

Carbon Monoxide (CO)
Limited Maintenance Plan
Update

Lake and Marion Counties,
Indiana

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Office of Air Quality
Indiana Department of Environmental Management

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Carbon Monoxide Limited Maintenance Plan Update Lake and Marion Counties, Indiana

1.0 Introduction

On December 21, 1999, the State of Indiana submitted a redesignation request and limited maintenance plan for the Marion County (Indianapolis) and the Lake County (East Chicago) carbon monoxide (CO) nonattainment areas. The United States Environmental Protection Agency (U.S. EPA) subsequently approved the *Redesignation Request and Limited Maintenance Plan for Carbon Monoxide Attainment in Lake and Marion Counties* on January 19, 2000 (65 FR 2883).

Section 175A of the Clean Air Act (CAA) sets forth the elements of a maintenance plan for areas seeking redesignation from nonattainment to attainment. The plan must demonstrate continued attainment of the applicable National Ambient Air Quality Standard (NAAQS) for at least ten years after the Administrator approves a redesignation to attainment. Eight years after the redesignation, the state must submit a revised maintenance plan which demonstrates attainment for the ten years following the initial ten-year period.

As part of that document, Indiana committed to review and, if necessary, revise the Limited Maintenance Plan eight years after the area was redesignated to attainment of the CO standard, as required by Section 175A of the CAA. The submittal of this document honors that commitment.

2.0 Background

Portions of Lake and Marion counties in Indiana were originally designated as nonattainment areas for the NAAQS for CO on March 3, 1978 (43 FR 89620), under section 107 of the CAA. In 1990, Congress amended the CAA and added a provision which authorized U.S. EPA to classify nonattainment areas according to the degree of severity of the nonattainment problem. In 1991, U.S. EPA designated and classified all areas. Both Lake and Marion counties were designated as nonattainment but were non-classifiable for CO (November 6, 1991, 56 FR 56694). While there were no monitored violations of the CO standard, the area was classified nonattainment because Indiana had not submitted a redesignation request complying with the requirements of Section 107 of the CAA. As a result, U.S. EPA designated the area as nonattainment, but did not establish a classification.

Since U.S. EPA's 1991 designation, monitors in both Lake and Marion counties have not recorded a violation of the CO NAAQS. The Indiana Department of Environmental Management (IDEM) submitted a *Request for Redesignation and Limited Maintenance Plan for Carbon Monoxide Attainment in Lake and Marion Counties*, on December 21,

1999 (Appendix A). U.S. EPA subsequently approved the Redesignation Request on January 19, 2000 (65 FR 2883), with an effective date of March 20, 2000 (Appendix B).

2.1 Geographical Boundaries

The following is a brief description of the two maintenance counties included in this update.

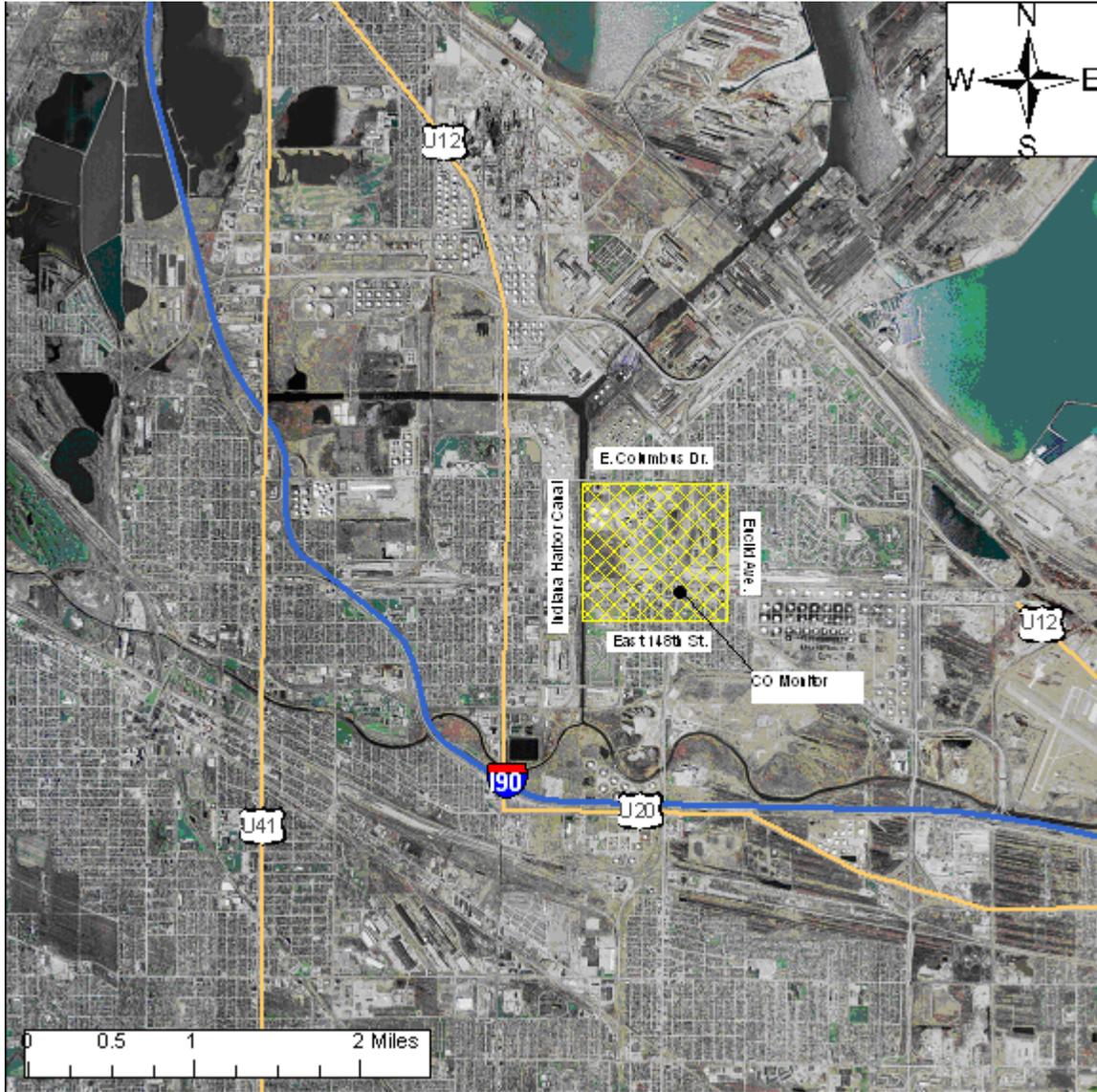
Lake County

Lake County is located in northwest Indiana. It is bounded on the east and south by the Indiana counties of Porter, Jasper and Newton. To the north it is bounded by Lake Michigan. To the west it is bounded by the Illinois counties of Cook, Will, Kankakee and Iroquois. Cities in Lake County include East Chicago, Gary and Hammond.

Only a portion of the city of East Chicago is classified as maintenance for CO in Lake County. This area is described as follows:

“City of East Chicago (area bound by Columbus Drive on the north, the Indiana Harbor Canal on the west, 148th Street, if extended, on the south and Euclid Avenue on the east)”, see Figure 2.1.

Figure 2.1 Map of Lake County CO Maintenance Area



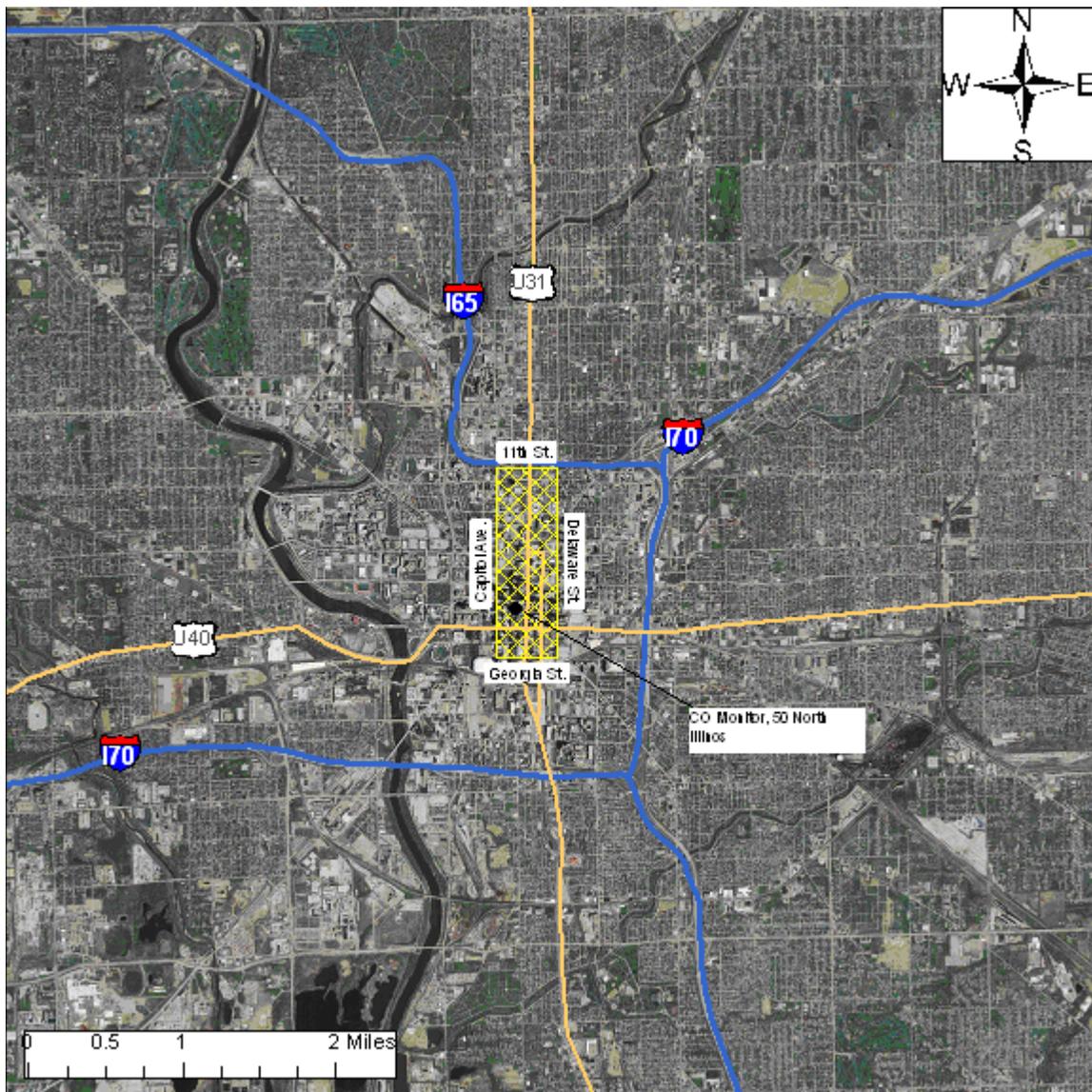
Marion County

Marion County is located in central Indiana. It is surrounded by the Indiana counties of Boone, Hamilton, Hancock, Shelby, Johnson, Morgan and Hendricks. Indianapolis is the largest city in the county.

Only a small area located in the center of Marion County is classified as maintenance for CO. This area is described as follows:

“City of Indianapolis (area bound by 11th Street on the north, Capitol Avenue on the west, Georgia Street on the south and Delaware Street on the east)”, see Figure 2.2.

Figure 2.2 Map of Marion County CO Maintenance Area



2.2 National Ambient Air Quality Standard for Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. Seventy-seven percent (77%) of the nationwide CO emissions are from transportation sources. The largest source of emissions is from highway motor vehicles. Thus, the focus of CO monitoring has been on traffic oriented sites in urban areas where the main source of CO is motor vehicle exhaust. Other major CO sources are wood-burning stoves, incinerators and industrial sources.

U.S. EPA set two national health protection standards for CO: a 1-hour standard of 35 parts per million (ppm) and an 8-hour standard of 9 ppm. This document only addresses the 8-hour standard, since both counties have always attained the 1-hour standard.

The 8-hour standard for carbon monoxide of 9 ppm is calculated as a non-overlapping average not to be exceeded more than once per year. The rounding convention in the standard specifies that values of 9.5 ppm or greater, are counted as exceeding the level of the standard. An area meets the carbon monoxide NAAQS if no more than one 8-hour value per year exceeds the threshold. (High values that occur within 8 hours of the first one are exempted. This is known as using "non-overlapping averages.") To be in attainment, an area must meet the NAAQS for two consecutive years and collect air quality monitoring during the entire time.

2.3 Status of Air Quality

There is one carbon monoxide monitoring site in Lake County located at the East Chicago Post Office and established on March 1, 1984.

There are two monitoring sites in Marion County, one within the designated nonattainment boundaries, 50 North Illinois Street, and one northeast of the nonattainment boundary, sited at the Naval Avionics Center. Both of these sites have been operating since 1990. Current ambient air quality monitoring data show a continued downward trend well below the CO NAAQS since the area was redesignated to attainment, as shown in Tables 2.1 and 2.2.

Table 2.1 Lake County 1998-2007 CO Ambient Monitoring Data

				1st Max 8-hour	2nd Max 8-hour
SITE ID	COUNTY	SITE NAME	YEAR	(ppm)	(ppm)
18-089-0015	Lake	East Chicago Post Office	1998	3.2	3.2
18-089-0015	Lake	East Chicago Post Office	1999	3.1	3.1
18-089-0015	Lake	East Chicago Post Office	2000	3.2	3.2
18-089-0015	Lake	East Chicago Post Office	2001	3.4	3.2
18-089-0015	Lake	East Chicago Post Office	2002	3.2	2.6
18-089-0015	Lake	East Chicago Post Office	2003	5.1	3.4
18-089-0015	Lake	East Chicago Post Office	2004	2.8	2.7
18-089-0015	Lake	East Chicago Post Office	2005	2.3	2.3
18-089-0015	Lake	East Chicago Post Office	2006	3.2	2.4
18-089-0015	Lake	East Chicago Post Office	2007	3.1	3.0

Table 2.2 Marion County 1998-2007 CO Ambient Monitoring Data

				1st Max 8- hour	2nd Max 8-hour
SITE ID	COUNTY	SITE NAME	YEAR	(ppm)	(ppm)
18-097-0072	Marion	50 North Illinois St	1998	3.2	2.8
18-097-0072	Marion	50 North Illinois St	1999	2.9	2.6
18-097-0072	Marion	50 North Illinois St	2000	2.9	2.8
18-097-0072	Marion	50 North Illinois St	2001	2.5	2.2
18-097-0072	Marion	50 North Illinois St	2002	8.3	5.0
18-097-0072	Marion	50 North Illinois St	2003	2.9	2.7
18-097-0072	Marion	50 North Illinois St	2004	2.8	2.2
18-097-0072	Marion	50 North Illinois St	2005	2.7	2.4
18-097-0072	Marion	50 North Illinois St	2006	2.1	2.0
18-097-0072	Marion	50 North Illinois St	2007	4.3	3.6
18-097-0073	Marion	Naval Avionics Center	1998	2.9	2.5
18-097-0073	Marion	Naval Avionics Center	1999	2.4	2.2
18-097-0073	Marion	Naval Avionics Center	2000	3.9	3.8
18-097-0073	Marion	Naval Avionics Center	2001	3.1	2.5
18-097-0073	Marion	Naval Avionics Center	2002	1.7	1.6
18-097-0073	Marion	Naval Avionics Center	2003	3.1	2.3
18-097-0073	Marion	Naval Avionics Center	2004	1.9	1.8
18-097-0073	Marion	Naval Avionics Center	2005	1.9	1.8
18-097-0073	Marion	Naval Avionics Center	2006	2.3	2.1
18-097-0073	Marion	Naval Avionics Center	2007	2.3	2.0

3.0 Eligibility for Limited Maintenance Plan Option

Section 107(d)(3)(E) of the CAA lists a number of requirements that must be met by non-classifiable nonattainment areas prior to consideration for redesignation to attainment. On October 6, 1995, U.S. EPA published a guidance memorandum which discusses the “Limited Maintenance Plan Option for Non-classifiable CO Nonattainment Areas” from Joseph Paisie, Group Leader, Integrated Policy and Strategies Group, Office of Air Quality and Planning Standards (OAQPS) (Appendix C).

Based on the U.S. EPA’s guidance memo referenced above, non-classifiable CO nonattainment areas seeking redesignation to attainment that have design values at or below 7.65 ppm (85% of the exceedance level of the CO NAAQS) at the time of redesignation may choose to submit a less rigorous maintenance plan than was formerly required. This is termed a limited maintenance plan.

Indiana met the qualifications to submit a limited maintenance plan as part of the redesignation request due to 1998 design values of 3.8 and 3.9 ppm, in Lake and Marion counties, respectively. The current 2007 design value for Lake and Marion counties are 3.0 and 3.6 ppm, respectively. Since the design value continues to remain well below the standard for both areas, Indiana is eligible to update the current limited maintenance plan, instead of providing a more detailed maintenance plan for both areas. The core provisions that are required to be included in the limited maintenance plan option for CO non-classifiable areas are listed below:

3.1 Attainment Emissions Inventory

The state is required to develop an attainment emissions inventory to identify a level of emissions in the area which is sufficient to attain the NAAQS. For this submittal, the attainment emissions inventory is compared to the most recent emissions inventory (2006).

3.2 Maintenance Demonstration

The maintenance demonstration requirement is considered to have been satisfied for non-classifiable areas if the monitoring data show that the area was meeting the air quality criteria for limited maintenance areas.

3.3 Monitoring Network/Verification of Continued Attainment

To verify the attainment status of the area over the maintenance period, the maintenance plan should contain provisions for continued operation of an appropriate, U.S. EPA approved air quality monitoring network.

3.4 Contingency Plan

The maintenance plan is required to include contingency provisions, as necessary, to promptly correct any violation of the NAAQS that occurs after redesignation of the area.

3.5 Transportation Conformity

The transportation conformity rule and the general conformity rule apply to nonattainment areas and maintenance areas operating under maintenance plans. Under either rule, one means of demonstrating conformity of Federal actions is to indicate that expected emissions from planned actions are consistent with the emissions budget for the area.

Each of these components is discussed in greater detail in the remaining sections of this document.

4.0 Attainment/Emissions Inventory

The state is required to develop an attainment emissions inventory to identify a level of emissions in the area which is sufficient to attain the NAAQS. For this submittal, the attainment emissions inventory was compared to the most recent emissions inventory.

Table 4.1 below shows the CO emissions from major sources in Lake County and the change in emissions from the original maintenance plan's emissions from 1997. The emissions are taken from the 2006 emission reports submitted by each source. The 2006 emissions are the most recent quality assured data available. Table 4.2 contains the same data for Marion County. The complete CO emissions inventory for Lake and Marion counties can be found in Appendix D.

Table 4.1 CO Emissions from Lake County Major Sources

Source	Source ID	1997 Emissions in Tons per year	2006 Emissions in Tons per year	Emission Change from 2006 to 1997
BP Products North America Inc, Whiting Refinery	0003	6130.54	2210.99	-3919.55
ANR Pipeline	0069	242.96	331.01	+88.05
Carneuse Lime Inc.	0112	480.29	463.17 ¹	-17.12
NIPSCO Dean H Mitchell	0117	320.73	0.47	-320.26
US Steel Corp, Gary Works	0121	94470	85573.75	-8896.25
Jupiter Aluminum Corporation	0201	6.54	10.41	+3.87
Cargill, Inc.	0203	68.84	137.44	+91.19
Stateline Energy LLC	0210	391.31	368.2	-23.11
ASF-Keystone, Inc.	0302	27.11	CLOSED	-27.11
ArcelorMittal Indiana Harbor East	0316	43566.2	57893.19	+14326.99
ArcelorMittal Indiana Harbor West	0318	20954.79	16434.33	-4520.46
Ironside Energy, LLC	0448	159.71 ²	113.88	-45.83
Lake County Totals		166652.77³	164525.91³	-2126.86

¹ Most recent emissions data available (2005).

² First year of operation 2003.

³ County totals are from all sources in the inventory.

Table 4.2 CO Emissions from Marion County Major Sources

Source	Source ID	1997 Emissions in Tons per year	2006 Emissions in Tons per year	Emission Change from 2006 to 1997
Bridgeport Brass DBA Olin Brass	0005	165.28	CLOSED	-165.28
Chrysler, LLC	0012	25357	CLOSED	-25357
Indianapolis Belmont WWTP	0032	1317	1172.65	-144.35
IPL Harding Street Station	0033	457.11	480.65	+23.39
IPALCO-Perry K	0034	193.01	284.79	+91.78
Navistar, Inc.	0039	441	552.5	+111.5
National Starch & Chemical Corporation	0042	21.97	29.27	+7.3
Citizens Gas & Coke Utility	0061	334.16	479.82	+145.66
Quemetco, Inc	0079	13.39	222.54 ¹	+209.15
PEPL-Zionsville Compressor Station	0095	312.02	263.18	-48.84
Covanta Indianapolis, Inc	0123	109	112.64 ²	+3.64
Rolls Royce Corporation	0311	39.95	59.71	+19.76
Vertellus Agriculture & Nutrition Specialties, LLC	0315	3328.65	3678.2	+349.55
Marion County Total		30331.54³	7652.42³	-22679.12

¹ Most recent emissions data available (2004).

² Most recent emissions data available (2004).

³ County totals are from all sources in the inventory.

The CO emissions from Lake County’s major sources have decreased by 2,126.86 tons from 1997 to 2006. One source that has increased is the ArcelorMittal Indiana Harbor East facility, formerly Inland Steel (ID 0316). Since 1997 this source has increased the production capacity of the #7 Blast Furnace. Table 4.3 combines the emissions from the ArcelorMittal facility from 1997 to 2006 with the maximum 8-hour average for each year from the Lake County CO monitor.

Table 4.3 ArcelorMittal CO Emissions and Maximum 8-hour CO Monitored Values

Year	CO Emissions	Maximum 8-Hour CO Monitored Concentration
2006	57893	3.2
2005	44855	2.3
2004	52537	2.8
2003	42943	5.1
2002	47214	3.2
2001	45140	3.4
2000	47697	3.2
1999	47368	3.1
1998	44508	3.2
1997	43566	3.9

The increased CO emissions from ArcelorMittal have not caused a noticeable increase in the highest 8-hour concentrations and will not create a violation of the CO standard.

Three major sources of CO emissions in Marion County have closed since 1997, Bridgeport Brass DBA Olin Brass, Chrysler LLC, and Citizens Gas & Coke. This has caused a decrease of 22,679.12 tons in the CO emissions from point sources since 1997.

The original maintenance plan compared the 1996 base-year emissions inventory to a projected 2007 emissions inventory for a typical winter day. The tables below compare the base-year emissions inventory and 2007 projected emissions inventory to the 2006 actual emissions inventory and the difference from the projected and actual 2006 emissions. Table 4.4 is for Lake County, and Table 4.5 is for Marion County.

Table 4.4 Lake County Base Year CO Emissions with Projected and Actual 2006 Emissions for Typical Winter Day

Source Type	Base Year 1996	Projected Year 2007	Actual Emissions 2006	Difference from Projected Emissions
Mobile Sources	302.00	246.00	192.61	-53.39
Area Sources	46.00	38.00	81.10	+43.1
Steel Plants	383.55	414.23	469.91	+55.68
Other Point Sources	18.57	10.21	9.12	-1.09
Total	750.12	708.44	752.74	+44.30

Table 4.5 Marion County Base Year CO Emissions with Projected and Actual 2006 Emissions for a Typical Winter Day

Source Type	Base Year 1996	Projected Year 2007	Actual Emissions 2006	Difference from Projected Emissions
Mobile Sources	911.00	944.00	406.31	-537.69
Area Sources	140.00	114.00	150.97	+36.97
Point Sources	108.07	125.06	21.05	-104.01
Total	1159.07	1183.06	578.33	-604.73

The mobile source and area source categories include non-road emissions taken from the 2005 National Emission Inventory (NEI) Tier 1 summary.

By opting to comply with the requirements of the limited maintenance plan option, IDEM is not required to project CO emissions for Lake and Marion Counties as part of this update to the maintenance plan.

4.1 Implementation of Additional Control Measures

There are several federal control measures already in place or being implemented over the next few years that will reduce on-road mobile, and non-road mobile source CO emissions. These measures further ensure that CO emissions will remain below levels necessary to maintain the 8-hour CO ambient air quality standard.

Nonroad Spark-Ignition Engines and Recreational Engines Standard

The new standard, effective in July 2003, regulates NO_x, VOCs, and carbon monoxide (CO) for groups of previously unregulated non-road engines. The new standard applies to all new engines sold in the United States and imported after the standards went into effect. The standard applies to large spark-ignition engines (forklifts and airport ground service equipment), recreational vehicles (off-highway motorcycles and all-terrain vehicles), and recreational marine diesel engines. The regulation varies based upon the type of engine and vehicle.

The large spark-ignition engines contribute to ozone formation and ambient CO and PM levels in urban areas. Tier 1 of this standard was implemented in 2004 and Tier 2 started in 2007. Like the large spark-ignition engines, recreational vehicles contribute to ozone formation and ambient CO and PM levels. For the off-highway motorcycles and all-terrain vehicles, model year 2006, the new exhaust emission standard was phased-in by 50% and for model year 2007 and later, at 100%. Recreational marine diesel engines over 37 kilowatts are used in yachts, cruisers, and other types of pleasure crafts. Recreational marine engines contribute to ozone formation and PM levels, especially surrounding marinas. Depending on the size of the engine, the standard began phasing-in in 2006.

When all of the non-road spark-ignition engines and recreational engine standards are fully implemented, an overall 72% reduction in VOCs, 80% reduction in NO_x and 56% reduction in CO emissions are expected by 2020. These controls will help reduce ambient concentrations of ozone, CO and fine PM.

Small Non-Road Engine Rule

On April 17, 2007, U.S. EPA proposed a rule to control emissions from new gasoline-powered small non-road engines, including lawn and garden equipment (<25 hp) and recreational watercraft. Under the proposed rule, the exhaust emission standards for Class I non-road engines will take effect in 2012 and for Class II engines in 2011. Watercraft standards will take effect in 2009. EPA anticipates that when fully implemented, the proposed standards will result in a 20 % reduction in CO from new engines' exhaust.

