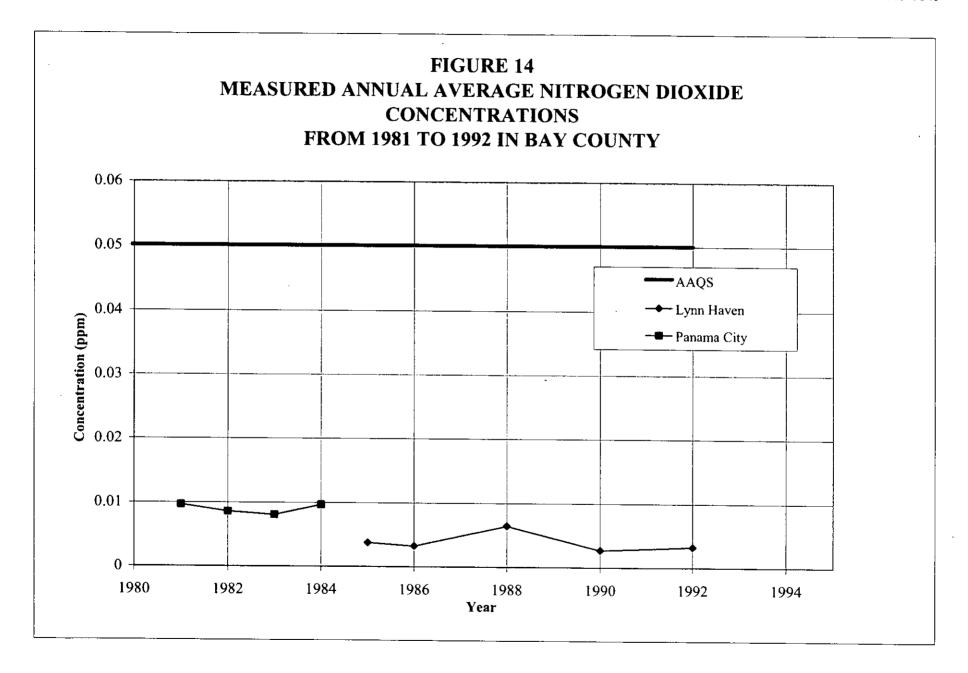


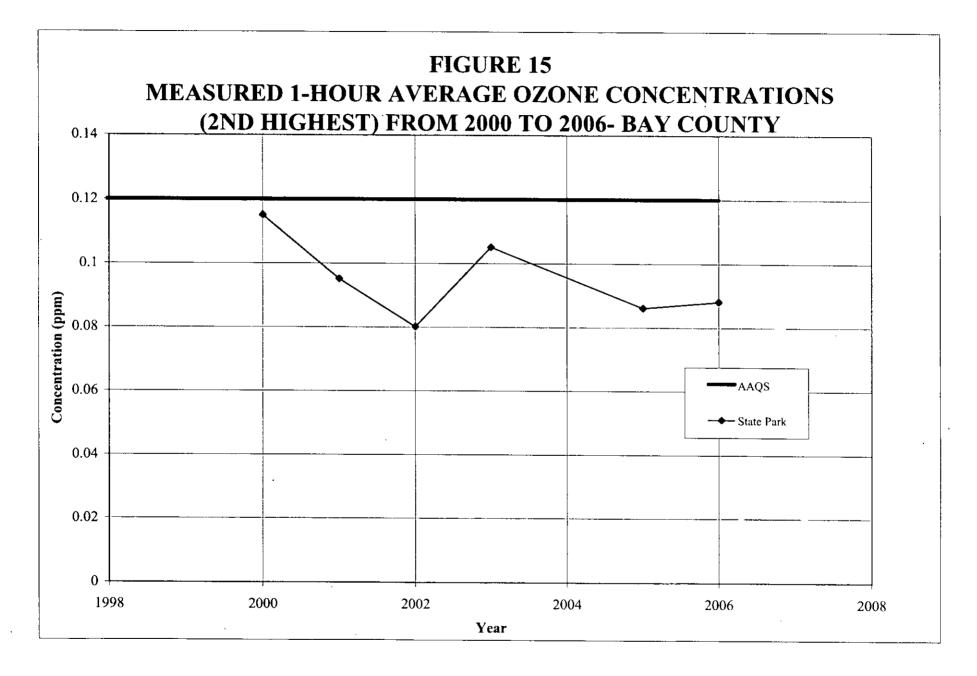


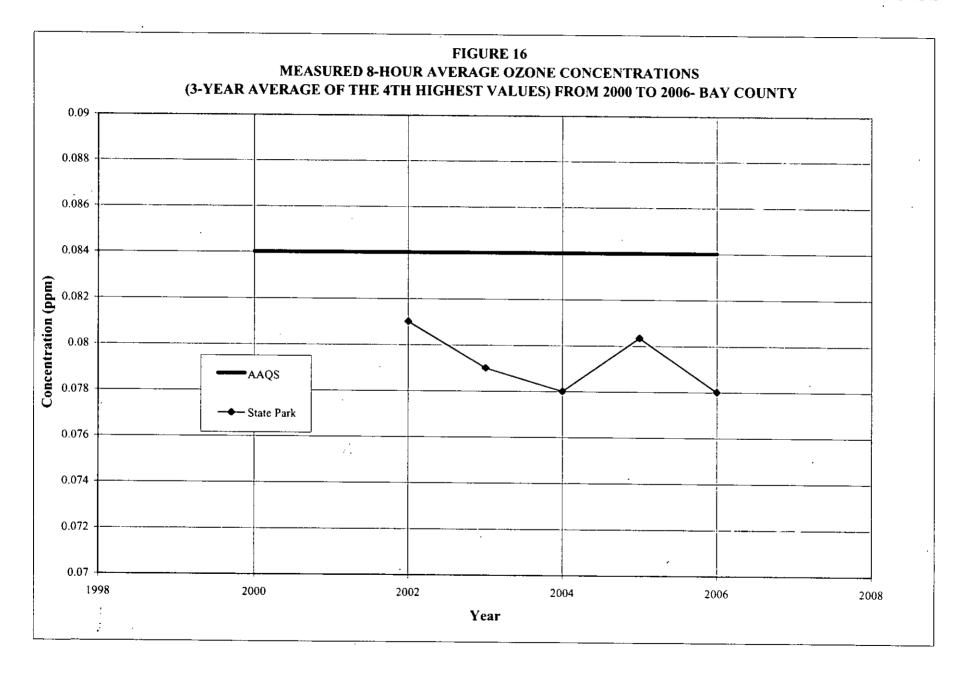












ATTACHMENT D

AMBIENT IMPACT ANALYSIS FOR OZONE

AMBIENT MONITORING ANALYSIS FOR OZONE

INTRODUCTION

In accordance with requirements of Title 40 of the Code of Federal Regulations (CFR), Subpart 52.21(m) and Rule 62-212.400(5)(f), Florida Administrative Code (F.A.C.), any application for a Prevention of Significant Deterioration (PSD) permit must contain an analysis of continuous ambient air quality data in the area affected by the proposed major stationary facility or major modification. For a new major facility, the affected pollutants are those that the facility potentially would emit in significant amounts. For a major modification, the pollutants are those for which the net emissions increase exceeds the significant emission rate.

Ambient air monitoring for a period of up to 1 year is generally appropriate to satisfy the PSD monitoring requirements. A minimum of 4 months of data is required. Existing data from the vicinity of the proposed source may be used if the data meet certain quality assurance requirements; otherwise, additional data may need to be gathered. Guidance in designing a PSD monitoring network is provided in U.S. Environmental Protection Agency (EPA) Ambient Monitoring Guidelines for Prevention of Significant Deterioration (EPA, 1987).

An exemption from the preconstruction ambient monitoring requirements is also available if certain criteria are met. If the predicted increase in ambient concentrations due to the proposed modification is less than the specified *de minimis* concentration for a particulate pollutant, the modification can be exempted from the preconstruction air monitoring requirements for that pollutant.

A preconstruction air monitoring analysis is required for the Smurfit Stone Container Enterprises (SSCE) Panama City Mill Lime Kiln petcoke project for ozone, since the increase in nitrogen oxides (NO_x) emissions due to the project is greater than 100 tons per year (TPY). This analysis is presented in the following section.

