



CITY OF SHREVEPORT

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October 31, 2014

Ozone Advance
c/o/ Laura Bunte
U. S. Environmental Protection Agency
Office of Air Quality Planning and Standards, C304-01
Research Triangle Park, NC 27711

Dear Ms. Bunte:

This is our first annual update on the status of the Shreveport-Bossier City Metropolitan Statistical Area's Ozone Advance program.

As the attached chart shows, the ozone design value trend for our MSA continues to decline. The preliminary 2014 design value, as of September 30, 2014, was 68 ppb, which is the lowest in at least 34 years. No ozone action days were declared for the area by the Louisiana Department of Environmental Quality during the entire summer of 2014.

The slightly cooler than average 2014 summer was certainly one of the factors contributing to the good numbers—for the first time in recent memory, the 100 degree mark was not reached all summer. However, it was still hot, sunny and very dry at times. The average high temperature in August was 93, with only around a half inch of rain recorded during the month. September was also quite hot and dry, with only a little over an inch of rain recorded. Despite conditions conducive to ozone formation particularly during the latter part of the summer, the 8 hour average at each of our two local monitors had only reached 70 or above on one occasion as of the end of September.

Statewide modeling was performed in 2013 by Environ International Corp., under contract with the Louisiana Department of Environmental Quality. The modeling projected a reduction in ozone of around 8 ppb between the base year used for modeling (2010) and projected future year (2017) for the Bossier monitor, and a reduction of around 3.5 ppb between base year and projected future year for the Caddo monitor. Initial sensitivity runs projecting an additional 30% across-the-board anthropogenic NO_x reduction throughout Louisiana yielded an additional 4-5 ppb ozone reduction for the Bossier monitor and 1-2 ppb reduction for the Caddo monitor. The modeling yielded considerably lower levels of ozone reduction resulting from a projected 30% statewide anthropogenic VOC reduction, indicating that ozone in the area, and throughout most of the state, is more responsive to NO_x reduction than VOC reduction.

Also attached is an updated table listing the status of the various commitments made by local stakeholders at the outset of the ozone advance program. The table includes some new commitments made after the initial path forward letter was submitted.

If you have any questions or need additional information, please let us know.

