



SCOTT A. THOMPSON  
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN  
Governor

November 3, 2014  
CERTIFIED MAIL

Ozone Advance  
Laura Bunte, Mail Code C304-01  
U.S. EPA, OAQPS  
109 TW Alexander Drive  
Research Triangle Park, NC 27711

Dear Ms. Bunte,

The Oklahoma Department of Environmental Quality (DEQ), Air Quality Division, in collaboration with the Indian Nations Council of Governments (INCOG) would like to formally submit the Tulsa Metropolitan area 2014 update to our Ozone Advance program. This is a "living" document and will continue to be updated as programs are added or evolve. The Tulsa Metropolitan Statistical Area (MSA) has participated in EPA's Ozone Advance program since October 30, 2012 and comprises Creek, Okmulgee, Osage, Pawnee, Rogers, Tulsa, and Wagoner counties. The enclosed table of Ozone Advance initiatives and ongoing programs provides status updates to many of the programs listed in the 2013 submittal, along with several new programs.

The ground-level ozone reduction programs include voluntary and mandatory measures, as allowed in the EPA Ozone Advance Guidance Document. This mix of programs will allow for more expeditious implementation and provide flexibility for program stakeholders.

The Tulsa MSA is currently designated as an attainment area, and based on the preliminary data, the 2014 design values (shown on the enclosed graphic) for all ozone monitoring sites in the Tulsa MSA now meet the current 8-hour ozone standard. In addition to the more moderate weather in the area over the last two ozone seasons, it is our conclusion that participation in the Ozone Advance program has had a positive impact on ozone levels.

Tulsa Area Air Quality Stakeholders met on October 23, 2014 and unanimously recommended submission of this annual update. An updated list of the stakeholder membership is also enclosed. We look forward to continued participation in the Ozone Advance program.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Terrill", is written over a faint circular seal of the State of Oklahoma.

Eddie Terrill  
Division Director  
Air Quality Division

cc: Carrie Paige, EPA  
Nancy Graham, INCOG

Enclosures



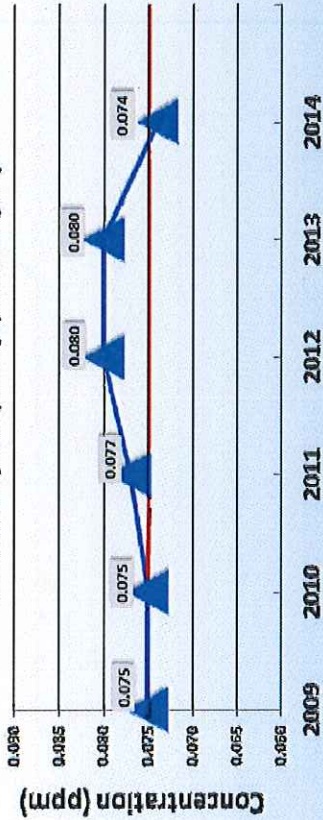
# TULSA AREA OZONE TREND 2011 - 2014

DEQ'S AIR QUALITY DIVISION CONTINUOUSLY MONITORS AMBIENT CONCENTRATIONS OF OZONE (O<sub>3</sub>) AT FIVE LOCATIONS IN THE TULSA AREA.



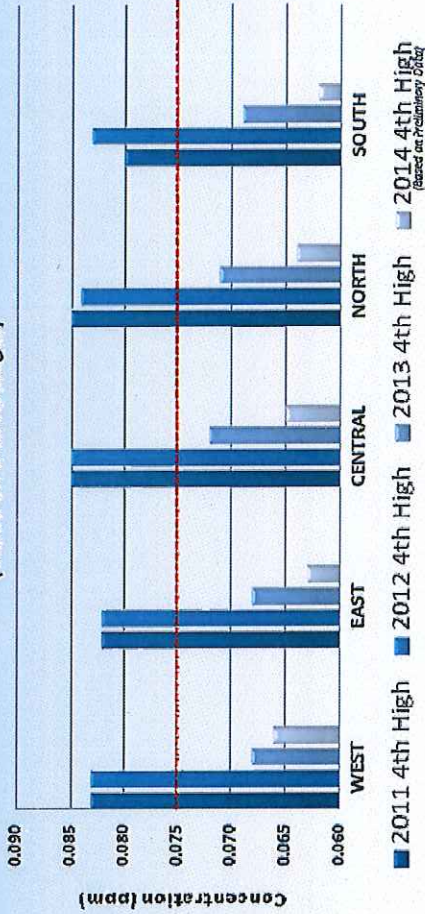
## Tulsa Area Ozone Design Value by Year

Monitor with highest 3-yr average (of the 4th highest)



BASED ON PRELIMINARY DATA, TULSA AREA'S OZONE DESIGN VALUE AT 2014 SEASON END IS 0.074 PPM AND MEETING THE STANDARD.

