June 25, 2007

Richard Greene, Regional Administrator
USEPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Dear Administrator Greene,

Please find enclosed the January 1 to June 30, 2007 progress report for the Tulsa Metropolitan Area 8-Hour Ozone Early Action Compact (EAC) prepared by the Indian Nation Council of Governments (INCOG). The purpose of this report is to update accomplishments occurring since our December 2006 submittal including progress toward the goals contained in the Memorandum of Agreement between the Oklahoma Department of Environmental Quality (DEQ) and INCOG. This Memorandum outlines each organization's responsibilities for the scheduled completion of certain traffic improvement projects that will improve air quality as a control strategy for the Tulsa Metropolitan Area 8-Hour Ozone EAC. Also included in this report is DEQ's update of recent ambient ozone data for the Tulsa area.

We are pleased that the Tulsa area continues to remain in compliance with the 8-hour ozone standard and deferral of nonattainment is not necessary. We do, however, remain committed to meeting EAC milestones. An electronic copy of this report is also enclosed on CD.

If your agency has any questions, or needs additional information concerning this submittal, please contact Leon Ashford, of the Air Quality Division of the Department of Environmental Quality at 702-4100.

Sincerely,

Eddie Terrill, Director
Air Quality Division
DEQ

ET:LA:gg

Enclosures

c: Jerry Lasker, INCOG

Tulsa Area Early Action Compact
June 30, 2007 Progress Report

The Tulsa Metropolitan Statistical Area (TMSA) was designated attainment of the revised 8-hour National Ambient Air Quality Standard (NAAQS) for ozone in April 2004. We have elected to remain in the EAC program because we have exceeded the 8-hour ozone standard in the past and because improving air quality through continued reduction of ozone forming emissions remains a priority.

In compliance with this EAC agreement, INCOG is pleased to provide this semi-annual report documentation to the Oklahoma Department of Environmental Quality and the US EPA.

The Tulsa Area's EAC Transportation Control Strategy remains completed and air quality improvement continues, as confirmed by the 2004-2006 ozone design value and current ozone monitoring data. All Tulsa MSA ozone monitors remain in compliance with the NAAQS.

8-O_3FLEX PROGRAM PLANNING

The Tulsa area continues to place high emphasis and commitment to improving air quality. Guidelines for the Environmental Protection Agency's (EPA) new 8-O_3Flex Program were approved and provided on May 18, 2006. A letter dated March 8, 2007 to EPA Regional Administrator Richard Greene, affirmed the Tulsa Area's intent to participate in the 8-O_3Flex Program. We are currently in the final planning stages in the development of the 8-O_3Flex Plan.

PUBLIC REVIEW AND OVERSIGHT

Public outreach remains an important component of the EAC process. INCOG has continued to maintain an open and systematic dialogue with local businesses, media public and private partners concerning EAC implementation efforts and progress. EAC and air quality improvement efforts have been presented in the following venues:

a. The INCOG Transportation Technical Advisory Committee. INCOG staff briefed the committee on various air quality updates including EAC progress and associated EAC discussion.
   - January 17, 2007
   - February 14, 2007
   - March 21, 2007
   - April 17, 2007
   - May 16, 2007
   - June 20, 2007

b. The INCOG Transportation Policy Committee. INCOG staff briefed the committee on various air quality updates including EAC progress and associated EAC discussion.
   - January 25, 2007
   - February 22, 2007
   - March 29, 2007
   - April 26, 2007
   - May 31, 2007
   - June 28, 2007

c. The Tulsa Area Clean Cities Stakeholder Meeting included discussion about local air quality improvement issues. INCOG staff briefed the committee on the following stakeholder meeting dates:
   - February 20, 2007
   - April 17, 2007
   - June 21, 2007

d. Tulsa Area Ozone Alert Public Relations Team Meetings, etc., Air Quality media Updates; and other media air quality awareness.
   - January 23, 2007: PR Team Meeting
   - February 13, 2007: PR Team Meeting
   - March 13, 2007: INCOG Air Quality Committee
   - March 20, 2007: PR Team Meeting
   - March 27, 2007: INCOG Air Quality Committee
   - April 12, 2007: PR Team Meeting
   - May 8, 2007: PR Team Meeting
   - May 16, 2007: Tulsa Area Ozone Alert! 2007 Season Kick-Off Event
   - May 22, 2007: PR Team Meeting
   - June 12, 2007: PR Team Meeting
   - June 26, 2007: PR Team Meeting

1. Tulsa Area EAC Control Measure - COMPLETED / FULLY IMPLEMENTED

a. Control Measure

Transportation Emission Reduction Strategy - roadway expansion and intersection improvement projects

b. Summary description of control measure

The Tulsa area EAC emission reduction strategy is a cumulative compilation of transportation improvement projects, implemented and quantified as a single control strategy.

The transportation travel demand model determines a system-wide affect on all roadway links. As previously identified, emission reductions obtained for each unique transportation improvement project cannot be uniquely or effectively

estimated on a project by project basis. EAC technical support documentation MOBILE 6 estimated the emission reductions as a result of a cumulative system-wide improvement. To model cumulative transportation improvements, a link-by-link analysis is performed on the entire transportation network. The link-based transportation model attempts to reach equilibrium in travel time for each trip loaded. Numerous parameters such as volume, capacity ration, speed etc. contribute to the overall modeled emission reductions.

