

US EPA ARCHIVE DOCUMENT



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

December 6, 2007

Mr. Thomas H. Diggs
Associate Division Director for Air Programs
USEPA Region 6-PDL
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

RE: Shreveport/Bossier City Final EAC Milestone (Shreveport area)

Dear Mr. Diggs:

In accordance with the Early Action Compact (EAC) protocol and your letter dated November 16, 2007, the Louisiana Department of Environmental Quality hereby certifies that all specific EAC applicable control measures for the Shreveport area have been fully implemented as planned and will remain in place through December 2007.

If you have any questions please do not hesitate to contact me at 225-219-3578.

Sincerely,

James Orgeron
Environmental Scientist Manager
Plan Development Section

c: Teri Lanoue;
Wes Wyche, City of Shreveport;
Vivian Aucoin;
Carrie Paige

ENVIRONMENTAL ASSESSMENT

: PO BOX 4314, BATON ROUGE, LA 70821-4314

P:225-219-3236 F:225-219-3239

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DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

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MIKE D. McDANIEL, Ph.D.

SECRETARY

December 7, 2007

Ms. Maria Martinez
Air Quality Analysis Section Chief
USEPA Region 6-6PDQ
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Dear Ms. Martinez:

In accordance with the Early Action Compact (EAC) protocol, this letter and the corresponding reports are submitted as certification that the ambient monitoring data for the 2007 Shreveport/Bossier City EAC area ozone season is complete and accurate to the best of our knowledge and shows attainment with the 8-hour ozone standard. This data has been entered into the Air Quality System (AQS) and has been quality assured. We are submitting with this letter the reports associated with this data, the Quick Look Criteria Parameters Report (AMP450) and P/A Quality Indicator Summary (AMP255) for the ozone data.

We have also reviewed the 2005 and 2006 ozone season monitoring data and certify that this data has been quality assured and shows attainment with the 8-hour ozone standard.

If you have any questions please do not hesitate to contact me at 225-219-3498.

Sincerely,

Surasak Supatanasinkasem
Engineer Manager
Air Analysis Section
Louisiana Department of Environmental Quality
Post Office Box 4314
Baton Rouge, LA 70821-4314

Enclosures: AMP 450 (Ozone) & AMP 255(Ozone)

c: Ms. Teri Lanoue; Mr. James Orgeron; Mr. Wes Wyche, City of Shreveport;
Ms. Carrie Paige, EPA: 6PD-L; Ms. Pamela Phillips, EPA: 6PD-Q;
Mr. David Lutz, EPA: D304-06

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UNITES STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: TCG

QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 483746

Report Code: AMP450

Nov. 21, 2007

GEOGRAPHIC SELECTIONS															
Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	22	017	0001												
	22	015	0008												
	22	017	0008												

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		W

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	1	PARAMETER_CODE
MERGE PDF FILES	YES	2	STATE_CODE
		3	COUNTY_CODE
		4	SITE_ID
		5	POC
		6	DATES
		7	EDT_ID

GLOBAL DATES	
Start Date	End Date
2005	2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 21, 2007

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

Note: The ● indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 21, 2007

Ozone (44201)

Louisiana

Parts per million (007)

8-HOUR

SITE ID	P O C	PQAO	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID DAYS	NUM DAYS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	DAY MAX>/=	CERT	EDT
									MEAS	REQ	8-HR	8-HR	8-HR	8-HR	0.085		
22-015-0008	2	1001	Shreveport	Bossier	Shreveport Municipal Airport	2005	087	97	237	245	.090	.085	.085	.082	3	Y	0
22-015-0008	2	1001	Shreveport	Bossier	Shreveport Municipal Airport	2006	087	94	231	245	.089	.087	.083	.082	2	Y	0
22-015-0008	2	1001	Shreveport	Bossier	Shreveport Municipal Airport	2007	087	83	204	245	.087	.077	.076	.074	1		0
22-017-0001	2	1001	Not in a city	Caddo	HAGOOD ROAD	2005	087	96	234	245	.087	.085	.083	.082	2	Y	0
22-017-0001	2	1001	Not in a city	Caddo	HAGOOD ROAD	2006	087	99	243	245	.089	.088	.087	.085	4	Y	0
22-017-0001	2	1001	Not in a city	Caddo	HAGOOD ROAD	2007	087	81	199	245	.091	.078	.073	.072	1		0

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 21, 2007

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
44201	087	INSTRUMENTAL	ULTRA VIOLET ABSORPTION

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 21, 2007

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
1001	State Of Louisiana

Note: The * indicates that the mean does
not satisfy summary criteria.