2011 - 2014 Annual 4th Highs for Ozone by Monitoring Site  
(Based on 8-hr Averages)



THE TULSA AREA EXPERIENCED MUCH HIGHER THAN NORMAL OZONE CONCENTRATIONS DURING THE TWO EXCEPTIONALLY HOT AND DRY SUMMERS OF 2011 AND 2012.

THE EPA NATIONAL OZONE STANDARD USES THE ANNUAL 4TH HIGHEST DAILY MAXIMUM OZONE CONCENTRATION (BASED ON AN 8-HR AVERAGE) MEASURED AT EACH MONITOR. COMPLIANCE OF THE STANDARD OCCURS WHEN THE 3-YEAR AVERAGE (OF 4TH HIGHS) AT ALL MONITORS IS NOT GREATER THAN 0.075 PPM. THE HIGHEST 3-YEAR AVERAGE IS THE DESIGN VALUE AND PLOTTED ON THE CHART AT LEFT.

TULSA AREA REAL-TIME HOURLY MONITOR VALUES, 8-HR AVERAGES AND THE AIR QUALITY INDEX ARE DISPLAYED AT **OZONEALERT.COM**.

Today is NOT an Ozone Alert! Day Tomorrow IS NOT an Ozone Alert! Day  
Sign up for Text Alerts! Text "alerts" to 888220  
The Ozone Alert! Program brings citizens, business, industry and government in the Tulsa Metropolitan area together to voluntarily reduce ozone-forming emissions on days vulnerable to high ozone levels.  
Current Tulsa Area Ozone Reading (ppm)  
Last updated: September 30, 2014, 5:43:13 pm



# October 2014 - Tulsa Area Ozone Advance Program Annual Update

Path Forward Action Plan Category	Emission Reduction Project	Agency	Description	Status	Implementation Schedule and /or Completion Date
Enhanced Public Outreach and Education Programs	Tulsa Transportation Resource Center	INCOG	The Transportation Resource Center (TRC) is a dynamic and newly launched program designed to connect people to available transportation options. The website, TulsaTRC.Org, highlights resources for Tulsa Metro Area biking, walking, riding (transit and rideshare). Transportation Resource Center outreach efforts including working at community events, local company partnership and training, organizational meetings to present information, and more. <b>2014 UPDATE:</b> The Transportation Resource Center's website has been renewed, enhanced and well promoted over the past year. A dynamic hub for regional transportation planning and programs, select TRC efforts over the past year included: the GO Plan Bicycle/Pedestrian planning efforts; Annual Bike to Work Event; Annual Street Cred Educational Event; Walk to the Future sidewalk summit; Job Access Mobility (JAM) Vanpool Pilot Project; and Green Ride Connect regional carpool matching.	Ongoing	2013 -
	Tulsa Area Ozone Alert! Program	INCOG	The Ozone Alert! Program takes a voluntary episodic approach to ozone pollution reduction and healthy air quality. The Tulsa region's award-winning website, OzoneAlert.Com, continues to provide hourly ozone data, AQI information, daily allergy reporting, and much more information. <b>2014 UPDATE:</b> The 24th year of the Tulsa Area Ozone Alert! Program. Public education campaign efforts remained strong with local media contracts totaling \$60,000 placing Ozone Alert! TV and radio promotional awareness throughout the region. Stations provided in-kind bonus match ranging from 20% to over 50% additional coverage. Campaign efforts pointed the public to the OzoneAlert.Com website and encouraged "Get Signed Up" for Alert! notifications. Automated multi-device Ozone Alert! Day Widgets were created and made freely available for placement on websites, tablets and other screen media on municipality websites, weather and news media entities, and corporate intranet sites throughout the metro. The Widgets place a simple program graphic similar to an advertisement that provides the 'real-time' correct Ozone Alert! Day today and tomorrow message through a seamless internet code. The program's social Media efforts remained consistently strong through Facebook and Twitter promotion. A single Ozone Alert! Day was issued during the summer of 2014.	Ongoing	1991 -
	Tulsa Area Clean Cities Program (TACC)	Tulsa Area Clean Cities Program / INCOG	Clean Cities mission is to advance the energy, economic, and environmental security of the United States by supporting local decisions to adopt practices that reduce the use of petroleum in the transportation sector. Designated in 1997, the Tulsa Area Clean Cities Coalition works with local businesses and governments through outreach and education, to promote alternative fuel vehicles. Tulsa Clean Cities works to advance alternative fuels, idle reduction, and to promote the education of alternative fuel fleets, vehicle availability, and refueling options. <a href="http://www.TulsaCleanCities.Org">www.TulsaCleanCities.Org</a> . <b>2014 UPDATE:</b> The TACC 2013 annual survey of stakeholder fleets indicated significant growth and improvement in all areas. An annual 3,171,642 gallons of gasoline equivalent was reduced over the past year - with 93% being directly attributed to regional growth in alternative fuel vehicles. In September 2014, TACC with Tulsa Gas Technologies, dHybrid Systems and Oasis Engineering brought a natural gas vehicle conference to downtown Tulsa. The two-day event provided three-levels of training and information to more than 500 attendees from 36 states and 5 countries.	Ongoing	1997 -
	Public Outreach	Department of Environmental Quality	The Department participates in multiple public outreach and education programs, which emphasize the importance of informing individuals about the effects of ozone on citizen health. This includes producing/supplying ozone education materials, creating online videos encouraging home efficiency and issuing ozone watches for the Tulsa MSA. DEQ began its Air Quality Health Advisory Program in 2006, issuing real time email notifications of unhealthy concentrations of ozone. <b>2014 update:</b> The Air Quality Division added an infographics gallery featuring original infographics with a local focus on the relationship between air quality and weather.	Ongoing	2006 -

