

REQUEST FOR REDESIGNATION AND
MAINTENANCE PLAN FOR
OZONE ATTAINMENT
IN THE EIGHT-HOUR OZONE BASIC
NONATTAINMENT AREA

Toledo, OH:
Lucas and Wood County

Developed By:
Ohio Environmental Protection Agency
Division of Air Pollution Control

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**TOLEDO, OH:
Lucas and Wood Counties**

CHAPTER ONE

Introduction

The Clean Air Act (CAA) requires areas failing to meet the National Ambient Air Quality Standard (NAAQS) for ozone to develop State Implementation Plans (SIP's) to expeditiously attain and maintain the standard. In 1997, the United States Environmental Protection Agency (U.S. EPA) revised the air quality standards for ozone replacing the 1979 one-hour standard with an eight-hour ozone standard set at 0.08 parts per million (ppm.) The standard was challenged legally and upheld by the U.S. Supreme Court in February of 2001.

On April 30, 2004, U.S. EPA designated 134 nonattainment areas for the eight-hour ozone standard. Since that time, U.S. EPA has reclassified nine of the 134 original nonattainment areas to the next lower classification. Section 107(d)(3)(E) of the CAA allows states to request nonattainment areas be redesignated to attainment providing certain criteria are met. The following are the criteria that must be met in order for an area to be redesignated from nonattainment to attainment:

- i)* A determination that the area has attained the eight-hour ozone standard.
- ii)* An approved SIP for the area under Section 110(k).
- iii)* A determination that the improvement in air quality is due to permanent and enforceable reductions in emissions resulting from implementation of the SIP and other federal requirements.
- iv)* A fully approved maintenance plan under Section 175(A).
- v)* A determination that all Section 110 and Part D requirements have been met.

Background

As part of the 1990 CAA Amendments re-evaluation, the Toledo, OH area was designated Moderate Nonattainment for the one-hour ozone standard pursuant to the CAA and therefore, has been subject to nonattainment area rule-makings. The Toledo, OH area was redesignated to attainment with respect to the one-hour ozone standard on August 1, 1995 (60FR39115). A maintenance plan was approved at that time as well. As a result of the 2004 ozone designations, U.S. EPA designated the Toledo, OH area basic nonattainment and subject to the eight-hour ozone requirements, including development of a plan to reduce volatile organic compounds (VOCs) and oxides of nitrogen (NO_x) emissions and a

demonstration that the area will meet the federal eight-hour air quality standard for ozone by June 2009.

This document is intended to support Ohio's request that the Toledo, OH area be redesignated from nonattainment to attainment for the eight-hour ozone standard. The Toledo, OH area has recorded three (3) years of complete, quality-assured ambient air quality monitoring data for the years 2004 – 2006 demonstrating attainment of the eight-hour ozone standard.

Geographical Description

The Toledo, OH nonattainment area includes Lucas and Wood Counties which are located in northwest Ohio. Lucas County contains the City of Toledo and Wood County contains the City of Bowling Green. Lucas County is bordered by Lake Erie to the north and east, Wood to the south and Fulton and Henry to the west. The Toledo, OH nonattainment area is shown in Figure 1.

Status of Air Quality

Ozone monitoring data for the most recent three (3) years, 2004 through 2006, demonstrates that the air quality has met the NAAQS for ozone in this basic nonattainment area. The NAAQS attainment, accompanied by decreases in emission levels discussed in Chapter four, supports a redesignation to attainment for Toledo, OH area based on requirements in Section 107(d)(3)(E) of the CAA.

CHAPTER TWO

Requirements for Redesignation

U.S. EPA has published detailed guidance in a document entitled *Procedures for Processing Requests to Redesignate Areas to Attainment* (redesignation guidance), issued September 4, 1992, to Regional Air Directors. This request for redesignation and maintenance plan is based on the redesignation guidance, supplemented with additional guidance received from staff of U.S. EPA Region V.

Below is a summary of each redesignation criterion as it applies to the Toledo, OH area.

i.) Attainment of the standard:

There are two components involved in making this demonstration. The first component relies on ambient air quality data. The data that are used to demonstrate attainment should be the product of ambient monitoring that is representative of the area of highest concentration. The data should be collected and quality-assured in accordance with 40 CFR 58 and recorded in the Air Quality System (AQS) in order for it to be available to the public for review.

The second component relies upon supplemental U.S. EPA-approved air quality modeling. The supplemental modeling is not required for ozone nonattainment areas seeking redesignation. However, in Appendix C the most recent modeling results showing future attainment and maintenance are provided. Chapter three discusses this requirement in more detail and provides the attainment demonstration.

ii.) SIP approval:

The SIP for the area must be fully approved under Section 110(k) and must satisfy all requirements that apply to the area. Ohio's SIP was approved on May 9, 1994 (59FR23799), March 23, 1995 (60FR15235) and August 1, 1995 (60FR39115) and includes the Toledo, OH area. Chapter five discusses this requirement in more detail and provides the attainment demonstration.

iii.) Permanent and enforceable improvement in air quality:

The state must be able to reasonably attribute the improvement in air quality to emission reductions which are permanent and enforceable. The state should estimate the percent reduction achieved from federal measures as well as control measures that have been adopted and implemented by the state.

The Toledo, OH area was designated Moderate Nonattainment for ozone as part of the 1990 CAA Amendments re-evaluation. As a result, Ohio has adopted or implemented control measures beyond the federal measures, the

initial 1979 statewide rules and those 1994 and 1995 rules which applied to “rural” attainment areas. Chapters four and five discuss this requirement in more detail and provide the attainment demonstration.

iv.) Section 110 and Part D requirements:

For purposes of redesignation, a state must meet all requirements of Section 110 and part D that were applicable prior to submittal of the complete redesignation request.

Part D consists of general requirements applicable to all areas which are designated nonattainment based on a violation of the NAAQS.

i.) Section 172(c) requirements

This section contains general requirements for nonattainment plans. The requirements for reasonable further progress, identification of certain emissions increases, and other measures needed for attainment will not apply for redesignations because they only have meaning for areas not attaining the standard. The requirements for an emission inventory will be satisfied by the inventory requirements of the maintenance plan. Chapter four discusses this requirement in more detail.

ii.) Conformity

The state must work with U.S. EPA to show that its SIP provisions are consistent with section 176(c)(4) conformity requirements. The redesignation request should include conformity procedures, if the state already has these procedures in place. If a state does not have conformity procedures in place at the time that it submits a redesignation request, the state must commit to follow U.S. EPA’s conformity regulation upon issuance, as applicable.

v.) Maintenance plans.

