



CITY OF SHREVEPORT

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December 8, 2015

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 second annual update on the status of the Shreveport-Bossier City Metropolitan Statistical Area's Ozone Advance program.

The attached chart shows that the ozone design value trend for our MSA continues to decline. The preliminary 2015 design value, as of September 30, 2015, was 66 ppb, which is the lowest in at least 35 years and meets the EPA's new 70 ppb standard. As was the case with the previous year, no ozone action days were declared for the area by the Louisiana Department of Environmental Quality during the entire summer of 2015.

The lower design value was achieved despite the fact that the summer of 2015 was hotter than average, and considerably hotter and drier than the 2014 summer. The months of April, May and June were relatively wet, but a prolonged period of drought, heat and sunny weather began in July and lasted until late October. No measurable rain was recorded at the National Weather Service office in Shreveport from July 6 through August 19, and during the period from August 26 through October 22, less than a tenth of an inch was recorded. The 100 degree mark was exceeded on 16 days in 2015 (with a daily high of 107 recorded in August), in comparison to 2014 when the temperature never reached 100. The average temperature in both July and August was over 96 degrees, and was over 93 in September.

In May, the City and LDEQ, along with our ozone action partners AEP-SWEPCO and the Greater Shreveport Chamber of Commerce, hosted an ozone briefing for the media, local stakeholders and other interested parties, for the purpose of educating attendees on EPA's proposal for tightening the ozone standard and to offer ideas and support for strengthening local efforts to reduce ozone-causing emissions. The briefing was well attended (including students from a local elementary school that has implemented EPA's school flag program) and was covered by local TV, radio and print media. (An excerpt from DEQ's monthly newsletter describing the event is attached.)

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, and listing some additional projects undertaken since that time. An updated list of our ozone action program participants is also attached.