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Energy Efficiency Strategies and Programs	Mandated Energy Efficiency Requirements	State of Oklahoma	State law (61 OK. St. § 213) enacted in 2008, requires new construction or substantial renovation of buildings that receive 50% or more of their funding from the State of Oklahoma to meet the guidelines of the LEED system or the Green Globes rating system. <u>2014 UPDATE: Legislation is still in effect.</u>	Ongoing	2008 - Continuous
	The Oklahoma Energy Security Act	State of Oklahoma	The Oklahoma Energy Security Act (17 O.S., Section 801.2 et seq.), which became effective in 2010, set state wide goals for alternative and domestically produced energy, including: 15% of energy from renewables by 2015, and CNG fueling stations every 100 miles by 2015 and every 50 miles by 2025. <u>2014 UPDATE: The most recent progress report indicates that Oklahoma's total renewable energy generation is at 18.42%. The State of Oklahoma currently has more CNG fueling stations per capita than any other state. According to OK Clean Cities, as of June 2014, OK had over 75 public access CNG fueling stations.</u>	Ongoing	2010 - 2025
	Oklahoma First Energy Plan	State of Oklahoma	This plan lays out policy guidance for a diverse energy portfolio that includes energy efficiency and encourages efficiency technologies such as CHP and geothermal. This plan is in line with the Oklahoma Energy Security Act's target of 15% statewide renewable energy use by 2015.	Ongoing	2011 - 2015
	Oklahoma State Facilities Energy Conservation Program	State of Oklahoma	The Oklahoma State Facilities Energy Conservation Program, established in 2012 (27A O.S. Section 3-4-106.1), directs all state agencies and higher education institutions to achieve an energy and conservation improvement target of at least 20% by 2020 when compared with 2012 utility expenditures. <u>2014 UPDATE: Most agencies are in the training and planning phases, and in some cases energy managers have been hired. The state has begun using Energy CAP software to track usage.</u>	Ongoing	2012-2020
	City of Tulsa Energy Efficiency Conservation Block Grant (EECBG)	City of Tulsa	The Energy Efficiency Conservation Block Grant (EECBG) program is administered by the U.S. Dept. of Energy. The City of Tulsa has received over \$3.8 million in EECBG funding for programs that increase energy efficiency, reduce dependence on foreign energy and create or retain jobs. Projects include, long term energy & sustainability plan development, OSU medical center retrofit project, Brady Village geothermal project, building LED lighting upgrades, and energy efficient LED traffic and pedestrian lighting.	Complete	2013
	Building Efficiency Improvements	Tulsa City-County Library	The Tulsa City-County Library system's main downtown library has begun a two-year renovation, aimed at creating improving functionality, safety and energy efficiency. The new building is expected to reduce energy consumption by ~40%, enough energy to power 56 Oklahoma homes, and reduce water consumption by 91,000 gallons. The final building is expected to meet LEED Silver certification. <u>2014 UPDATE: Improvements and renovations continue. Completion anticipated Spring 2015.</u>	2010-2014	2015
	Energy Efficiency and Conservation Block Grants	Tulsa County	Tulsa County, with the assistance of INCOG, has created an integrated energy strategy to provide actions that will reduce annual energy consumption by 15-25%. This energy strategy will utilize funds from a Department of Energy Block grant.	Ongoing	2010 -