Section 107(d)(3)(E) stipulates that for an area to be redesignated, U.S. EPA must fully approve a maintenance plan which meets the requirements of Section 175(A). The maintenance plan will constitute a SIP revision and must provide for maintenance of the relevant NAAQS in the area for at least 10 years after redesignation. Section 175 (A) further states that the plan shall contain such additional measures, if any, as may be necessary to ensure such maintenance.

In addition, the maintenance plan shall contain such contingency measures as the Administrator deems necessary to ensure prompt correction of any violation of the NAAQS. At a minimum, the contingency measures must include a requirement that the state will implement all measures contained in the nonattainment SIP prior to redesignation.

States seeking redesignation of a nonattainment area should consider the following provisions:

- a.) attainment inventory;
- b.) maintenance demonstration;
- c.) monitoring network;
- d.) verification of continued attainment; and
- e.) contingency plan.

Chapter six discusses this requirement in more detail and provides the attainment demonstration.

OZONE MONITORING

CAA Section 107 (d)(3)(E)(i)

Requirement 1 of 4:

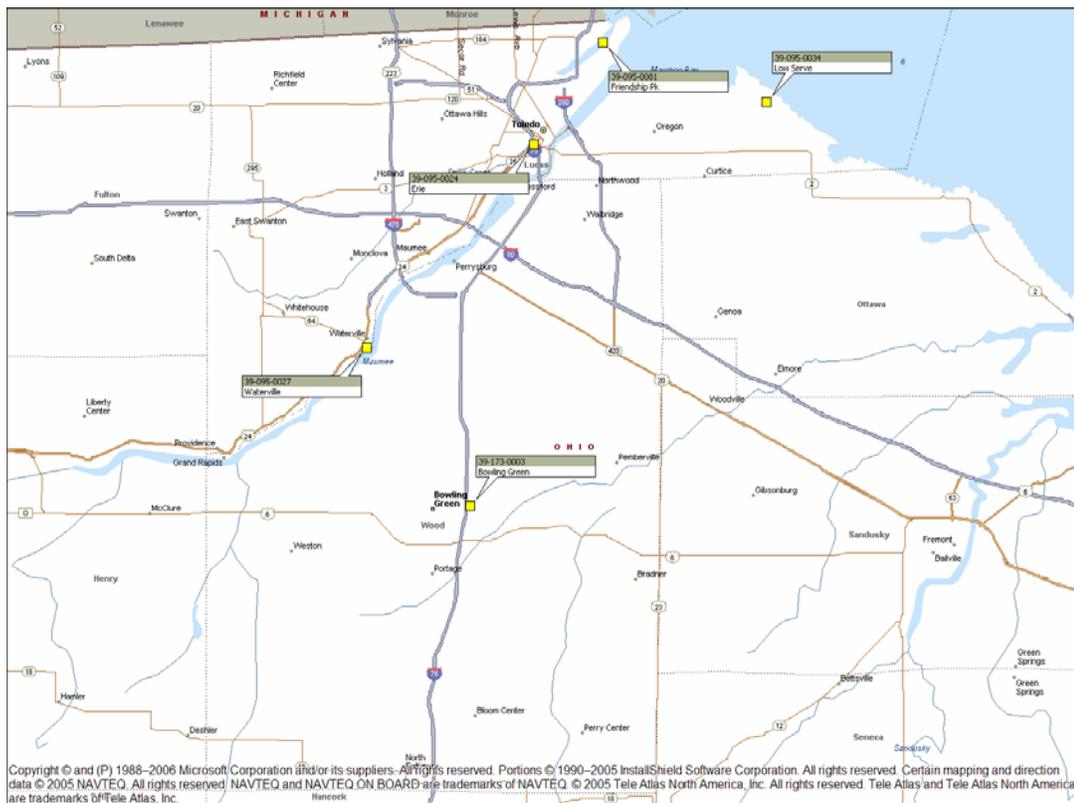
A demonstration that the NAAQS for ozone, as published in 40 CFR 50.4, have been attained. Ozone monitoring data must show that violations of the ambient standard are no longer occurring.

Background:

There are five monitors measuring ozone concentrations in this nonattainment area. The monitor located in Wood County is currently operated by the Ohio Environmental Protection Agency (Ohio EPA) Northwest District Office, Division of Air Pollution Control and the monitors located in Lucas County are operated by the Toledo Division of Environmental Services. The locations of the monitoring sites for this nonattainment area are shown on Figure 1.

Demonstration:

Figure 1 Map of Toledo, OH area



Requirement 2 of 4:

Ambient monitoring data quality assured in accordance with 40 CFR 58.10, recorded in the U.S. EPA air quality system (AQS) database, and available for public view.

Demonstration:

Ohio EPA has quality assured all data shown in Appendix A in accordance with 40 CFR 58.10 and the Ohio Quality Assurance Manual. Ohio EPA has recorded the data in the AQS database and therefore data are available to the public.

Requirement 3 of 4:

A showing that the three-year average of the fourth highest values, based on data from all monitoring sites in the area or its affected downwind environs, are below 85 parts per billion (ppb). This showing must rely on three (3) complete, consecutive calendar years of quality assured data.

Background:

The following information is taken from U.S. EPA's "Guideline on Data Handling Conventions for the eight-hour Ozone National Ambient Air Quality Standard (NAAQS)," U.S. EPA-454/R-98-017, December 1998.

Three (3) complete years of ozone monitoring data are required to demonstrate attainment at a monitoring site. The eight-hour primary and secondary ozone ambient air quality standards are met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.08 ppm. When this occurs, the site is said to be in attainment. Three (3) significant digits must be carried in the computations. Because the third decimal digit, in ppm, is rounded, 0.084 ppm is the largest concentration that is less than or equal to 0.08 ppm. Therefore, for the purposes of this request, the eight-hour standard is considered to be 0.085 ppm. Values below 0.085 ppm meet the standard, values equal to or greater than 0.085 ppm exceed the standard. These data handling procedures are applied on an individual basis at each monitor in the area. An area is in compliance with the eight-hour ozone NAAQS if, and only if, every monitoring site in the area meets the NAAQS. An individual site's three (3) year average of the annual fourth highest daily maximum eight-hour average ozone concentration is also called the site's design value.