Sincerely,

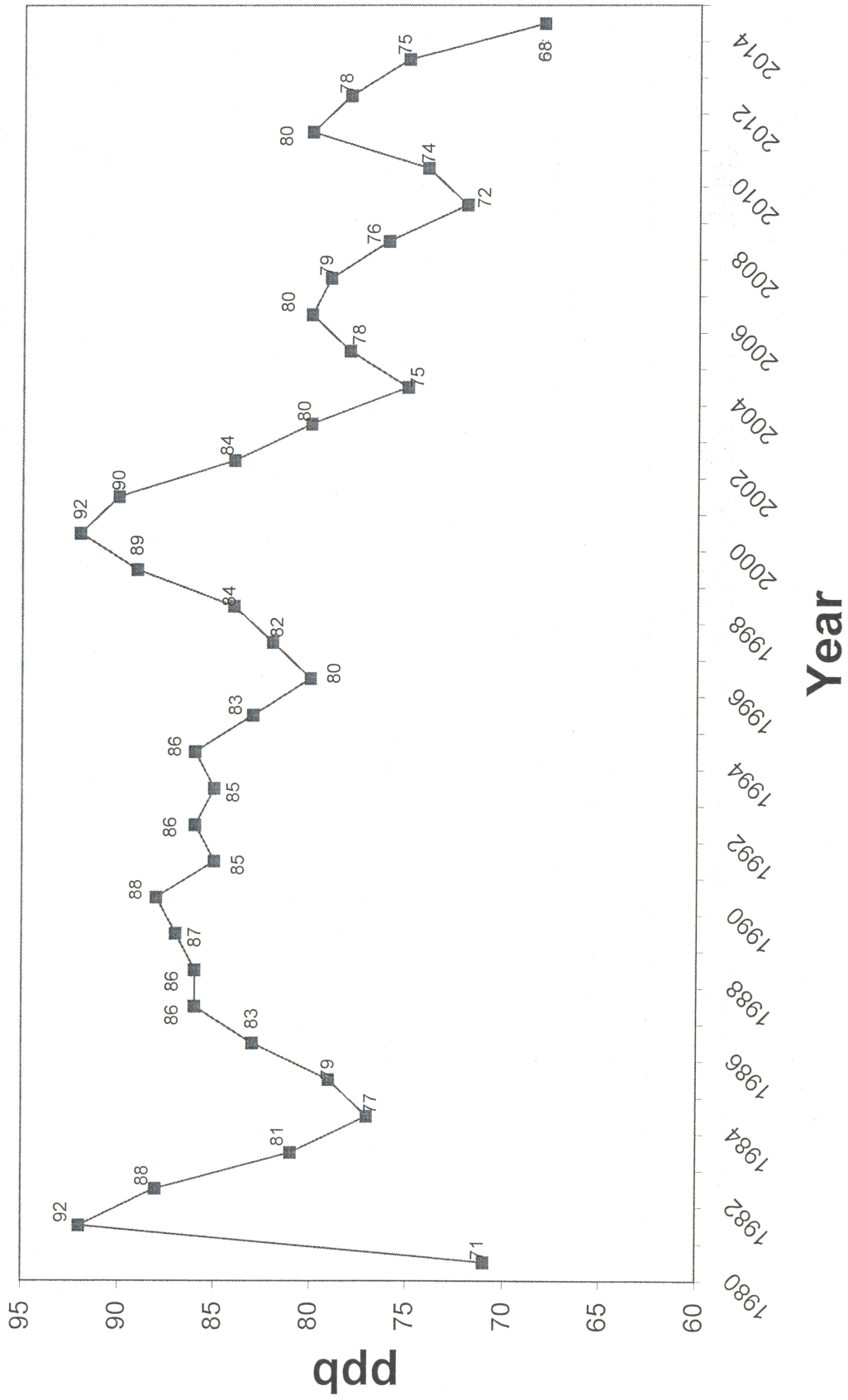


Wes Wyche
Environmental Services Manager

attachments

cc: Carrie Paige, EPA Region 6
Vivian Aucoin, Louisiana Department of Environmental Quality
Hon. Lorenz Walker, Mayor of Bossier City
Hon. Cedric B. Glover, Mayor of Shreveport
Woody Wilson, Parish Administrator, Caddo Parish Commission
Bill Altimus, Parish Administrator, Bossier Parish Police Jury
Steve Brown, Parish Administrator, DeSoto Parish Police Jury
Kent Rogers, Executive Director, Northwest Louisiana Council of Governments

Shreveport Area Ozone Design Values



Note: 2014 design value shown is preliminary, as of September 30, 2014.

RESPONSIBLE PARTY	ACTION	START DATE	COMPLETION DATE	October, 2014 update
City of Shreveport/Local Ozone Action Network	Reorganize/revitalize local ozone action network	Kickoff meeting held July, 2012	Ongoing—efforts continue to increase number of stakeholders and stakeholder participation	Continued to keep stakeholders updated on air quality matters via e-mails; continued efforts to recruit new stakeholders in various sectors including manufacturing, healthcare and economic development. New stakeholders added in 2014 include Bancorp South, Ternium USA, Shreveport Green, Green Home Advantage, Evangel High School.
City of Shreveport/Local Ozone Action Network	Media campaign	Press release issued March 19, 2013; issuance of survey Press conference held Earth Day 2013 TV appearances, Spring 2013	Ongoing, with heavy emphasis at outset of each ozone season	Made TV appearances at beginning of ozone season; updated stakeholders on status of local ozone situation and encouraged continued implementation of ozone action plans. Continued sponsoring “SEED talk” series, promoting energy efficiency programs in area City participated in SPORTRAN’s “Dump the Pump” Day described below
City of Shreveport	School Flag Program	Meet with school board curriculum coordinators August 2013 Meet with individual schools September & October 2013	Obtain commitments from at least 5 schools in Caddo Parish before end of year 2013 Obtain commitments from at least 5 schools in DeSoto and Bossier Parishes by ozone season 2014	Caddo Parish: Began program at Evangel High School; Working with Ridgewood Middle School and Summerfield and Summer Grove Elementary schools in effort to implement programs there Working with leaders in Bossier and DeSoto Parish school systems in effort to implement programs