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	Demand Response Energy Performance Reduction Program – Residential and Commercial	Public Service Company of Oklahoma	<p>PSO's Power Forward energy efficiency and demand-response is a multi-faceted program providing significant and targeted incentives to business and residential customers for reducing their energy usage. Over the next three years, PSO's Energy Efficiency/Demand Response Program is expected to reduce energy consumption by 191 GWh hours, and achieve 244 MW of demand savings. <b>2014 UPDATE:</b> PSO's Energy Efficiency (EE) &amp; Demand Response Annual Report (June 2014) combined project energy savings exceeded annual projections by 79% and net annual energy savings of 71,880 MWh. PSO has launched a new software interface for residential customers to track their energy use and receive EE tips and education.</p>	Ongoing	2012 -
	Oklahoma Natural Gas (ONG) Energy Efficiency Program	Oklahoma Natural Gas	<p>ONG's energy efficiency programs provide incentives for residential and commercial customers encouraging new energy-efficient natural gas appliance choices, and even provides a homeowner rebate for having gas-heating systems checked and tuned-up.</p>	Ongoing	2012 -
	Oklahoma Gas and Electric Energy Efficiency Program	OG&E	<p>OG&amp;E offers a comprehensive portfolio of Demand-Side Management/Energy Efficiency Programs that are anticipated to save 371 GWh of energy by 2015. Additionally, a 'SmartHours' Demand Response program and a new voltage control program is projected to achieve approximately 9,603 MWh of energy savings, also by 2015. <b>2014 UPDATE:</b> OG&amp;E consumer energy efficiency programs have saved a cumulative 242 GWh through 2013, and the SmartHours Demand Response program saved 29 GWh in 2013.</p>	Ongoing	2013 -2015
CNG/Alternative Fueled Vehicle & Infrastructure Projects	Alternative Fuel Vehicle (AFV) Tax Credit	State of Oklahoma	<p>For tax years beginning before January 1, 2015, a one-time income tax credit is available for 50% of the incremental cost of a new AFV or converting a vehicle to operate on an alternative fuel. The state also provides a tax credit for 10% of the total vehicle cost, up to \$1,500, if the incremental cost of a new AFV cannot be determined or when an AFV is resold, as long as a tax credit has not been previously taken on the vehicle. Equipment used for conversions must be new. The alternative fuels eligible for the credit are compressed natural gas, liquefied natural gas, hydrogen, and liquefied petroleum gas (propane). Tax credits may be carried forward for up to five years. (68 O.S. §2357.22) <b>2014 UPDATE:</b> Extended tax credit years to beginning before January 1, 2020. Also changed credit to up to 45% (from 50%) of incremental cost.</p>	Ongoing	1990 -
	Alternative Fueling Infrastructure Tax Credit	State of Oklahoma	<p>For tax years beginning before January 1, 2015, a tax credit is available for up to 75% of the cost of alternative fueling infrastructure. Eligible alternative fuels include compressed natural gas (CNG), liquefied natural gas, liquefied petroleum gas (propane), hydrogen, and electricity. The infrastructure must be new. A tax credit is also available for up to 50% of the cost of installing a residential CNG fueling system, for up to \$2,500. The tax credit may be carried forward for up to five years. (68 O.S. §2357.22) <b>2014 UPDATE:</b> Extended credit to tax years beginning before Jan 1, 2020.</p>	Ongoing	1990 -
	Private Alternative Fuel Vehicle (AFV) Loans	State of Oklahoma	<p>Private loan program with a 3% interest rate for the cost of converting private fleets to operate on alternative fuels, for the cost of purchasing an original equipment manufacturer AFV, and for the installation of AFV fueling infrastructure. Maximum repayment six-years. <b>2014 UPDATE:</b> State loan program remains ongoing although is now managed by the Oklahoma Department of Commerce's State Energy Office.</p>	Ongoing	2010 -