Table 1 shows the monitoring data for the three most recent years, 2004 - 2006, in the nonattainment area and was retrieved from the U.S. EPA AQS. *Please note that the standard is measured in ppm while the commonly used unit is ppb. For the remainder of this document, ppb will be used.*

Demonstration:

Table 1: Monitoring Data for Toledo, OH area 2004 – 2006

Data source: U.S. EPA Air Quality System (AQS).
<http://www.epa.gov/ttn/airs/airsaqs/index.htm>

Please note: 2006 data is not yet validated.

SITE ID	COUNTY	ADDRESS	YEAR	%OBS	1 st 8-HR	2 nd 8-HR	3 rd 8-HR	4 th 8-HR	2004-2006 AVERAGE
39-095-0024	Lucas	Erie	2004	99	72	72	72	67	74
39-095-0024	Lucas	Erie	2005	100	92	91	84	80	
39-095-0024	Lucas	Erie	2006	99	81	79	76	75	
39-095-0027	Lucas	Waterville	2004	100	76	76	76	74	75
39-095-0027	Lucas	Waterville	2005	100	89	88	87	84	
39-095-0027	Lucas	Waterville	2006	100	79	77	72	69	
39-095-0034	Lucas	Low Serve	2004	100	90	79	79	78	79
39-095-0034	Lucas	Low Serve	2005	99	108	92	89	87	
39-095-0034	Lucas	Low Serve	2006	100	79	77	74	74	
39-095-0081	Lucas	Friendship	2004	99	86	79	78	78	79
39-095-0081	Lucas	Friendship	2005	100	101	94	90	87	
39-095-0081	Lucas	Friendship	2006	98	80	80	75	74	
39-173-0003	Wood	Bowling Gr	2004	100	79	78	77	76	77
39-173-0003	Wood	Bowling Gr	2005	100	92	86	85	84	
39-173-0003	Wood	Bowling Gr	2006	100	81	80	75	73	
Highest Average									79 ppb

A comprehensive list of the site’s design values during the 2004-2006 time period is in Appendix A. The area’s design value has trended downward as emissions have declined due to such factors as cleaner automobiles and fuels both regionally and locally.

Requirement 4 of 4:

A commitment that once redesignated, the state will continue to operate an appropriate monitoring network to verify the maintenance of the attainment status.

Demonstration:

Ohio commits to continue monitoring ozone levels at the site indicated in Figure 1. Ohio EPA will consult with U.S. EPA Region V staff prior to making changes to the existing monitoring network, should changes become necessary in the future. Ohio EPA will continue to quality assure the monitoring data to meet the requirements of 40 CFR 58. Connection to a central station and updates to the Ohio EPA Web site¹ will provide real time availability of the data and knowledge of any exceedances. Ohio EPA will

¹ www.epa.state.oh.us/dapc/

enter all data into AQS on a timely basis in accordance with federal guidelines.

CHAPTER FOUR

EMISSION INVENTORY

CAA Section 107 (d)(3)(E)(iii)

U.S. EPA's redesignation guidance requires the submittal of a comprehensive inventory of ozone precursor emissions (VOC and NO_x) representative of the year when the area achieves attainment of the ozone air quality standard. Ohio also must demonstrate that the improvement in air quality between the year that violations occurred and the year that attainment was achieved is based on permanent and enforceable emission reductions. Other emissions inventory related requirements include a projection of the emission inventory to a year at least 10 years following redesignation; a demonstration that the projected level of emissions is sufficient to maintain the ozone standard; and a commitment to provide future updates of the inventory to enable tracking of emission levels during the ten(10) year maintenance period.

Requirement 1 of 5:

A comprehensive emission inventory of the precursors of ozone completed for the base year.

Background:

The point source data are taken from Ohio's annual emissions reporting program. The 2002 periodic inventory has been identified as the preferred data base for SIP development and does coincide with nonattainment air quality in the Toledo, OH area.

Periodic inventories, which include emissions from all sectors - mobile, area, non-road, and point sources - are prepared every three (3) years.

Demonstration:

While ozone and its precursors are transported into this region from outside areas, information from current and previous SIP modeling efforts does provide some indication of the impact from Ohio sources near the nonattainment area. The emissions are decreasing substantially in response to regional and national programs affecting many EGUs such as the Acid Rain program and the NO_x SIP Call.

Requirement 2 of 5:

A projection of the emission inventory to a year at least 10 years following redesignation.

Background:

Ohio EPA prepared a comprehensive inventory for the Toledo, OH area, including area, mobile, and point sources for precursors of ozone (volatile organic compounds and nitrogen oxides) for base year 2002. The information below describes the procedures Ohio EPA used to generate the

2002 base inventories and to develop SIP ready modeling inventories and future year projections. These inventories were provided to the Lake Michigan Air Directors' Consortium (LADCO) and have been processed to develop summer day emissions for use in the air quality analyses. These processed modeling inventories have been identified as the correct iteration of the inventory for use in the redesignation. In this document, references to LADCO include the Midwest Regional Planning Organization.

- Area sources were taken from the Ohio 2002 periodic inventory submitted to U.S. EPA. These projections were made from the U.S. Department of Commerce Bureau of Economic Analysis (BEA) growth factors, with some updated local information.
- Mobile source emissions were calculated using emissions factors produced with MOBILE6.2.
- Point source information was compiled from Ohio EPA's 2002 annual emissions inventory database and the 2002 U.S. EPA Air Markets acid rain database².
- Biogenic emissions are not included in these summaries.
- Non-road emissions were generated using U.S. EPA's National Mobile Inventory Model (NMIM) 2002 application. To address concerns about the accuracy of some of the categories in U.S. EPA's non-road emissions model, LADCO contracted with two (2) companies to review the base data and make recommendations. One of the contractors also estimated emissions for three (3) non-road categories not included in U.S. EPA's non-road model. Emissions were estimated for aircraft, commercial marine vessels and railroads. Recreational motorboat population and spatial surrogates (used to assign emissions to each county) were significantly updated. The populations for the construction equipment category were reviewed and updated based upon surveys completed in the Midwest and the temporal allocation for agricultural sources also was updated.