5.0 Demonstration of Continued Maintenance

The maintenance demonstration requirement was considered to have been satisfied for non-classifiable areas if the monitoring data showed that the area was meeting the air quality criteria for limited maintenance areas.

To qualify for the limited maintenance plan option, the CO design value for the area, based on the 8 consecutive quarters (2 years of data) used to demonstrate attainment, must be at or below 7.65 ppm (85 % of the CO NAAQS). To assess whether a non-classifiable area meets the applicability cutoff for the limited maintenance plan, a separate design value must be developed for every monitoring site. The highest of these design values is the design value for the whole area.

There is only one monitor in Lake County, which has a current design value of 3.0 ppm.

There are two CO ambient air quality monitors in Marion County. The monitor located in the nonattainment area, North Illinois Street, has a design value of 3.6 ppm and the monitor outside of the nonattainment boundaries, the Naval Avionics Center site, has a design value of 2.1 ppm. This makes the Marion County CO maintenance area's design value 3.6 ppm, as shown in Table 5.1.

Table 5.1 Current 2-Year CO Design Value for Lake and Marion Counties

				1st Max 8- hour	2nd Max 8- hour	Design Value
SITE ID	COUNTY	SITE NAME	YEAR	(ppm)	(ppm)	(ppm)
18-089-0001	Lake	East Chicago Post Office	2006	3.2	2.4	2.4
18-089-0001	Lake	East Chicago Post Office	2007	3.1	3.0	3.0
18-097-0072	Marion	50 North Illinois St	2006	2.1	2.0	2.4
18-097-0072	Marion	50 North Illinois St	2007	4.3	3.6	3.6
18-097-0073	Marion	Naval Avionics Center	2006	2.3	2.1	2.1
18-097-0073	Marion	Naval Avionics Center	2007	2.3	2.0	2.1
Area's Current Design Value						

Ambient air quality data from all monitoring sites indicate that the NAAQS for CO continues to be met since the areas were redesignated to attainment in 1999. The current limited maintenance plan demonstrated that the standard would continue to be maintained through 2007. This update to the maintenance plan demonstrates that ambient air quality data should remain at current levels. Total emissions of CO from all sources have varied and it is not anticipated that emissions would increase to levels that would alter the downward trend in air quality data of CO. Charts 5.1 and 5.2 show the trend in design values from 1998 – 2007.

Chart 5.1 Marion County 1998-2007 CO Design Value Trends

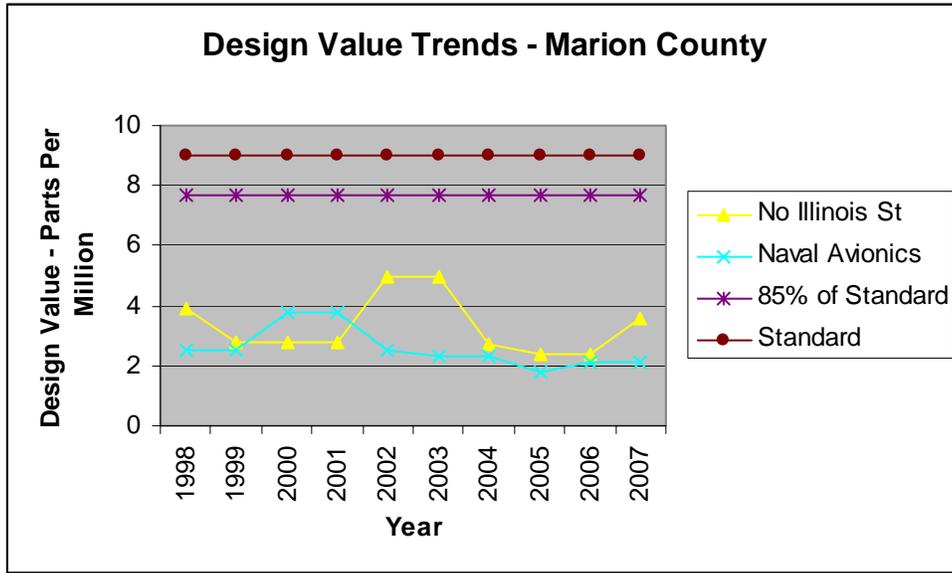
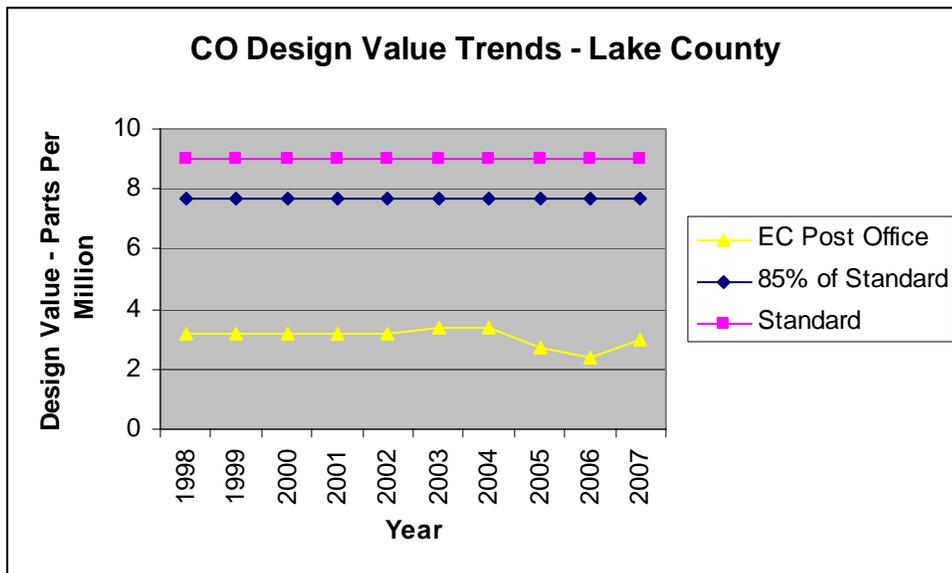


Chart 5.2 Lake County 1998-2007 CO Design Value Trends



6.0 Monitoring Network/Verification of Continued Attainment

To verify the attainment status of the area over the maintenance period, the maintenance plan should contain provisions for continued operation of an appropriate, U.S. EPA approved air quality monitoring network. IDEM operates one carbon monoxide monitoring site in Lake County and one monitoring site in Marion County, at the Naval Avionics Center. The other monitoring site in Marion County, located at 50 North Illinois Street, is operated by the Indianapolis Office of Environmental Services.

A Quick Look report from U.S. EPA's AQS database which lists the quality assured monitoring data for both counties is enclosed as Appendix E. Also enclosed in Appendix E, is a chart of the monitoring data from 1998 through 2007, further illustrating that air quality in the maintenance areas in both Lake and Marion counties has continued to remain well below the standard for the past eight years since the areas were classified to attainment.

6.1 Quality Assurance

IDEM has quality assured all data shown in the tables above and in Appendix E in accordance with 40 CFR 58.10 and the Indiana Quality Assurance Manual and found the data to be valid. IDEM has recorded the data in the AQS database and thus, the data is available to the public.

6.2 Continued Monitoring

To comply with U.S. EPA guidance, Indiana commits to continue monitoring CO in these areas, as necessary, to ensure the CO design values for the areas remain at or below 7.65 ppm. Should changes become necessary in the future, IDEM will consult with U.S. EPA Region V staff prior to making changes to the existing monitoring network. IDEM will continue to quality assure the monitoring data to meet the requirements of 40 CFR 58. IDEM will continue to enter all data into the AQS database on a timely basis in accordance with federal guidelines.

7.0 Contingency Plan

Indiana will monitor carbon monoxide concentrations to determine whether trends indicate higher values or whether emissions appear to be increasing. If it is determined that carbon monoxide levels and emissions are increasing and action is necessary to reverse that trend, Indiana will take action to reverse the noted trend, prior to a violation of the standard occurring.

Indiana hereby commits to adopt and expeditiously implement necessary corrective actions in the following circumstance:

Action Level Response

An Action Level Response shall be prompted whenever a two (2)-year average of 7.65 ppm occurs. 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, IDEM will determine additional control measures needed to assure future attainment of the NAAQS for carbon monoxide. In this case, measures that can be implemented in a short time will be selected in order to be in place within eighteen (18) months from the close of the monitoring year that prompted the Action Level.

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 Indiana law for rulemaking by state environmental boards.

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

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. Listed below are example measures that may be considered. The selection of measures will be based upon cost-effectiveness, emission reduction potential, economic and social considerations, or other factors that IDEM deems appropriate. IDEM will solicit input from interested and affected persons in the nonattainment area prior to selecting appropriate contingency measures. All of the listed contingency measures are potentially effective or proven methods of obtaining significant reductions of CO emissions. 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. Indiana anticipates that if contingency measures should ever be necessary, it is unlikely that a significant number (i.e., all those listed below) will be required.

Potential Contingency Measures

- 1.) One or more of the following transportation control measures:
 - a. trip reduction programs, including but not limited to, employer-based transportation management plans, area-wide rideshare programs, and work schedule changes;
 - b. transit improvements;
 - c. traffic flow improvements; or
 - d. other new or innovative transportation measures not yet in widespread use that affect state and local governments deemed appropriate.
- 2.) Alternative fuel and diesel retrofit programs for fleet vehicle operations.
- 3.) Wood stove change-out program.
- 4.) Idling Restrictions.
- 5.) One or more stationary source control measures.

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.

8.0 Commitment to Revise Plan

This submittal satisfies Indiana's commitment to revisit the original Limited Maintenance plan and no further action is necessary since Lake and Marion counties have maintained their attainment status in the eight years since the counties were reclassified to attainment.

9.0 Transportation Conformity

The transportation conformity rule and the general conformity rule apply to nonattainment areas and maintenance areas operating under maintenance plans. Under either rule, one means of demonstrating conformity of Federal actions is to indicate that expected emissions from planned actions are consistent with the emissions budget for the area.

Indiana adopted a general conformity (326 IAC 16-3-1) rule based on the federal standards on August 26, 2004. Likewise, a transportation conformity rule (326 IAC 19-2-1) was adopted to incorporate the revised federal standards on October 20, 2005. The consultation provisions of the transportation conformity rule are outlined and addressed via memorandums of understanding (MOUs) with the appropriate affected transportation and air quality agencies.

Mobile source emissions have been determined to be a significant contributor to the Indianapolis CO maintenance area in the past. However, the maintenance areas are too small for either a budget or "build/no build" analysis to be effective in determining conformity. Indiana has determined that whenever a regionally significant non-exempt project is planned for the Indianapolis CO maintenance area, a project-specific "hot spot" analysis will be conducted as part of the regional transportation conformity process. The hot spot analysis may be done as part of the environmental impact study for the project.

The limited maintenance plan option supports this by concluding that "an emissions budget may be treated as essentially not constraining for the length of the maintenance period because it is unreasonable to expect that such an area will experience so much growth in that period that a violation of the CO NAAQS would result". The "hot spot" analysis requirement will be continued for any regionally significant transportation projects to be completed in these areas.

10.0 Public Participation

In accordance with 40 CFR 51.102 public participation in this request was provided as follows:

Notice of availability of the complete document and a request for the opportunity for a public hearing was published in the Indianapolis Star, The Post-Tribune, Merrillville and The Northwest Indiana Times, Munster.

No public comments were received during the 30-day comment period. There was not a request for a public hearing during the comment period and the hearing was not required to be held.

A copy of the legal public Notice can be found in Appendix F.

Copies of the proof of publication will be found in Appendix G

11.0 Conclusion

Monitored air quality in the Lake and Marion counties CO maintenance areas has remained under the CO standards as a result of national and local control strategies implemented. In fact, the current design value for both nonattainment areas is less than half of the standard. The current design values in the areas have remained below the standard since both areas were redesignated and are expected to continue to maintain compliance with the standard.

This plan update demonstrates that the portions of Lake and Marion counties classified as maintenance will continue to attain the CO NAAQS. Indiana has verified that the emission controls adopted to maintain the standard continue to be permanent and enforceable, that there are no new significant sources of carbon monoxide or increases in background emissions, and that the state has in place a comprehensive program to identify sources of violations and address any violation through enforcement and implementation of a contingency plan.

This plan update demonstrates that reductions since redesignation have had a positive effect on carbon monoxide levels, and that with additional national control measures that will be phased-in or implemented in 2008 and 2009, air quality in the area will improve further and provide for an ample margin of safety.

This plan satisfies Indiana's obligation under Section 175(A)(b) of the CAA to submit a plan for maintaining the national primary ambient air quality standard for the next ten years beyond the current maintenance plan.

**Appendix A: Request for Redesignation and Limited Maintenance Plan for CO
Attainment in Lake County and Marion County**

**Request for Redesignation
& Limited Maintenance
Plan for CO Attainment in
Lake County & Marion
County**

Dec. 1999



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live

Frank O'Bannon
Governor

Lori F. Kaplan
Commissioner

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DEC 21 1999

Francis X. Lyons
Regional Administrator
U.S. EPA Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590

Re: Request for Redesignation and Limited
Maintenance Plan for CO Attainment in
Lake County and Marion County,
Indiana

Dear Mr. Lyons:

The Indiana Department of Environmental Management (IDEM) herewith submits the enclosed Request for Redesignation and Limited Maintenance Plan for CO Attainment in Lake County and Marion County. This submittal demonstrates that Lake and Marion Counties have met the primary health standards for carbon monoxide (CO) and that those counties should be redesignated to attainment for CO.

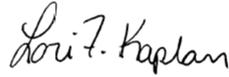
On March 3, 1978, U.S. EPA designated Lake and Marion Counties as primary nonattainment areas for the National Ambient Air Quality Standards (NAAQS) for carbon monoxide. Section 107 (d) (3) (E) of the Clean Air Act states that in order for a county to have its status redesignated to attainment, it must meet several requirements established by U.S. EPA. These are:

- 1) Ambient monitoring data showing that the county has met the National Ambient Air Quality Standards for the past three years.
- 2) Air quality improvements that can be attributed to reductions in CO emissions which are permanent and enforceable.
- 3) A maintenance plan that assures continued attainment of the standard.

The enclosed Request for Redesignation and Limited Maintenance Plan for CO Attainment in Lake County and Marion County demonstrates with detailed evidence how Indiana has met each of these requirements.

Throughout the development of this redesignation request, staff of the IDEM Office of Air Management worked closely with your staff to identify and resolve all potential issues of concern to U.S. EPA. The Department requests that U.S. EPA approve the Lake County and Marion County redesignation. If you have any questions regarding this submittal, please contact Kathryn Watson, Chief, Air Programs Branch at (317) 233-5694.

Sincerely,



Lori F. Kaplan
Commissioner

LFK/jal

Attachments

cc: J. Elmer Bortzer, U.S. EPA
Mayor Stephen Goldsmith, Indianapolis
Mayor Robert Pastrick, East Chicago
Richard Martin, IERMD
Antonio Bareda, Department of Air Quality, East Chicago
Northwest Regional Office

**REQUEST FOR REDESIGNATION
AND
LIMITED MAINTENANCE PLAN FOR
CARBON MONOXIDE ATTAINMENT
FOR
LAKE COUNTY
AND
MARION COUNTY**

December 1999

**OFFICE OF AIR MANAGEMENT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

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- A Air Quality Data
 - 1. Quick Look Report
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- B Emissions Data
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 - 1. 1996 (Base Year) Data for Lake County
 - 2. 1996 (Base Year) Data for Marion County
 - 3. Graphs

- D Technical Support Document
 - 1. October 6, 1995 EPA Memo about Limited Maintenance Plan Options for Nonclassifiable CO Nonattainment Areas

- E Proofs of Publication
 - 1. Indianapolis Star
 - 2. The Times, Munster
 - 3. Legal Notice of Public Hearing

- F Transcripts of the Public Hearings
 - 1. Lake County Public Hearing
 - 2. Marion County Public Hearing
 - 3. Comments

REQUEST FOR REDESIGNATION AND
LIMITED MAINTENANCE PLAN FOR
CARBON MONOXIDE ATTAINMENT
IN LAKE AND MARION COUNTIES

1.0 INTRODUCTION

1.1 Background

Lake and Marion Counties in Indiana were initially designated as primary nonattainment areas for the National Ambient Air Quality Standards (NAAQS) for carbon monoxide (CO), on March 3, 1978 (43 FR 8962). The current classification for both counties is nonattainment and not classified (40 CFR 81.315). In compliance with the Clean Air Act (CAA), the Indiana State Board of Health Air Pollution Control Division, which at that time was the state agency with jurisdiction for air quality, developed and implemented rules designed to control emissions of CO.

1.2 Geographical Boundaries

Following is a brief description of the two counties for which redesignation is requested.

Lake County is in northwest Indiana. It is surrounded by the Indiana counties of Porter, Jasper and Newton. To the north it is bounded by Lake Michigan. To the west it is bounded by the Illinois counties of Cook, Will, Kankakee and Iroquois. Cities in Lake County include East Chicago, Gary and Hammond.

Only the city of East Chicago was determined to be nonclassifiable nonattainment for CO in Lake County. This area is described as follows:

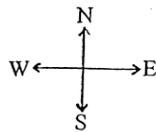
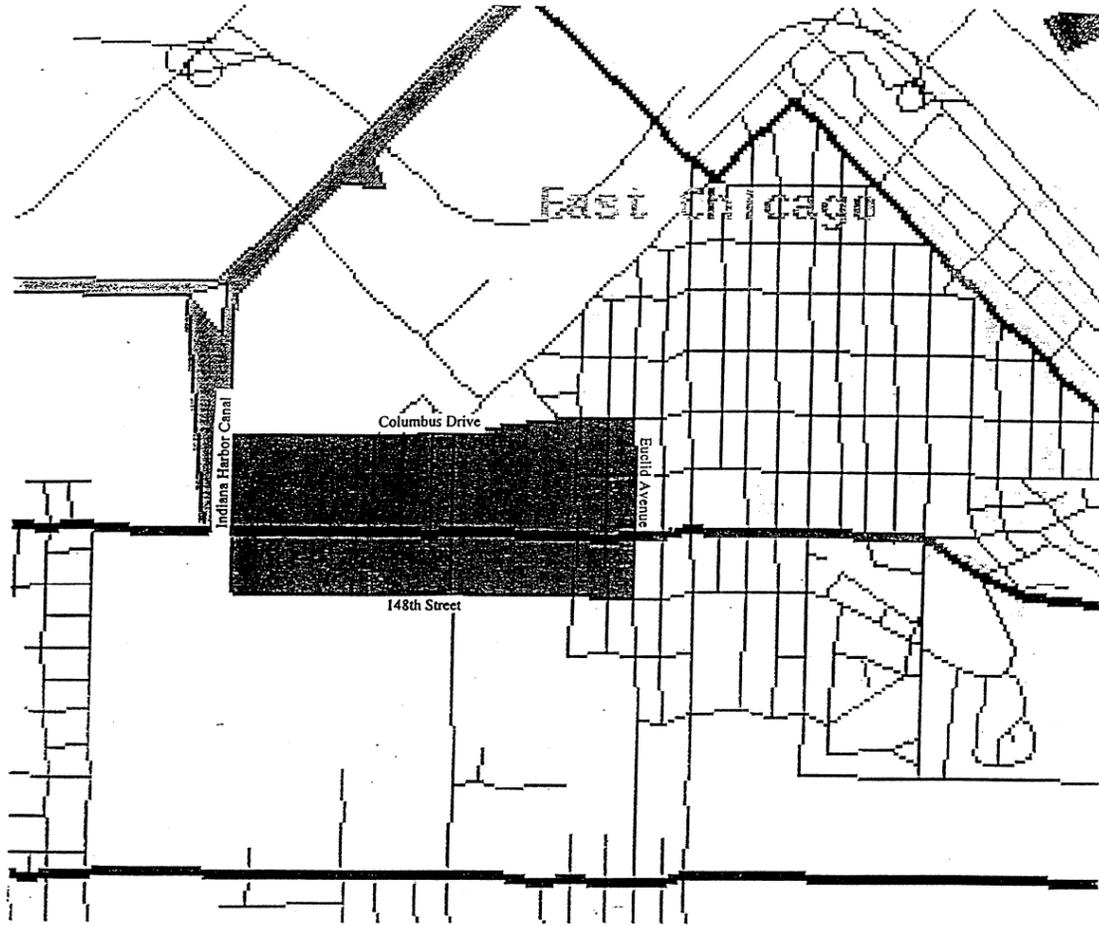
"City of East Chicago (area bound by Columbus Drive on the north, the Indiana Harbor Canal on the west, 148th St. if extended, on the south, & Euclid Avenue on the east)" [40 CFR Ch. 1 (7-1-91 Edition) p. 101] (See Map A, Page 2).

Marion County is in central Indiana. It is surrounded by the Indiana counties of Boone, Hamilton, Hancock, Shelby, Johnson, Morgan and Hendricks. Indianapolis is the largest city in the county.

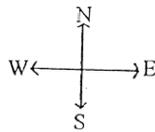
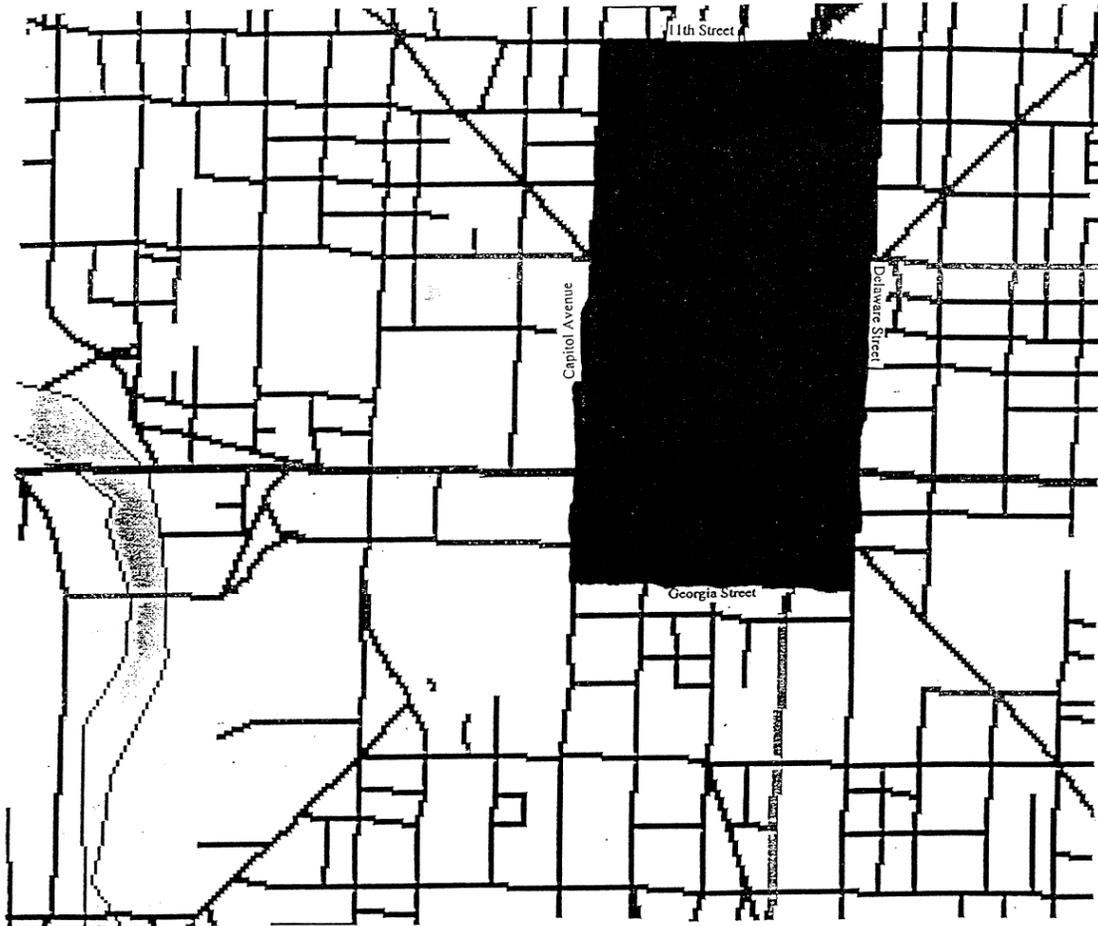
Only the center of Marion County was determined to be a nonclassifiable nonattainment area for CO. This area is described as follows:

"City of Indianapolis (area bound by 11th St. on the north, Capitol on the west, Georgia St. on the south and Delaware on the east)" [40 CFR Ch. 1 (7-1-91 Edition) p. 101] (See Map B, page 3).

MAP A



MAP B



1.3 Status of Air Quality Within the Non-Attainment Areas

Enclosure A-Item 1 is a Quick Look report from the U.S. EPA Aerometric Information Retrieval System (AIRS) database which lists the monitoring data for both counties, since 1987. The monitors listed in bold type are those which are located in the nonclassifiable nonattainment areas of Lake and Marion Counties.

Carbon monoxide monitoring data has been obtained from one site in the portion of Lake County classified as nonclassifiable nonattainment for CO. This monitor located at 901 East Chicago Avenue was established on March 1, 1984 and continues to monitor CO today.

Carbon monoxide monitoring data has been obtained from three sites in the portion of Marion County classified as nonclassifiable nonattainment for CO. Two of the three sites have been discontinued and one site remains in operation.

The two historical CO monitoring sites include the following:

- 1) 1 West Washington Street was established on March 1, 1977 and terminated on February 28, 1992.
- 2) 17 North Pennsylvania was established on March 1, 1983 and terminated on April 19, 1989.

Both of the above sites were terminated because the buildings in which the monitors were located were closed. The data from both sites show a fairly consistent downward trend in CO concentrations since 1986.

The currently monitored site, just two blocks west of the historical monitoring sites, is located at 50 North Illinois Street. This site was established on February 1, 1990. The current data show that it has been below the CO ambient standard since 1990.