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	CNG Fleet Conversion	Oklahoma Department of Transportation	<p>ODOT will be replacing more than 90 percent of the fleet at ODOT and the Oklahoma Turnpike Authority with CNG vehicles in the next three years. <b>2014 UPDATE:</b> In Spring 2014, ODOT purchased 295 CNG vehicles- 265 half-ton Ford 150 trucks, 16 one-ton Dodge Ram trucks and 4 Honda Civics • ODOT plans to save more money and further reduce carbon emissions by replacing more of the high-mileage cars and trucks in its 1,085 vehicle fleet with CNG vehicles in the future. Could potentially save \$20,000 over the useful life of each vehicle.</p>	2012-2016	2016
	Alternative Fuels Incentive	Oklahoma Natural Gas Company	<p>CNG is currently offering rebates of \$1,000 for the purchase of a dedicated CNG vehicle, \$500 for the purchase of a bi-fueled vehicle and \$1,000 for the purchase of a residential home-fueling system. This program is expected to continue, with no set cut-off or termination date. <b>2014 UPDATE:</b> In 2013, ONG processed 431 NGV rebates, 370 bi-fuel NGV rebates, and 37 home refueling rebates.</p>	Ongoing	2012 -
	CNG Fleet Conversion	Metropolitan Tulsa Transit Authority (MTTA)	<p>MTTA maintains a fleet of approximately 100 vehicles. These include full size fixed route passenger and smaller lift program buses. In 2011, MTTA made the commitment to move toward a 100% CNG fleet and began a concentrated effort to locate and secure funding to do so. In 2012, they completed a \$1.7 million dollar CNG filling station on the property and to date have 71% of their 52 lift program buses running on dedicated CNG and approximately 44% of their fixed route fleet. Within the next several years, funding is being sought to complete the fixed route transition to 100% CNG. <b>2014 UPDATE:</b> MTTA currently operates 80% of their lift program buses and 50% of their fixed route (full size) buses on dedicated CNG. Additionally, MTTA is pursuing driver efficiency training tools to reduce fuel usage and emissions by helping drivers accelerate and brake smoother.</p>	Ongoing	2011 -
	CNG Fleet Conversion	City of Owasso	<p>In 2010, the city of Owasso chose to incorporate CNG vehicles in their city fleet. By 2011, they had opened their first public-private CNG station in their downtown area and are well on the way to convert the fleet. <b>2014 UPDATE:</b> The City of Owasso remains committed to CNG and purchased their first fully dedicated CNG Refuse Truck in 2013. In 2014, the City's Public Works Department added three dedicated CNG Ford Pickup Trucks to their fleet (one F250 and two F350s). Additionally, the City anticipates being able to add a dedicated CNG Van to the Support Services Department within the next fiscal year.</p>	Ongoing	2010 -
	CNG Fleet Conversion	Tulsa Public Schools	<p>Currently, 140 of the 300 full-size school bus fleet are operating on 100% CNG fuel. 8 new 2013 BlueBird CNG buses have been ordered and the district continues to seek funding to upgrade their four compressor filling stations. Tulsa Public Schools (TPS) plans to convert 100% of their bus and car fleet running by 2020. <b>2014 UPDATE:</b> TPS fully upgraded a compressor station at the fleet's McBirney bus lot, currently operates nearly 150 CNG school buses and additionally implemented a fleet Idle Reduction Program over the past year.</p>	Ongoing	1988 -
	CNG Fleet Conversion	Tulsa Authority for the Recovery of Energy (TARE)	<p>The Tulsa Authority for the Recovery of Energy (TARE) is the agency responsible for establishing and contracting the City of Tulsa's residential refuse. The City of Tulsa, home to nearly 400,000 citizens, requires approximately 50 refuse trucks operating daily through city streets. In 2012, TARE established and awarded a 10-year refuse hauler contract which required 50% of the vehicles to be fueled by CNG upon startup and 100% of Tulsa's trash trucks to be CNG fueled by the summer of 2013.</p>	Complete	2012-2013