The report by Pechan generated future year estimates of annual emissions for each source sector using accepted growth surrogates. The on-road mobile source sector however was addressed by specific modeling as addressed below.

Demonstration:

On-Road Emission Estimations

In coordination with the Ohio Department of Transportation (Ohio DOT) the Toledo Metropolitan Area Council of Governments (TMACOG) utilizes a regional travel demand forecast model to simulate traffic in the area and to

² <http://www.epa.gov/airmarkets/acidrain>

forecast traffic flows for given growth expectations. The model is primarily used as a long range planning tool to evaluate the transportation system including determination of locations where additional travel capacity may be needed and to determine the infrastructure requirements necessary to meet that need. It is also used as a tool for air quality purposes to estimate the total emissions of pollution caused by vehicles in the area. The travel demand forecasting model is used to predict the total daily vehicle miles traveled (VMT) and an EPA computer program called MOBILE6.2 is used to calculate emissions per mile. The product of these is the total amount of pollution emitted by the on-road vehicles for the particular analyzed area. In areas outside the regional travel demand model, traffic counts and statewide traffic growth rates are used for the VMT estimates.

Overview

Broadly described, MOBILE6.2 is used to generate “emission factors”, which are the average emissions per mile (grams/mile) for ozone precursors, NO_x and VOC. The MOBILE6.2 model includes a number of variables that affect the emission factors. These variables have national default values, some of which require modification to reasonably reflect local conditions. Some of these variables are discussed here. The vehicle fleet (vehicles on the road) age and the vehicle type have a major effect on the emission factors. The vehicle types are traveling on facility types. Vehicle speeds affect the emission factor values. Meteorological conditions such as air temperature and humidity also significantly affects emission factors. Emission factors produced by MOBILE6.2 can include the effect of emission reduction strategies such as vehicle inspection and maintenance programs, regulation of fuels, etc. These MOBILE6.2 inputs are estimated using the best available data and are reviewed and agreed to by U.S. EPA and transportation agencies in a formal interagency consultation process.

There are a number of ways emission factors from MOBILE6.2 can be used with the travel demand model information. One of the simplest methods is to input extensive vehicle fleet, area-specific speed and facility type information MOBILE6.2 to generate a single emission factor that represents the average for all vehicles and facility types in the modeled area. This only requires multiplying this emission factor by the total VMT of the analyzed area to get the total emissions for the area. Another method is to create multi-dimensional emission factor “look-up” tables that describe the emission factors by speed, temperature, and facility type. This requires more extensive processing, but the resulting total emissions of this method are more sensitive to even minor changes in the roadway system. Tables of emission factors are created using MOBILE6.2 for each facility type, temperature, and speed given the vehicle fleet on that facility. Then, the travel model provides information on each segment of road (or “link”) regarding speed and facility type which is then “looked-up” in the appropriate

emission factor table. It should be noted that speed is estimated as a post process to the travel demand model. Speeds are not taken directly from the travel demand model. The post process for emissions analysis by Ohio DOT is by hour of day. This emission factor is multiplied by the link's traffic-volume and length or VMT to get the emissions from that link for that hour. There are other methods as well, each with its advantages and disadvantages. The Toledo, OH area analysis uses the latter more complex method, a table of emission factors.

It should be noted that each year analyzed will have different emission factors, volumes, speeds and roadway networks.

Some of the assumptions built into MOBILE6.2 are: older vehicles have much higher emission factors than newer vehicles, diesel vehicles have much higher NO_x emission factors and lower VOC emission factors than gasoline vehicles, and higher average speeds have lower emission factors except for diesel vehicles which have higher NO_x at higher speeds. MOBILE6.2 input and output files are provided in Appendix C.

Best Available Data

The most current vehicle age distribution data, temperature data, and fuel properties data provided by Ohio EPA was used by Ohio DOT for generating emission factors. Likewise, the most current transportation planning data available from TMACOG and the most current Ohio DOT count data was used by the Ohio DOT for the emissions estimates. Details about each data set and how it was used is documented in the "Technical Memorandum TMACOG Redesignation and Maintenance Plan Request (8-Hour Ozone)" dated December 2006.

Analysis Years

Analysis years for this redesignation request include 2002, 2004, 2009, and 2018 to meet the requirements specified by the CAA and U.S. EPA. The travel demand model presents the transportation system conditions for each of these years. Model runs for each future analysis year contain the road network TMACOG and Ohio DOT expects to exist at the beginning of that year with corresponding socioeconomic forecasts for that year.

Local Road VMT

Most local roads such as subdivision streets are not explicitly modeled in a travel demand model. These local roads are represented as fictitious roadways called centroid connectors. Local road VMT is included in the Ohio DOT post process by including the traffic loaded on centroid connectors. In addition, some local road traffic is captured as intra-zonal trips which travel demand models usually do not assign to roadway segments. The Ohio DOT post process includes these trips as local road VMT.

Emission Estimations

Table 2 contains the results of the emissions analysis for the appropriate years.

Table 2 Emission Estimations for On-Road Mobile Sources for Lucas County, Ohio

Data source: On-road only, TMACOG Travel Demand Model.

Lucas County	2002	2004	2009	2018
VMT (miles/day)	9,508,520	9,614,869	10,080,862	10,534,124
VOC (tons/day)	19.77	16.57	10.94	6.33
NO _x (tons/day)	31.51	27.05	18.42	7.62

Table 3 Emission Estimations for On-Road Mobile Sources for Wood County, Ohio

Data source: On-road only, TMACOG Travel Demand Model.

Wood County	2002	2004	2009	2018
VMT (miles/day)	5,249,244	5,362,131	5,629,172	6,158,775
VOC (tons/day)	9.93	8.41	5.57	3.41
NO _x (tons/day)	18.73	16.26	10.93	4.65

Table 4 Combined VOC and NO_x Emission Estimations for On-Road Mobile Sources for the Toledo, OH area.

Data source: On-road only, TMACOG Travel Demand Model.

County	VOC	2018
Lucas County, OH	VOC	6.33
Wood County, OH	VOC	3.41
TOTAL VOC		9.74
County	NO_x	
Lucas County, OH	NO _x	7.62
Wood County, OH	NO _x	4.65
TOTAL NO_x		12.27

Motor Vehicle Emission Budget

Table 5 contains the motor vehicle emissions budget for the Toledo, OH area.