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

Sincerely,

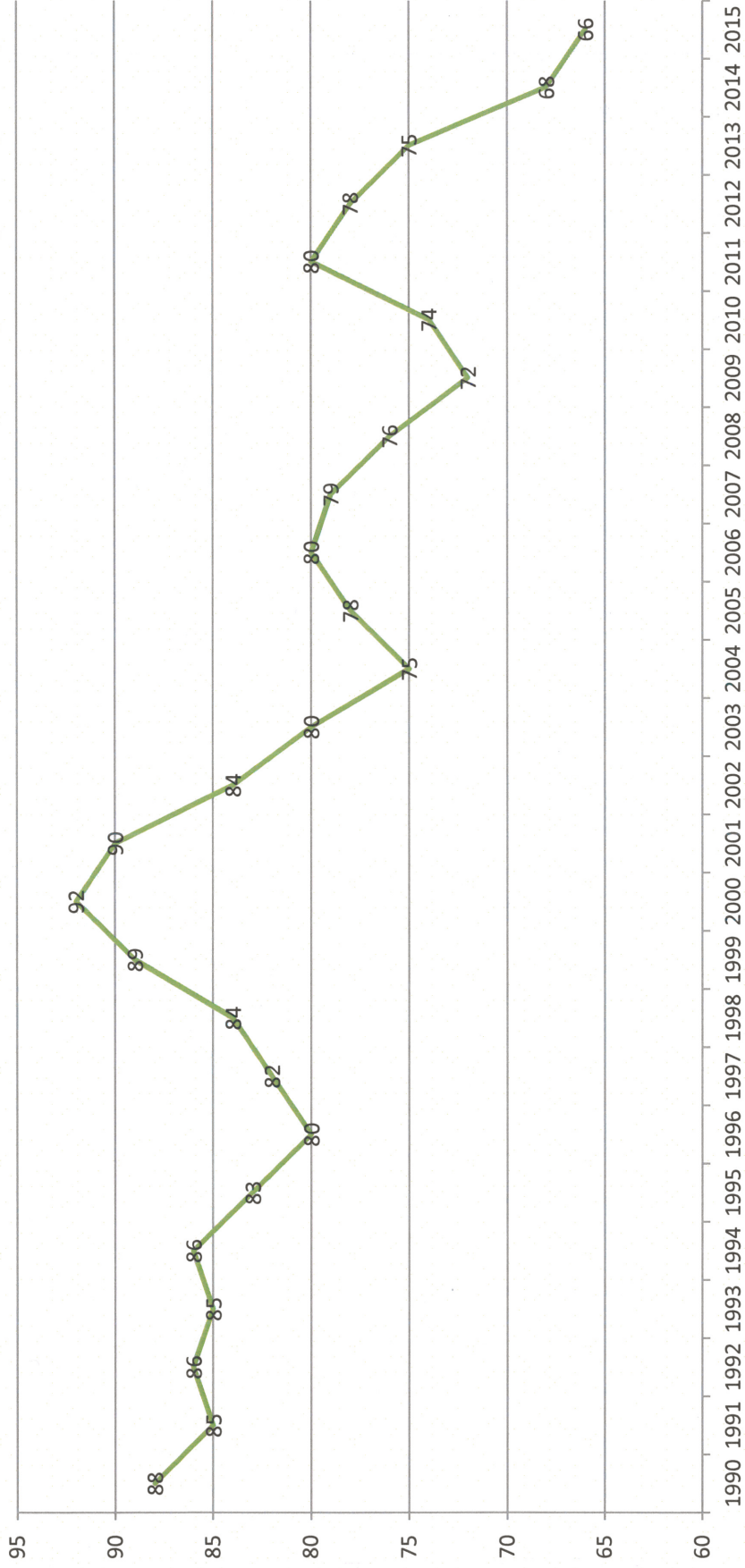


Wes Wyche
Environmental Services Manager

attachments

cc: Carrie Paige, EPA Region 6
Vivian Aucoin, Louisiana Department of Environmental Quality
Hon. Lorenz Walker, Mayor of Bossier City
Hon. Ollie P. Tyler, 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 (ppb)



Note: 2015 design value shown is preliminary, as of September 30, 2015.



DEQ and the city of Shreveport work to improve air quality

On a beautiful spring day in Shreveport, Vivian Aucoin, DEQ senior scientist staff, gave the Shreveport Advance group an update on the air quality, and in particular, ozone in the state. The meeting was held at the Shreveport Chamber of Commerce and Aucoin told the group that the Environmental Protection Agency will be announcing a new ozone standard in October 2015. This new standard could put the Shreveport area out of attainment, she said. She complimented Shreveport on the voluntary proactive effort the city has made to reduce ozone emissions.

"You guys were first," Aucoin said. "Little things can add up."

The Advance Program is a collaborative effort between EPA, states, tribes and local governments. The program encourages expeditious emission reductions in ozone attainment areas to help these areas continue to meet the National Ambient Air Quality Standards (NAAQS) for ground level ozone as well as particulate matter PM2.5. The program goals include:

1. Helping attainment areas reduce emissions in order to ensure continued health protection;
2. Assisting areas to be in a better position to remain in attainment
3. Efficiently directing resources toward actions to address ozone or PM2.5 problems quickly.

Another highlight of the meeting was the recognition of the Christian Leadership Class at Evangel Christian School in Shreveport. This group is participating in the EPA School Flags program.

The School Flag Program alerts schools to the local air quality forecast and helps them to take actions to protect students' health, especially those with asthma.

Each day the school raises a flag that corresponds with EPA's Air Quality Index (AQI): green, yellow, orange, red and purple.

The class, made up of seventh and eighth grade students, has taken responsibility for the program as a service to the school and to the community.

"As part of leadership class, we (teach them) to lead the way with community service and with this program, we can give back to the school and the surrounding area," said Stephanie Mason, leadership class teacher at Evangel.

The students had to complete all of their work and meet goals before they could attend the meeting to be recognized.



Vivian Aucoin, DEQ senior scientist staff, standing, explains ozone and its impact to students of the Evangel Christian Academy Christian Leadership Class.



Evangel Christian Academy, Christian Leadership Class students and their teacher, Stephanie Mason, attended the Advance Group meeting in Shreveport.

RESPONSIBLE PARTY	ACTION	START DATE	COMPLETION DATE	November, 2015 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.
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	Hosted ozone briefing in May 2015, for purpose of educating local stakeholders on EPA's plan to tighten the ozone standard 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: Completed first year of program at Evangel High School, including media event covered by local TV station. Efforts to add other schools to the program remain ongoing, but no additional commitments have been obtained as of yet.
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 2015.

Barksdale Air Force Base	Conduct annual "Energy Awareness Month" drive, with booths at Barksdale Exchange	Annually each October	Ongoing	Ongoing
City of Shreveport	Update/Improve local Air Quality website (www.shreveportla.gov/index.aspx?nid=254)	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.	City's vehicle purchasing/replacement policy continues to call for only CNG dedicated or bifuel to be purchased, except in special circumstances. At present time, city has over 200 fleet vehicles that are either bifuel or fully dedicated CNG vehicles (all heavy duty vehicles like dump and bucket trucks are dedicated)
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	Currently operating 19 CNG transit buses and 6 shuttle buses; plan to purchase 10 – 12 new buses in 2015
City of Shreveport	Installation of public accessible CNG fueling facility; replacement of 19 old diesel garbage trucks with diesel trucks	Initial refuse trucks acquired 2011	Station complete and open to public spring 2013; buses purchased and in service 2012	18 CNG refuse trucks remain in service. City not planning to expand CNG garbage truck fleet at this time.