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	Tulsa Area Clean Cities Vehicle and Infrastructure Grant Program	Tulsa Clean Cities/ INCOG	The Public Fleet Conversion grant program, funded through a CMAQ grant to conversion of vehicles to alternative fuel vehicles, the purchase of original equipment manufactured (OEM) alternative fuel vehicles, and development of the alternative fuel vehicle infrastructure within the Tulsa area. Over the next five years, TACC anticipates this grant program will award approximately \$875,000 in project funding for Clean Vehicle and Infrastructure Projects in the Tulsa area. <b>2014 UPDATE:</b> <u>AFV and Infrastructure Grant Awards totaling \$271,621 made to Tulsa area municipalities including City of Sand Springs, City of Sapulpa, City of Tulsa, Pelivan Transit, Town of Mannford and Tulsa County. Projects include: 9 Alternative Fuel Vehicle purchases (CNG Bi Fuel vehicles for Incident Command, Utility and Code Enforcement, Utility Collections, Engineering and motor pool vehicles, Sheriff's Office, and Para-transit); 5 CNG conversion kits; and Town of Mannford CNG fueling infrastructure equipment.</u>	Ongoing	1997 -
	Tulsa Area Clean Cities I-40 Grant Projects	Tulsa Clean Cities/ INCOG	In conjunction with partners at Arkansas Clean Cities, Tulsa Area Clean Cities (TACC) was awarded a grant by the United States Department of Energy titled the I-40 Collaboration. Projects undertaken by the I-40 grant will help to displace the use of fuels, like diesel and petroleum, by addressing pervasive problems in the Oklahoma alternative fuels market. Specifically, the projects funded by this grant will help reduce ozone levels in Tulsa by advancing the use of cleaner alternative fuels, facilitating the construction of alternative fuel stations, and promoting safety in the alternative fuel market. <b>2014 UPDATE:</b> <u>Grant projects continue underway: 19 CNG Code Inspector training classes were held; Development of numerous AFV training resource is underway including an educational video covering "CNG Myths" and national curriculum for law enforcement and EMS responders.</u>	Ongoing	2012 - 2016
Transportation System Strategies and Projects	Peoria Ave. Bus Rapid Transit	INCOG	The MTTA's board of trustees voted February 26, 2013 to recommend implementation of a plan to replace regular bus service along a 15-mile stretch of Peoria Avenue with rapid transit bus service. The rapid transit system would replace Tulsa Transit's 105 Route, which accounts for 15 percent of the organization's passenger trips. The \$18.8 million price tag would cover the cost of seven dedicated CNG buses equipped with GPS technology to change traffic signals when the buses are behind schedule. Funding for the project will be before Tulsa voters in November 2013. Expected implementation: 2016. <b>2014 UPDATE:</b> <u>The funding venue was passed by voters and the project initiated. Consultant is selected and a project management plan is being developed.</u>	Ongoing	2016
	Tulsa Region Bicycle/Pedestrian Master Plan	INCOG	INCOG is working to prepare a Bicycle and Pedestrian Master Plan for the Tulsa Region. INCOG proposes developing and delivering a transportation assessment process that will identify and evaluate short-, medium- and long-term transportation system needs to enhance bicycle and pedestrian mobility while considering automobile and bus transit operations. The Plan area will include the municipalities of Broken Arrow, Catoosa, Claremore, Collinsville, Coweta, Glenpool, Jenks, Owasso, Sand Springs, Sapulpa, Skiatook, and Tulsa. Expected study completion: 2014. <b>2014 UPDATE:</b> <u>The On-Street Bicycle and Off-Street Trail components of the Plan is developed and proposed in draft. A Retreat is scheduled for October 29, 2014 where municipalities will discuss draft. The pedestrian component of the plan is in final study phase with focus areas, cost estimates and prioritizations anticipated in draft by early 2015. Master Plan adoption anticipated by Fall 2015.</u>	Ongoing	2015