Table 5 Mobile Vehicle Emission Budget for Toledo, OH: Lucas and Wood County

Data source: On-road only, TMACOG Travel Demand Model.

	2009	2018
VOC (tons/day)	*18.99	*11.20
NO _x (tons/day)	*33.75	*14.11

***includes 15 percent**

This budget includes the emission estimates calculated for 2009 and 2018. The emission estimates are derived from the Tranplan travel demand model and MOBILE6.2 as described above under the expected TMACOG 2035 Long Range Plan. The mobile source budget for 2009 includes 18.99 tons per summer day (tpd) for VOC and 33.75 tpd for NO_x. The mobile source budget for 2018 includes 11.20 tpd for VOC and 14.11 tpd for NO_x. These correspond to a 15 percent increase from the 2018 on-road emissions for both VOC and NO_x. Appendix C contains data tables and graphs of these emissions.

All methodologies, latest planning assumptions and the safety margins were determined through the interagency consultation process described in the Transportation Conformity Memorandum of Understanding (MOU) for TMACOG.

The current 1-hour budgets will no longer be applicable either after the effective date of the approved redesignation or after the effective date of any U.S. EPA action approving a finding that the eight-hour conformity budget included in this submittal adequate for transportation conformity purposes whichever date comes first.

Requirement 3 of 5:

A demonstration that the projected level of emissions is sufficient to maintain the ozone standard.

Background:

In consultation with U.S. EPA, Ohio EPA selected the year 2018 as the maintenance year for this redesignation request. This document contains projected emissions inventories for 2009 and 2018.

TMACOG performed emission projections for Toledo, OH area using the following approaches.

- Mobile source emission projections are based on the U.S. EPA MOBILE6.2 model. The analysis is described in more detail in

Appendix C. All projections were made in accordance with "Procedures for Preparing Emissions Projections" U.S. EPA-45/4-91-019.

- Emissions inventories are required to be projected to future dates to assess the influence growth and future controls will have. LADCO developed growth and control files for point, area, and non-road categories. These files were used to develop the future year emissions estimates used in this document. This was done so the inventories used for redesignation are consistent with modeling performed in the future.

The detailed inventory information for the Toledo, OH area for 2002, 2004, 2009 and 2018 is in Appendix B. Emission trends are an important gauge for continued compliance with the ozone standard. Therefore, Ohio EPA performed an initial comparison of the inventories for the base year and maintenance years for Lucas and Wood counties. Mobile source emission inventories are described in Appendix B. In addition to the LADCO estimates, point source emissions were projected based upon the statewide EGU NO_x budgets from the Ohio NO_x rule.

The following tables include sectors Electrical Generating Unit (EGU-Point), Non-Electrical Generating Unit (Non-EGU), Non-road Mobile (Non-road), Other Area (Other), Marine, Aircraft, Rail (MAR), On-road Mobile (On-road). Maintenance is demonstrated when the future year projected emission totals (2018 total) are below the 2004 attainment year total.

Demonstration:

Table 6 Lucas County VOC Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

Sector	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
EGU Point	0.15	0.15	0.17	0.15	
Non-EGU	7.50	7.29	6.75	7.52	
Non-road	8.17	7.35	5.32	n/a	
Other	22.71	22.78	22.97	25.06	
MAR	0.32	0.31	0.30	0.30	
On-road	19.77	16.57	10.94	6.33	
TOTAL	58.62	54.45	46.45	39.36	15.09

Table 7 Wood County VOC Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

Sector	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
EGU Point	n/a	n/a	n/a	n/a	
Non-EGU	0.49	0.43	0.29	0.32	
Non-road	2.58	2.38	1.90	n/a	
Other	7.91	7.77	7.43	7.54	
MAR	0.28	0.27	0.26	0.27	
On-road	9.93	8.41	5.57	3.41	
TOTAL	21.19	19.26	15.45	11.54	7.72

Table 8 Toledo, OH area VOC Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
Lucas County	58.62	54.45	46.45	39.36	
Wood County	21.19	19.26	15.45	11.54	
COMBINED VOC TOTAL	79.81	73.71	61.90	50.90	22.81

Table 9 Lucas County NO_x Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

Sector	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
EGU Point	24.91	22.57	16.73	3.83	
Non-EGU	13.97	12.97	10.47	9.03	
Non-road	8.54	7.96	6.51	n/a	
Other	0.97	1.03	1.17	1.18	
MAR	8.26	7.72	6.37	6.05	
On-road	31.51	27.05	18.42	7.62	
TOTAL	88.16	79.30	59.67	27.71	51.59

Table 10 Wood County NO_x Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

Sector	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
EGU Point	n/a	n/a	0.02	0.04	
Non-EGU	n/a	n/a	n/a	n/a	
Non-road	3.87	3.63	3.05	n/a	
Other	0.64	0.67	0.74	0.79	
MAR	6.19	5.51	3.83	3.60	
On-road	18.73	16.26	10.93	4.65	
TOTAL	29.43	26.07	18.57	9.08	16.99

Table 11 Toledo, OH area NO_x Emission Inventory Totals for Base Year 2002, Estimated 2004 and Projected 2009 and 2018 (tons per summer day)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2002 Base	2004 Attainment	2009 Interim	2018 Maintenance	Safety Margin
Lucas County	88.16	79.30	59.67	27.71	
Wood County	29.43	26.07	18.57	9.08	
COMBINED NO_x TOTAL	117.59	105.37	78.24	36.79	68.58

Table 12 Lucas County Comparison of 2004 attainment year and 2018 projected emission estimates (tons per day, summer)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2004	2018	Projected Decrease
VOC	54.45	39.36	15.09
NO_x	79.30	27.71	51.59

Table 13 Wood County Comparison of 2004 attainment year and 2018 projected emission estimates (tons per day, summer)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2004	2018	Projected Decrease
VOC	19.26	11.54	7.72
NO_x	26.07	9.08	16.99

Table 14 Toledo, OH area Combined Comparison of 2004 attainment year and 2018 projected emission estimates (tons per day, summer)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2004	2018	Projected Change
VOC	73.71	50.90	22.81
NO_x	105.37	36.79	68.58

VOC emissions in the non-attainment area are projected to decrease 29.65 tons per day (tpd). Area source emissions and, to a lesser extent, point sources, show an increase due to expectations that the population will grow in this area. However, cleaner vehicles and fuels are expected to be in place in 2009 and 2018 and result in an overall drop in VOC emissions.