Enclosure A-Item 2 illustrates that the nonclassifiable nonattainment areas in both Lake and Marion Counties have been well below the standard for a number of years.

2.0 REQUIREMENTS FOR REDESIGNATION

2.1 General

Section 107 (d) (3) (E) of the CAA lists a number of requirements that must be met by nonclassifiable nonattainment areas prior to consideration for redesignation to attainment. In addition, U.S. EPA has published detailed guidance in a document labeled "Procedures for Processing Requests to Redesignate Areas to Attainment" in the form of a memorandum, to Regional Air Directors issued September 4, 1992. On October 6, 1995, U.S. EPA also published a memorandum which discusses the "Limited Maintenance Plan Option for Nonclassifiable CO Nonattainment Areas." This Plan is based on the above, supplemented with guidance received from staff of the Regulation Development Section of U.S. EPA Region 5.

Lake and Marion Counties meet the EPA's eligibility requirements for the limited maintenance plan option for the following two reasons:

- 1) The CO nonattainment portions of both counties are unclassifiable.
- 2) Both Lake and Marion Counties are attaining the CO NAAQS with a design value that is below 7.65 ppm (85% of exceedance levels of the CO NAAQS). Specifically, the CO design value for the years 1996 and 1997 in Lake County is 3.8 ppm. For the same time period in Marion County, the CO design value is 3.9 ppm.

2.2 Carbon Monoxide Monitoring Requirements

There are three requirements related to monitoring for a redesignation request:

- 1) A demonstration that the national ambient air quality standards for carbon monoxide, as published in 40 CFR 50.8, have been attained.
- 2) Ambient monitoring data must have been quality assured in accordance with 40 CFR 58.10 and recorded in the AIRS data base and made available for public review.
- 3) A commitment that, once redesignated, the state will continue to operate an appropriate monitoring network to verify the maintenance of the attainment status.

2.3 Emission Inventory

A redesignation request must include a comprehensive emission inventory of major sources of carbon monoxide completed for the base year.

2.4 Controls and Regulations

A redesignation request must include the following with respect to rules and regulations:

- 1) An U.S. EPA approved SIP control strategy that includes Reasonably Available Control Technology (RACT) requirements for existing stationary sources covered by Control Technology Guidelines (CTG).
- 2) Evidence that control measures required in past SIP revisions have been fully implemented.
- 3) Acceptable provisions to provide for new source review, including continued applicability of Prevention of Significant Deterioration (PSD) requirements.
- 4) Assurances that existing controls will remain in effect after redesignation, unless the state demonstrates through modeling that the standard can be maintained without one or more controls.
- 5) If appropriate, a commitment to adopt a requirement that all transportation plans conform with and are consistent with the SIP.

2.5 Corrective Actions for Potential Future Violations of the Standard

A redesignation request must also include:

- 1) A commitment to enact and implement expeditiously additional contingency control measures in response to exceeding specified predetermined levels (triggers) or in the event that future violations of the ambient standards occur.
- 2) A list of potential contingency measures that would be implemented in such an event.
- 3) A list of carbon monoxide sources potentially subject to future controls.

3.0 CARBON MONOXIDE MONITORING

3.1 Monitoring Network

Lake County

The Department has operated five monitors measuring carbon monoxide concentrations in Lake County. Currently there are two monitoring sites collecting data, both operated by IDEM. One site on East Chicago Avenue has operated continuously since 1984. The other site, located in Gary at Broadway and 15th Avenue has been in operation since 1989. A listing of the sites with the highest reading at each from 1987 to 1997 is given in Enclosure A, Item 1.

Marion County

Historically, there have been sixteen monitors measuring carbon monoxide concentrations in the Indianapolis area. Currently two sites are in operation; Naval Avionics Center, operated by IDEM and North Illinois Street, operated by Indianapolis Environmental Resources Management Division. A listing of the sites with the highest reading at each from 1987 to 1997 is given in Enclosure A, Item 1.

3.2 Ambient Data

The national primary ambient air quality standards for carbon monoxide measured by the reference methods described in Appendix A of 40CFR Part 50 are:

- 1) 10 micrograms per cubic meter (ug/m) (9 ppm) maximum 8 hour concentration not to be exceeded more than once per year per site.
- 2) 40 micrograms per cubic meter (ug/m) (35 ppm) maximum 1 hour concentration not to be exceeded more than once per year per site.

The secondary ambient standard for carbon monoxide is the same as the primary ambient standard.

Lake County

There have been no exceedances of the standards in East Chicago at the East Chicago Avenue monitor since 1983. There have been no exceedances of standards in East Chicago at the Indianapolis Boulevard monitor since 1981. Also, there have been no exceedances in Gary at the Federal Building since 1987. A list of exceedances since 1980 is included in Enclosure A, Item 3., Tables II and IV.

Therefore, the monitoring data for the most recent three years demonstrates that the National Ambient Air Quality Standards (NAAQS) for carbon monoxide have been attained in Lake County.

Marion County

There have been no exceedances in Marion County at the North Illinois Street monitor since established in 1990. Also, there were no exceedances at the North Pennsylvania Street monitor since 1984 through 1989 when monitoring was discontinued at that site. The West Washington Street monitor did not show exceedances since 1986 through 1992 when monitoring was discontinued at that site. Exceedances since 1980 are shown in Enclosure A, Item 3.

Therefore, the monitoring data for the most recent three years demonstrates that the National Ambient Air Quality Standards (NAAQS) for carbon monoxide have been attained in Marion County.

3.3 Improvements

Several changes were made in both counties which helped lower CO levels and attain the NAAQS for carbon monoxide. In Lake County these changes were made mostly between 1980 and 1987. Changes were made primarily between the years 1977 and 1982 for Marion County.

Lake County

The East Chicago nonattainment area was determined because of traffic density and traffic emissions. Several controls were implemented and are outlined below.

1. The Federal Motor Vehicle Control Program (FMVCP) was introduced and was expected to create a 35% reduction in CO emissions. This reduction was expected to take place during the years 1981 to 1987 and placed controls on late-model vehicles.
2. Indiana implemented an Inspection and Maintenance (I/M) Program at five locations in Lake County as well as several mobile testing vans. It was expected that a 13.3 % reduction of CO emissions in Lake County would occur as a result of the I/M Program. The I/M program is still in place.
3. In 1982 a transportation control plan was developed for Lake County. This plan included a speed limit review, removing unwarranted stop signs and changing some traffic signals at lightly traveled intersections.

Marion County

The city of Indianapolis made several improvements in transportation. These changes are outlined below and displayed in Chart A on page eleven.

1. A "City Taxicab Ordinance" which began in 1977 mandated that the taxicab is the "vehicle of current or past two (2) model years (Section 17-665, Indianapolis code)." This Indianapolis city ordinance was expected to "reduce emission factors by 50% for 2000 VMT in the CBD."
2. By 1981, Metro Bus System completed improvements that were supposed to eliminate 2000 vehicle miles of travel per day. This was based on an estimated 8% passenger increase.
3. A car pool program was implemented by the Indianapolis Department of Metropolitan Development and the Division of Planning and Zoning in 1980. This eliminated 206,000 vehicle miles traveled (VMT). The car pool program resulted in a 17.1% decrease in miles traveled in the CBD.
4. Flexible working hours, (ie. staggered hours and a four day work week) encouraged by a city-sponsored program, were implemented in 1980. It was predicted that 667 fewer vehicle miles traveled per day would be achieved by the flexible working hours program.
5. Computer controlled traffic signals at 165 Central Business District (CBD) intersections were implemented. Engineering studies predicted that this change would increase vehicle speeds by 20%.
6. The city rerouted over 25,000 vehicles so that a 9% speed increase would occur. This traffic pattern change included Maryland and Washington Streets. Each of these streets was changed to a one way street. The completion of this project occurred in August of 1989.

A reduction of 667.1 tons from the 1977 CBD emissions was achieved as a result of the first six transportation improvements listed above.

3.4 Quality Assurance

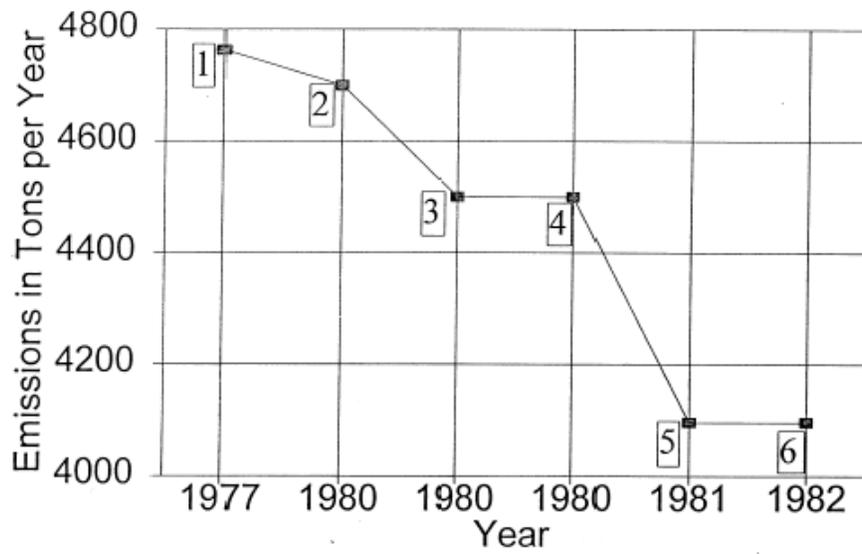
All the data shown in Enclosure A, Item 1 have been quality assured in accordance with 40 CFR 58.10, and the Indiana Quality Assurance Manual and found to be valid. The data have been recorded in the Aerometric Information and Retrieval System (AIRS) data base and through it, made available to the public.

3.5 Continued Monitoring

Indiana commits to continue monitoring CO in these counties, but based upon historic data intends to discontinue the Gary site, in Lake County. The Naval Avionics site in Marion County operated by the IDEM will probably be relocated to a nearby site. The site may be relocated, because the Naval Avionics facility is being expanded and there may not be room for the monitoring site. The Environmental Resource Management Division (ERMD) will continue monitoring for CO at the 50 North Illinois site. The monitoring data will continue to be quality assured to meet the requirements of 40 CFR 58.10. Connection to a central station will provide real time availability of the data and knowledge of any exceedances. All data will continue to be entered in AIRS on a timely basis in accordance with federal guidelines.

Year	Number	Emissions	Improvement
1977	1	4,763	Taxicab Ordinance
1980	2	4,700	Metro Bus Improvements
1980	3	4,500	Carpool Program
1980	4	4,500	Work Rescheduling
1981	5	4,096	Computer Controlled Traffic Signals
1982	6	4,096	Vehicle Rerouting

CHART A



4.0 EMISSION INVENTORY

4.1 Base Year Inventory

Table I, below, which was abstracted from the U.S. EPA Aerometric Information Retrieval Subsystem shows the emissions for major sources (those with emissions greater than 100 tons per year) for Lake and Marion Counties. A more comprehensive inventory for the two counties, of sources whose CO emissions are greater than 10 tons per year, is found in Enclosure B, Item 1 and summarized in Table I below.

TABLE I

CO Emissions Plant Totals for Major Sources 1985 to 1997

<u>SOURCE</u>	<u>AIRS FACILITY ID</u>	<u>YR.</u>	<u>EMISSIONS IN T/Y</u>
<u>Lake County</u>			
Amer Oil Co.	0003	85	4,203.99
Amoco Oil Co.	0003	88	5,302.00
Amoco Oil Co.	0003	90	5,412.83
Amoco Oil Co.	0003	93	6,523.63
Amoco Oil Co.	0003	96	6,005.71
Amoco Oil Co.	0003	97	6,130.54
ANR Pipeline	0069	85	135.00
ANR Pipeline	0069	90	61.49
ANR Pipeline	0069	93	96.96
ANR Pipeline	0069	96	293.85
ANR Pipeline	0069	97	242.96
Marblehead Lime Co.	0112	85	7,999.00
Marblehead Lime Co.	0112	88	1,009.18
Marblehead Lime Co.	0112	90	1,009.18
Marblehead Lime Co.	0112	96	461.96
Marblehead Lime Co.	0112	97	480.29

TABLE I - Continued

CO Emissions Plant Totals for Major Sources 1985 to 1997

<u>SOURCE</u>	<u>AIRS FACILITY ID</u>	<u>YR.</u>	<u>EMISSIONS IN T/Y</u>
Lake County - Continued			
NIPSCO Dean H Mitchell	0117	85	205.99
NIPSCO - Mitchell	0117	88	404.97
NIPSCO Dean H Mitchell	0117	90	313.77
NIPSCO Dean H Mitchell	0117	93	299.52
NIPSCO Dean H Mitchell	0117	96	295.05
NIPSCO Dean H Mitchell	0117	97	320.73
U.S. Steel Corp. Gary Works	0121	85	104,122.35
U.S. Steel Corp. Gary Works	0121	88	152,982.87
U.S. Steel Corp. Gary Works	0121	90	55,276.21
U.S. Steel Corp. Gary Works	0121	93	63,884.00
U.S. Steel Corp. Gary Works	0121	96	84,887.10
U.S. Steel Corp. Gary Works	0121	97	94,470.00
Advanced Aluminum Products	0201	88	147.40
Jupiter Aluminum Corporation	0201	90	37.97
American Maize Products Co.	0203	85	102.00
American Maize Products Co.	0203	88	950.80
American Maize Products Co.	0203	90	67.65
American Maize Products Co.	0203	93	93.99
Cerestar USA, Inc.	0203	96	82.12
Cerestar USA, Inc.	0203	97	68.84
Commonwealth Edison	0210	85	357.00
Com Ed-Stateline	0210	88	142.00
Commonwealth Edison	0210	90	147.97
Commonwealth Edison	0210	93	240.06
Commonwealth Edison	0210	96	155.84
Commonwealth Edison	0210	97	391.31

TABLE I - Continued

CO Emissions Plant Totals for Major Sources 1985 to 1997

<u>SOURCE</u>	<u>AIRS</u>	<u>YR.</u>	<u>EMISSIONS</u>
	<u>FACILITY</u>		<u>IN</u>
	<u>ID</u>		<u>T/Y</u>
<u>Lake County - Continued</u>			
American Steel Foundries	0302	90	42.61
American Steel Foundries	0302	93	136.28
American Steel Foundries	0302	96	33.12
American Steel Foundries	0302	97	27.11
East Chicago Municipal Incin.	0309	85	598.00
East Chicago Sanitary District	0309	88	85.95
East Chicago Sanitary District	0309	90	73.90
East Chicago Sanitary District	0309	93	CLOSED
Inland Steel Indiana Harbor W.	0316	85	58,099.29
Inland Steel	0316	88	35,000.01
Inland Steel Flat Products	0316	90	43,913.13
Inland Steel Company	0316	93	41,218.15
Inland Steel Company	0316	96	43,833.35
Inland Steel Company	0316	97	43,566.20
LTV Steel Company	0318	85	49,556.98
LTV Steel (J & L)	0318	88	30,398.99
LTV Steel Company	0318	90	30,426.91
LTV Steel Company	0318	93	30,607.93
LTV Steel Company	0318	96	20,172.63
LTV Steel Company	0318	97	20,954.79
Lake County Totals by Year		85	225,379.60
		88	226,518.22
		90	136,783.62
		93	143,100.76
		96	156,221.43
		97	166,652.77

TABLE I - Continued

CO Emissions Plant Totals for Major Sources 1985 to 1997

<u>SOURCE</u>	<u>AIRS FACILITY ID</u>	<u>YR.</u>	<u>EMISSIONS IN T/Y</u>
<u>Marion County</u>			
Bridgeport Brass dba Olin Brass	0005	93	321.91
Bridgeport Brass dba Olin Brass	0005	96	165.28
Bridgeport Brass dba Olin Brass	0005	97	165.28
Chrysler Corp. IN Foundry	0012	85	8,988.00
Chrysler Corporation Foundry	0012	88	6,609.00
Chrysler Corporation Foundry	0012	90	22,804.31
Chrysler Corporation Foundry	0012	94	32,196.96** Emissions for 1993 are
Chrysler Corporation Foundry	0012	96	32,273.23 incomplete. Therefore we
Chrysler Corporation Foundry	0012	97	25,357.00 are using 1994 emissions.
Indianapolis P & L Stout Sta	0033	85	394.00
Indianapolis P & L Stout Sta	0033	88	344.00
Indianapolis P & L Stout Sta	0033	90	324.95
IPALCO - Stout	0033	93	354.73
IPALCO - Stout	0033	96	430.72
IPALCO - Stout	0033	97	457.11
Indianapolis P & L Perry-K	0034	85	257.00
Indianapolis P & L Perry-K	0034	88	174.00
IPALCO - Perry K	0034	93	684.55
IPALCO - Perry K	0034	96	218.97
IPALCO - Perry K	0034	97	193.01
National Starch & Chemical	0042	85	309.00
National Starch & Chemical	0042	88	204.00
National Starch & Chemical	0042	96	22.81
National Starch & Chemical	0042	97	21.97
Reilly Industries, Inc.	0049	90	9,195.32
Reilly Industries, Inc.	0049	93	9,716.66
Reilly Industries, Inc.	0049	96	3,034.13
Reilly Industries, Inc.	0049	97	3,328.65

TABLE I - Continued

CO Emissions Plant Totals for Major Sources 1985 to 1997

<u>SOURCE</u>	<u>AIRS FACILITY ID</u>	<u>YR.</u>	<u>EMISSIONS IN T/Y</u>
Marion County - Continued			
Marathon Petroleum Co.	0051	90	116.84
Marathon Petroleum Co.	0051	93	141.42
			CLOSED
Citizens Gas & Coke	0061	85	414.00
Citizens Gas & Coke	0061	88	667.00
Citizens Gas & Coke	0061	90	94.79
Citizens Gas & Coke	0061	96	311.76
Citizens Gas & Coke	0061	97	334.16
Allison Gas Turbine Division	0070	85	172.00
Allison Gas Turbine Division	0070	88	140.00
Allison Engine Co.	0070	90	127.56
Allison Engine Co.	0070	93	22.95
Allison Engine Co.	0070	96	90.04
Allison Engine Co.	0070	97	39.95
Quemetco, Inc.	0079	93	307.88
Quemetco, Inc.	0079	96	177.47
Quemetco, Inc.	0079	97	13.39
Panhandle Eastern Pipeline Co.	0095	85	213.00
Panhandle Eastern Pipeline Co.	0095	88	213.00
Panhandle Eastern Pipeline Co.	0095	90	173.94
Panhandle Eastern Pipeline Co.	0095	93	264.67
Panhandle Eastern Pipeline Co.	0095	96	344.35
Panhandle Eastern Pipeline Co.	0095	97	312.02
Ogden Martin Systems of IN	0123	90	482.60
Ogden Martin Systems of IN	0123	93	72.06
Ogden Martin Systems of IN	0123	96	100.00
Ogden Martin Systems of IN	0123	97	109.00

TABLE I - Continued

CO Emissions Plant Totals for Major Sources 1985 to 1997

Marion County Totals by Year	85	10,747.00
	88	8,351.00
	90	33,320.31
	93	44,083.79
	96	37,168.76
	97	30,331.54

One of the requirements for an approvable redesignation SIP is a demonstration that improvement in air quality between the year violations occurred and the year attainment was achieved was the result of permanent and enforceable emission reductions and not because of temporary adverse economic conditions or unusually favorable meteorology.

A review of the available data (see Enclosure B, Item 2) shows that in Marion County, CO emissions from sources emitting more than 1000 tons per year accounted for approximately 93% of all point source emissions for the year 1996. In Lake County, CO emissions from sources emitting more than 1000 tons per year accounted for an average of 99% of all point source emissions in 1996 and all of the years listed above. The emissions from these sources for each year they are available are shown with brief comments in Enclosure B, Item 1. Table II shows the distribution of plants listed in the 1985-1997 inventory.

TABLE II

Distribution of Plants Listed in 1985-1997 Inventory

<u>County</u>	<u># of Plants ≥ 1000 tpy</u>	<u># of Plants ≥ 100 tpy</u>	<u>Total in Inventory</u>	<u>Year</u>
Lake	5	10	17	85
Lake	5	9	18	88
Lake	4	7	19	90
Lake	5	8	14	93
Lake	4	8	13	96
Lake	4	8	16	97

TABLE II-Continued

Distribution of Plants Listed in 1985-1997 Inventory

<u>County</u>	<u># of Plants > 1000 tpy</u>	<u># of Plants > 100 tpy</u>	<u>Total in Inventory</u>	<u>Year</u>
Marion	1	7	20	85
Marion	1	7	20	88
Marion	2	7	17	90
Marion	2	8	18	93
Marion	3	11	19	96
Marion	3	9	17	97

4.2 Emission Projections

By opting to comply under the limited maintenance plan, the IDEM is not required to project emissions for Lake and Marion Counties over the maintenance period. However, the IDEM has chosen to provide this additional information within this redesignation request document.

Emissions were projected to the year 2007 to allow for any possible delays in redesignation. As shown in Enclosure B, Item 2 the vast majority of CO emissions originate from a handful of major sources (mainly steel plants in Lake County and a foundry in Marion County). Projections for these are based on EGAS defaults or information from sources. Details of the projections are shown in Enclosure C, Item 1 and the graphs in Enclosure C, Item 3. A summary is presented in Table III on the following page.

TABLE III

Projected Growth 1996-2007 Summary for a Typical Winter Day

<u>County</u>	<u>Source Type</u>	<u>Base Yr.</u>	<u>Projected Yr.</u>	<u>Change</u>
		<u>1996</u>	<u>2007</u>	
Lake	Mobile Sources	302.00	246.00	-18.6%
	Area Sources	46.00	38.00	-17.4%
	Steel Plants	383.55	414.23	+8.0%
	Other Pt. Sources	18.57	10.21	-45.0%
	Total	750.12	708.44	- 5.8%
Marion	Mobile Sources	911.00	944.00	+ 3.6%
	Area Sources	140.00	114.00	-18.6%
	Foundry	103.99	120.63	+16.0%
	Other Pt. Sources	4.08	4.43	+ 8.5%
	Total	1159.07	1183.06	+ 2.0%

The mobile source emissions include the Vehicle Miles Traveled (VMT) emissions. These VMT emissions were taken from the Highway Performance Monitoring System. The CO emissions for mobile sources, for a typical winter day, are expected to decrease in Lake County and increase slightly in Marion County, by the projected year.

Area Source emissions listed above include stationary area sources, such as furnaces, as well as non-road area sources, such as lawnmowers. In both counties, area source emissions for a typical winter day are expected to decrease by the projected year.

As noted above, some of the CO point source emissions are expected to increase in both Lake and Marion Counties. By the projected year of 2007, the overall CO emissions for a typical winter day in Lake County are expected to decrease by about 5.8 percent. The CO emissions for a typical winter day in Marion County are expected to increase by about 2 percent by the projected year. However, the projected levels for Marion County will be considerably lower than the CO levels in 1986, when the last exceedance occurred. These trends are shown in the graphs in Enclosure C, Item 3.

4.3 Demonstration of Maintenance

Ambient air quality data from all monitoring sites indicate that the National Ambient Air Quality Standards for carbon monoxide were being met in 1996. Total emissions of CO from all sources are projected to decrease between 1996-2007. Therefore, attainment is expected to be maintained through the projected year 2007.

By opting to comply under the limited maintenance plan, the U.S. EPA provides that Lake and Marion Counties can be considered to satisfy the maintenance demonstration requirement because both counties are nonclassifiable areas whose monitoring data shows that the areas are meeting the air quality criteria for a limited maintenance area. Specifically, the CO design value for the years 1996 and 1997 in Lake County is 3.8 ppm, and is 3.9 ppm in Marion County. Both counties therefore qualify for the limited maintenance plan option because their design values are at or below 7.65 ppm (85% of exceedance levels of the CO NAAQS).

In keeping with the EPA's guidance, the Department will continue to monitor emissions in both counties to ensure the CO design values for the areas remain at or below 7.65 ppm. Additionally, the Department will continue to apply the following measures in both counties:

1. Application of prevention of significant deterioration (PSD) requirements for new or expanded sources.
2. Continued implementation of any control measures already in the SIP.
3. Continued applicability of Federal measures (such as the Federal motor vehicle control program).

4.4 Permanent and Enforceable Emission Reductions

Permanent and enforceable reductions of carbon monoxide emissions in Marion County has contributed to the attainment of the carbon monoxide standard by permanently rerouting downtown traffic. Reductions of carbon monoxide emissions in Lake County were attained by controlling auto emissions.

5.0 CONTROLS AND REGULATIONS

5.1 Implementation of Past SIP Revisions

The Indiana rules controlling carbon monoxide emissions are in effect and are being enforced. Indiana rule 326 IAC 9-1-2 requires all CO sources in Indiana to be in compliance with specified limits. All stationary sources of carbon monoxide commencing operation after March 21, 1972 are covered.

For Marion County, compliance is monitored by inspectors from the Indianapolis Air Pollution Control Section. It is a local agency with powers delegated from the State. Oversight is provided by IDEM.

In Lake County compliance is monitored by inspectors from the Hammond Air Pollution Control Department and the Gary Division of Air Pollution Control and IDEM's Northwest Office. The Department continues to manage the I/M program as per 326 IAC 13-1.1-1.

5.2 New Source Review Provisions

Indiana has a longstanding and fully implemented New Source Review procedure. This is addressed in rule 326 IAC 2. Currently, nonattainment area new source review applies (326 IAC 2-3). The implementation of this program has been delegated to the State by US EPA.

Any facility that is not listed in the 1990 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 any applicable permit rule requirement. The review process will be identical to that used for new sources.

5.3 Controls to Remain in Effect

Indiana has no intention of dropping or relaxing any of the already implemented control measures listed above after redesignation. Indiana hereby commits that any changes to its rules, or emission limits applicable to CO sources (326 IAC 9-1-1 and 326 IAC 9-1-2), will be submitted to U.S. EPA for approval as a SIP revision. This will include, where appropriate, a demonstration based on modeling that the standard will be maintained. Indiana does intend, upon redesignation, to apply 326 IAC 2-2 (Prevention of Significant Deterioration Requirements) rather than 326 IAC 2-3 (Emission Offset) for permitting any new sources or modifications. Indiana, through its Office of Enforcement, has in place the resources required to enforce actively any violations of its rules or permit provisions. After redesignation, it intends to continue enforcing all rules that relate to

the emission of carbon monoxide in the subject areas.