Time-It Lube	Installation of publicly accessible CNG fueling facility		Opened to public mid-2012	Completed
Relay Station	Installation of public 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	Conversion of fleets to CNG	Ongoing		Ongoing. Among local companies converting substantial portions of their fleets to CNG in 2015 are UPS (62 vehicles, including tractors and local delivery trucks); Builders Supply (6 cement mixers and 3 tractors); and Lott Oil (5 tractors and 10 light duty vehicles)
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	City in process of evaluating other energy efficiency programs to benefit from the roughly \$350,000 that remains on deposit in support of the loan program. Demand for loans has decreased, so we are planning to move the funds into other energy-saving activities—plans are to implement energy efficient lighting and HVAC improvements in several City buildings; current working to identify best candidates
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.
CLECO/AEP-SWEPDO 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
SPORTAN	Offering discounted monthly bus passes to employees/students of Ozone Action Network participants	Ozone season 2013	Ongoing during future ozone seasons	Program continues. Another “Dump the Pump” Day took place in June, 2015, 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 Projects identified in audit: - Replace existing units, chillers, condensers or motors in 22 buildings with energy efficient equipment - Replace boilers in 23 buildings with energy efficient units		Audit completed in 2012 Projects planned to be completed by September, 2015	Projects remain ongoing but not yet completed. Approximately 80,000 square feet of building space was improved in 2015.
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

Additional commitments since initial path forward letter:

Ivan Smith Furniture	Construction of new CNG fueling facility which accommodates heavy duty fleet vehicles	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		Expected in 2018	As of 2015, project is in the design and permitting phase.
Barksdale Air Force Base	Vehicle emissions testing	2014		ongoing	Continued emissions testing on all on-road gasoline powered fleet vehicles; repairs are made if problems are noted Continued opacity testing on all on-road fleet diesel vehicles; repairs are made if problems are noted
Barksdale Air Force Base	Reduced mowing frequency	2014		ongoing	Implemented reduced mowing protocols affecting roughly 1000 acres of land; in 2015, further increased mowing efficiency (by 20%) through

City of Bossier City	LED lighting replacement project, Municipal Complex	2013	Completed 2014	use of larger cutting decks. Project completed
Kansas City	Sustainability Study	2013	Completed 2015	Among the local initiatives resulting from the study which have been implemented in 2015: Repowering several old locomotives that had no emission controls with new Tier 2 engines for use system-wide. (The plan for satisfying additional horsepower needs by purchasing new cleaner burning "Tier IV" locomotives system-wide has been put on hold temporarily.) Instituted an idle reduction monitoring program—any locomotive idling for more than 30 minutes is identified and local managers are notified to investigate and shut down the units when possible. Implemented a number of lighting energy efficient projects at local yard in 2015, including retrofitting 120 light fixtures from T-12 to T-8 bulbs and replacing thirty six 1000 watt high pressure sodium cobra head fixtures with the equivalent lumens in LED

Caddo Parish Commission	Energy efficiency projects	2015	2015	Completed installation of new energy efficient chillers at Caddo Parish courthouse and jail; completed installation of energy efficient light at courthouse and project to install energy efficient lighting at courthouse and parish/city administrative offices (Government Plaza)
Caddo Parish Commission	Anti-idling policy	2015	Ongoing	Implemented anti-idling policy for parish fleet, effective from May through October
Barksdale Air Force Base	Additional energy efficient upgrades and projects	2015	2015	Completed construction on MSG headquarters building to LEED Silver standard Completed sustainable development plan which will guide all future construction/renovation projects Adopted new planning standards which outlines the use of green space, tree cover and siting to minimize cooling requirements, promote pedestrian traffic and reduce vehicle use Downsized 20 fuel storage tanks for generators, resulting in reduced emissions/vapors.

**Greater Shreveport – Bossier City
Ozone Action Program Participants
(Updated as of 2015)**

A-1 Charter
AEP – SWEPCO
Bancorp South
Barksdale Air Force Base
BASF Corporation
BHP Billiton
Bossier Parish Community College
Bossier Parish Police Jury
Bossier Parish School Board
Brammer Engineering
Caddo Parish Commission
Caddo Parish School Board
Calumet Lubricants
Centenary College
Central Oil
Centerpoint Energy
Chemtrade Logistics
Chesapeake Energy
City of Bossier City
City of Shreveport
Desoto Parish Police Jury
Desoto Parish School Board
Dr. Reddy's Labs
Eagle Distributing of Shreveport
Frymaster
General Electric
Greater Shreveport Chamber of Commerce
Holmes Honda
International Paper
Ivan Smith Furniture
JW Operating
Kansas City Southern Railroad
Keller Williams Realty
Louisiana Department of Environmental Quality
Louisiana Department of Transportation and Development
Louisiana Public Service Commission
Libbey Glass
LSU-Shreveport
Metropolitan Planning Commission of Shreveport/Caddo Parish
Millen Oil

MBI
North Louisiana Economic Partnership
Northwest Louisiana Council of Governments
Port of Caddo-Bossier
Pratt Industries
Red River Watershed Management
Relay Station
Ryder Trucks
Shreveport Fire Department
Shreveport Transit Management (SPORTRAN)
Southern University – Shreveport Bossier
Tango Transport
Ternium USA
Time-It Lube
U. S. Veterans Administration