NO_x emissions in the nonattainment area are projected to decrease by 76.17 tpd. Decreases from U.S. EPA rules covering Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements³, Highway Heavy-Duty Engine Rule⁴ and Non-Road Diesel Engine Rule⁵ also factored into the changes. Further, due to implementation of the NO_x SIP Call across the eastern United States, NO_x and ozone levels entering this area also will be decreased.

Requirement 4 of 5:

A demonstration that improvement in air quality between the year violations occurred and attainment was achieved is based on permanent and enforceable emission reductions and not on temporary adverse economic conditions or unusually favorable meteorology.

Background:

Ambient air quality data from the monitoring site indicates that air quality met the NAAQS for ozone in 2005. U.S. EPA's redesignation guidance (p 9) states, "A state may generally demonstrate maintenance of the NAAQS by either showing that future emissions of a pollutant or its precursors will not exceed the level of the attainment inventory, or by modeling to show that the future mix of sources and emissions rates will not cause a violation of the NAAQS."

In Ohio, major point sources in all counties are required to submit air emissions information once every three (3) years or annually if VOC potential to emit is greater than 250 tons or NO_x potential to emit is greater than 2500 tons, in accordance with U.S. EPA's Consolidated Emissions Reporting Rule (CERR). Ohio EPA prepares a new periodic inventory for all ozone precursor emission sectors every three (3) years. These ozone precursor inventories will be prepared for 2005, 2008, and 2011 as necessary to comply with the inventory reporting requirements established in the CFR. Emissions information will be compared to the 2002 base year and the 2018 projected maintenance year inventories to assess emission trends, as necessary, to assure continued compliance with the ozone standard.

Demonstration:

Permanent and enforceable reductions of volatile organic compounds and oxides of nitrogen have contributed to the attainment of the eight-hour ozone standard. Some of these reductions were due to the application of tighter federal standards on new vehicles. Also, Title IV of the CAA and the NO_x SIP Call required the reduction of oxides of nitrogen from utility sources. While no EGU reductions occurred within Toledo, OH area, statewide NO_x

³ <http://www.epa.gov/fedrgstr/EPA-AIR/2000/February/Day-10/a19a.htm>

⁴ <http://www.epa.gov/fedrgstr/EPA-AIR/1997/October/Day-21/a27494.htm>

⁵ <http://www.epa.gov/fedrgstr/EPA-AIR/1998/October/Day-23/a24836.htm>

reductions from EGUs were over 85 percent due to this program.

Table 15 Toledo, OH area Comparison of 2002 base year and 2004 attainment year on-road and EGU reductions (tons per day, summer)

Data source: Midwest Regional Planning Organization (MRPO) and Lake Michigan Air Directors Consortium (LADCO) Web site:
http://www.ladco.org/tech/emis/basek/BaseK_Reports.htm.

Data source: On-road only, TMACOG Travel Demand Model.

	2002	2004
On-road VOC	29.70	24.98
On-road NO _x	50.24	43.31
EGU NO _x	24.91	22.57

Requirement 5 of 5:

Provisions for future annual updates of the inventory to enable tracking of the emission levels including an annual emission statement from major sources.

Demonstration:

As required by Section 175A(b) of the CAA, Ohio commits to submit to the Administrator, eight (8) years after redesignation, an additional revision of this SIP. The revision will contain Ohio's plan for maintaining the national primary ozone air quality standard for 10 years beyond the first 10 year period after redesignation.

CHAPTER FIVE

CONTROL MEASURES AND REGULATIONS

CAA Section 107(d)(3)(E)(ii), 107(d)(3)(iv) & 107(d)(3)(E)(v)

Requirement 1 of 4:

U.S. EPA approved SIP control strategy that includes RACT requirements for existing stationary sources covered by Control Technology Guidelines (CTG) as applied in Ohio's rural counties.

Background:

As required by Section 172 of the 1990 CAA Amendments, in the mid-1990's Ohio promulgated rule requiring RACT for emissions of VOCs. There were no specific rules required by the CAA such as RACT for existing sources beyond statewide rules.

Demonstration:

Statewide RACT rules have been applied to all new sources locating in Ohio since that time. The Ohio rules are found in OAC Chapter 3745-21.

Requirement 2 of 4:

Evidence that control measures required in past ozone SIP revisions have been fully implemented.

Background:

The U.S. EPA NO_x SIP Call required 22 states to pass rules that would result in significant emission reductions from large EGUs, industrial boilers, and cement kilns in the eastern United States. Ohio passed this rule in 2001. Beginning in 2004, this rule accounted for a reduction of approximately 31 percent of all NO_x emissions statewide compared to previous uncontrolled years. The other 21 states also have adopted these rules.

The Toledo, OH area also implemented rules as part of the 15 percent rate of progress demonstration. These measures included Non-CTG RACT, NESHAP and enforcement cases. These rules were also assumed to be in place as part of the maintenance plan following the one-hour redesignation.

Demonstration:

U.S. EPA and Ohio EPA performed modeling that indicated this area would attain the eight-hour ozone standard with the implementation of the NO_x SIP Call. Controls for EGUs formally commenced May 31, 2004. Emissions covered by this program have been generally trending downward since 1998 with larger reductions occurring in 2002 and 2003. Data taken from U.S. EPA Clean Air Markets Web site, quantifies the gradual NO_x reductions that have occurred in Ohio as a result of Title IV of the 1990 CAA Amendments and the beginning of the NO_x SIP Call Rule. Ohio developed the NO_x Budget Trading Program rules in OAC Chapter 3745-14 in response to the SIP Call. OAC chapter 3745-14 regulated EGUs and certain non-EGUs under a cap and

trade program based on an 85 percent reduction of NO_x emissions from EGUs and a 60 percent reduction of NO_x emissions from non-EGUs, compared to historical levels. This cap will stay in place through 2008, at which time the CAIR program will supersede it.

U.S. EPA has recently published Phase II of the NO_x SIP Call that establishes a budget for large (greater than 1 ton per day emissions) stationary internal combustion engines. Ohio EPA's proposed rule OAC 3745-14-12 addresses stationary internal combustion engines, all used in natural gas pipeline transmissions. An 82 percent NO_x reduction from 1995 levels is anticipated. Completion of the compliance plan is expected by May 1, 2006 and the compliance demonstration will begin May 1, 2007. The 2007 controlled NO_x emissions will be 599 tons per day.