5.4 Conformity

Indiana adopted a general conformity (326 IAC 16-3-1) rule based on the federal standards on June 6, 1996. Likewise, a transportation conformity rule (326 IAC 19-2-1) was adopted to incorporate the revised federal standards on April 28, 1997. The consultation provisions of the transportation conformity rule are outlined and addressed via memorandums of understanding (MOUs) with the appropriate affected agencies. The transportation conformity consultation MOUs will be submitted to U.S. EPA along with State Rule 326 IAC 19-2-1 as a State Implementation Plan (SIP) in the near future.

Mobile source emissions have been determined to be a significant contributor to the Indianapolis CO maintenance area in the past. Therefore, whenever a regionally significant non-exempt project is planned for the Indianapolis CO maintenance area, a project-specific hot spot analysis will be conducted as part of the regional transportation conformity process. The hot spot analysis may be done as part of the environmental impact study for the project. The transportation conformity process and procedures for Marion County are outlined within an interagency MOU among the affected transportation and air quality agencies.

6.0 CORRECTIVE ACTIONS

6.1 Commitment to Revise Plan

Indiana hereby commits to review and, if necessary, revise its Maintenance plans for Lake and Marion Counties eight years after redesignation to attainment of the CO NAAQS, as required by Section 175(A) of the CAA. If Lake and Marion Counties can demonstrate the design values for the counties continue to be at or below 7.65 ppm or 85 % of the CO NAAQS, the limited maintenance plan option will be continued for the second ten-year maintenance plan.

6.2 Commitment for Contingency Measures

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

A Level I response would occur in the event that the carbon monoxide standard is violated. An evaluation would be performed to determine all additional control measures needed to assure future attainment of the National Ambient Air Quality Standard for carbon monoxide. In this case measures that could be implemented in a short time would be selected so as to be in place within twelve months after the Department verifies that a violation has occurred.

A Level II response would be implemented in the event that the monitored ambient carbon monoxide values exceed 90 percent of the level of any ambient air quality standard at any site in the affected area.

A Level II response will consist of a study to determine whether the noted trends are 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 Level II trigger will take place as expeditiously as possible but in no event later than 18 months after the Department verifies that the levels specified have been exceeded.

Adoption of any control measures is subject to necessary administrative and legal approval. This will include publication of notices, an opportunity for public hearing, and other measures required by Indiana law (IC 13-14-8-7) for rule making by the Indiana Air Pollution Control Board. This law provides accelerated procedures for adopting interim control measures in the event of an emergency affecting public health.

In any event, the implementation plan would include an analysis, by a method mutually agreed

upon by Indiana and the U.S. EPA, to demonstrate that the proposed measures are adequate to return the area to attainment.

6.3 List of Contingency Measures

Contingency measures to be considered will be selected from the following list or from any other measure deemed appropriate and effective at the time the selection is made. The selection between measures will be based upon cost-effectiveness, emission reduction potential, economic and social considerations or other factors that IDEM deems appropriate. IDEM will solicit input from all interested and affected persons in the area prior to selecting appropriate contingency measures.

- 1) One or more transportation control measures:
 - A. Trip reduction programs, including but not limited to, employer-based transportation management plans, area wide rideshare programs, and work schedule changes;
 - B. Transit improvements;
 - C. Traffic flow improvements.
- 2) One or more stationary source control measures.

IDEM will examine the annual point source inventory for sources with increased emissions and new sources. 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.

6.4 List of Sources

The carbon monoxide sources potentially subject to future controls is by necessity basically the same as the current list of major sources which is found in Section 4.1, Table I above. As noted in Sections 6.2 and 6.3 above, sources subject to additional controls will be those which the planned study shows are responsible for triggering the contingency measures and the control of which will most effectively help to ensure compliance with the standards. In addition to reviewing the known sources, the possibility that the problem is attributable to new or previously unknown sources will not be overlooked. Also, IDEM would consider additional ways in which motor vehicle emissions could be reduced.

7.0 PUBLIC PARTICIPATION

In accordance with 40 CFR 51.102 public participation in the request was provided for as follows:

Notice of availability of the complete document and a public hearing was published in the Indianapolis Star and The Times, Munster.

Public hearings were held:

Monday, November 8, 1999, 7:00pm (local time) at the Ivy Tech De la Garza Center, 410 E. Columbus Drive, East Chicago, Indiana in Room 100, and

Wednesday, November 10, 1999, 7:00pm (local time) at the Indiana Government Center South, 402 West Washington Street, Indianapolis, Indiana, in Conference Room D.

Copies of the proofs of publication will be found in Enclosure E and the transcripts of the hearings will be found in Enclosure F.

8.0 CONCLUSION

Marion and Lake Counties in Indiana have attained the federal ambient carbon monoxide standards and complied with the applicable provisions of the 1990 Amendments to the Clean Air Act regarding redesignation of primary carbon monoxide nonattainment areas. Documentation to that effect is contained herein. A Request and Limited Maintenance Plan has been prepared that meets the requirement of Section 110(a)(1) of the 1990 Clean Air Act Amendments and is in accordance with U.S. EPA memorandum dated October 6, 1995. Enclosure D addresses all requirements of the plan including some that may not be covered above.

The State of Indiana hereby requests that Marion and Lake Counties be redesignated to carbon monoxide attainment simultaneously with the U.S. EPA approval of the Indiana State Implementation Plan provisions contained herein.

Appendix B: Federal Register Notice, Approval of Redesignation Request, January 19, 2000, Effective March 20, 2000

[Federal Register: January 19, 2000 (Volume 65, Number 12)]
[Rules and Regulations]
[Page 2883-2889]
From the Federal Register Online via GPO Access [wais.access.gpo.gov]
[DOCID:fr19ja00-15]

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 52 and 81

[IN116-1a, FRL-6522-1]

Approval and Promulgation of Implementation Plans; and
Designation of Areas for Air Quality Planning Purposes; Indiana

AGENCY: Environmental Protection Agency (EPA).

ACTION: Direct final rule.

SUMMARY: The EPA is approving a request from Indiana for redesignation of the carbon monoxide (CO) nonattainment areas in Lake and Marion Counties, Indiana to attainment of the CO national ambient air quality standards (NAAQS). The EPA is also approving the plans for maintaining the CO standard in the portions of these counties currently designated as not attaining the CO NAAQS. On December 21, 1999, the State of Indiana submitted a redesignation request and revision to the Indiana State Implementation Plan (SIP) that included maintenance plans for both Lake and Marion Counties.

DATES: This rule is effective on March 20, 2000, unless EPA receives adverse written comments by February 18, 2000. If adverse comment is received, EPA will publish a timely withdrawal of the rule in the Federal Register and inform the public that the rule will not take effect.

ADDRESSES: Send written comments to: J. Elmer Bortzer, Chief, Regulation Development Section, Air Programs Branch (AR-18J), Environmental Protection Agency, 77 West Jackson Boulevard, Chicago, Illinois 60604.

Copies of the material submitted by the State in support of these requests are available for inspection at the Environmental Protection Agency, Region 5, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604. (Please telephone Patricia Morris

at (312) 353-8656 before visiting the Region 5 Office.)

FOR FURTHER INFORMATION CONTACT: Patricia Morris, Environmental Scientist, Regulation Development Section, Air Programs Branch (AR-18J), EPA, Region 5, Chicago, Illinois 60604, (312) 353-8656.

SUPPLEMENTARY INFORMATION: Throughout this document wherever ``we,''
``us,''
or ``our'' is used we mean EPA.

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Introduction

Under the Clean Air Act (Act), EPA may redesignate areas to attainment if sufficient data are available to warrant such changes and the area meets the criteria contained in section 107(d)(3) of the Act. This includes full approval of a maintenance plan for the area. EPA may

approve a maintenance plan which meets the requirements of section 175A. On December 21, 1999, the State of Indiana submitted a redesignation request and section 175A maintenance plan for the Marion County (Indianapolis) and the Lake County (East Chicago) CO nonattainment areas. When approved, the section 175A maintenance plan will become a federally enforceable part of the SIP for these areas.

The following is a detailed analysis of the Marion County and Lake County, Indiana, Redesignation Request and section 175A Maintenance Plan SIP submittal.

I. When were these areas originally designated nonattainment for Carbon Monoxide?

EPA originally designated both the Marion County and the Lake County areas as CO nonattainment areas under section 107 of the Act on March 3, 1978 (43 FR 8962). In 1990, Congress amended the Act (1990 Act) and added a provision which authorizes EPA to classify nonattainment areas according to the degree of severity of the nonattainment problem. In 1991, EPA designated and classified all areas. Both counties were designated as nonattainment and not classified for CO (40 CFR 81.315). This is because at the time of the designation and classification in 1991, air quality monitoring data recorded in the area did not show violations of the CO NAAQS. However, the State had not completed a redesignation request showing that it had complied with all of the requirements of section 107 of the Act. As a result, EPA designated the area as nonattainment, but did not establish a nonattainment classification. The preamble to the Federal Register document for the 1991 designation contains more detail on this action (56 FR 56694).

Since the EPA's 1991 designation, monitors in both the Marion County and Lake County areas have not recorded a violation of the CO NAAQS. As a result, the area is eligible for redesignation to attainment consistent with the 1990 Act. On December 21, 1999, Indiana submitted a SIP revision request to the EPA which contained the redesignation request and maintenance plan, to ensure continued attainment of the CO standard for both the Marion County and Lake County areas. The State held public hearings on the redesignation request and maintenance plans on November 8 and 10, 1999.

II. What are the geographic boundaries of the CO nonattainment areas?

The CO nonattainment areas are much smaller than Lake County and Marion County, respectively. The Lake County nonattainment area is in the City of East Chicago (area bounded by Columbus Drive on the north, the Indiana Harbor Canal on the west, 148th St. if extended, on the south and Euclid Avenue on the east). The Marion County nonattainment area is in the central downtown area of Indianapolis (area bound by 11th St. on the north, Capitol on the west, Georgia

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St. on the south and Delaware on the east).

III. What are the criteria for redesignation?

The 1990 Act revised section 107(d)(3)(E), which specifies five

requirements that an area must meet to be redesignated from nonattainment to attainment. These requirements are:

1. The area has attained the applicable NAAQS;
2. The area has met all relevant requirements under section 110 and part D of the Act;
3. The area has a fully approved SIP under section 110(k) of the Act;
4. The air quality improvement is permanent and enforceable; and,
5. The area has a fully approved maintenance plan pursuant to section 175A of the Act.

IV. Has the State met the criteria for redesignation?

The EPA has reviewed the Indiana redesignation request for the Marion County area and the Lake County area and finds that the request for both of the areas meets the five requirements of section 107(d)(3)(E).

A. What data shows attainment of the CO NAAQS in Lake and Marion Counties in Indiana

There are currently 2 monitoring sites collecting CO data in Lake County, one at East Chicago Avenue and the other in Gary at Broadway and 15th Avenue. The design value for Lake County for the years 1996 and 1997 is 3.8 ppm. Both sites are showing attainment of the 8-hour and the 1-hour CO standard. Additional historic data are included in the State's request showing the historic downward trend and demonstrating that the area has been monitoring attainment since before 1991.

Currently 2 CO monitoring sites are operating in the Indianapolis area, one at Naval Avionics Center and the other at North Illinois Street. The CO design value for the years 1996 and 1997 in Marion County is 3.9 ppm. Both sites are showing attainment of the 8-hour and the 1-hour CO standard. Additional historic data are included in the State request.

The Indiana request is based on an analysis of quality-assured CO air quality data. Ambient air monitoring data for calendar years 1991 through 1998 show no violations of the CO NAAQS in either the Marion County or the Lake County area. The State collected this data in an EPA approved, quality assured, National Air Monitoring System monitoring network.

As a result, the areas meet the first statutory criterion for redesignation to attainment of the CO NAAQS. The State has committed to continue monitoring in these areas in accordance with 40 CFR part 58. As discussed further below, the design values for Lake (3.8 ppm) and Marion (3.9 ppm) Counties meet the test for the limited maintenance plan option since the design values are well below the 7.8 ppm level.

B. How does the State meet the applicable requirements of section 110 and part D?

EPA fully approved Indiana's CO rules on October 28, 1975, (41 FR 35677) as meeting the requirements of section 110(a)(2). Congress amended the Act in 1977 (the 1977 Act) to add part D. The 1990 Act modified section 110(a)(2) and, under part D, revised section 172 and added new requirements for classification of nonattainment areas. Therefore, in addition to complying with requirements of the 1977 Act,

for purposes of redesignation, the Indiana SIP must satisfy all applicable requirements of section 110(a)(2) and part D added by the 1990 amendments. The amendments and Part D also added emission reduction requirements for carbon monoxide areas which were classified as moderate and serious. Areas such as Lake and Marion County, which were non-classifiable, did not have additional emission reduction requirements. EPA has reviewed the SIP to ensure that it contains all measures that were required under the amended 1990 Act prior to and at the time Indiana submitted its redesignation request for the Lake County and Marion County areas.

i. Section 110 Requirements

The Lake County and Marion County areas SIP meets the requirements of amended section 110(a)(2). The requirements for enforceable emission limits, control measures, and enforcement did not change in substance and, therefore, EPA believes that the pre-amendment SIP met these requirements. The amendments added requirements for determining SIP completeness. The State has met these requirements. The EPA has analyzed the Indiana SIP and determined that it is consistent with the requirements of amended section 110(a)(2).

ii. Part D Requirements

Before EPA may redesignate the Lake County and Marion County areas to attainment, the SIP must have fulfilled the applicable requirements of part D. Under part D, an area's classification indicates the requirements to which it is subject. Subpart 1 of part D sets forth the basic nonattainment requirements applicable to all nonattainment areas, classified as well as not classifiable. EPA designated both the Lake County and Marion County areas as ``non-classifiable'' CO nonattainment areas (56 FR 56694, November 6, 1991), codified at 40 CFR 81.323. Therefore, to be redesignated to attainment, the State must meet the applicable requirements of subpart 1 of part D--specifically sections 172(c) and 176, (but not the requirements of subpart 3 of part D).

a. Subpart 1 of Part D--Section 172(c) Provisions

Section 172(c) sets forth general requirements applicable to all nonattainment areas. Under 172(b), the section 172(c) requirements are applicable as determined by the Administrator, but no later than 3 years from the date of the nonattainment designation. As discussed below, Indiana has satisfied the section 172(c) requirements.

``Reasonable Further Progress'' (RFP), required by section 110, is annual incremental reductions that a nonattainment area must make toward attainment of the NAAQS. This requirement only has relevance during the time it takes an area to attain the NAAQS. Because the Lake County and Marion County areas have attained the NAAQS, the SIP has already achieved the necessary RFP toward that goal.

In addition, because the Lake County and Marion County areas have attained the NAAQS and are no longer subject to an RFP requirement, the section 172(c)(9) contingency measures are not applicable, unless EPA does not approve the redesignation request and maintenance plan. However, section 175A contingency measures still apply. The State has submitted an acceptable section 175A contingency plan.

Similarly, once EPA redesignates an area to attainment, nonattainment new source review (NSR) requirements are not applicable. The area then becomes subject instead to prevention of significant deterioration (PSD) requirements (45 FR 29790). The State has an approved NSR program (59 FR 51108, October 7, 1994). In addition, EPA has delegated the federal PSD program at 40 CFR 52.21 to the State of Indiana. Therefore, the State's demonstration is acceptable.

The General Preamble (57 FR 13560, April 16, 1992) explains that

section 172(c)(1) requires the plans for all nonattainment areas to provide for the implementation of all Reasonably

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Available Control Measures (RACM) as expeditiously as practicable. The EPA interprets this requirement to impose a duty on all nonattainment areas to consider all available control measures and to adopt and implement such measures as are reasonably available for implementation in the area as components of the area's attainment demonstration. Because the area has reached attainment, no additional measures are needed to provide for attainment.

b. Subpart 1 of Part D--Section 176 Conformity Provisions

Section 176(c) of the Act requires States to establish criteria and procedures to ensure that federally supported or funded projects conform to the air quality planning goals in the applicable State SIP. The requirement to determine conformity applies to transportation plans, programs and projects developed, funded or approved under title 23 U.S.C. or the Federal Transit Act ('`transportation conformity''), as well as to all other federally supported or funded projects ('`general conformity''). Section 176 further provides that state conformity revisions must be consistent with Federal conformity regulations that the Act required the EPA to promulgate. EPA approved Indiana's general conformity rule on December 23, 1997 (62 FR 67000). Indiana does not yet have an approved transportation conformity rule. Indiana has revised its transportation conformity rule several times and must undertake further revision to comply with a March 2, 1999, court decision (see 62 FR 43780). Indiana has committed to submit State transportation conformity regulations consistent with the Federal conformity regulations when revised to meet the court decision.

The EPA believes it is reasonable to interpret the conformity requirements as not applying for purposes of evaluating the redesignation request under section 107(d). The rationale for this is based on a combination of two factors. First, the requirement to submit SIP revisions to comply with the conformity provisions of the Act continues to apply to areas after redesignation to attainment, since such areas would be subject to a section 175A maintenance plan. Second, EPA's Federal conformity rules require the performance of conformity analyses in the absence of federally approved State rules. Therefore, because areas are subject to the conformity requirements regardless of whether they are redesignated to attainment and must implement conformity under Federal rules if State rules are not yet approved, the EPA believes it is reasonable to view these requirements as not applying for purposes of evaluating a redesignation request. Consequently, EPA may approve the CO redesignation request for the Lake and Marion County areas notwithstanding the lack of a fully approved transportation conformity SIP.

Included in the December 21, 1999, submittal is a commitment by the State to satisfy the applicable requirements of the final transportation conformity rules. This is acceptable since the Federal transportation conformity rule applies to maintenance areas.

For purposes of transportation conformity, the areas have been considered ``hot spot'' areas. The nonattainment areas are too small for either a budget or ``build/no-build'' analysis to be effective in determining conformity. The State has determined that CO hot spot analysis is required for any regionally significant transportation projects to be completed in these areas. The limited maintenance plan

option (discussed in detail below) supports this by concluding that ``an emissions budget may be treated as essentially not constraining for the length of the maintenance period because it is unreasonable to expect that such an area will experience so much growth in that period that a violation of the CO NAAQS would result.'' The hot spot analysis will continue to be required for any regionally significant transportation projects to be completed in these areas.

c. Subpart 3 Requirements

As noted in the General Preamble, the subpart 3 requirements do not apply to ``non-classifiable'' CO nonattainment areas (57 FR 13535). EPA classified the Lake County and Marion County areas as ``not classified'' CO nonattainment areas on November 6, 1991 (56 FR 56694) codified at 40 CFR 81.323. Therefore, to be redesignated to attainment, the State does not have to meet the requirements of subpart 3 of part D.

C. Fully Approved SIP Under Section 110(k) of the Act

As noted above, because the areas are ``non-classifiable'' nonattainment areas, the 1990 Act did not establish additional requirements under subpart 3. Prior to the 1990 Amendments, EPA had fully approved the State's CO SIP. Since the areas are not subject to the subpart 3 requirements, no additional requirements exist under section 110(k) which the State must address prior to redesignation.

D. Improvement in Air Quality Due to Permanent and Enforceable Measures

The State must demonstrate that the actual enforceable emission reductions are responsible for the improvement in air quality.

The State provided a detailed discussion of the emission reductions of CO between 1977 and 1996 which it maintains were responsible for the improvement in air quality. Reductions occurred at stationary sources and mobile sources. The State made all emission estimates using EPA approved emissions inventory techniques. Consistent with EPA emission inventory guidance, the emission inventory represents average winter day actual emissions for the Lake and Marion Counties areas.

On-road mobile sources represent the majority of mobile source emissions in the Marion County CO nonattainment area. Reductions in mobile source CO emissions occurred through the Federal Motor Vehicle Control Program (FMVCP) and a number of transportation control measures that were implemented during the late 1970s and 1980s. These measures are still in effect today. In Marion County, 667.1 tons per year of CO were eliminated from the 1977 central business district emissions through transportation control measures (TCMs). After these TCMs were implemented, the area started monitoring attainment of the CO standard.

In Lake County, the steel plants currently contribute over half of the CO emissions in the base year inventory. However, Indiana determined that traffic density and traffic emissions were the primary cause of the CO nonattainment problem. Emissions from mobile sources and other point sources have been reduced through controls such as the FMVCP on motor vehicles and reasonably available control technology (RACT) on stationary sources. Indiana's documentation uses emissions inventory data taken from the Aerometric Information and Retrieval System (AIRS) to demonstrate the reductions in stationary source emissions. In Lake County, emissions from point sources have decreased from 225,379 tons per year in 1985 to 156,221 tons per year in 1996. However, EPA expects some growth in the future. Mobile source emission

reductions were made through the FMVCP. A 35% reduction took place during the years 1981 to 1987 from these controls. The Lake County basic vehicle inspection and maintenance (I/M) program has resulted in a 13% reduction in CO emissions in Lake County. An enhanced vehicle I/M program is currently being operated in Lake County which will result in additional reductions. However, Indiana did not quantify the

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additional expected reductions from the enhanced vehicle I/M program.

Indiana included actual emissions for point sources from 1985 through 1997. Indiana used actual activity levels, emissions factors based on the EPA Factor Information Retrieval System Version 6.1B, and control technology effectiveness to estimate emissions. All emissions are recorded in the AIRS facility data system.

Although not required under the limited maintenance plan option (discussed in detail below), Indiana projected point source emissions from the base year of 1996 out to the year 2007 by applying the Emissions Growth Analysis System (EGAS) to the 1996 point source inventory.

The State has adequately demonstrated that the improvement in air quality is due to permanent and enforceable emission reductions of CO as a result of the federally enforceable FMVCP and local transportation control measures in Marion County and federally enforceable FMVCP, vehicle inspection and maintenance and stationary control measures in Lake County.

E. Fully Approved Maintenance Plan Under Section 175A

Section 175A of the Act sets forth the elements of a maintenance plan for areas seeking redesignation from nonattainment to attainment. The plan must demonstrate continued attainment of the applicable NAAQS for at least 10 years after the EPA approves a redesignation to attainment. Eight years after the redesignation, the State must submit a revised maintenance plan which demonstrates attainment for the 10 years following the initial 10-year period. To address potential future NAAQS violations, the maintenance plan must contain contingency measures, with a schedule for implementation adequate to assure prompt correction of any air quality problems.

Under section 175A(d) contingency provisions must include a requirement that the State will implement all control measures that were in the SIP prior to redesignation as an attainment area.

In this action, EPA is approving the State of Indiana's maintenance plan for the Lake County and Marion County areas because EPA finds that Indiana's submittal meets the requirements of section 175A. The details of the maintenance plan requirements and how Indiana's submittal meets these requirements are detailed below.

i. What is the limited maintenance plan option?

The EPA issued guidance on October 6, 1995, titled ``Limited Maintenance Plan Option for Nonclassifiable CO Nonattainment Areas.'' This option is only available to CO nonattainment areas with design values at or below 7.65 ppm (85 percent of exceedance levels of the CO ambient air quality standard). The limited maintenance plan option allows areas that are well below the national ambient air quality standard (design value at or below 7.65 ppm) to submit a less rigorous maintenance plan than was formerly required. The limited maintenance plan must meet certain core requirements. These requirements are:

a. The State must submit an attainment emissions inventory based on actual ``typical winter day'' emissions of CO in the monitored attainment years.

b. The maintenance demonstration does not need to project emissions over the maintenance period. The design value criteria are expected to provide adequate assurance of maintenance over the initial 10-year period.

c. The State must continue operating an approved air quality monitoring network.

d. The State must have a contingency plan and specific indicators or triggers for implementation of the contingency plan.

e. The conformity determination under a limited maintenance plan can consider the emissions budget as essentially not constraining for the length of the initial maintenance plan.

ii. How has the State met the limited maintenance plan requirements?

a. Emissions Inventory. The State has adequately developed an attainment emission inventory for 1996 for both Lake County and Marion County.

Table 1. CO Maintenance Emission Inventory Summary 1996
[tons per typical winter day] for Marion County

Category	1996 tpd
Mobile sources.....	911
Area sources.....	140
Foundry.....	104
Other point sources.....	4
Total.....	1159

Table 2. CO Maintenance Emission Inventory Summary 1996
[tons per typical winter day] for Lake County

Category	1996 tpd
Mobile sources.....	302
Area sources.....	46
Steel plants.....	384
Other point sources.....	19
Total.....	751

-
The State has adequately demonstrated continued attainment of the CO NAAQS. The design values for the areas are well below the NAAQS for CO. The State has demonstrated permanent and enforceable reductions from the 1980 time frame when the areas were violating the CO NAAQS.

b. Projection of Emissions Over the Maintenance Period. Although not required for a limited maintenance plan approval, the State projected emissions out to the 2007 time period. The State documentation projects a small increase in emissions for Marion County. However, the projected levels for Marion County will be considerably under the CO levels prior to 1987, when the last exceedance occurred.

c. Verification of Continued Attainment. In the submittal the State commits to continue to operate and maintain the network of ambient CO monitoring stations in accordance with provisions of 40 CFR part 58 to demonstrate ongoing compliance with the CO NAAQS.

The submittal presents the tracking plan for the maintenance period which consists of continued CO monitoring. The State will continue to monitor CO levels throughout the Lake County and Marion County areas to demonstrate ongoing compliance with the CO NAAQS.

d. Contingency Plan. The contingency plan contains two levels of triggers: Indiana will implement a Level I response if there is a monitored air quality violation of the CO NAAQS, as defined in 40 CFR 50.8. The trigger date will be the date that the State certifies to EPA that the air quality data are quality assured, which will be no later than 30 days after monitoring an ambient air quality violation. In this case, Indiana will select measures that could be implemented in a short time so as to be in place as rapidly as possible.