AMBIENT OZONE CONCENTRATIONS

The PSD ambient monitoring guidelines allow the use of existing data to satisfy preconstruction review requirements. Presented in Table 1 is a summary of existing continuous ambient ozone data for the ozone monitor located in the vicinity of the Panama City facility. Data are presented for the last 3 years of record, 2004 to 2006. As shown, one ozone monitor was operational in the

vicinity of Panama City during this period. The nearest ozone monitoring station was located in Panama City Beach.

The ozone monitor shows that ambient ozone concentrations were below the ambient air quality standards of: 0.12 parts per million (ppm) [235 micrograms per cubic meter (mg/m³)], maximum 1-hour average allowed to be exceeded on average one day per year; and 0.08 ppm (157 ug/m³), average annual fourth highest 8-hour average concentration over a 3-year period. The monitor in Panama City Beach is considered to be representative of the SSCE mill site due to the proximity of the monitor to the mill.

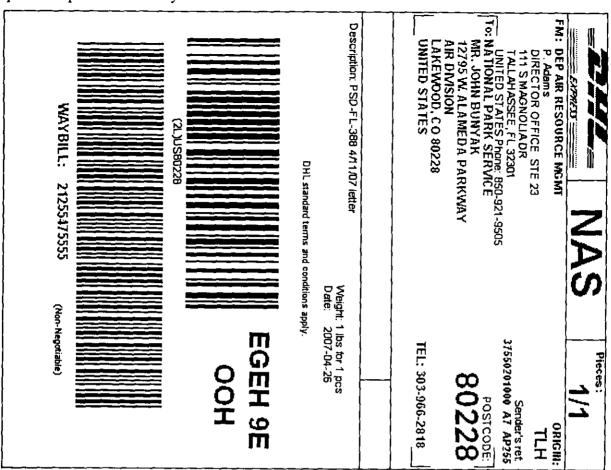
TABLE 1 SUMMARY OF AMBIENT OZONE DATA COLLECTED NEAR THE SSCE PANAMA CITY MILL

Pollutant	City	Site ID No.	Location	Year	Valid Days Measured	Сопсел	aximum tration- Average μg/m ³	Concen	ighest tration- Average μg/m ³
Ozone (O ₃)	Panama City	12-005-006	5401 State Park Lane	2006 2005 2004	243 229 236	0.088 0.086 0.091	173 169 179	0.077 0.078 0.081	151 153 159

Note: $\mu g/m^3$ = micrograms per cubic meter ppm = parts per million

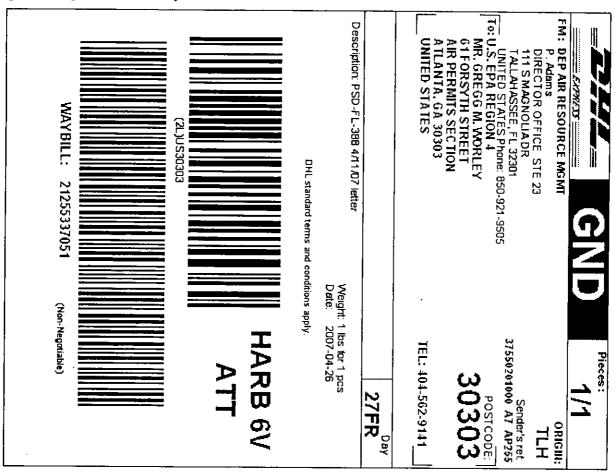
NA= not applicable

Source: FDEP Quick Look Reports, 2003, and 2004 (based on EPA's Air Quality System).



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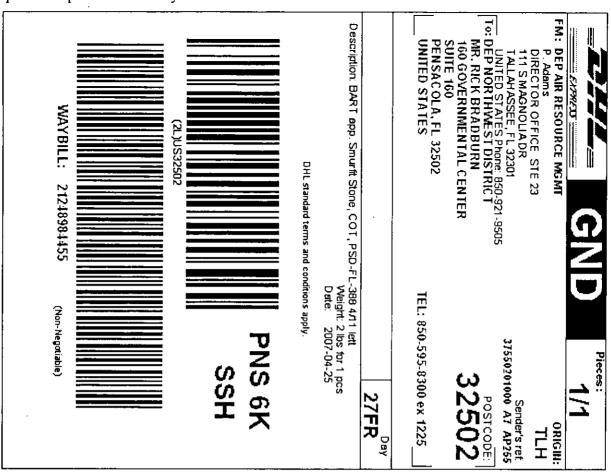




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