Tier II Emission Standards for Vehicles and Gasoline Sulfur Standards

In February 2000, U.S. EPA finalized a federal rule to significantly reduce emissions from cars and light trucks, including sport utility vehicles (SUVs). Under this proposal, automakers will be required to sell cleaner cars, and refineries will be required to make cleaner, lower sulfur gasoline. This rule will apply nationwide. The federal rules will phase in between 2004 and 2009. U.S. EPA has estimated that NO_x emission reductions will be approximately 77 percent for passenger cars, 86 percent for smaller SUVs, light trucks, and minivans, and 65 to 95 percent reductions for larger SUVs, vans, and heavier trucks. VOC emission reductions will be approximately 12 percent for passenger cars, 18 percent for smaller SUVs, light trucks, and minivans, and 15 percent for larger SUVs, vans, and heavier trucks.

Heavy-Duty Diesel Engines

In July 2000, U.S. EPA issued a final rule for Highway Heavy Duty Engines, a program which includes low-sulfur diesel fuel standards, which will be phased in from 2004 through 2007. This rule applies to heavy-duty gasoline and diesel trucks and buses. This rule will result in a 40 percent reduction in NO_x from diesel trucks and buses, a large sector of the mobile sources NO_x inventory.

Clean Air Non-road Diesel Rule

In May 2004, U.S. EPA issued the Clean Air Non-road Diesel Rule. This rule applies to diesel engines used in industries such as construction, agriculture, and mining. It also contains a cleaner fuel standard similar to the highway diesel program. The new standards will cut emissions from non-road diesel engines by more than 90 percent. Non-road diesel equipment, as described in this rule, currently accounts for 47 percent of diesel particulate matter and 25 percent of NO_x from mobile sources nationwide. Sulfur levels will be reduced in non-road diesel fuel by 99 percent from current levels, from approximately 3,000 ppm now to 15 ppm in 2009.

Together, these rules will substantially reduce local and regional sources of ozone precursors.

Requirement 3 of 4:

Acceptable provisions to provide for new source review.

Background:

Ohio has a long standing and fully implemented New Source Review (NSR) program. This is addressed in OAC Chapter 3745-31. The chapter includes provisions for the Prevention of Significant Deterioration (PSD) permitting program in OAC 3745-31-01 to 3745-31-20. Ohio's PSD program was conditionally approved on October 10, 2001 (66 FR 51570) and received final approval on January 22, 2003 (68FR 2909) by U.S. EPA as part of the SIP.

Demonstration:

Any facility that is not listed in the 2002 emission inventory, or for the closing of which credit was taken in demonstrating attainment, will not be allowed to construct, reopen, modify, or reconstruct without meeting all applicable permit rule requirement. The review process will be identical to that used for new sources. Once the area is redesignated, Ohio EPA will implement NSR through the PSD program.

Requirement 4 of 4:

Assure that existing controls will remain in effect after redesignation unless the State demonstrates through photochemical modeling that the standard can be maintained without one (1) or more controls.

Demonstration:

Ohio commits to maintaining the aforementioned control measures after redesignation. Ohio hereby commits that any changes to its rules or emission limits applicable to VOC and/or NO_x sources, as required for maintenance of the ozone standard in the Toledo, OH area, will be submitted to U.S. EPA for approval as a SIP revision.

Ohio, through Ohio EPA's Legal section, has the legal authority and necessary resources to actively enforce any violations of its rules or permit provisions. After redesignation, it intends to continue enforcing all rules that relate to the emission of ozone precursors in the Toledo, OH area.

LADCO Modeling Analysis for 8-Hour Ozone Standard Assessment

LADCO performed modeling to evaluate the effect of the NO_x SIP Call and Tier II / Low Sulfur rule for future year 2007 ozone in the Lake Michigan area. This modeling was originally designed to assess the one-hour ozone

standard. Further analysis was conducted and documented in the LADCO's White Paper "8-Hour Ozone Assessment" dated May 2, 2001. Base year design values used were the average of the design values for the three (3) three-year periods (1994-1996, 1995-1997, and 1996-1998). Base year emissions were taken from 1996 and four (4) ozone episodes were evaluated: June 22-28, 1991; July 14-21, 1991

While modeling results were not calculated for the Toledo, OH area, the average decrease in ozone from the base case modeling run with modeling runs that applied emission controls required by the CAA, NO_x SIP Call and Tier II /low-sulfur requirements was 15 ppb (2009 Future design value of 73.3ppb*.) [* LADCO Base K 2009 Future Base case with on-the-books" including CAIR].

LADCO Modeling for CAIR of 2004

On March 10, 2004, U.S. EPA promulgated CAIR. NO_x emissions will be cut from 4.5 million tons in 2004, to a cap of 1.5 million tons by 2009, and 1.3 million tons in 2018 in 28 eastern states and the District of Columbia.

LADCO performed modeling to support the associated emission reductions for CAIR. This modeling was based on 2001 – 2002 design values for Toledo, OH area. Results of the CAIR modeling show that the Toledo, OH area will continue to attain the eight-hour ozone NAAQS well into the future.

CHAPTER SIX

CONTINGENCY MEASURES

CAA Section 107(d)(3)(E)(v)

Requirement 1 of 4:

A commitment to submit a revised plan eight (8) years after redesignation.

Demonstration:

Ohio hereby commits to review its maintenance plan eight (8) years after redesignation, as required by Section 175(A) of the CAA.

Requirement 2 of 4:

A commitment to expeditiously enact and implement additional contingency control measures in response to exceeding specified predetermined levels (triggers) or in the event that future violations of the ambient standards occur.

Demonstration:

Ohio hereby commits to adopt and expeditiously implement necessary corrective actions in the following circumstances:

Warning Level Response:

A warning level response shall be prompted whenever an annual (1-year) fourth high monitored value of 85 ppb occurs in a single ozone season within the maintenance area. A warning level response will consist of a study to determine whether the ozone value indicates a trend toward higher ozone values or whether emissions appear to be increasing. The study will evaluate whether the trend, if any, is likely to continue and, if so, the control measures necessary to reverse the trend taking into consideration ease and timing for implementation as well as economic and social considerations. Implementation of necessary controls in response to a warning level response trigger will take place as expeditiously as possible, but in no event later than 12 months from the conclusion of the most recent ozone season (September 30).