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	Bike share Feasibility Study	INCOG	INCOG has committed to fund a feasibility study and business plan for a comprehensive downtown focused bike share system. Using Congestion Mitigation & Air Quality (CMAQ) funding, a consultant will be retained to determine the long-term feasibility of a bike share program and implementation plan. Funding options and liability will be focus areas of the plan. Expected study completion: 2014. <b>2014 UPDATE:</b> Feasibility study is well underway with initial draft implementation plan anticipated by early 2015.	Ongoing	2014
	OKC – Tulsa Commuter Rail Program Initiative	ODOT	The Tulsa-Oklahoma City Corridor Investment Plan will identify and evaluate a full range of alternatives (FRA) to meet the region's long-term transportation needs. The study will provide sufficient information to support an FRA decision to fund and implement a major investment, or investment in a series of projects, in a passenger rail corridor. <b>2014 UPDATE:</b> Phase One planning is complete and included data collection, stakeholder and public involvement and identifying and evaluating options for consideration. The Phase Two further screening and further evaluating and narrowing alternatives is underway.	Ongoing	2013-
	Transportation Management System Considerations	INCOG	Over the next five years, the Tulsa Transportation Management Area will research, analyze, select and implement a variety of TSM projects. These may include expressway on-ramp congestion traffic flow system projects, intersection improvement projects, signal improvements, signal coordination efforts, Intelligent Transportation System (ITS) enhancements and more. TSM improves traffic flow, reduces congestion and thereby reduces emissions. As these projects take place, they will be described in our annual Ozone Advance documentation. <b>2014 UPDATE:</b> Projects ongoing include video detection and signal prioritization corridors.	Ongoing	2013 - 2018
	CNG Fleet Addition	Department of Environmental Quality	DEQ will be replacing up to 12 gasoline fueled vehicles with CNG fueled vehicles on a rolling basis. <b>2014 UPDATE:</b> The DEQ statewide fleet currently includes 2 dedicated CNG vehicles, and 12 bi-fuel trucks. The agency plans to add 10 more bi-fuel trucks in 2014, which will replace some older non-alternative fuel vehicles. One of those will be assigned to the Tulsa DEQ office.	Ongoing	2013 -
Department of Environmental Quality Programs and Rulemakings	Open Burning Rule	Department of Environmental Quality	This rule will reduce PM, VOC and NOx emissions within the Tulsa and Oklahoma City Metropolitan Statistical Areas (MSAs) by requiring the use of an air curtain incinerator in place of open burning. This will significantly reduce the amount of ozone precursors generated by the burning of wood waste, with an approximate 90% reduction in total air pollutants. Additionally, this rule prohibits open burning of waste in areas for which an ozone or PM Alert is in effect. <b>2014 UPDATE:</b> DEQ has performed some outreach to the fire departments in the OKC and Tulsa Metropolitan areas to explain the rule. These fire departments are now assisting in enforcement of this rule, and as a result, many land clearing operations that would have just piled and burned in years past are either using an ACI, chipping, or having the waste removed from their property.	Complete	Eff. 7/1/2013
	Oil & Natural Gas Permit By Rule (O&NG PBR)	Department of Environmental Quality	The primary focus of this rule is to streamline the permitting process and reduce associated permitting fees for the numerous small oil and gas production sites in the state; however, this measure will also provide more detailed emissions data about the oil and natural gas production sector which will be analyzed to develop future air quality policy and strategies.	Complete	Sep-13



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Major Tulsa Area Facility Industrial Retrofits	Low NOx Burner Install	Public Service Company of Oklahoma	<p>PSO Northeastern Power Plant - Low NOx burner install. <u>2014 UPDATE:</u> AEP-PSO Northeastern Power Station Units 3 and 4 have been meeting the NOx limit of 0.23 lb/MMBtu since the installations of the Low-NOx Concentric Firing System (LNCFS) in 2012. Unit 2 is meeting the NOx limit of 0.28 lb/MMBtu, after Low-NOx Burner/Overfire Air (LNB/OFA) installation in 2014. Refined tuning will result in Units 3 and 4 meeting the NOx limit of 0.15 lb/MMBtu by April 2016.</p>	Ongoing	2016
	Low NOx Burner Install	Oklahoma Gas and Electric	<p>OG&amp;E Muskogee Power Plant - Low NOx burner install. <u>2014 UPDATE:</u> Low NOx burners are required on units 4 &amp; 5 to be installed for compliance with the Regional Haze SIP in Jan 2017. OG&amp;E anticipates installation before then.</p>	Ongoing	2017
	Low NOx Burner Install	Grand River Dam Authority	<p>GRDA Chouteau Power Plant - Low NOx burner install on two units.</p>	Completed	2012 - 2013
	Reduced Coal Generation NOx Reduction	Grand River Dam Authority	<p>GRDA Chouteau Power Plant - Reduced Coal Generation major reduction in NOx emissions by replacement of coal fired generating Unit 1 with natural gas combined cycle unit; and additional wind generation. <u>2014 UPDATE:</u> The project is underway. Detailed engineering is completed, materials and equipment are being procured, and contractors are being selected.</p>	Ongoing	2017
	Equipment Replacement	HollyFrontier Refinery	<p>Replacement of two older boilers will result in NOx reductions. <u>NOTE:</u> This item was included in the original submittal, but was determined that the reduction was planned in response to a mandatory order from a consent decree. <u>2014 UPDATE:</u> Both older boilers were shut down in Spring 2014.</p>	Completed	2014