Revisions to the State Implementation Plan for the Control of Ozone Air Pollution, submitted by the ODEQ on behalf of the Tulsa Metropolitan Area 8-hour Ozone Early Action Compact, Section 2 Control Strategies provides full description of the control strategy. The technical support documentation in the same SIP plan, Section 3, provides emission reduction demonstration.

c. Program/Measure Status

The Transportation Emission Reduction strategy is fully implemented, as documented complete in the following project summary tables:

Capacity Improvement Projects				
Project Title	**Description**	**Total Lanes When Complete**	**Completion Date**	**STATUS**
EXPRESSWAYS				
US-169 S.	I-244 to 21st Street S.	6 Lanes	COMPLETED	**COMPLETED**
BA EXPRESSWAY (S.H. 51)	193rd E Ave to Muskogee Turnpike	6 Lanes	COMPLETED	**COMPLETED**
BA EXPRESSWAY (S.H. 51)	I-44 to 161st E Avenue	6 Lanes	COMPLETED	**COMPLETED**
Creek Turnpike East	Will Rogers Turnpike to Muskogee Tpk	4 Lanes	COMPLETED	**COMPLETED**
Broken Arrow South Loop	US-169 to 161st E Ave	4 Lanes	COMPLETED	**COMPLETED**
Broken Arrow South Loop	Muskogee Tpk to 161st E Ave	4 Lanes	COMPLETED	**COMPLETED**
Creek Turnpike West	US-75 to Turner Turnpike	4 Lanes	COMPLETED	**COMPLETED**
Gilcrease Expressway North	US-75 to Lewis	4 Lanes	COMPLETED	**COMPLETED**
Tisdale Expressway	Apache to 36th Street N	4 Lanes	COMPLETED	**COMPLETED**
PRIMARY ARTERIALS				
E 91St St S (Washington St.)	Garnett to Main Elm (the 1/2 mile section from Elm to Main project was substituted by an added 1/2 primary arterial section of 61st street - West of Garnett and East of US 169)	3 Lanes	COMPLETED	**COMPLETED**
61st Street	Garnett to US 169	3 Lanes	COMPLETED	
S.H. 20	Lennapah to US-75	4 Lanes	COMPLETED	**COMPLETED**
S.H. 67 (151St Street S)	US 75A to US 75	4 Lanes	COMPLETED	**COMPLETED**
US-64/S MEMORIAL	E 151st St S to E 161st Street	4 Lanes	COMPLETED	**COMPLETED**
71st Street	Lewis to Florence	6 Lanes	COMPLETED	**COMPLETED**
71st Street	Harvard to Yale	6 Lanes	COMPLETED	**COMPLETED**
71st Street	US-169 to Garnett	6 Lanes	COMPLETED	**COMPLETED**
71st Street	Yale to US-169 S	6 Lanes	COMPLETED	**COMPLETED**
11th Street	129th E Ave to I-44	4 Lanes	COMPLETED	**COMPLETED**
SECONDARY ARTERIALS				
E 61St Street South (Albany)	161st E Avenue to 177th E Avenue	3 Lanes	COMPLETED	**COMPLETED**
S GARNETT ROAD	E 61st Street to E 71st Street South	5 Lanes	COMPLETED	**COMPLETED**
Admiral	Garnett to 145th E Ave	4 Lanes	COMPLETED	**COMPLETED**
E 91st Street South	Mingo Rd to US-169 S	4 Lanes	COMPLETED	**COMPLETED**
E 81St Street South	Garnett Rd. to Main Street (Broken Arrow)	3 Lanes	COMPLETED	**COMPLETED**
S MINGO ROAD	51st Street to 61st Street	4 Lanes	COMPLETED	**COMPLETED**
MINGO ROAD	61st Street to 71st Street	4 Lanes	COMPLETED	**COMPLETED**
S MINGO ROAD	91st Street to US-169 S	4 Lanes	COMPLETED	**COMPLETED**
Sheridan	61st Street to 71st Street	5 Lanes	COMPLETED	**COMPLETED**
Sheridan	71st Street to 81st Street	5 Lanes	COMPLETED	**COMPLETED**
129th E Ave	21st Street S to 31st Street S	4 Lanes	COMPLETED	**COMPLETED**
Garnett Road	41st Street to 51st Street	4 Lanes	COMPLETED	**COMPLETED**
Garnett Road	I-244 to 21st Street	4 Lanes	COMPLETED	**COMPLETED**
PARKWAYS				
RIVERSIDE PARKWAY	81st Street to 101st Street	4 Lanes	COMPLETED	**COMPLETED**