Louisiana Dept. of Transportation and Development	Display ozone information on electronic traffic billboards before during ozone action days	Ozone season 2013	Ongoing during ozone seasons	Ongoing. No ozone action days declared in summer of 2014.
Barksdale Air Force Base	Conduct annual "Energy Awareness Month" drive, with booths set up at Barksdale Exchange	Annually each October	Ongoing	Ongoing
City of Shreveport	Update/Improve local Air Quality website	2013	Ongoing	Updated website, ensured all informational links are operational
City of Shreveport, Barksdale Air Force Base	Utilize internet and social media, including Facebook and Twitter, for outreach efforts	2013	Ongoing	Ongoing. Barksdale utilizing Defense Connect Online system to conduct and attend meetings, reducing vehicle travel.
City of Bossier City	Installation of two publicly accessible CNG fueling stations; replacement of old gasoline/diesel fleet vehicles with new CNG vehicles	Began 2011	Fueling infrastructure completed by 2011; as of summer 2013, 6 dump trucks, 1 sweeper, 45 SUVs and 30 pickups purchased; 19 SUVs under consideration for 2014	City's vehicle purchasing/replacement policy now calls for only CNG dedicated or bifuel to be purchased, except in special circumstances. 33 bifuel SUVs are currently on order and expected by end of year.
SPORTRAN	Installation of fast-fill CNG fueling facility; Replacement of 14 old diesel buses and 3 para-transit vans with CNG vehicles	Began 2010	Completed 2011	Completed
City of Shreveport	Installation of public accessible CNG fueling facility; replacement of 19 old diesel garbage trucks with diesel trucks	Initial buses acquired 2011	Station complete and open to public spring 2013; buses purchased and in service 2012	System expanded to be able to accept Fuelman fleet cards, summer 2014

Time-It Lube	Installation of publicly accessible CNG fueling facility			Opened to public mid-2012	Completed
Relay Station	Installation of publicly accessible CNG fueling facility			Opened to public Spring 2012	Completed
Chevron Shop-A-Lot	Installation of publicly accessible CNG fueling facility			Opened to public Spring 2012	Completed
Numerous local fleets (See Appendix H)	Conversion of fleets to CNG	Ongoing			Ongoing
City of Shreveport	Funding of full-time Energy Efficiency Program Manager position	February, 2013		Ongoing	Ongoing. Will continue oversight of audit and loan programs detailed below, school flag program, meetings/speaking engagements promoting energy efficiency initiatives, efforts to secure additional grant funding, public awareness/education programs
City of Shreveport-AEP-SWEPCO	Residential & Small Commercial Energy Audit program	First audits funded by partnership January 2013 (program initially funded with DOE grant seed money in 2010)		Ongoing	Audit program continues, funded by partnership between city and AEP-SWEPCO
Bancorp South	Residential Energy Efficiency Retrofit Loan Program	2011		Ongoing	Six loans made to date; program to be reevaluated, with possibility of funds being shifted to other energy efficiency projects. Over \$300,000 in dedicated funds remain in the program.