# INCOG AIR QUALITY STAKEHOLDERS

## October 2014

*Alphabetically by Organization*

Austin Embry, AAON  
Ken Ruffin, AEP  
Howard Ground, AEP-PSO  
Don Pugh, American Airlines, Inc.  
Thelma Norman, American Airlines, Inc.  
Patrick Hattaway, American Lung Association  
Keith Sorrells, Arkansas Valley Companies  
Wayne Thomas, Buzzi Unicam USA  
Kyle Arthur, Chesapeake Energy Corporation  
Mark Stout, Chesapeake Energy Corporation  
Lee Zirk, City of Broken Arrow  
Dewey Bartlett, City of Tulsa, Mayor's Office  
Charlie Williams, Clean Air Action  
Matt Newman, Covanta Energy  
Kirk Meinershagen, Dal-Tile  
Angie Burckhalter, Devon Energy Corporation  
Jeff Elbert, ENERCON  
Bryan Jewett, ENERCON  
Ryan Moore, Explorer Pipeline  
Isaac Akem, Federal Highway Administration  
Stephen Landers, Georgia-Pacific  
Mike Bednar, GRDA  
Charles Barney, GRDA  
Michael Graves, Hall Estill Law Firm  
Jarrett Keck, HollyFrontier  
Andrew Haar, HollyFrontier  
Rich Brierre, INCOG  
Richard Smith, INCOG  
Nancy Graham, INCOG  
Lee Paden, Law Office of Lee W. Paden, PC  
Bruce Heine, Magellan Midstream Partners \*\*  
Thomas Byers, Magellan Midstream Partners  
Michael Patton, MET  
Michael Henk  
Craig Bernheimer, Miratech Corp.  
Liann Alfaro, MTTA  
Bill Cartwright, MTTA  
Randy Cloud, MTTA  
Steve Amburn, National Weather Service  
Marcus Bowlin, Newfield Exploration  
Eddie Terrill, ODEQ

Scott Thomas, ODEQ  
Nancy Marshment, ODEQ  
Beverly Botchlet-Smith, ODEQ  
Montelle Clark, ODEQ Air Quality Advisory Council  
Rhonda Jeffries, ODEQ Regional Office at Tulsa  
Randle White, ODOT  
Dawn Sullivan, ODOT  
Laura Chaney, ODOT  
Ford Benham, O G & E Utility Operations  
Usha Turner, O G & E Energy Corp  
Brian McQuown, O G & E  
Jim Haught, ONEOK  
Coy Pyle, ONEOK  
Deborah Perry, ONEOK  
Lydia Patitsas, OSN  
Bill Geubelle, Phillips66  
Marla Benyshek, Phillips66  
Mike Thornbrugh, QuikTrip Corporation  
Bruce Morgan, QuikTrip Corporation  
Ron Sober, RFS Consulting, Inc.  
Barbara VanHanken, Sierra Club  
Whitney Pearson, Sierra Club  
Steve Owen, Solae  
Mark Lawson, Spirit Aerosystems  
Gay Campbell, St. Francis Hospital  
Gary Collins, Terra Nitrogen, LP - Verdigris  
Jeff Mulder, Tulsa Airport Authority  
Karen Keith, Tulsa County \*\*  
Mike Neal, Tulsa Regional Chamber  
Skye McNiel, Tulsa Regional Chamber  
Nick Doctor, Tulsa Regional Chamber  
Bill Potter, University of Tulsa  
Mike Shepard, Veolia Energy Tulsa

**\*\*Chair**