Indiana will implement a Level II response in the event that monitored ambient CO values exceed 90 percent of the level of any ambient air quality standard at any site in the affected area. A Level II response consists of undertaking a study to determine whether the noted trends are likely to

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continue; and, if so, implementing the control measures necessary to reverse the trend.

The level of CO emissions in the Lake County and Marion County areas will largely determine the ability to stay in compliance with the CO NAAQS in the future. As required by section 175A of the Act, Indiana has provided contingency measures with a schedule for implementation if a future CO air quality problem occurs. Contingency measures in the plan include one or more transportation control measures such as trip reduction programs, transit improvements and traffic flow improvements. In addition, Indiana will examine the point source inventory for sources with increased emissions and new sources. Indiana will implement contingency measures with full public participation. For a Level I response, Indiana commits to implementation within 12 months after it becomes aware that a violation occurred.

e. Conformity Determinations. Conformity determinations will be made using a ``hot-spot'' analysis to assure that any new transportation projects in the current CO areas do not cause or contribute to CO nonattainment. Mobile source emissions budgets have not been delineated for Lake or Marion Counties. The limited maintenance plan option allows the State to consider the emissions

budget as essentially not constraining for the length of the initial maintenance plan.

iii. Commitment to Submit Subsequent Maintenance Plan Revisions

The State has committed to submit a new maintenance plan within eight years of the redesignation of the Lake County and Marion County areas, as required by section 175(A)(b). This subsequent maintenance plan must constitute a SIP revision and provide for the maintenance of the CO NAAQS for a period of 10 years after the expiration of the initial 10 year maintenance period.

V. Rulemaking Action

EPA is approving, the Lake County and Marion County redesignation request for CO because the State has complied with the requirements of section 107(d)(3)(E) of the Act. In addition, EPA is approving the Lake County and Marion County CO maintenance plans as a SIP revision meeting the requirements of section 175A.

EPA is publishing this action without prior proposal because EPA views this as a noncontroversial revision and anticipates no adverse comments. However, in a separate document in this Federal Register publication, EPA is proposing to approve the SIP revision should adverse written comments be **filed**. This action will be effective March 20, 2000 without further notice unless EPA receives relevant adverse written comment by February 18, 2000. Should the Agency receive such comments, it will publish a withdrawal informing the public that this action will not take effect. Any parties interested in commenting on this action should do so at this time. If no such comments are received, the public is advised that this action will be effective on March 20, 2000.

VI. Administrative Requirements

A. Executive Order 12866

The Office of Management and Budget (OMB) has exempted this regulatory action from Executive Order 12866, entitled ``Regulatory Planning and Review.''

B. Executive Order 12875

Under Executive Order 12875, EPA may not issue a regulation that is not required by statute and that creates a mandate upon a state, local, or tribal government, unless the Federal government provides the funds necessary to pay the direct compliance costs incurred by those governments. If the mandate is unfunded, EPA must provide to the Office of Management and Budget a description of the extent of EPA's prior consultation with representatives of affected state, local, and tribal governments, the nature of their concerns, copies of written communications from the governments, and a statement supporting the need to issue the regulation.

In addition, Executive Order 12875 requires EPA to develop an effective process permitting elected officials and other representatives of state, local, and tribal governments ``to provide meaningful and timely input in the development of regulatory proposals containing significant unfunded mandates.''

Today's rule does not create a mandate on state, local or tribal governments. The rule does not impose any enforceable duties on these entities. Accordingly, the

requirements of section 1(a) of Executive Order 12875 do not apply to this rule.

On August 4, 1999, President Clinton issued a new executive order on federalism, Executive Order 13132, (64 FR 43255 (August 10, 1999),) which will take effect on November 2, 1999. In the interim, the current Executive Order 12612, (52 FR 41685 (October 30, 1987),) on federalism still applies. This rule will not have a substantial direct effect on States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government, as specified in Executive Order 12612. The rule affects only one State, and does not alter the relationship or the distribution of power and responsibilities established in the Clean Air Act.

C. Executive Order 13045

Protection of Children from Environmental Health Risks and Safety Risks (62 FR 19885, April 23, 1997), applies to any rule that: (1) is determined to be "economically significant" as defined under Executive Order 12866, and (2) concerns an environmental health or safety risk that EPA has reason to believe may have a disproportionate effect on children. If the regulatory action meets both criteria, the Agency must evaluate the environmental health or safety effects of the planned rule on children, and explain why the planned regulation is preferable to other potentially effective and reasonably feasible alternatives considered by the Agency.

This rule is not subject to Executive Order 13045 because it does not involve decisions intended to mitigate environmental health or safety risks.

D. Executive Order 13084

Under Executive Order 13084, EPA may not issue a regulation that is not required by statute, that significantly affects or uniquely affects the communities of Indian tribal governments, and that imposes substantial direct compliance costs on those communities, unless the Federal government provides the funds necessary to pay the direct compliance costs incurred by the tribal governments. If the mandate is unfunded, EPA must provide to the Office of Management and Budget, in a separately identified section of the preamble to the rule, a description of the extent of EPA's prior consultation with representatives of affected tribal governments, a summary of the nature of their concerns, and a statement supporting the need to issue the regulation.

In addition, Executive Order 13084 requires EPA to develop an effective process permitting elected and other representatives of Indian tribal governments "to provide meaningful and timely input in the development of regulatory policies on matters that significantly or uniquely affect their communities." Today's rule does not significantly or uniquely affect the communities of Indian tribal

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governments. Accordingly, the requirements of section 3(b) of Executive Order 13084 do not apply to this rule.

E. Regulatory Flexibility Act

The Regulatory Flexibility Act (RFA) generally requires an agency to conduct a regulatory flexibility analysis of any rule subject to notice and comment rulemaking requirements unless the agency certifies that the rule will not have a significant economic impact on a substantial number of small entities. Small entities include small businesses, small not-for-profit enterprises, and small governmental jurisdictions.

This final rule will not have a significant impact on a substantial number of small entities because SIP approvals under section 110 and subchapter I, part D of the Clean Air Act do not create any new requirements but simply approve requirements that the State is already imposing. Therefore, because the Federal SIP approval does not create any new requirements, I certify that this action will not have a significant economic impact on a substantial number of small entities.

Moreover, due to the nature of the Federal-State relationship under the Clean Air Act, preparation of flexibility analysis would constitute Federal inquiry into the economic reasonableness of state action. The Clean Air Act forbids EPA to base its actions concerning SIPs on such grounds. *Union Electric Co., v. U.S. EPA*, 427 U.S. 246, 255-66 (1976); 42 U.S.C. 7410(a)(2).

F. Unfunded Mandates

Under section 202 of the Unfunded Mandates Reform Act of 1995 ('`Unfunded Mandates Act''), signed into law on March 22, 1995, EPA must prepare a budgetary impact statement to accompany any proposed or final rule that includes a Federal mandate that may result in estimated annual costs to State, local, or tribal governments in the aggregate; or to private sector, of \$100 million or more. Under section 205, EPA must select the most cost-effective and least burdensome alternative that achieves the objectives of the rule and is consistent with statutory requirements. Section 203 requires EPA to establish a plan for informing and advising any small governments that may be significantly or uniquely impacted by the rule.

EPA has determined that the approval action promulgated does not include a Federal mandate that may result in estimated annual costs of \$100 million or more to either State, local, or tribal governments in the aggregate, or to the private sector. This Federal action approves pre-existing requirements under State or local law, and imposes no new requirements. Accordingly, no additional costs to State, local, or tribal governments, or to the private sector, result from this action.

G. Submission to Congress and the Comptroller General

The Congressional Review Act, 5 U.S.C. 801 et seq., as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the Federal Register. A major rule cannot take effect until 60 days after it is published in the Federal Register. This rule is not a ``major'' rule as defined by 5 U.S.C. 804(2).

H. National Technology Transfer and Advancement Act

Section 12 of the National Technology Transfer and Advancement Act (NTTAA) of 1995 requires Federal agencies to evaluate existing technical standards when developing a new regulation. To comply with NTTAA, EPA must consider and use ``voluntary consensus standards'' (VCS) if available and applicable when developing programs and policies unless doing so would be inconsistent with applicable law or otherwise impractical.

The EPA believes that VCS are inapplicable to this action. Today's action does not require the public to perform activities conducive to the use of VCS.

I. Petitions for Judicial Review

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be **filed** in the United States Court of Appeals for the appropriate circuit by March 20, 2000. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this rule for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be **filed**, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)

List of Subjects

40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Intergovernmental relations, Reporting and recordkeeping requirements.

40 CFR Part 81

Environmental protection, Air pollution control, National parks, Wilderness areas.

Authority for parts 52 and 81: 42 U.S.C. 7401 et seq.

Dated: January 3, 2000.
Francis X. Lyons,
Regional Administrator, Region 5.

For the reasons stated in the preamble, part 52, chapter I, title 40 of the Code of Federal Regulations and part 81, chapter I, subchapter C are amended as follows:

PART 52--[AMENDED] I111. The authority citation for part 52 continues to read as follows:

Authority: 42 U.S.C. 7401 et seq.

Subpart P--Indiana I112. Section 52.785 is amended by adding paragraph (b) to read as follows:

Sec. 52.785 Control strategy: Carbon monoxide.

* * * * *

(b) On December 21, 1999, the Indiana Department of Environmental Management submitted carbon monoxide maintenance plans for those portions of Lake and Marion Counties which they requested the Environmental Protection Agency redesignate to attainment of the carbon monoxide national ambient air quality standard.

* * * * *

PART 81--[AMENDED]

1. The authority citation for part 81 continues to read as follows:

Authority: 42 U.S.C. 7401 et seq.

Subpart C--Section 107 Attainment Status Designations I112. The table in Sec. 81.315 entitled ``Indiana Carbon Monoxide'' is amended by revising the entry for the ``East Chicago Area'' and the ``Indianapolis Area'' to read as follows:

Sec. 81.315 Indiana

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Indiana-Carbon Monoxide

Classification		Designation	
Date\1\	Type	Date\1\	Type
East Chicago Area:			
Lake County (part).....		February 18, 2000.	
Attainment.....			
Part of City of East Chicago (area bounded by Columbus Drive on the north, the Indiana Harbor Canal on the west, 148th St. if extended, on the south, and Euclid Ave, on the east..			
Indianapolis Area:			
Marion County (part).....		February 18, 2000.	
Attainment.....			
Part of City of Indianapolis (area bounded by 11th St, on			

the north, Capital on
the west, Georgia St.
on the south, and
Delaware on the east)..

Lake County (part):

The remainder of East Unclassifiable/
Chicago and Lake County. Attainment.

Marion County (part)

The remainder of Unclassifiable/
Indianapolis and Marion Attainment.
County.

* * * * *

\1\ This date is November 15, 1990, unless otherwise noted.

[FR Doc. 00-726 Filed 1-18-00; 8:45 am]
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Appendix C: Limited Maintenance Plan Option for Non-Classifiable CO
Nonattainment Areas



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

October 6, 1995

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

MEMORANDUM

SUBJECT: Limited Maintenance Plan Option for Nonclassifiable CO
Nonattainment Areas

FROM: Joseph W. Paisie, Group Leader *Joseph W. Paisie*
Integrated Policy and Strategies Group (MD-15)

TO: Air Branch Chiefs, Regions I-X

On November 16, 1994, EPA issued guidance regarding a limited maintenance plan option for nonclassifiable ozone nonattainment areas in a memorandum from Sally L. Shaver, Director, Air Quality Strategies and Standards Division, to Regional Air Division Directors. EPA believes that such an option is also appropriate for nonclassifiable CO nonattainment areas and the following questions and answers set forth EPA's guidance regarding the availability of this option for such areas. As this is guidance, final and binding determinations regarding the eligibility of areas for the limited maintenance plan option will only be made in the context of notice and comment rulemaking actions regarding specific redesignation requests.

If there are any questions concerning the limited maintenance plan option for nonclassifiable CO areas, please contact me at (919) 541-5556 or Larry Wallace at (919) 541-0906.

Attachment

cc: E. Cummings, OMS
K. McLean, OGC
C. Oldham
L. Wallace

10/6/95

Limited Maintenance Plan Option for Nonclassifiable CO
Nonattainment areas

1. Question:

What requirements must CO nonclassifiable areas, which are attaining the CO NAAQS with a design value that is significantly below the NAAQS, meet in order to have an approvable maintenance plan under section 175A of the Act?

Answer:

Nonclassifiable CO nonattainment areas seeking redesignation to attainment whose design values are at or below 7.65ppm (85 percent of exceedance levels of the CO NAAQS) at the time of redesignation, may choose to submit a less rigorous maintenance plan than was formerly required. This new option is being termed a limited maintenance plan. Nonclassifiable CO areas with design values greater than 7.65ppm will continue to be subject to full maintenance plan requirements described in the September 4, 1992 memorandum, "Procedures for Processing Requests to Redesignate Areas to Attainment," from John Calcagni, former Director of the OAQPS Air Quality Management Division to the Regional Air Division Directors.

The EPA now believes that it is justifiable and appropriate to apply a different set of maintenance plan requirements to a nonclassifiable CO nonattainment areas whose monitored air quality is equal to or less than 85 percent of exceedance levels of the ozone NAAQS. The EPA does not believe that the full maintenance plan requirements need be applied to these areas because they have achieved air quality levels well below the standard without the application of control measures required by the Act for moderate and serious nonattainment areas. Also, these areas do not have either a recent history of monitored violation of the CO NAAQS or a long prior history of monitored air quality problems. The EPA believes that the continued applicability of prevention of significant deterioration (PSD) requirements, any control measures already in the SIP, and Federal measures (such as the Federal motor vehicle control program) should provide adequate assurance of maintenance for these areas.

2. Question:

Besides having a design value that is equal to or less than 88% of the CO NAAQS what other requirements are necessary for a nonclassifiable CO nonattainment area to qualify for the limited maintenance plan option?

Answer:

To qualify for the limited maintenance plan option, the CO design value for the area, based on the 8 consecutive quarters (2 years of data) used to demonstrate attainment, must be at or below 7.65ppm (88 percent of exceedance levels of the ozone NAAQS). Additionally, the design value for the area must continue to be at or below 7.65ppm until the time of final EPA action on the redesignation. The method for calculating design values is presented in the June 18, 1990 memorandum, "Ozone and Carbon Monoxide Design Value Calculations," from William G. Laxton, former Director of the OAQPS Technical Support Division to Regional Air Directors. The memorandum focuses primarily on determining design values for nonattainment areas in order to classify the areas as moderate or serious for CO. Therefore, the document discusses determining the design value for an area based on the monitors which are exceeding the standard. In the case of a nonattainment area seeking redesignation to attainment, all monitors must be meeting the standard. To assess whether a nonclassifiable area meets the applicability cutoff for the limited maintenance plan, a separate design value must be developed for every monitoring site. The highest of these design values is the design value for the whole area. If the area design value is at or below 7.65ppm, the State may select the limited maintenance plan option for the first 10-year maintenance period under section 175A. If the design value for the area exceeds 7.65ppm prior to final EPA action on the redesignation, the area no longer qualifies for the limited maintenance plan and must instead submit a full maintenance plan, as indicated in the September 4, 1992 memorandum.

3. Question:

What elements must be contained in a section 175A maintenance plan for nonclassifiable CO areas which qualify for the limited maintenance plan option?

Answer:

Following is a list of core provisions which should be included in the limited maintenance plan for CO nonclassifiable areas. Any final EPA determination regarding the adequacy of a limited maintenance plan will be made following review of the plan submittal in light of the particular circumstances facing the area proposed for redesignation and based on all relevant available information.

a. Attainment Inventory

The State should develop an attainment emissions inventory to identify a level of emissions in the area which is sufficient to attain the NAAQS. This inventory should be consistent with EPA's most recent guidance¹ on emissions inventories for nonattainment areas available at the time and should represent emissions during the time period associated with the monitoring data showing attainment. The inventory should be based on actual "typical winter day" emissions of CO.

b. Maintenance Demonstration

The maintenance demonstration requirement is considered to be satisfied for nonclassifiable areas if the monitoring data show that the area is meeting the air quality criteria for limited maintenance areas (7.65ppm or 85% of the CO NAAQS). There is no requirement to project emissions over the maintenance period. The EPA believes if the area begins the maintenance period at or below 85 percent of exceedance levels, the air quality along with the continued applicability of PSD requirements, any control measures already in the SIP, and Federal measures, should provide adequate assurance of maintenance over the initial 10-year

¹The EPA's current guidance on the preparation of emissions inventories for ozone areas is contained in the following documents: "Procedures for the Preparation of Emission Inventories for Carbon Monoxide and Precursors of Ozone: Volume I" (EPA-450/4-91-016), "Emission Inventory Requirements for Ozone State Implementation Plans" (EPA 450/4-91-010), and "Procedures for Emission Inventory Preparation: Volume IV, Mobile Sources" (EPA-450/4-81-026d).

maintenance period.

When EPA approves a limited maintenance plan, EPA is concluding that an emissions budget may be treated as essentially not constraining for the length of the maintenance period because it is unreasonable to expect that such an area will experience so much growth in that period that a violation of the CO NAAQS would result.

c. Monitoring Network/Verification of Continued Attainment

To verify the attainment status of the area over the maintenance period, the maintenance plan should contain provisions for continued operation of an appropriate, EPA-approved air quality monitoring network, in accordance with 40 CFR part 58. This is particularly important for areas using a limited maintenance plan because there will be no cap on emissions.

d. Contingency Plan

Section 175A of the Act requires that a maintenance plan include contingency provisions, as necessary, to promptly correct any violation of the NAAQS that occurs after redesignation of the area. These contingency measures do not have to be fully adopted at the time of redesignation. However, the contingency plan is considered to be an enforceable part of the SIP and should ensure that the contingency measures are adopted expeditiously once they are triggered by a specified event. The contingency plan should identify the measures to be promptly adopted and provide a schedule and procedure for adoption and implementation of the measures. The State should also identify specific indicators, or triggers, which will be used to determine when the contingency measures need to be implemented. While a violation of the NAAQS is an acceptable trigger, States may wish to choose a pre-violation action level as a trigger, such as an exceedance of the NAAQS. By taking early action, a State may be able to prevent any actual violation of the NAAQS and, therefore, eliminate any need on the part of EPA to redesignate an area back to nonattainment.

e. Conformity Determinations Under Limited Maintenance Plans

The transportation conformity rule (58 FR 62188; November 24, 1993) and the general conformity rule (58 FR 63216; November 30, 1993) apply to nonattainment areas and maintenance areas operating under maintenance plans. Under either rule, one means of demonstrating conformity or Federal actions is to indicate that expected emissions from

planned actions are consistent with the emissions budget for the area. Emissions budgets in limited maintenance plan areas may be treated as essentially not constraining for the length of the initial maintenance period because it is unreasonable to expect that such an area will experience so much growth in that period that a violation of the CO NAAQS would result. In other words, EPA would be concluding that emissions need not be capped for the maintenance period. Therefore, in areas with approved limited maintenance plans, Federal actions requiring conformity determinations under the transportation conformity rule could be considered to satisfy the "budget test" required in sections 93.118, 93.119, and 93.120 of the rule. Similarly, in these areas, Federal actions subject to the general conformity rule could be considered to satisfy the "budget test" specified in section 93.158(a)(5)(i)(A) of the rule.

Appendix D: Complete CO Emissions Inventory for Lake County and Marion County

Lake County

Inventory Year	FIPS	Facility ID	Facility Name	SIC Primary	Unit ID	Emission Unit Description	Pollutant	Winter Day Emissions (Tons)	Annual Emissions (TPY)	Source Totals (TPY)
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	1	#3 POWER STATION BOILERS	CO	0.00E+00	0.00	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	1	#3 POWER STATION BOILERS	CO	1.24E+00	419.32	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	2	#1 POWER STATION	CO	0.00E+00	0.00	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	2	#1 POWER STATION	CO	2.21E-01	134.25	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	3	FCU 500-FLUID CAT CRACKER	CO	1.12E-01	40.60	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	6	11 PIPESTILL	CO	5.23E-01	170.09	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	7	12 PIPESTILL	CO	7.14E-01	240.51	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	8	NO. 1 CRU	CO	5.31E-02	19.32	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	9	NO. 2 ISOM UNIT	CO	1.54E-01	51.81	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	10	NO. 3 ULTRAFORMER	CO	1.98E-01	71.99	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	16	NO.2 SRU AND TGU	CO	1.45E-02	5.29	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	17	FCU 600 FLUID CAT CRACKER	CO	1.57E-01	57.21	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	18	REFINERY SAFETY FLARES	CO	1.25E+00	455.08	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	23	ARU 200A	CO	2.36E-01	79.63	

2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	24	ARU 200B	CO	1.99E-01	64.79	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	25	4UF & BOU	CO	8.01E-01	291.57	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	32	SLUDGE INCINERATOR	CO	5.22E-05	0.02	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	34	CFU FURNACE	CO	2.38E-02	7.75	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	45	HU FURNACES	CO	2.20E-01	80.11	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	46	DDU FURNACES	CO	4.69E-02	16.42	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	51	BIOVENT OXIDIZERS	CO	0.00E+00	0.00	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	51	BIOVENT OXIDIZERS	CO	6.70E-04	0.24	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	52	TANK HEATERS	CO	1.32E-02	4.99	
2006	18089	3	BP PRODUCTS NORTH AMERICA INC, WHITING R	2911	52	TANK HEATERS	CO	0.00E+00	0.00	2210.99
2006	18089	13	RIETER AUTOMOTIVE NORTH AMERICA	3714	1	ALL FUEL COMB. UNITS	CO	1.67E-02	6.09	
2006	18089	13	RIETER AUTOMOTIVE NORTH AMERICA	3714	18	FIRE PUMP#1 STANDBY	CO	0.00E+00	0.00	
2006	18089	13	RIETER AUTOMOTIVE NORTH AMERICA	3714	19	FIRE PUMP#2 ON LINE	CO	0.00E+00	0.00	
2006	18089	53	MARATHON AHSLAND PIPELINE-GRIFFITH EAST	4613	7	TANK 5462 - T-19	CO	0.00E+00	0.00	
2006	18089	53	MARATHON AHSLAND PIPELINE-GRIFFITH EAST	4613	8	TANK 5463 - T-20	CO	0.00E+00	0.00	
2006	18089	53	MARATHON AHSLAND PIPELINE-GRIFFITH EAST	4613	9	TANK 5461 - T-18	CO	0.00E+00	0.00	
2006	18089	62	AVERY DENNISON-DECORATIVE FILM DIVISION	2754	4	NAT GAS OXIDIZER C-7/C-10	CO	1.89E-02	4.72	
2006	18089	62	AVERY DENNISON-DECORATIVE FILM DIVISION	2754	5	NAT GAS OXIDIZER C-8	CO	8.03E-03	2.01	

2006	18089	62	AVERY DENNISON- DECORATIVE FILM DIVISION	2754	12	NAT GAS OXIDIZER C-9	CO	1.98E-02	4.94	11.67
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	1	1550 HP REC COMP ENGINE	CO	2.30E-02	14.94	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	2	1550 HP REC COMP ENGINE	CO	2.88E-02	18.69	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	3	1550 HP REC COMP ENGINE	CO	3.42E-02	17.28	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	4	1550 HP REC COMP ENGINE	CO	3.69E-02	20.99	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	6	12000 HP REC COMP ENGINE	CO	8.46E-02	110.00	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	7	12000 HP REC COMP ENGINE	CO	2.45E-01	148.55	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	8	825 HP ELEC EMERGNCY GEN	CO	2.46E-03	0.19	
2006	18089	69	ANR PIPELINE NAT GAS_CO- ST. JOHN STATION	4922	11	2000 HP REC COMP ENGINE	CO	6.51E-04	0.37	331.01
2006	18089	75	VESUVIUS USA	3255	1	ROTARY DRYER	CO	1.81E-04	0.03	
2006	18089	76	INEOS OLIGOMERS - DIV. OF INEOS USA LLC	2821	4	HOT OIL FURNACE	CO	9.86E-03	3.59	
2006	18089	76	INEOS OLIGOMERS - DIV. OF INEOS USA LLC	2821	12	FLARE	CO	9.92E-02	36.10	
2006	18089	76	INEOS OLIGOMERS - DIV. OF INEOS USA LLC	2821	14	STANDBY COMPRESSOR	CO		5.31	45.00
2004	18089	106	SCA TISSUE NORTH AMERICA, LLC	2621	1	NAT GAS BOILER 1	CO	3.37E-02	8.28	
2004	18089	106	SCA TISSUE NORTH AMERICA, LLC	2621	3	AREA NAT. GAS HEATERS	CO	1.77E-03	0.44	8.72
2005	18089	112	CARMEUSE LIME INCORPORATED	3274	1	KILN #1	CO	2.63E-01	95.86	
2005	18089	112	CARMEUSE LIME INCORPORATED	3274	2	KILN #2	CO	2.65E-01	96.58	
2005	18089	112	CARMEUSE LIME INCORPORATED	3274	3	KILN #3	CO	2.38E-01	86.49	
2005	18089	112	CARMEUSE LIME	3274	4	KILN #4	CO	2.52E-01	91.74	

			INCORPORATED								
2005	18089	112	CARMEUSE LIME INCORPORATED	3274	5	KILN #5	CO	2.54E-01	92.50	463.17	
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	1	UNIT 4	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	1	UNIT 4	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	2	UNIT 5	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	2	UNIT 5	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	3	UNIT 6	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	3	UNIT 6	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	4	UNIT 11	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	4	UNIT 11	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	5	UNIT 9A	CO	0.00E+00	0.00		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	5	UNIT 9A	CO	8.89E-03	0.46		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	10	DIESEL START ENGINE	CO	1.88E-04	0.01		
2006	18089	117	NIPSCO - D. H. MITCHELL STATION	4911	20	AUXILIARY BOILERS	CO	0.00E+00	0.00	0.47	
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	403	PLATE MILL BTCH RHT #5-8	CO	0.00E+00	0.00		
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	405	PLATE MILL CONT RHT #1,2	CO	0.00E+00	0.00		
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	407	PM CAR BTM HEAT TREAT FNC	CO	0.00E+00	0.00		
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	408	PM CAR BTM NRMLIZING FNC	CO	0.00E+00	0.00		
2006	18089	118	ISG BURNS HARBOR PLATE,	3312	409	PM SLOW COOL FURNACES	CO	0.00E+00	0.00		