Should it be determined through the warning level study that action is necessary to reverse the noted trend, the procedures for control selection and implementation outlined under “action level response” shall be followed.

Action Level Response:

An Action Level Response shall be prompted whenever a two-year average fourth high monitored value of 85 parts per billion (ppb) or greater occurs within the maintenance area. A violation of the standard (three-year average fourth high value of 85 ppb or greater) shall also prompt an action level response. In the event that the Action Level is triggered and is not found to be due to an exceptional event, malfunction, or noncompliance with a permit condition or rule requirement, Ohio EPA in conjunction with the metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of NAAQS

for ozone. In this case, measures that can be implemented in a short time will be selected in order to be in place within 18 months from the close of the ozone season that prompted the Action Level. Ohio EPA will also consider the timing of an Action Level Trigger and determine if additional, significant new regulations not currently included as part of the maintenance provisions (e.g., AIM and Consumer Products) will be implemented in a timely manner and will constitute our Response.

Control Measure Selection and Implementation:

Adoption of any additional control measures is subject to the necessary administrative and legal process. This process will include publication of notices, an opportunity for public hearing, and other measures required by Ohio law for rulemaking by state environmental boards.

If a new measure/control is already promulgated and scheduled to be implemented at the federal or state level, and that measure/control is determined to be sufficient to address the upward trend in air quality, additional local measures may be unnecessary. Furthermore, Ohio will submit to U.S. EPA an analysis to demonstrate the proposed measures are adequate to return the area to attainment.

Requirement 3 of 4:

A list of potential contingency measures that would be implemented in such an event.

Demonstration:

Contingency measures to be considered will be selected from a comprehensive list of measures deemed appropriate and effective at the time the selection is made. The selection of measures will be based on cost-effectiveness, emission reduction potential, economic and social considerations or other factors that Ohio EPA deems appropriate. Ohio EPA will solicit input from all interested and affected persons in the maintenance area prior to selecting appropriate contingency measures. Because it is not possible at this time to determine what control measure will be appropriate at an unspecified time in the future, the list of contingency measures outlined below is not comprehensive.

- 1) Lower Reid vapor pressure gasoline program.
- 2) Tighten RACT on existing sources covered by U.S. EPA Control Technique Guidelines issued in response to the 1990 CAA.
- 3) Apply RACT to smaller existing sources.

- 4) One or more transportation control measures sufficient to achieve at least half a percent reduction in actual area wide VOC emissions. Transportation measures will be selected from the following, based upon the factors listed above after consultation with affected local governments:
 - a) trip reduction programs, including, but not limited to, employer-based transportation management plans, area wide rideshare programs, work schedule changes, and telecommuting;
 - b) traffic flow and transit improvements; and
 - c) other new or innovative transportation measures not yet in widespread use that affects state and local governments deemed appropriate.
- 5) Alternative fuel and diesel retrofit programs for fleet vehicle operations.
- 6) Controls on consumer products consistent with those adopted elsewhere in the United States.
- 7) Require VOC or NO_x emission offsets for new and modified major sources.
- 8) Require VOC or NO_x emission offsets for new and modified minor sources.
- 9) Increase the ratio of emission offsets required for new sources.
- 10) Require VOC or NO_x controls on new minor sources (less than 100 tons).

No contingency measure shall be implemented without providing the opportunity for full public participation during which the relative costs and benefits of individual measures, at the time they are under consideration, can be fully evaluated.

Requirement 4 of 4:

A list of VOC and NO_x sources potentially subject to future controls.

Demonstration:

The following is a list of VOC and NO_x sources potentially subject to future controls.

NO_x RACT

- EGUs
- asphalt batching plants
- industrial/commercial and institutional boilers
- process heaters
- internal combustion engines
- combustion turbines
- other sources greater than 100 tons per year

VOC RACT

- consumer products
- architectural and industrial maintenance coatings
- stage I gasoline dispensing facilities (including pressure valves)
- automobile refinishing shops
- cold cleaner degreasers
- synthetic organic compound manufacturing
- organic compound batch processes
- wood manufacturing
- industrial wastewater
- aerospace industry
- shipbuilding
- bakeries
- plastic parts coating
- volatile organic liquid storage
- industrial solvent cleaning
- offset lithography
- industrial surface coating
- other sources greater than 50 tons per year

CHAPTER SEVEN

PUBLIC PARTICIPATION

Ohio will publish a notification for a public hearing and solicitation for public comment concerning the draft redesignation petition and maintenance plan in several widely distributed publications 30 days prior to the public hearings.

The public hearing to receive comments on the redesignation request will be held on February 6, 2007 at the Toledo Metropolitan Area Council of Governments, 300 Dr. Martin Luther King Jr. Drive, Toledo, Ohio. The public comment period will close on February 6, 2007. Appendix D will include a copy of the public notice, certifications of publication, and the transcript from the public hearing.

CHAPTER EIGHT

CONCLUSIONS

The Toledo, OH area basic nonattainment area has attained the NAAQS standard and complied with the applicable provisions of the 1990 Amendments to the CAA regarding redesignations of basic ozone nonattainment areas. Documentation to that effect is contained herein. Ohio EPA has prepared a state implementation and maintenance plan that meets the requirement of Section 110 (a)(1) of the 1990 CAA.

Ohio has performed an analysis that shows the air quality improvements are due to permanent and enforceable measures. In addition, significant regional NO_x reductions will ensure continued compliance (maintenance) with the standard and that all CAA requirements necessary for redesignation have been met.

Based on this presentation, the Toledo, OH area ozone basic nonattainment area meets the requirements for redesignation under the CAA and U.S. EPA guidance. Furthermore, because this area is subject to significant transport of pollutants, significant regional NO_x reductions will ensure continued compliance (maintenance) with the standards with an increasing margin of safety.

The State of Ohio hereby requests that the Toledo, OH area ozone basic nonattainment area be redesignated to attainment simultaneously with U.S. EPA approval of the Ohio state implementation and maintenance plan provisions contained herein. In addition, the State of Ohio requests that this maintenance plan satisfy the requirements of CAA Section 175A (b), for subsequent plan revisions required for areas redesignated for the one-hour ozone standard, as was the case with the Toledo, OH nonattainment area.

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