ROADWAY INTERSECTION IMPROVEMENT PROJECTS				
N-S Street	**E-W Street**	**Description**	**Completion Date**	**STATUS**
S. Memorial Dr.	93rd Street	Signal Install	COMPLETED	**COMPLETED**
Riverside Drive	31st Street	Signal Install	COMPLETED	**COMPLETED**
71st Street S	S. Canton	Signal Install	COMPLETED	**COMPLETED**
41st Street S	102 E Ave	Signal Install	COMPLETED	**COMPLETED**
I-44 EB off/on ramp	E 31st St S.	Signal Install	COMPLETED	**COMPLETED**
S Mingo Rd	E 55th Pl S.	Signal Install	COMPLETED	**COMPLETED**
S Harvard Av	E 27th Street	Signal Install	COMPLETED	**COMPLETED**
91st Street S.	S 101st E Av	Signal Install	COMPLETED	**COMPLETED**
S Mingo Rd	E 66th Street S.	Signal Install	COMPLETED	**COMPLETED**
Riverside Drive	41st Street	Signal Install	COMPLETED	**COMPLETED**
51st Street Exit	SH-51 Exit	Signal Install	COMPLETED	**COMPLETED**
Mingo Road	91st Street	Intersection	COMPLETED	**COMPLETED**
Union Ave	61st Street	Intersection	COMPLETED	**COMPLETED**
S. Memorial Dr.	51st Street	Signal Modification	COMPLETED	**COMPLETED**

ADDITIONAL PROJECTS IMPLEMENTED AS SUBSTITUTED ROADWAY IMPROVEMENT PROJECTS

N-S Street	E-W Street	Description	Completion Date	STATUS
108th East Avenue	91st Street	Signal Install	COMPLETED	**COMPLETED**
Harvard Avenue	21st Street	Signal Modification	COMPLETED	**COMPLETED**
Tulsa County Fair Grounds Gate 12	Tulsa County Fair Grounds Gate 12	Signal Modification	COMPLETED	**COMPLETED**
Pittsburg Avenue	21st Street	Signal Modification	COMPLETED	**COMPLETED**
Yale Avenue	21st Street	Signal Modification	COMPLETED	**COMPLETED**
Cincinnati Avenue	Pine Avenue	Signal Modification	COMPLETED	**COMPLETED**
Trenton Avenue	Apache Avenue	Signal Modification	COMPLETED	**COMPLETED**
Utica Avenue	21st Street	Signal Modification	COMPLETED	**COMPLETED**
Yale Avenue	31st Street	Signal Modification	COMPLETED	**COMPLETED**
Garnett Avenue	61st Street	Signal Modification	COMPLETED	**COMPLETED**
Garnett Avenue	81st Street	Signal Modification	COMPLETED	**COMPLETED**

A. Control Measure	B. Summary Description of Measure	C. Program/Measure Status	D. Specific Implementation Date	E. VOC Reduction	F. NOx Reduction	G. Resources (FTE's, $$)	H. Additional Information
10 Tulsa, OK							
Transportation Emission Reduction Strategy - roadway expansion and intersection improvement projects	Strategy consists of a cumulative compilation of transportation improvement projects throughout the Tulsa Transportation Management Area.	COMPLETE	Dec. 31, 2005	0.02 TPD	2.62 TPD		
Comments:							

d. VOC Reduction & NOx Reductions

Control 12 – TRANSPORTATION EMISSION REDUCTION STRATEGY			
	On-Road Mobile Emissions Inventory	**Tulsa TTMA**	
NOx-wkday (Tons Per Day)	New Base 07	50.231	
	Control 12	47.603	
	Difference	-2.628	
	% difference	-5.23%	
VOC-wkday (Tons Per Day)	New Base 07	39.258	
	Control 12	39.238	
	Difference	-0.020	
	% difference	-0.05%	

Source: Environ

Monitoring update for June 2007

2007 TULSA OKLAHOMA OZONE

Highest 8 Hour Averages through 6/10/07

Site			1st	2nd	3rd	4th	04-06 Avg*	05-07 Avg*
04 4th	05 4th	06 4th	(date)	(date)	(date)	(date)	4th Highs	4th Highs
Tulsa West (144)			0.072	0.068	0.067	0.065	0.077	0.075
0.071	0.076	0.085	21-Apr	21-May	20-May	13-May		
Tulsa East (178)			0.071	0.069	0.068	0.067	0.079	0.077
0.073	0.081	0.084	21-Apr	13-May	21-May	14-May		
Tulsa Central (1127)			0.069	0.065	0.063	0.062	0.077	0.075
0.068	0.082	0.081	21-Apr	20-May	6-Jun	21-May		
Tulsa North (137)			0.070	0.070	0.069	0.069	0.079	0.078
0.071	0.083	0.084	21-Apr	20-May	13-May	21-May		
Tulsa South (174)			0.069	0.067	0.067	0.066	0.073	0.072
0.071	0.072	0.078	21-Apr	20-May	21-May	14-Jun		

*0.085 or greater indicates exceedance of National Ambient Air Quality Standards

Tulsa's ozone design value has improved from an 88ppb in 1999, our modeling base year , to 79ppb in 2006.

The exceedance days for Tulsa are listed below.

Year	Number of days	sites
2007	?	5
2006	9	5
2005	6	5
2004	0	5
2003	9	5
2002	6	5
2001	7	5
2000	10	4
1999	14	3