			LLC			NG				
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	411	PLATE MILL CNT HEAT TREAT	CO	5.65E-02	20.58	
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	416	PM SLOW COOL FNCS (NG)	CO	0.00E+00	0.00	
2006	18089	118	ISG BURNS HARBOR PLATE, LLC	3312	417	SLAB MILL STRESS HOOD FCE	CO	0.00E+00	0.00	20.58
2006	18089	121	U S STEEL CO GARY WORKS	3312	1	PRECARBON NO. 2	CO	6.12E+00	2321.63	
2006	18089	121	U S STEEL CO GARY WORKS	3312	3	COKE BATTERY NO. 2	CO	5.10E-01	193.47	
2006	18089	121	U S STEEL CO GARY WORKS	3312	3	COKE BATTERY NO. 2	CO	3.40E-03	1.29	
2006	18089	121	U S STEEL CO GARY WORKS	3312	3	COKE BATTERY NO. 2	CO	1.16E-01	43.85	
2006	18089	121	U S STEEL CO GARY WORKS	3312	3	COKE BATTERY NO. 2	CO	1.02E-03	0.39	
2006	18089	121	U S STEEL CO GARY WORKS	3312	5	COKE BATTERY NO. 5	CO	2.77E-01	109.72	
2006	18089	121	U S STEEL CO GARY WORKS	3312	5	COKE BATTERY NO. 5	CO	1.12E-03	0.44	
2006	18089	121	U S STEEL CO GARY WORKS	3312	5	COKE BATTERY NO. 5	CO	3.79E-02	15.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	5	COKE BATTERY NO. 5	CO	3.35E-04	0.13	
2006	18089	121	U S STEEL CO GARY WORKS	3312	6	COKE BATTERY NO. 7	CO	3.14E-01	124.39	
2006	18089	121	U S STEEL CO GARY WORKS	3312	6	COKE BATTERY NO. 7	CO	1.26E-03	0.50	
2006	18089	121	U S STEEL CO GARY WORKS	3312	6	COKE BATTERY NO. 7	CO	4.30E-02	17.01	
2006	18089	121	U S STEEL CO GARY WORKS	3312	6	COKE BATTERY NO. 7	CO	3.79E-04	0.15	
2006	18089	121	U S STEEL CO GARY WORKS	3312	14	COG BYPRODUCT RCVRY PLT	CO	5.73E-03	2.27	
2006	18089	121	U S STEEL CO GARY WORKS	3312	14	COG BYPRODUCT RCVRY PLT	CO	1.37E-03	0.54	
2006	18089	121	U S STEEL CO GARY WORKS	3312	14	COG BYPRODUCT RCVRY PLT	CO	4.65E-05	0.02	
2006	18089	121	U S STEEL CO GARY WORKS	3312	25	RAILCAR SIDE THAWING NG	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	26	RAILCAR BTM THAWING COG	CO	2.46E-03	0.25	
2006	18089	121	U S STEEL CO GARY WORKS	3312	26	RAILCAR BTM THAWING COG	CO	0.00E+00	0.00	

2006	18089	121	U S STEEL CO GARY WORKS	3312	27	BATTERY VENTING INCIDENTS	CO	0.00E+00	0.02	
2006	18089	121	U S STEEL CO GARY WORKS	3312	28	COKE OVEN GAS FLARE STACK	CO	1.27E-03	1.16	
2006	18089	121	U S STEEL CO GARY WORKS	3312	101	NO. 3 SINTER PLANT	CO	1.59E+02	43127.28	
2006	18089	121	U S STEEL CO GARY WORKS	3312	104	BLAST FURNACE NO. 4	CO	3.68E-02	13.94	
2006	18089	121	U S STEEL CO GARY WORKS	3312	104	BLAST FURNACE NO. 4	CO	4.46E-01	169.03	
2006	18089	121	U S STEEL CO GARY WORKS	3312	104	BLAST FURNACE NO. 4	CO	9.97E-03	3.78	
2006	18089	121	U S STEEL CO GARY WORKS	3312	105	BLAST FURNACE NO. 6	CO	2.41E-02	11.55	
2006	18089	121	U S STEEL CO GARY WORKS	3312	105	BLAST FURNACE NO. 6	CO	5.13E-01	245.75	
2006	18089	121	U S STEEL CO GARY WORKS	3312	105	BLAST FURNACE NO. 6	CO	8.46E-03	4.05	
2006	18089	121	U S STEEL CO GARY WORKS	3312	107	BLAST FURNACE NO. 8	CO	1.86E-02	5.84	
2006	18089	121	U S STEEL CO GARY WORKS	3312	107	BLAST FURNACE NO. 8	CO	6.96E-01	218.33	
2006	18089	121	U S STEEL CO GARY WORKS	3312	107	BLAST FURNACE NO. 8	CO	9.18E-03	2.88	
2006	18089	121	U S STEEL CO GARY WORKS	3312	108	BLAST FURNACE NO. 14	CO	5.66E-02	30.32	
2006	18089	121	U S STEEL CO GARY WORKS	3312	108	BLAST FURNACE NO. 14	CO	1.05E+00	559.43	
2006	18089	121	U S STEEL CO GARY WORKS	3312	108	BLAST FURNACE NO. 14	CO	6.64E-03	3.56	
2006	18089	121	U S STEEL CO GARY WORKS	3312	201	NO. 1 BOP SHOP/CASTER	CO	3.66E+01	15840.30	
2006	18089	121	U S STEEL CO GARY WORKS	3312	201	NO. 1 BOP SHOP/CASTER	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	202	NO. 2 Q-BOP SHOP/CASTER	CO	4.49E+01	18552.51	
2006	18089	121	U S STEEL CO GARY WORKS	3312	203	NO. 1 BOP LADLE DRYERS	CO	1.52E-02	4.20	
2006	18089	121	U S STEEL CO GARY WORKS	3312	204	NO. 1 BOP LADLE PREHEATER	CO	3.03E-02	8.36	
2006	18089	121	U S STEEL CO GARY WORKS	3312	205	NO. 2 QBOP LADLE DRYERS	CO	4.15E-02	13.99	
2006	18089	121	U S STEEL CO GARY WORKS	3312	206	NO. 2 QBOP LADLE PREHEATE	CO	8.29E-02	27.93	
2006	18089	121	U S STEEL CO GARY WORKS	3312	207	LADLE METALLURGY FACILITY	CO	6.72E-02	29.12	
2006	18089	121	U S STEEL CO GARY WORKS	3312	207	LADLE METALLURGY FACILITY	CO	7.09E-02	30.73	

2006	18089	121	U S STEEL CO GARY WORKS	3312	207	LADLE METALLURGY FACILITY	CO	2.83E-02	12.26	
2006	18089	121	U S STEEL CO GARY WORKS	3312	207	LADLE METALLURGY FACILITY	CO	6.72E-02	29.12	
2006	18089	121	U S STEEL CO GARY WORKS	3312	209	TUNDISH PREHEATERS	CO	2.13E-02	5.88	
2006	18089	121	U S STEEL CO GARY WORKS	3312	301	84" HOT STRIP MILL	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	301	84" HOT STRIP MILL	CO	1.16E+00	393.79	
2006	18089	121	U S STEEL CO GARY WORKS	3312	301	84" HOT STRIP MILL	CO	1.39E-01	47.03	
2006	18089	121	U S STEEL CO GARY WORKS	3312	301	84" HOT STRIP MILL	CO	4.53E-03	1.54	
2006	18089	121	U S STEEL CO GARY WORKS	3312	501	8-STACK ANNEALING (SHT)	CO	8.37E-02	14.20	
2006	18089	121	U S STEEL CO GARY WORKS	3312	502	NO. 6 GALVANIZE LINE	CO	2.64E-02	5.08	
2006	18089	121	U S STEEL CO GARY WORKS	3312	502	NO. 6 GALVANIZE LINE	CO	6.32E-03	1.22	
2006	18089	121	U S STEEL CO GARY WORKS	3312	503	4-STACK ANNEALING (SHT)	CO	1.07E-01	37.38	
2006	18089	121	U S STEEL CO GARY WORKS	3312	601	#1 CONT. ANNEALING (TIN)	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	602	#2 CONT. ANNEALING (TIN)	CO	4.02E-02	10.88	
2006	18089	121	U S STEEL CO GARY WORKS	3312	605	4-STACK ANNEALING FNC NG	CO	3.20E-02	11.21	
2006	18089	121	U S STEEL CO GARY WORKS	3312	701	TBBH BOILER NO. 1	CO	4.73E-03	1.54	
2006	18089	121	U S STEEL CO GARY WORKS	3312	701	TBBH BOILER NO. 1	CO	8.96E-01	291.27	
2006	18089	121	U S STEEL CO GARY WORKS	3312	701	TBBH BOILER NO. 1	CO	1.00E-02	3.27	
2006	18089	121	U S STEEL CO GARY WORKS	3312	701	TBBH BOILER NO. 1	CO	2.73E-02	8.86	
2006	18089	121	U S STEEL CO GARY WORKS	3312	701	TBBH BOILER NO. 1	CO	1.64E-03	0.53	
2006	18089	121	U S STEEL CO GARY WORKS	3312	702	TBBH BOILER NO. 2	CO	1.82E-03	0.75	
2006	18089	121	U S STEEL CO GARY WORKS	3312	702	TBBH BOILER NO. 2	CO	7.42E-01	306.80	
2006	18089	121	U S STEEL CO GARY WORKS	3312	702	TBBH BOILER NO. 2	CO	1.10E-02	4.55	
2006	18089	121	U S STEEL CO GARY WORKS	3312	702	TBBH BOILER NO. 2	CO	1.90E-02	7.85	
2006	18089	121	U S STEEL CO GARY WORKS	3312	702	TBBH BOILER NO. 2	CO	9.34E-04	0.39	
2006	18089	121	U S STEEL CO GARY WORKS	3312	703	TBBH BOILER NO. 3	CO	4.81E-03	1.56	
2006	18089	121	U S STEEL CO GARY WORKS	3312	703	TBBH BOILER NO. 3	CO	1.10E+00	356.16	

2006	18089	121	U S STEEL CO GARY WORKS	3312	703	TBBH BOILER NO. 3	CO	4.64E-03	1.51	
2006	18089	121	U S STEEL CO GARY WORKS	3312	703	TBBH BOILER NO. 3	CO	8.14E-03	2.65	
2006	18089	121	U S STEEL CO GARY WORKS	3312	703	TBBH BOILER NO. 3	CO	3.96E-04	0.13	
2006	18089	121	U S STEEL CO GARY WORKS	3312	704	TBBH BOILER NO. 4A	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	704	TBBH BOILER NO. 4A	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	704	TBBH BOILER NO. 4A	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	705	TBBH BOILER NO. 5	CO	1.45E-03	0.28	
2006	18089	121	U S STEEL CO GARY WORKS	3312	705	TBBH BOILER NO. 5	CO	1.69E+00	326.51	
2006	18089	121	U S STEEL CO GARY WORKS	3312	705	TBBH BOILER NO. 5	CO	1.55E-02	3.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	705	TBBH BOILER NO. 5	CO	4.71E-02	9.11	
2006	18089	121	U S STEEL CO GARY WORKS	3312	705	TBBH BOILER NO. 5	CO	7.13E-04	0.14	
2006	18089	121	U S STEEL CO GARY WORKS	3312	706	TBBH BOILER NO. 6	CO	8.13E-01	369.94	
2006	18089	121	U S STEEL CO GARY WORKS	3312	706	TBBH BOILER NO. 6	CO	4.26E-02	19.36	
2006	18089	121	U S STEEL CO GARY WORKS	3312	714	CPBH BOILER NOS. 1-10	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	714	CPBH BOILER NOS. 1-10	CO	1.12E-02	3.53	
2006	18089	121	U S STEEL CO GARY WORKS	3312	714	CPBH BOILER NOS. 1-10	CO	2.03E-01	63.76	
2006	18089	121	U S STEEL CO GARY WORKS	3312	714	CPBH BOILER NOS. 1-10	CO	5.39E-03	1.69	
2006	18089	121	U S STEEL CO GARY WORKS	3312	720	#4 BOILER HSE BLR NO. 1	CO	0.00E+00	0.00	
2006	18089	121	U S STEEL CO GARY WORKS	3312	720	#4 BOILER HSE BLR NO. 1	CO	6.32E-03	5.75	
2006	18089	121	U S STEEL CO GARY WORKS	3312	720	#4 BOILER HSE BLR NO. 1	CO	3.82E-01	347.63	
2006	18089	121	U S STEEL CO GARY WORKS	3312	721	#4 BOILER HSE BLR NO. 2	CO	2.14E-03	0.81	
2006	18089	121	U S STEEL CO GARY WORKS	3312	721	#4 BOILER HSE BLR NO. 2	CO	1.73E-02	6.55	
2006	18089	121	U S STEEL CO GARY WORKS	3312	721	#4 BOILER HSE BLR NO. 2	CO	1.03E+00	389.95	
2006	18089	121	U S STEEL CO GARY WORKS	3312	722	#4 BOILER HSE BLR NO. 3	CO	5.28E-02	12.98	
2006	18089	121	U S STEEL CO GARY WORKS	3312	722	#4 BOILER HSE BLR NO. 3	CO	1.65E+00	406.06	
2006	18089	121	U S STEEL CO GARY WORKS	3312	725	ELECTROGALV LINE BOILER	CO	2.09E-02	5.17	
2006	18089	121	U S STEEL CO GARY WORKS	3312	726	BLST FCE GAS FLARE STACKS	CO	2.96E-01	134.74	

2006	18089	121	U S STEEL CO GARY WORKS	3312	726	BLST FCE GAS FLARE STACKS	CO	3.83E-01	174.29	85573.75
2006	18089	143	GARY SANITARY LANDFILL	4953	1	LANDFILL	CO	5.22E-02	19.00	
2006	18089	143	GARY SANITARY LANDFILL	4953	1	LANDFILL	CO	1.02E-02	3.70	22.70
2006	18089	161	INDUSTRIAL STEEL CONSTRUCTION, INC.	3441	2	PAINTING	CO	1.13E-04	0.04	
2006	18089	169	GARY COAL PROCESSING	1221	1	COAL PULVERIZER #1	CO	1.06E-03	0.39	
2006	18089	169	GARY COAL PROCESSING	1221	2	COAL PULVERIZER #2	CO	1.05E-03	0.38	
2006	18089	169	GARY COAL PROCESSING	1221	3	COAL PULVERIZER #3	CO	1.14E-03	0.41	
2006	18089	169	GARY COAL PROCESSING	1221	23	RAILCAR HEATER	CO	5.43E-05	0.01	1.19
2006	18089	172	USS - CENTRAL TEAMING COMPANY, INC.	1799	3	POWER GENERATORS	CO	1.79E-04	0.08	
2006	18089	172	USS - CENTRAL TEAMING COMPANY, INC.	1799	3	POWER GENERATORS	CO	2.42E-04	0.11	0.18
2006	18089	173	MID-CONTINENT COAL & COKE, CO.-USX	5052	1	COKE PROCESSING	CO	7.84E-03	2.04	
2006	18089	174	TUBE CITY DIVISION - GARY	5093	2	SCRAP BURNING	CO	1.14E-03	0.42	
2006	18089	176	BRADENBURG INDUSTRIAL SERVICE COMPANY	5093	1	BURNING FIELD	CO	4.01E-05	0.01	
2006	18089	177	PRAXAIR	2813	1	GAS FIRED SOURCES	CO	1.22E-02	4.46	
2006	18089	177	PRAXAIR	2813	1	GAS FIRED SOURCES	CO	4.29E-03	1.56	
2006	18089	177	PRAXAIR	2813	2	NITROGEN VAPORIZER HEATER	CO	2.28E-04	0.08	
2006	18089	177	PRAXAIR	2813	3	EMERGENCY GENERATORS	CO	8.12E-05	0.02	
2006	18089	177	PRAXAIR	2813	4	LARGE EMERGENCY GENERATOR	CO	2.78E-05	0.01	6.13
2005	18089	180	KOPPERS INDUSTRIES INC	2865	4	FLARE INCINERATOR	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	2.66E-03	0.97	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	3.40E-04	0.12	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	4.86E-03	1.77	

2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	3.40E-04	0.12	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	4.86E-03	1.77	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	3.24E-04	0.12	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	6.51E-03	2.37	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	1	ALUMINUM MELTING FURNACES	CO	4.26E-04	0.15	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	2	ANNEALING FURNACES	CO	1.64E-03	0.60	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	2	ANNEALING FURNACES	CO	1.64E-03	0.60	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	2	ANNEALING FURNACES	CO	1.39E-03	0.50	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	2	ANNEALING FURNACES	CO	1.39E-03	0.50	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	2	ANNEALING FURNACES	CO	9.24E-04	0.34	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	3	BOILERS	CO	1.34E-04	0.05	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	3	BOILERS	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	4	DROSS PROCESSING FURNACE	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	4	DROSS PROCESSING FURNACE	CO	0.00E+00	0.00	
2006	18089	201	JUPITER ALUMINUM CORPORATION	3353	4	DROSS PROCESSING FURNACE	CO	1.16E-03	0.42	10.41
2006	18089	202	SILGAN CONTAINERS CORP	3479	1	IN PROCESS FUEL USE	CO	1.60E-02	5.38	
2006	18089	202	SILGAN CONTAINERS CORP	3479	2	DOCK HEATER # 1 & 2	CO	4.15E-04	0.06	

2006	18089	202	SILGAN CONTAINERS CORP	3479	3	SPACE HEATER NO1, #2, #3	CO	9.83E-03	1.49	6.93
2006	18089	203	CARGILL, INC.	2046	1	BIOGAS FLARE	CO	1.77E-03	0.64	
2006	18089	203	CARGILL, INC.	2046	2	BCD & HPCD	CO	3.05E-05	0.01	
2006	18089	203	CARGILL, INC.	2046	3	GRIND AREA	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	3	GRIND AREA	CO	4.99E-03	1.82	
2006	18089	203	CARGILL, INC.	2046	3	GRIND AREA	CO	3.20E-02	11.65	
2006	18089	203	CARGILL, INC.	2046	3	GRIND AREA	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	3	GRIND AREA	CO	1.47E-02	5.35	
2006	18089	203	CARGILL, INC.	2046	4	REFINERY AREA	CO	5.02E-03	1.83	
2006	18089	203	CARGILL, INC.	2046	4	REFINERY AREA	CO	6.27E-03	2.28	
2006	18089	203	CARGILL, INC.	2046	4	REFINERY AREA	CO	8.20E-03	2.98	
2006	18089	203	CARGILL, INC.	2046	5	STARCH PRODUCTION AREA	CO	1.10E-01	40.11	
2006	18089	203	CARGILL, INC.	2046	5	STARCH PRODUCTION AREA	CO	7.31E-02	26.61	
2006	18089	203	CARGILL, INC.	2046	5	STARCH PRODUCTION AREA	CO	3.85E-02	14.01	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	1.05E-02	3.81	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	6.12E-02	22.26	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	0.00E+00	0.00	
2006	18089	203	CARGILL, INC.	2046	7	UTILITIES (BOILERS)	CO	1.12E-02	4.07	137.44
2006	18089	204	ASF-KEYSTONE, INC.	3493	1	SELLARS BOILER	CO	7.02E-03	1.42	
2006	18089	204	ASF-KEYSTONE, INC.	3493	2	IN-PROCESS FUEL N.G.	CO	2.01E-03	0.52	1.94
2006	18089	210	STATE LINE ENERGY LLC	4911	2	#4 CYCLONE COAL-FIRED BLR	CO	6.35E-01	222.13	
2006	18089	210	STATE LINE ENERGY LLC	4911	10	AUX EMERGENCY GENERATOR	CO	3.04E-03	0.16	

2006	18089	210	STATE LINE ENERGY LLC	4911	19	TIOGA SPACE HEATER	CO	4.28E-03	0.42	
2006	18089	210	STATE LINE ENERGY LLC	4911	20	WABASH PKGE BOILER	CO	6.10E-02	0.84	
2006	18089	210	STATE LINE ENERGY LLC	4911	21	#3 PLVRZED COAL-FIRED BL	CO	3.88E-01	141.40	
2006	18089	210	STATE LINE ENERGY LLC	4911	200	#4 BOILER - NATURAL GAS	CO	1.44E-03	0.69	
2006	18089	210	STATE LINE ENERGY LLC	4911	300	#3 BOILER - NATURAL GAS	CO	6.72E-03	2.55	368.20
2006	18089	220	LASALLE STEEL COMPANY	3316	2	#3 ROLLER HEARTH FURNACE	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	3	4 WIRE BAY HEATERS	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	6	EAST MAMMOTH SPACE HEATER	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	7	WEST MAMMOTH SPACE HEATER	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	8	3 BLDG 70 SPACE HEATERS	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	9	2 BLDG 60 SPACE HEATERS	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	10	BAR FINISHING	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	11	9 SPACE HEATING UNITS	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	12	HARDENING FURNACE	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	13	TEMPERING FURNACE	CO	0.00E+00	0.00	
2006	18089	220	LASALLE STEEL COMPANY	3316	15	RESERVOIR TANK FURNACE	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	1	#1 TUNNEL KILN (S-6)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	1	#1 TUNNEL KILN (S-6)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	1	#1 TUNNEL KILN (S-6)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	2	#2 TUNNEL KILN (S-3)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	2	#2 TUNNEL KILN (S-3)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	2	#2 TUNNEL KILN (S-3)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	5	GRAIN HEATER	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	5	GRAIN HEATER	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	7	PRESSING S-9/S-13	CO	0.00E+00	0.00	

2005	18089	222	RESCO PRODUCTS, INC.	3297	8	LANLY BAKE OVEN (S-7)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	8	LANLY BAKE OVEN (S-7)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	9	MAG GRINDING (D-3)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	11	ROTARY DRYER (D-10)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	11	ROTARY DRYER (D-10)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	12	MAG SMOOTH ROLL CRUSHER	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	13	MAG AUX MILL	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	14	BASIC DRYER (S-8)	CO	4.46E-02	11.60	
2005	18089	222	RESCO PRODUCTS, INC.	3297	14	BASIC DRYER (S-8)	CO	2.08E-03	0.54	
2005	18089	222	RESCO PRODUCTS, INC.	3297	17	SHAFT KILN	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	18	SHAFT KILN PRODUCT COOL	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	19	SHAFT KILN PRESSING	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	34	PRECAST DRYER (S-31)	CO	0.00E+00	0.00	
2005	18089	222	RESCO PRODUCTS, INC.	3297	34	PRECAST DRYER (S-31)	CO	0.00E+00	0.00	12.14
2006	18089	227	DOVER CHEMICAL - HAMMOND WORKS	2899	2	STEAM BOILER B-4	CO	3.56E-03	1.30	
2006	18089	227	DOVER CHEMICAL - HAMMOND WORKS	2899	3	STEAM BOILER B-5	CO	5.93E-03	2.16	
2006	18089	227	DOVER CHEMICAL - HAMMOND WORKS	2899	9	STEAM BOILER B-6	CO	5.67E-03	2.06	
2006	18089	227	DOVER CHEMICAL - HAMMOND WORKS	2899	12	HIGH TEMPERATURE PROCESS	CO	1.10E-04	0.04	5.56
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	1	DRYER #1	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	1	DRYER #1	CO	3.74E-03	1.31	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	2	DRYER #2	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	2	DRYER #2	CO	2.45E-03	1.06	

2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	3	DRYER #3	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	3	DRYER #3	CO	2.20E-03	0.53	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	4	DRYER #4	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	4	DRYER #4	CO	2.90E-03	1.39	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	5	DRYER #5	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	5	DRYER #5	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	6	DRYER #6	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	6	DRYER #6	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	8	DRYER #8	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	8	DRYER #8	CO	4.79E-03	1.82	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	9	DRYER #9	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	9	DRYER #9	CO	5.08E-03	1.85	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	10	DRYER #10	CO	0.00E+00	0.00	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	10	DRYER #10	CO	6.02E-03	2.38	
2006	18089	228	HUHTAMAKI FOODSERVICE INC.	2679	13	BABCOCK & WILCOX BOILER	CO	1.10E-02	3.57	13.90
2006	18089	229	UNILEVER HPC USA	2841	3	POWERHOUSE BOILER NO. 4	CO	0.00E+00	0.00	
2006	18089	229	UNILEVER HPC USA	2841	3	POWERHOUSE BOILER NO. 4	CO	7.18E-03	1.31	
2006	18089	229	UNILEVER HPC USA	2841	16	DOWTHERM BOILER #1	CO	4.83E-03	1.76	
2006	18089	229	UNILEVER HPC USA	2841	29	DOWTHERM BOILER #2	CO	4.83E-03	1.76	