Ternium USA	Replacement of VOC destruct equipment with more effective/efficient equipment	Purchase of unit, summer 2013	Installation expected by fall/winter 2013	Completed
Kansas City Southern Railroad	Installation of automatic engine start-stop system on switching locomotives; approximately 20 – 25 switch engines operate at the Shreveport yard	2011	Completed mid-2012	Completed. KCS currently undergoing system-wide sustainability study, including emissions & energy management, with report due by 1/15; KCS also formulating plan for satisfying additional horsepower needs by purchasing new cleaner burning “Tier IV” locomotives system-wide—specific TBD.
CLECO/AEP-SWEPCO Dolet Hills Power Plant	Operate new “selective non-catalytic reduction system” during ozone action days	Ozone season 2013	ongoing	Commitment continues. No ozone action days declared in summer of 2014.
Chesapeake Energy	Implementing various operational controls which reduce compression and other equipment operation time		Implemented as of 2012	Ongoing
SPORTRAN	Offering discounted monthly bus passes to employees/students of Ozone Action Network participants	Ozone season 2013	Ongoing during future ozone seasons	Program continues. In addition, SPORTRAN sponsored a “Dump the Pump” Day on June 19, 2014, in effort to publicize and promote public transportation.
SPORTRAN, City of Shreveport Department of Water and Sewerage	Implementation of fleet anti-idling policies	Summer 2013	Ongoing	Ongoing
Barksdale Air Force Base	Replacement of boilers with energy efficient units in 5 buildings		Completed 2012	Completed
Barksdale Air Force Base	Installation of more energy efficient lighting in 38 buildings		Completed 2012	Completed

Barksdale Air Force Base	Sustainable Infrastructure Audit	<p>Projects identified in audit:</p> <ul style="list-style-type: none"> - Replace existing units, chillers, condensers or motors in 22 buildings with energy efficient equipment - Replace boilers in 23 buildings with energy efficient units 	<p>Audit completed in 2012</p> <p>Projects to be completed by September, 2015</p>	<p>In past year, replaced 8 chillers and 1 boiler, affecting 200,000 square feet</p> <p>Replaced exterior and day room lighting in 4 dormitories. Also utilized photo-sensors/occupancy sensors in day rooms. Energy savings estimated at 800 MBTU/year. Completed in 2014.</p> <p>Installed radiant heaters at entry control gates to replace diesel powered AGE heaters</p>
Barksdale Air Force Base	Execute grounds maintenance contract specifying curtailed/restricted equipment use in order to lower emissions	Contract signed August, 2013		Ongoing
Caddo Parish, City of Shreveport	Incorporate energy efficiency measures and incentives into new Unified Development Code	Consultant retained to develop code, 2013	2015	Ongoing. Initial draft code includes new provisions on energy efficiency initiatives such as collective alternative energy systems, commercial and private electric vehicle charging stations, solar panels and solar farms, wind turbines/wind energy systems, and bicycle lane standards
City of Shreveport/Ozone Action Network	Review/evaluate path forward actions and revise as needed		At least annually	Ongoing

New commitments

Ivan Smith Furniture	Construction of new CNG fueling facility which accommodates heavy duty fleet vehicles	2014	2014	Completed summer 2014	Online and being utilized
City of Shreveport	Extend landfill gas collection contract with Renovar; partner on long-term project to convert gas to pipeline quality and market to local gas utility	2014	2014	2018	Gas collection contract extended/renewed September, 2014; discussions ongoing between contractor and University of California re pipeline-quality gas improvements
Barksdale Air Force Base	Vehicle emissions testing	2014	2014	ongoing	Began emissions testing on all on-road gasoline powered fleet vehicles; repairs are made if problems are noted Began opacity testing on all on-road fleet diesel vehicles; repairs are made if problems are noted
Barksdale Air Force Base	Reduced mowing frequency	2014	2014	ongoing	Implemented reduced mowing protocols affecting roughly 1000 acres of land
City of Bossier City	LED lighting replacement project, Municipal Complex	2013	2013	Completed 2014	Project completed