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: TCG

P/A QUALITY INDICATOR SUMMARY

Report Request ID: 487120

Report Code: AMP255

Dec. 5, 2007

GEOGRAPHIC SELECTIONS															
Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	EPA Region	Method	Duration	Begin Date	End Date
	22	017													
	22	015													

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		

SELECTED OPTIONS		SORT ORDER	
Option Type	Option Value	Order	Column
Quality Indicator Summary Types	Completeness	1	PARAMETER_CODE
Quality Indicator Summary Types	Precision and Bias	2	EPA_REGION
Quality Indicator Summary Types	Accuracy (gaseous pollutants only)	3	STATE_CODE
Quality Indicator Summary Types	Collocation (particle pollutants only)	4	AGENCY_CODE
Quality Indicator Summary Types		5	COUNTY_CODE
Quality Indicator Summary Types		6	SITE_ID
Quality Indicator Summary Types		7	POC

GLOBAL DATES	
Start Date	End Date
2005 01 01 Q1	2007 09 30 Q3

Table Y. PQAQ Accuracy Summary for O3 NSP Sites, 2005:Q1-2007:Q3.

Region	State	PQAQ	I	II	III	IV		
6	LA	1001	(-4.6	+7.3)	(-3.8	+2.6)	(-4.1	+1.8)

Table U. Single Point Precision and Bias Estimates for O3 NSP Sites, 2005:Q1-2007:Q3.

Region	State	PQAO	Site	CFR Lower Limit	CFR Upper Limit	Bias UB	CV UB
6	LA	1001	220150008	NA	NA	2.68	3.55
6	LA	1001	220170001	NA	NA	-3.56	3.78
6	LA	1001	All - NSP	-7.41	5.17	-2.91	3.5

Shreveport-Bossier City Metropolitan Statistical Area

Early Action Compact Progress Report

December 31, 2007

Prepared for
U.S. Environmental Protection Agency
Region 6
Dallas, Texas

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1. Introduction

The U.S. Environmental Protection Agency (EPA) requires signatories of Early Action Compacts (EAC) to prepare a progress report every six months that describes the progress made to date against the EAC milestones. This progress report will summarize activities related to the Shreveport – Bossier City Metropolitan Statistical Area’s EAC during the period from July 1, 2007 through December 31, 2007.

2. Progress Toward Completion of Control Measure Implementation

All EAC milestones have been fully implemented as planned. Attached is a copy of a letter from James Orgeron, Environmental Scientist Manager, Plan Development Section, Louisiana Department of Environmental Quality, certifying that all specific EAC applicable control measures for the Shreveport area have been fully implemented as planned and will remain in place through December 2007.

3. Air Quality Improvements

As shown in the attached letter from Surasak Supatanasinkasem, Engineer Manager, Air Analysis Section, Louisiana Department of Environmental

Quality, the DEQ has certified that ambient monitoring data through 2007 demonstrates attainment with the 8 hour ozone standard.

4. Emissions Reductions

Preliminary information continues to substantiate that significant emissions reductions are being achieved as a result of the implemented control measures. Initial reports received from Johnson Controls, Inc. indicate that energy savings of approximately 20,951,279 kWh of electrical energy and 203,703 ccf of natural gas have been realized during the period from mid-2004 through September of 2007 resulting from the installation of energy conserving equipment in City of Shreveport buildings. According to the estimates provided to the City by JCI, emissions reductions attributable to these energy savings are in the vicinity of 40 million pounds of pollutants (largely consisting of greenhouse gas emissions such as CO₂), including approximately 70,000 pounds of NO_x.

As stated in the June 30, 2007 report, NO_x and VOC reductions resulting from the Centerpoint Energy plant modification and VOC reductions resulting from the GM plant modification remain ongoing. As previously reported, the Centerpoint Energy facility in Bossier Parish (historically one of the highest stationary source emitters of NO_x in Caddo and Bossier Parishes) was permitted to emit 1034.26 tons per year of NO_x and 89.41 tons per year of VOC

in 2003, prior to implementation of the plant modification. By 2005, the permit for the facility had been modified to limit NO_x emissions to 67.17 tons per year and VOC emissions to 20.42 tons per year. Actual emissions reported for the facility for 2005 were 50.79 tons of NO_x and 17.89 tons VOC, and for 2006, actual emissions reported were 46.12 tons of NO_x and 17.71 tons of VOC.¹

According to GM plant representatives, VOC emissions reductions of over 250 TPY (short of the goal of 500 TPY) were achieved in 2005 as a result of the GM plant modification. An additional 17.8% reduction in VOC emissions (representing 134 tons) was documented for 2006, which moves this facility closer to (although still somewhat less than) the initial stated goal of a 500 TPY emissions reduction goal.

5. Additional Updates

Stakeholders continue to be kept abreast of any pertinent issues during the period via as needed, and no meetings were necessary during the period. No updates or revisions to modeling, technical analyses, or planning activities occurred during the period.

¹ Centerpoint has filed for a new air permit to expand the facility, which will result in an increase in NO_x and VOC emissions beginning during 2007. NO_x permit limits are expected to increase to 156.62 tpy and VOC permit limits are expected to increase to 44.74 tpy. Despite the increase, these new proposed limits remain substantially below the pre-EAC permit limits.

The City of Shreveport is the government agency responsible for implementing the following control measures: landfill gas recovery project; energy conservation program; intelligent transportation systems implementation; and obtaining of the hybrid bus. The Louisiana Department of Environmental Quality has oversight, via permit, of emissions from the Centerpoint Energy natural gas processing plant and the General Motors plant.