2006	18089	229	UNILEVER HPC USA	2841	29	DOWTHERM BOILER #2	CO	0.00E+00	0.00	
2006	18089	229	UNILEVER HPC USA	2841	49	POWERHOUSE BOILER NO. 1	CO	0.00E+00	0.00	
2006	18089	229	UNILEVER HPC USA	2841	49	POWERHOUSE BOILER NO. 1	CO	3.41E-02	12.40	17.23
2006	18089	242	RHODIA INC.	2819	1	PACKAGE BOILER	CO	9.38E-04	0.85	
2006	18089	242	RHODIA INC.	2819	2	UNIT 4 PREHEATER	CO	3.69E-05	0.17	
2006	18089	242	RHODIA INC.	2819	3	UNIT 4 SARU	CO	2.82E-02	10.26	
2006	18089	242	RHODIA INC.	2819	4	FLARE STACK-TK70-75	CO	6.81E-05	0.02	
2006	18089	242	RHODIA INC.	2819	7	JOHN ZINK FURNACE	CO	1.73E-03	0.63	11.93
2006	18089	247	VERMETTE MACHINE CO., INC.	3537	3	SPACE HEATERS	CO	2.99E-03	0.54	
2006	18089	300	U.S. STEEL - EAST CHICAGO TIN OPERATIONS	3316	1	EC-CA CONT ANNEAL LINE	CO	2.70E-02	9.43	
2006	18089	300	U.S. STEEL - EAST CHICAGO TIN OPERATIONS	3316	2	EC-BA BOX ANNEALING	CO	1.10E-02	3.85	13.29
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	1	SB-801 PROCESS BOILER	CO	1.88E-02	6.85	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	2	SB-820 PROCESS BOILER	CO	2.33E-02	8.48	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	3	SB-821 PROCESS BOILER	CO	2.23E-02	8.11	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	4	H-201 VFS FURNACE	CO	5.53E-03	2.01	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	4	H-201 VFS FURNACE	CO	1.68E-03	0.61	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	4	H-201 VFS FURNACE	CO	3.17E-03	1.16	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	5	H-301 HOT OIL HEATER	CO	4.04E-03	1.47	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	5	H-301 HOT OIL HEATER	CO	2.52E-03	0.92	
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	6	H-302 VACUUM TOWER FURNAC	CO	3.08E-03	1.12	
2006	18089	301	SAFETY-KLEEN SYSTEMS,	2992	7	H-401 HT REHEATER	CO	3.13E-03	1.14	

			INC.								
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	7	H-401 HT REHEATER	CO	2.03E-03	0.74		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	7	H-401 HT REHEATER	CO	2.31E-03	0.84		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	8	H-402 HT REHEATER	CO	2.36E-03	0.86		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	8	H-402 HT REHEATER	CO	1.36E-03	0.50		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	10	H-404 HT FEED HEATER	CO	1.83E-03	0.67		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	11	H-406 FRACTIONATOR HEATER	CO	4.38E-03	1.59		
2006	18089	301	SAFETY-KLEEN SYSTEMS, INC.	2992	11	H-406 FRACTIONATOR HEATER	CO	2.42E-06	0.00	37.05	
2006	18089	307	CITGO PETROLEUM CORP	5171	1	TANK #1	CO	0.00E+00	0.00		
2006	18089	307	CITGO PETROLEUM CORP	5171	80	LOADING RACK - DIST ONLY	CO	0.00E+00	0.00		
2006	18089	310	W.R. GRACE & CO.	2819	1	SODIUM SILICATE FURNACE	CO	1.78E-02	7.35		
2006	18089	310	W.R. GRACE & CO.	2819	2	#1 BOILER	CO	9.12E-03	3.32		
2006	18089	310	W.R. GRACE & CO.	2819	3	#2 BOILER	CO	9.12E-03	3.32		
2006	18089	310	W.R. GRACE & CO.	2819	4	#3 BOILER	CO	9.12E-03	3.32		
2006	18089	310	W.R. GRACE & CO.	2819	5	EVC BACKUP GENERATOR	CO	2.31E-04	0.08		
2006	18089	310	W.R. GRACE & CO.	2819	6	POWERHOUSE BACKUP GENERAT	CO	2.31E-04	0.08	17.47	
2006	18089	316	Indiana Harbor East	3312	60	NO. 7 BLAST FURNACE BFG F	CO	8.98E-01	327.00		
2006	18089	316	Indiana Harbor East	3312	60	NO. 7 BLAST FURNACE BFG F	CO	1.22E-02	4.44		
2006	18089	316	Indiana Harbor East	3312	1	NO. 5 BLAST FURNACE CASTH	CO	2.65E-05	0.01		
2006	18089	316	Indiana Harbor East	3312	1	NO. 5 BLAST FURNACE CASTH	CO	2.80E-01	102.05		
2006	18089	316	Indiana Harbor East	3312	10	NO. 5 BLAST FURNACE STOVE	CO	4.02E+00	1464.30		

2006	18089	316	Indiana Harbor East	3312	10	NO. 5 BLAST FURNACE STOVE	CO	5.94E-03	2.16	
2006	18089	316	Indiana Harbor East	3312	102	NO. 2 BOF - #10 FCE #10 F	CO	1.07E-03	0.39	
2006	18089	316	Indiana Harbor East	3312	102	NO. 2 BOF - #10 FCE #10 F	CO	2.30E+01	8370.78	
2006	18089	316	Indiana Harbor East	3312	103	NO. 2 BOF - #20 FCE #20 F	CO	1.07E-03	0.39	
2006	18089	316	Indiana Harbor East	3312	103	NO. 2 BOF - #20 FCE #20 F	CO	2.30E+01	8370.78	
2006	18089	316	Indiana Harbor East	3312	104	NO. 2 BOF - SECONDARY VEN	CO	4.72E-01	171.71	
2006	18089	316	Indiana Harbor East	3312	107	NO. 2 BOF LADLE PREHEAT &	CO	4.06E-02	14.77	
2006	18089	316	Indiana Harbor East	3312	110	NO. 2 BOF ROOF MONITOR RO	CO	1.43E-02	5.19	
2006	18089	316	Indiana Harbor East	3312	112	NO. 2 BOF LMF LADLE METAL	CO	1.43E-01	51.88	
2006	18089	316	Indiana Harbor East	3312	114	NO. 2 BOF CONTINUOUS CAST	CO	2.91E-03	1.06	
2006	18089	316	Indiana Harbor East	3312	116	NO. 2 BOF CONTINUOUS CAST	CO	0.00E+00	0.00	
2006	18089	316	Indiana Harbor East	3312	135	NO. 4 BOF STEELMAKING OFF	CO	3.20E+01	11650.28	
2006	18089	316	Indiana Harbor East	3312	137	NO. 4 BOF SECONDARY VENT	CO	5.54E-01	201.56	
2006	18089	316	Indiana Harbor East	3312	138	RESEARCH BLDG NOS. 1 & 2	CO	4.62E-05	0.02	
2006	18089	316	Indiana Harbor East	3312	139	NO. 4 BOF LADLE PREHEAT	CO	5.73E-02	20.87	
2006	18089	316	Indiana Harbor East	3312	146	NO. 4 BOF RHOB CONDENSERS	CO	6.58E-03	2.40	
2006	18089	316	Indiana Harbor East	3312	146	NO. 4 BOF RHOB CONDENSERS	CO	7.09E-02	25.80	
2006	18089	316	Indiana Harbor East	3312	15	NO. 6 BLAST FURNACE STOVE	CO	1.65E+00	598.92	
2006	18089	316	Indiana Harbor East	3312	15	NO. 6 BLAST FURNACE STOVE	CO	1.38E-05	0.01	
2006	18089	316	Indiana Harbor East	3312	150	NO. 4 BOF ROOF MONITOR	CO	1.97E-02	7.17	
2006	18089	316	Indiana Harbor East	3312	155	NO. 4 BOF CONTINUOUS	CO	1.61E-03	0.59	

						CAST				
2006	18089	316	Indiana Harbor East	3312	160	NO. 1 LIME PLANT NO. 1 KI	CO	6.55E-02	23.84	
2006	18089	316	Indiana Harbor East	3312	160	NO. 1 LIME PLANT NO. 1 KI	CO	1.16E-02	4.22	
2006	18089	316	Indiana Harbor East	3312	160	NO. 1 LIME PLANT NO. 1 KI	CO	5.39E-01	196.26	
2006	18089	316	Indiana Harbor East	3312	161	NO. 1 LIME PLANT NO. 2 KI	CO	6.55E-02	23.84	
2006	18089	316	Indiana Harbor East	3312	161	NO. 1 LIME PLANT NO. 2 KI	CO	1.16E-02	4.22	
2006	18089	316	Indiana Harbor East	3312	161	NO. 1 LIME PLANT NO. 2 KI	CO	5.39E-01	196.26	
2006	18089	316	Indiana Harbor East	3312	170	NO. 1 ELECTRIC FURNACE ME	CO	8.97E-01	326.52	
2006	18089	316	Indiana Harbor East	3312	171	NO. 1 ELECTRIC FURNACE LA	CO	2.95E-03	1.07	
2006	18089	316	Indiana Harbor East	3312	172	NO. 1 ELECTRIC FURNACE RO	CO	3.59E-02	13.06	
2006	18089	316	Indiana Harbor East	3312	173	NO. 1 ELECTRIC FURNACE LA	CO	2.31E-02	8.41	
2006	18089	316	Indiana Harbor East	3312	174	NO. 1 ELECTRIC FURNACE CO	CO	2.95E-03	1.07	
2006	18089	316	Indiana Harbor East	3312	2	NO. 5 BLAST FURNACE TOPSI	CO	1.82E+00	661.02	
2006	18089	316	Indiana Harbor East	3312	20	SINTER PLANT WIND BOX	CO	5.04E+01	15725.72	
2006	18089	316	Indiana Harbor East	3312	217	12" BAR MILL REHEAT FURNA	CO	1.02E-01	37.28	
2006	18089	316	Indiana Harbor East	3312	219	12" BAR MILL BAR ANNEAL F	CO	8.08E-06	0.00	
2006	18089	316	Indiana Harbor East	3312	265	80" HOT STRIP MILL #5 WAL	CO	4.36E-02	15.86	
2006	18089	316	Indiana Harbor East	3312	266	80" HOT STRIP MILL #6 WAL	CO	3.50E-02	12.76	
2006	18089	316	Indiana Harbor East	3312	268	80" HOT STRIP MILL CONDIT	CO	0.00E+00	0.00	
2006	18089	316	Indiana Harbor East	3312	280	2 AC - BOILER #211 1/2 BO	CO	1.52E-02	5.53	
2006	18089	316	Indiana Harbor East	3312	280	2 AC - BOILER #211 1/2 BO	CO	6.88E-04	0.25	
2006	18089	316	Indiana Harbor East	3312	281	2 AC - BOILER #211 1/2 BO	CO	1.52E-02	5.53	
2006	18089	316	Indiana Harbor East	3312	281	2 AC - BOILER #211 1/2 BO	CO	6.88E-04	0.25	
2006	18089	316	Indiana Harbor East	3312	282	2 AC - BOILER #212 1/2 BO	CO	2.22E-01	80.72	

2006	18089	316	Indiana Harbor East	3312	282	2 AC - BOILER #212 1/2 BO	CO	1.00E-02	3.65	
2006	18089	316	Indiana Harbor East	3312	283	2 AC - BOILER #212 1/2 BO	CO	2.22E-01	80.72	
2006	18089	316	Indiana Harbor East	3312	283	2 AC - BOILER #212 1/2 BO	CO	1.00E-02	3.65	
2006	18089	316	Indiana Harbor East	3312	284	2 AC - BOILER #213 1/2 BO	CO	2.09E-01	76.10	
2006	18089	316	Indiana Harbor East	3312	284	2 AC - BOILER #213 1/2 BO	CO	9.46E-03	3.44	
2006	18089	316	Indiana Harbor East	3312	285	2 AC - BOILER #213 1/2 BO	CO	2.09E-01	76.10	
2006	18089	316	Indiana Harbor East	3312	285	2 AC - BOILER #213 1/2 BO	CO	9.46E-03	3.44	
2006	18089	316	Indiana Harbor East	3312	287	NO. 2 AC STATION BFG FLAR	CO	1.39E-01	50.64	
2006	18089	316	Indiana Harbor East	3312	287	NO. 2 AC STATION BFG FLAR	CO	1.83E-04	0.07	
2006	18089	316	Indiana Harbor East	3312	3	NO. 5 BLAST FURNACE SLAG	CO	2.52E-02	9.17	
2006	18089	316	Indiana Harbor East	3312	330	NO. 5 BOILER HOUSE BOILER	CO	1.86E+00	676.95	
2006	18089	316	Indiana Harbor East	3312	330	NO. 5 BOILER HOUSE BOILER	CO	1.41E-01	51.30	
2006	18089	316	Indiana Harbor East	3312	34	PUGH LADLE FACILITY PUGH	CO	0.00E+00	0.00	
2006	18089	316	Indiana Harbor East	3312	340	12" BAR MILL ISBC OFFICE	CO	1.74E-04	0.03	
2006	18089	316	Indiana Harbor East	3312	350	PLANT 1 GALVANIZE NO. 3 G	CO	1.34E-02	4.88	
2006	18089	316	Indiana Harbor East	3312	355	PLANT 1 GALVANIZE NO. 4 A	CO	3.04E-03	1.11	
2006	18089	316	Indiana Harbor East	3312	36	PUGH LADLE FACILITY PUGH	CO	1.79E-02	6.52	
2006	18089	316	Indiana Harbor East	3312	374	NO. 3 COLD MILL WEST NO.	CO	1.07E-02	3.90	
2006	18089	316	Indiana Harbor East	3312	377	NO. 3 COLD MILL EAST NO.	CO	1.02E-01	37.10	
2006	18089	316	Indiana Harbor East	3312	385	NO. 3 COLD MILL NO. 3 CON	CO	5.05E-02	18.39	
2006	18089	316	Indiana Harbor East	3312	39	NO. 7 BLAST FURNACE CASTH	CO	2.83E-02	10.30	
2006	18089	316	Indiana Harbor East	3312	45	NO. 7 BLAST FURNACE STOVE	CO	1.15E+01	4199.81	
2006	18089	316	Indiana Harbor East	3312	45	NO. 7 BLAST FURNACE	CO	0.00E+00	0.00	

						STOVE				
2006	18089	316	Indiana Harbor East	3312	45	NO. 7 BLAST FURNACE STOVE	CO	8.87E-02	32.28	
2006	18089	316	Indiana Harbor East	3312	5	NO. 6 BLAST FURNACE CASTH	CO	2.65E-05	0.01	
2006	18089	316	Indiana Harbor East	3312	5	NO. 6 BLAST FURNACE CASTH	CO	1.73E-01	63.04	
2006	18089	316	Indiana Harbor East	3312	50	NO. 7 BLAST FURNACE CASTH	CO	1.53E+00	557.27	
2006	18089	316	Indiana Harbor East	3312	51	NO. 7 BLAST FURNACE CASTH	CO	6.07E+00	2209.18	
2006	18089	316	Indiana Harbor East	3312	513	80" HOT STRIP MILL 1/2 #4	CO	4.98E-03	1.81	
2006	18089	316	Indiana Harbor East	3312	514	80" HOT STRIP MILL 1/2 #4	CO	4.98E-03	1.81	
2006	18089	316	Indiana Harbor East	3312	53	NO. 7 BLAST FURNACE CASTH	CO	2.49E-01	90.76	
2006	18089	316	Indiana Harbor East	3312	6	NO. 6 BLAST FURNACE TOPSI	CO	1.12E+00	408.34	
2006	18089	316	Indiana Harbor East	3312	610	NO. 4 BOF PRIMARY SCRUBBE	CO	1.87E-01	68.15	
2006	18089	316	Indiana Harbor East	3312	611	NO. 4 BOF RHOB WATER TREA	CO	3.06E-01	111.52	
2006	18089	316	Indiana Harbor East	3312	612	NO. 7 BLAST FURNACE BISCH	CO	7.16E-01	260.72	
2006	18089	316	Indiana Harbor East	3312	613	NO. 2 BOF SCRUBBER WATER	CO	7.47E-02	27.18	
2006	18089	316	Indiana Harbor East	3312	7	NO. 6 BLAST FURNACE SLAG	CO	1.56E-02	5.66	
2006	18089	316	Indiana Harbor East	3312	70	NO. 7 BLAST FURNACE PCI C	CO	0.00E+00	0.00	57893.19
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	4	SINTER PLANT	CO	2.65E+01	10976.46	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	5	SINTER PLANT	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	8	BOF SHOP	CO	5.71E+00	2259.36	

2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	8	BOF SHOP	CO	1.06E-04	0.04	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	8	BOF SHOP	CO	1.04E-01	40.95	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	8	BOF SHOP	CO	1.02E-01	40.40	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	21	BOILER HSE-#5 BLR (S8C/D)	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	21	BOILER HSE-#5 BLR (S8C/D)	CO	2.38E-02	10.84	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	21	BOILER HSE-#5 BLR (S8C/D)	CO	2.67E-01	121.40	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	22	BOILER HSE-#6 BLR (S8E)	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	22	BOILER HSE-#6 BLR (S8E)	CO	4.88E-02	17.77	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	22	BOILER HSE-#6 BLR (S8E)	CO	4.93E-01	179.29	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	23	BOILER HSE-#7 BLR (S8F)	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	23	BOILER HSE-#7 BLR (S8F)	CO	1.88E-02	7.14	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	23	BOILER HSE-#7 BLR (S8F)	CO	1.63E-01	61.71	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	24	BOILER HSE-#8 BLR (S8G)	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	24	BOILER HSE-#8 BLR (S8G)	CO	1.03E-01	49.48	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	24	BOILER HSE-#8 BLR (S8G)	CO	6.73E-01	322.57	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	40	HSM-SPACE HEAT 1-28 (V4A)	CO	9.13E-03	1.81	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	48	HSM REHEAT FNC #1 (S4A)	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	48	HSM REHEAT FNC #1 (S4A)	CO	1.98E-01	81.90	

2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	49	HSM REHEAT FNC #2 (S4B)	CO	0.00E+00	0.00
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	49	HSM REHEAT FNC #2 (S4B)	CO	1.71E-01	64.72
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	50	HSM REHEAT FNC #3 (S4C)	CO	0.00E+00	0.00
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	50	HSM REHEAT FNC #3 (S4C)	CO	1.82E-01	55.10
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	69	H-3 BLAST FURNACE	CO	3.14E-01	158.67
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	69	H-3 BLAST FURNACE	CO	3.34E-01	168.97
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	69	H-3 BLAST FURNACE	CO	5.64E-03	2.85
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	69	H-3 BLAST FURNACE	CO	1.24E+00	625.80
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	70	H-4 BLAST FURNACE	CO	5.24E-01	198.50
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	70	H-4 BLAST FURNACE	CO	5.17E-01	195.89
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	70	H-4 BLAST FURNACE	CO	5.13E-03	1.95
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	70	H-4 BLAST FURNACE	CO	1.88E+00	711.96
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	71	BLAST FCE AUX - NG	CO	3.88E-02	16.04
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	8.90E-03	3.52
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	1.81E-02	7.15
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	7.03E-02	27.83
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	2.33E-02	9.21
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	0.00E+00	0.00

2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	4.56E-03	1.81	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	87	NO. 2 SHEET MILL	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	89	NO. 3 SHEET MILL	CO	0.00E+00	0.00	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	89	NO. 3 SHEET MILL	CO	3.28E-03	1.49	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	89	NO. 3 SHEET MILL	CO	2.49E-02	11.32	
2006	18089	318	MITTAL STEEL (ISG INDIANA HARBOR WEST)	3312	89	NO. 3 SHEET MILL	CO	9.23E-04	0.42	16434.33
2006	18089	326	CONOCOPHILLIPS PIPELINE	5171	25	TRUCK LOADING RACK EMISSI	CO	1.10E-02	3.99	
2006	18089	326	CONOCOPHILLIPS PIPELINE	5171	28	EQUIPMENT FUGITIVE EMISSI	CO	0.00E+00	0.00	
2006	18089	326	CONOCOPHILLIPS PIPELINE	5171	32	ADDITIONAL SOURCES	CO	5.60E-03	2.04	6.03
2006	18089	330	PRAXAIR, INC.	2813	1	BOILER 1 & 2	CO	1.00E-02	3.66	
2006	18089	330	PRAXAIR, INC.	2813	3	PLANT 6 REGEN HEATER	CO	2.76E-04	0.10	
2006	18089	330	PRAXAIR, INC.	2813	4	PLANT 7 REGEN HEATER	CO	2.76E-04	0.10	
2006	18089	330	PRAXAIR, INC.	2813	5	PLANT 8 REGEN HEATER	CO	2.76E-04	0.10	
2006	18089	330	PRAXAIR, INC.	2813	6	PLANT 2 500KW RMERGENCY	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	7	3-500KW EMERGENCY	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	8	4-500KW EMERGENCY	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	9	5-500 KW EMERGENCY	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	10	500 KW EMERGENCY	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	11	6 GENERATOR	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	12	GENERATOR 7 BACK-UP DIESEL	CO	1.28E-03	0.07	
2006	18089	330	PRAXAIR, INC.	2813	14	1150 HP DIESEL GENERATOR	CO	0.00E+00	0.00	
2006	18089	330	PRAXAIR, INC.	2813	18	DIESEL 5/6CWT PUMP	CO	0.00E+00	0.00	4.02

2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	2	GRIT BLAST W/2 DUST COLLE	CO	2.97E-03	0.77	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	3	3 PAINT BOOTHS	CO	5.17E-03	1.34	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	4	PAINT OVEN 5UNITS 4.5MMBT	CO	3.96E-03	1.03	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	8	BOILERHOUSE NORTH BOILER	CO	0.00E+00	0.00	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	9	BOILERHOUSE SOUTH BOILER	CO	0.00E+00	0.00	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	21	BUILDING NO 8 PAINT BOOTH	CO	1.21E-03	0.32	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	23	BUILDING NO 8 PAINT CURE	CO	8.72E-04	0.23	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	501	SOUTH STRESS FURNACE (5A)	CO	5.17E-03	1.34	
2006	18089	332	UNION TANK CAR COMPANY - PLANT #1	3743	502	NORTH STRESS FURNACE (5B)	CO	4.72E-03	1.23	6.26
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	8.14E-03	2.96	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	7.38E-03	2.69	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	2.58E-02	9.41	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	8.14E-03	2.96	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	2.24E-02	8.16	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	1.49E-02	5.44	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	7.38E-03	2.69	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	7.38E-03	2.69	
2006	18089	333	UNITED STATES GYPSUM COMPANY	3275	1	BOARD & MILL	CO	2.58E-02	9.41	46.39

2006	18089	356	BEEEMSTERBOER SLAG CORPORATION	1422	2	FUEL COMBUSTION	CO	1.67E-02	5.42	
2006	18089	358	EAST CHICAGO RECOVERY, INC.	3312	1	KILN DRYER BURNERS	CO	5.61E-03	1.46	
2006	18089	379	ASPHALT CUTBACKS, INC.	3999	1	PT1-THERMAL OXIDIZER	CO	7.60E-06	0.00	
2006	18089	379	ASPHALT CUTBACKS, INC.	3999	3	PT2-THERMAL OXIDIZER	CO	1.33E-05	0.00	0.01
2006	18089	382	INDIANA HARBOR COKE COMPANY	3312	1	HRCCF MAIN STACK	CO	7.11E-01	258.67	
2006	18089	382	INDIANA HARBOR COKE COMPANY	3312	2	CHARGING MACHINE	CO	2.48E-01	90.41	
2006	18089	382	INDIANA HARBOR COKE COMPANY	3312	3	PUSHING	CO	1.89E-01	68.79	
2006	18089	382	INDIANA HARBOR COKE COMPANY	3312	5	COAL THAW SHED	CO	3.90E-03	1.01	
2006	18089	382	INDIANA HARBOR COKE COMPANY	3312	23	VENTING	CO	5.34E-02	19.44	438.32
2006	18089	407	AVERY DENNISON GRAPHICS DIVISION	3089	2	NAT'L GAS T-OX	CO	3.18E-02	8.55	
2006	18089	435	PRAXAIR INC	2813	1	HYDROGEN REFORMER #1 SMR1	CO	5.00E-03	1.82	
2006	18089	435	PRAXAIR INC	2813	2	HYDROGEN REFORMER #2 SMR2	CO	5.13E-03	1.87	
2006	18089	435	PRAXAIR INC	2813	3	HYDROGEN REFORMER #3 SMR3	CO	1.04E-02	3.80	
2006	18089	435	PRAXAIR INC	2813	4	AUXILIARY BOILER #3	CO	1.11E-03	0.40	
2006	18089	435	PRAXAIR INC	2813	5	REFORMER #1 PROCESS VENT	CO	3.48E-02	12.68	
2006	18089	435	PRAXAIR INC	2813	6	REFORMER #2 PROCESS VENT	CO	9.97E-02	36.28	
2006	18089	435	PRAXAIR INC	2813	7	REFORMER #3 PROCESS VENT	CO	3.88E-02	14.13	
2006	18089	435	PRAXAIR INC	2813	8	CARBON DIOXIDE PLANT	CO	6.87E-02	25.00	
2006	18089	435	PRAXAIR INC	2813	8	CARBON DIOXIDE PLANT	CO	4.46E-02	16.22	
2006	18089	435	PRAXAIR INC	2813	9	SMR 4 REFORMER COMBUSTION	CO	9.09E-03	3.31	

2006	18089	435	PRAXAIR INC	2813	10	SMR 4 REFORMER	CO	4.84E-03	1.76	117.27
2006	18089	448	IRONSIDE ENERGY, LLC	4911	1	AUXILIARY BOILER	CO	4.43E-02	13.45	
2006	18089	448	IRONSIDE ENERGY, LLC	4911	1	AUXILIARY BOILER	CO	3.31E-01	100.43	113.88
2006	18089	449	WHITING CLEAN ENERGY, INC.	4911	1	UNIT 1	CO	0.00E+00	17.40	
2006	18089	449	WHITING CLEAN ENERGY, INC.	4911	1	UNIT 1	CO	0.00E+00	1.79	
2006	18089	449	WHITING CLEAN ENERGY, INC.	4911	2	UNIT 2	CO	1.13E-01	32.08	
2006	18089	449	WHITING CLEAN ENERGY, INC.	4911	2	UNIT 2	CO	1.08E-02	3.06	54.33
2006	18089	453	BP PRODUCTS N.A. INC. - WHITING TERMINAL	2911	1	LOADING RACK	CO	7.08E-03	2.58	
2006	18089	453	BP PRODUCTS N.A. INC. - WHITING TERMINAL	2911	1	LOADING RACK	CO	1.29E-04	0.05	
2006	18089	453	BP PRODUCTS N.A. INC. - WHITING TERMINAL	2911	1	LOADING RACK	CO	2.72E-04	0.10	
2006	18089	453	BP PRODUCTS N.A. INC. - WHITING TERMINAL	2911	1	LOADING RACK	CO	2.66E-05	0.01	
2006	18089	453	BP PRODUCTS N.A. INC. - WHITING TERMINAL	2911	2	FUGITIVE EMISSIONS	CO	0.00E+00	0.00	2.73
2006	18089	458	LAFARGE NORTH AMERICA	3312	1	SLAG GRANULATION	CO	4.33E-02	13.52	
2006	18089	458	LAFARGE NORTH AMERICA	3312	2	SLAG PELLETIZER	CO	1.90E-03	0.49	
2006	18089	458	LAFARGE NORTH AMERICA	3312	3	AIR COOLED SLAG	CO	2.89E-02	10.51	24.52
2006	18089	465	FRITZ ENTERPRISES INC.	5093	2	DIESEL ENGINE	CO	2.46E-02	0.78	
2006	18089	465	FRITZ ENTERPRISES INC.	5093	2	DIESEL ENGINE	CO	3.82E-02	1.21	1.99
2006	18089	504	MID-CONTINENT COAL & COKE, CO. - IHW	5052	1	COKE PROCESSING	CO	2.09E-02	5.43	
2006	18089	507	MID-CONTINENT COAL & COKE, CO. - IHW	5052	1	COKE PROCESSING	CO	7.53E-04	0.20	5.62
2006	18089	5057	MID-CONTINENT COAL&COKE CO. SENTRY SRC	5052	1	COKE PROCESSING	CO	1.15E-02	3.00	
2006	18089	5224	MID-CONTINENT COAL&COKE CO. - KOLMAN	5052	1	COKE PROCESSING	CO	1.33E-03	0.35	3.35
2006	18089	5256	U.S. AGGREGATES, INC. (PORTABLE SCREEN	3295	5	DIESEL ENGINE HYD. PUMP	CO	1.26E-07	0.00	

Lake County Totals	6.26E+02	219695.72
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Marion County

Inventory Year	FIPS	Facility ID	Facility Name	SIC Primary	Unit ID	Emission Unit Description		Winter Day Emissions (Tons)	Annual Emissions (TPY)	Source Totals (TPY)
2005	18097	12	DAIMLER CHRYSLER CORPORATION FOUNDRY	3321	30	NEW CUPOLA	CO	1.79E-02	6.50	
2005	18097	12	DAIMLER CHRYSLER CORPORATION FOUNDRY	3321	42	2 CRANKCASE OVENS-SYS 1&2	CO	2.01E-02	7.31	
2005	18097	12	DAIMLER CHRYSLER CORPORATION FOUNDRY	3321	43	2 WTR JACKET OVNS-SYS 1&2	CO	1.79E-02	6.50	20.31
2004	18097	14	NATIONAL RAILROAD PASSENGER CORPORATION	4011	5	DIESEL TRANSFER TABLE	CO	3.46E-04	0.09	
2004	18097	19	ELI LILLY AND COMPANY (LCC)	2834	3	INCINERATOR	CO	2.23E-03	0.58	
2006	18097	20	CARGILL DRY CORN INGREDIENTS	2041	10	D19 BOILER #1	CO	1.10E-02	4.02	
2006	18097	20	CARGILL DRY CORN INGREDIENTS	2041	40	D54 JOSHI DRYER SYSTEM	CO	4.73E-04	0.17	4.19
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	1	SLUDGE INCINERATOR #1	CO	4.41E-01	250.82	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	2	SLUDGE INCINERATOR #2	CO	3.48E-01	117.40	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	3	SLUDGE INCINERATOR #3	CO	1.18E+00	357.12	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	4	SLUDGE INCINERATOR #4	CO	1.28E+00	446.74	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	5	SLUDGE INCINERATOR #5	CO	0.00E+00	0.00	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	7	SLUDGE INCINERATOR #7	CO	0.00E+00	0.00	

2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	8	SLUDGE INCINERATOR #8	CO	0.00E+00	0.00	
2006	18097	32	INDIANAPOLIS BELMONT WWTP	4952	9	BOILERS	CO	4.13E-03	0.57	1172.65
2006	18097	33	IPL HARDING STREET STATION	4911	9	BOILER #9	CO	1.13E-04	0.06	
2006	18097	33	IPL HARDING STREET STATION	4911	10	BOILER #10	CO	3.00E-05	0.07	
2006	18097	33	IPL HARDING STREET STATION	4911	11	BOILER #50	CO	2.17E-01	68.03	
2006	18097	33	IPL HARDING STREET STATION	4911	11	BOILER #50	CO	5.50E-04	0.17	
2006	18097	33	IPL HARDING STREET STATION	4911	12	BOILER #60	CO	1.95E-01	73.78	
2006	18097	33	IPL HARDING STREET STATION	4911	12	BOILER #60	CO	3.88E-04	0.15	
2006	18097	33	IPL HARDING STREET STATION	4911	13	BOILER #70	CO	7.38E-01	305.12	
2006	18097	33	IPL HARDING STREET STATION	4911	13	BOILER #70	CO	1.22E-03	0.51	
2006	18097	33	IPL HARDING STREET STATION	4911	14	GAS TURBINE #1	CO	1.43E-05	0.01	
2006	18097	33	IPL HARDING STREET STATION	4911	15	GAS TURBINE #2	CO	1.32E-05	0.01	
2006	18097	33	IPL HARDING STREET STATION	4911	16	GAS TURBINE #3	CO	6.77E-06	0.01	
2006	18097	33	IPL HARDING STREET STATION	4911	18	GAS TURBINE #4	CO	2.40E-04	0.17	
2006	18097	33	IPL HARDING STREET STATION	4911	18	GAS TURBINE #4	CO	2.84E-03	1.99	
2006	18097	33	IPL HARDING STREET STATION	4911	19	GAS TURBINE #5	CO	2.41E-04	0.17	
2006	18097	33	IPL HARDING STREET STATION	4911	19	GAS TURBINE #5	CO	2.70E-03	1.89	
2006	18097	33	IPL HARDING STREET STATION	4911	20	EMERGENCY DIESEL GENERATR	CO	1.71E-05	0.16	

2006	18097	33	IPL HARDING STREET STATION	4911	21	GAS TURBINE #6	CO	5.30E-02	28.36	480.65
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	1	BOILER #11	CO	0.00E+00	0.00	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	1	BOILER #11	CO	1.17E-02	3.93	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	2	BOILER #12	CO	4.88E-02	16.44	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	2	BOILER #12	CO	1.22E-01	41.22	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	3	BOILER #13	CO	0.00E+00	0.00	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	3	BOILER #13	CO	6.60E-03	2.31	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	4	BOILER #14	CO	0.00E+00	0.00	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	4	BOILER #14	CO	2.76E-03	1.14	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	5	BOILER #15	CO	4.46E-01	106.70	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	5	BOILER #15	CO	1.75E-04	0.04	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	6	BOILER #16	CO	4.09E-01	112.72	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	6	BOILER #16	CO	1.52E-04	0.04	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	7	BOILER #17	CO	2.15E-04	0.11	
2006	18097	34	C.C. PERRY K STEAM PLANT	4961	8	BOILER #18	CO	3.82E-04	0.15	284.79
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	5.50E-02	17.15	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	1	ENGINE PLANT	CO	1.57E-02	4.91	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	0.00E+00	0.00	

2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	1.19E+00	370.95	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	5.09E-01	158.73	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	0.00E+00	0.00	
2006	18097	39	INTERNATIONAL TRUCK AND ENGINE CORP.	3321	2	FOUNDRY	CO	2.44E-03	0.76	552.50
2004	18097	40	EPS (D/B/A/ VALSPAR COATINGS)	2851	2	ORR & SEMBOWER BOILER	CO	5.58E-03	1.30	
2004	18097	40	EPS (D/B/A/ VALSPAR COATINGS)	2851	3	YORK SHIPLEY BOILER	CO	9.70E-04	0.23	1.53
2004	18097	41	WISHARD MEMORIAL HOSPITAL	8062	1	MEDICAL WASTE INCINERATOR	CO	3.32E-02	2.92	
2004	18097	41	WISHARD MEMORIAL HOSPITAL	8062	2	BOILER UNIT	CO	7.83E-02	4.07	
2004	18097	41	WISHARD MEMORIAL HOSPITAL	8062	5	INCINERATOR-IDLE-AT TEMP	CO	1.77E-04	0.02	7.01
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	3	3 STARCH FLASH DRYER 40-2	CO	5.55E-03	2.02	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	4	2 STARCH FLASH DRYER 40-3	CO	6.37E-03	2.32	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	5	1 STARCH FLASH DRYER 40-4	CO	4.67E-03	1.70	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	87	4 ST FLASH DRYER 575-1	CO	6.98E-03	2.54	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	88	5 ST FLASH DRYER 575-2	CO	6.21E-03	2.26	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	89	6 ST FLASH DRYER 575-3	CO	6.32E-03	2.30	

2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	105	1 SPRAY DRYER 5549-1	CO	6.24E-03	2.27	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	106	2 SPRAY DRYER 5549-2	CO	5.38E-03	1.96	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	128	DUMP STACK 5502-7	CO	2.58E-02	9.40	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	131	#3 SPRAY DRYER 5549-28	CO	6.48E-03	2.36	
2006	18097	42	NATIONAL STARCH & CHEMICAL CORPORATION	2046	142	AGGLOMERATOR 5549-13	CO	6.00E-04	0.14	29.27
2006	18097	61	CITIZENS GAS & COKE	4925	1	BOILER #300	CO	2.53E-04	0.09	
2006	18097	61	CITIZENS GAS & COKE	4925	2	BOILER #1	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	2	BOILER #1	CO	1.25E-04	0.04	
2006	18097	61	CITIZENS GAS & COKE	4925	2	BOILER #1	CO	9.83E-03	3.31	
2006	18097	61	CITIZENS GAS & COKE	4925	3	BOILER #2	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	3	BOILER #2	CO	1.25E-04	0.04	
2006	18097	61	CITIZENS GAS & COKE	4925	3	BOILER #2	CO	9.83E-03	3.31	
2006	18097	61	CITIZENS GAS & COKE	4925	4	BOILER #3	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	4	BOILER #3	CO	1.25E-04	0.04	
2006	18097	61	CITIZENS GAS & COKE	4925	4	BOILER #3	CO	9.83E-03	3.31	
2006	18097	61	CITIZENS GAS & COKE	4925	5	BATTERY E-CHARGING EMISS	CO	7.51E-05	0.03	
2006	18097	61	CITIZENS GAS & COKE	4925	5	BATTERY E-CHARGING EMISS	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	6	BATTERY E-PUSHING EMISS	CO	8.60E-03	3.26	
2006	18097	61	CITIZENS GAS & COKE	4925	6	BATTERY E-PUSHING EMISS	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	8	BATTERY E-UNDERFIRING	CO	1.64E-01	62.13	
2006	18097	61	CITIZENS GAS & COKE	4925	9	BATTERY E-OVEN/DOOR LEAKS	CO	9.56E-05	0.04	
2006	18097	61	CITIZENS GAS & COKE	4925	11	BATTERY H-CHARGING EMISS	CO	7.90E-05	0.03	
2006	18097	61	CITIZENS GAS & COKE	4925	12	BATTERY H-PUSHING EMISS	CO	9.05E-03	3.43	

2006	18097	61	CITIZENS GAS & COKE	4925	12	BATTERY H-PUSHING EMISS	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	14	BATTERY H-UNDERFIRING	CO	1.72E-01	65.34	
2006	18097	61	CITIZENS GAS & COKE	4925	15	BATTERY H-DOOR LEAKS	CO	1.01E-04	0.04	
2006	18097	61	CITIZENS GAS & COKE	4925	16	BATTERY I-CHARGING EMISS	CO	3.52E-04	0.13	
2006	18097	61	CITIZENS GAS & COKE	4925	16	BATTERY I-CHARGING EMISS	CO	1.09E-02	4.13	
2006	18097	61	CITIZENS GAS & COKE	4925	18	BATTERY I-UNDERFIRING	CO	7.99E-01	290.89	
2006	18097	61	CITIZENS GAS & COKE	4925	19	BATTERY I-OVEN/DOOR LEAKS	CO	4.48E-04	0.17	
2006	18097	61	CITIZENS GAS & COKE	4925	21	BATTERY E-TOPSIDE EMISS	CO	2.84E-05	0.01	
2006	18097	61	CITIZENS GAS & COKE	4925	22	BATTERY H-TOPSIDE EMISS	CO	2.99E-05	0.01	
2006	18097	61	CITIZENS GAS & COKE	4925	23	BATTERY I-TOPSIDE EMISS	CO	1.28E-04	0.05	
2006	18097	61	CITIZENS GAS & COKE	4925	24	BATTERY I-PUSHING	CO	4.03E-02	15.27	
2006	18097	61	CITIZENS GAS & COKE	4925	24	BATTERY I-PUSHING	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	27	THAW SHED	CO	4.55E-03	0.71	
2006	18097	61	CITIZENS GAS & COKE	4925	28	GAS COMPRESSOR 1 - CLARK	CO	2.71E-02	8.82	
2006	18097	61	CITIZENS GAS & COKE	4925	29	GAS COMPRESSOR 2 - CLARK	CO	2.75E-02	10.44	
2006	18097	61	CITIZENS GAS & COKE	4925	30	GAS COMPRESSOR 3 - AJAX	CO	4.09E-03	1.62	
2006	18097	61	CITIZENS GAS & COKE	4925	31	GAS COMPRESSOR 4 - AJAX	CO	6.91E-03	2.42	
2006	18097	61	CITIZENS GAS & COKE	4925	32	JOHN ZINK FLARE	CO	0.00E+00	0.00	
2006	18097	61	CITIZENS GAS & COKE	4925	33	BATTERY I SOAKING	CO	1.28E-03	0.48	
2006	18097	61	CITIZENS GAS & COKE	4925	34	BATTERY E SOAKING	CO	2.84E-04	0.10	
2006	18097	61	CITIZENS GAS & COKE	4925	35	BATTERY H SOAKING	CO	2.99E-04	0.11	479.82
2004	18097	79	QUEMETCO, INC.	3341	3.1	REVERB FURNACE	CO	3.61E-02	13.15	
2004	18097	79	QUEMETCO, INC.	3341	3.1	REVERB FURNACE	CO	4.84E-01	176.01	
2004	18097	79	QUEMETCO, INC.	3341	3.2	COLD CHARGE EAF	CO	0.00E+00	0.00	
2004	18097	79	QUEMETCO, INC.	3341	3.3	HOT CHARGE EAF	CO	8.08E-03	2.94	

2004	18097	79	QUEMETCO, INC.	3341	K19	REFINING KETTLES 1 THRU 9	CO	8.13E-02	29.61	
2004	18097	79	QUEMETCO, INC.	3341	K19	REFINING KETTLES 1 THRU 9	CO	2.28E-03	0.83	222.54
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	1	RECIPROCATING ENGINE 1408	CO	3.63E-02	13.20	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	2	RECIPROCATING ENGINE 1409	CO	1.94E-02	17.63	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	3	RECIPROCATING ENGINE 1410	CO	4.58E-02	17.36	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	4	RECIPROCATING ENGINE 1411	CO	1.79E-02	11.66	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	5	RECIPROCATING ENGINE 1412	CO	4.21E-02	13.22	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	6	RECIPROCATING ENGINE 1413	CO	5.45E-02	15.51	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	7	RECIPROCATING ENGINE 1414	CO	3.76E-02	24.44	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	8	RECIPROCATING ENGINE 1415	CO	4.13E-01	150.15	
2006	18097	95	PEPL - ZIONSVILLE COMPRESSOR STATION	4922	12	EMERGENCY GEN	CO	2.97E-05	0.01	263.18
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	1	UNIT #1 - COMBUSTOR	CO	9.10E-02	36.00	
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	1	UNIT #1 - COMBUSTOR	CO	1.84E-03	0.73	
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	2	UNIT #2 - COMBUSTOR	CO	1.03E-01	36.00	
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	2	UNIT #2 - COMBUSTOR	CO	2.07E-04	0.07	
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	3	UNIT #3 - COMBUSTOR	CO	1.07E-01	39.00	
2004	18097	123	COVANTA INDIANAPOLIS, INC.	4953	3	UNIT #3 - COMBUSTOR	CO	2.31E-03	0.84	112.64
2006	18097	129	ST VINCENT HOSPITAL	8062	1	BOILER 1	CO	8.27E-04	0.15	
2006	18097	129	ST VINCENT HOSPITAL	8062	1	BOILER 1	CO	3.09E-06	0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	2	BOILER 2	CO	1.80E-03	0.33	
2006	18097	129	ST VINCENT HOSPITAL	8062	2	BOILER 2	CO	3.09E-06	0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	3	BOILER 3	CO	1.11E-03	0.34	

2006	18097	129	ST VINCENT HOSPITAL	8062	3	BOILER 3	CO	0.00E+00	0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	4	INCINERATOR	CO		0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	5	BOILER 4	CO	0.00E+00	0.34	
2006	18097	129	ST VINCENT HOSPITAL	8062	5	BOILER 4	CO	0.00E+00	0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	6	BOILER 5	CO	4.50E-04	0.16	
2006	18097	129	ST VINCENT HOSPITAL	8062	6	BOILER 5	CO	0.00E+00	0.00	
2006	18097	129	ST VINCENT HOSPITAL	8062	7	GENERATOR 1	CO	1.03E-04	0.01	
2006	18097	129	ST VINCENT HOSPITAL	8062	8	GENERATOR 2	CO	1.10E-04	0.01	
2006	18097	129	ST VINCENT HOSPITAL	8062	9	GENERATOR 3	CO	2.14E-04	0.01	1.35
2004	18097	178	COMMERCIAL FINISHING	3479	2	CURE/DRY OVENS-SPRAY BTH	CO	1.45E-03	0.38	
2005	18097	245	WEYERHAEUSER	2653	1	BOILERS	CO	6.49E-03	1.69	
2004	18097	257	FEDERAL EXPRESS	4513	1	NATURAL GAS FIRED BOILERS	CO	1.79E-03	0.90	
2004	18097	257	FEDERAL EXPRESS	4513	2	8 STANDBY GENERATORS	CO	3.09E-03	1.12	2.03
2004	18097	287	CITIZENS GAS & COKE UTILITY - LNG SOUTH	4922	1	CLARK COMPRESSOR	CO	0.00E+00	6.15	
2004	18097	287	CITIZENS GAS & COKE UTILITY - LNG SOUTH	4922	2	T-THERMAL VAPORIZOR	CO	0.00E+00	0.07	6.22
2004	18097	297	CMW, INC.	3643	2	NATURAL GAS BOILER (EU1)	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	1	BOILER 1	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	1	BOILER 1	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	1	BOILER 1	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	2	BOILER 2	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	2	BOILER 2	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	2	BOILER 2	CO	0.00E+00	0.00	

2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	2	BOILER 2	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	3	BOILER 3	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	3	BOILER 3	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	3	BOILER 3	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	4	BOILER 4	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	4	BOILER 4	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	4	BOILER 4	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	4	BOILER 4	CO	2.70E-02	7.43	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	5	BOILER 5	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	5	BOILER 5	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	5	BOILER 5	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	5	BOILER 5	CO	2.80E-02	2.51	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	6	ETC	CO	7.02E-02	30.44	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	6	ETC	CO	2.63E-02	11.42	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	6	ETC	CO	3.69E-01	159.91	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	6	ETC	CO	1.09E-05	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	6	ETC	CO	7.09E-03	3.07	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	7	DTC (RELIABILITY TEST)	CO	2.62E-03	1.19	

2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	7	DTC (RELIABILITY TEST)	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	8	PTS12	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	9	PTS14	CO	4.35E-04	0.16	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	9	PTS14	CO	1.12E-03	0.41	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	9	PTS14	CO	6.73E-04	0.24	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	11	ETC702	CO	0.00E+00	0.00	
2006	18097	310	ALLISON TRANSMISSION GENERAL MOTORS CORP	3714	11	ETC702	CO	1.11E-02	2.57	219.36
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	16	TEST CELLS PLANT 5	CO	0.00E+00	0.00	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	16	TEST CELLS PLANT 5	CO	3.61E-05	0.01	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	16	TEST CELLS PLANT 5	CO	1.21E-02	4.41	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	522	TURBINE GENERATOR	CO	0.00E+00	0.09	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	583	TEST CELLS 111	CO	1.48E-03	0.59	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	801	B&W BOILER #3 PLANT 8	CO	4.02E-03	0.66	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	802	B&W BOILER #4 PLANT 8	CO	4.89E-03	0.61	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	805	B&W BOILER #7 PLANT 8	CO	2.17E-03	0.82	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	806	B&W BOILER #8 PLANT 8	CO	8.63E-03	1.38	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	807	B&W BOILER #9 PLANT 8	CO	0.00E+00	0.00	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	807	B&W BOILER #9 PLANT 8	CO	7.56E-04	0.30	

2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	807	B&W BOILER #9 PLANT 8	CO	1.95E-03	0.77	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	808	B&W BOILER #10 PLANT 8	CO	0.00E+00	0.00	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	808	B&W BOILER #10 PLANT 8	CO	2.34E-03	0.67	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	808	B&W BOILER #10 PLANT 8	CO	5.08E-03	1.45	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	809	501-K TURBINE GENERATOR 8	CO	0.00E+00	0.01	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	811	2 GAS TURBINE TC841	CO	1.48E-02	4.34	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	812	10 GAS TURBINE D-3	CO	1.38E-02	5.99	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	813	12 GAS TURBINE D-2	CO	2.86E-02	9.30	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	814	4 GAS TURBINE D-4	CO	3.91E-05	0.00	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	815	SHACK HEATERS PLT.8	CO	0.00E+00	0.00	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	815	SHACK HEATERS PLT.8	CO	3.49E-04	0.11	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	820	TEST CELLS PLANT 8	CO	9.10E-05	0.03	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	820	TEST CELLS PLANT 8	CO	3.67E-02	13.34	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	820	TEST CELLS PLANT 8	CO	2.28E-04	0.08	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	879	TURBINE GENERATOR PEAKER	CO	2.01E-04	0.13	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	880	CO-GEN TURBINE	CO	5.04E-04	0.17	
2006	18097	311	ROLLS-ROYCE CORPORATION. PLANT 5 & 8	3724	880	CO-GEN TURBINE	CO	4.28E-02	14.44	59.71
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	1.25E-02	4.72	

2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	9.52E+00	3608.19	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	1.27E-02	4.82	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	6.81E-03	2.58	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	8.87E-03	3.36	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	5.54E-07	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	7.54E-04	0.29	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	1.07E-02	4.06	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	1.82E-03	0.69	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	5.35E-03	2.03	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	27	PRODUCTION PLANT 27	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	1.22E-02	3.84	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	5.14E-03	1.61	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	6.34E-03	1.99	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	0.00E+00	0.00	

2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	3.46E-03	1.09	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	4.13E-02	12.97	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	1.77E-02	5.56	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	0.00E+00	0.00	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	1.40E-02	4.40	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	29	BOILER - PLANT 29	CO	5.04E-02	15.82	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	41	PRODUCTION PLANT 41	CO	2.23E-04	0.07	
2006	18097	315	VERTELLUS AGRICULTURE & NUTRITION	2865	47	PRODUCTION PLANT 47	CO	3.35E-04	0.11	3678.20
2004	18097	352	GEORGETOWN SUBSTATION GENERATING PLANT	4911	1	GAS TURBINES	CO	1.31E-02	9.92	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	0.00E+00	0.00	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.85E-02	9.26	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.85E-02	9.26	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.85E-02	9.26	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.85E-02	9.26	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	1.85E-06	0.00	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	1.85E-06	0.00	
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	1.85E-06	0.00	

2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	0.00E+00	0.00		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	0.00E+00	0.00		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	0.00E+00	0.00		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	1.33E-02	4.31		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.28E-04	0.07		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	4.81E-05	0.02		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	2.28E-04	0.07		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	110	LFG GENERATION/COMBUSTION	CO	4.81E-05	0.02		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	400	STONE CRUSHER OPERATION	CO	2.81E-04	0.03		
2004	18097	366	SOUTH SIDE LANDFILL, INC.	4953	500	MINOR EQUIPMENT OPERATION	CO	6.54E-06	0.00	41.56	
2004	18097	373	PARTS CLEANING TECHNOLOGIES, LLC	2869	2	60 HP BOILER	CO	2.97E-04	0.09		
2004	18097	421	QWEST - T1	4813	1	EMERGENCY GENERATORS	CO	1.55E-03	0.14		
2004	18097	422	QWEST - POP	4813	1	EMERGENCY GENERATORS	CO	5.01E-05	0.02		
								Marion County Total	2.10E+01	7652.42	

Appendix E: AIRS Quick Look CO Ambient Monitoring for Lake and Marion Counties for 1998-2007

SITE ID	Carbon monoxide (42101)				Indiana		#	Parts per million (007)		OBS >35	MAX 8- HR	MAX 8- HR	OBS >9	CERT	EDT	
	P O C	PQAO	CITY	COUNTY	ADDRESS	1ST		2ND	1ST							2ND
						YEAR		METH	MAX 1- HR							MAX 1- HR
18-089-0015	1	520	East Chicago	Lake	901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE	1998	54	8477	8.4	6.9	0	3.2	3.2	0	Y	0
18-089-0015	1	520	East Chicago	Lake	901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE	1999	54	8721	5.6	5.5	0	3.1	3.1	0	Y	0
18-089-0015	1	520	East Chicago	Lake	901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE	2000	54	8751	4.8	4.6	0	3.2	3.2	0	Y	0
18-089-0015	1	520	East Chicago	Lake	901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE	2001	54	8234	6.2	5.9	0	3.4	3.2	0	Y	0
18-089-0015	1	520	East Chicago	Lake	901 EAST CHICAGO AVE/ EAST	2002	54	8224	6.5	4.8	0	3.2	2.6	0	Y	0

CHICAGO
POST OFFICE

18-089-0015 1 520 East Chicago Lake 901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE 2003 54 8141 8.5 8.2 0 5.1 3.4 0 Y 0

18-089-0015 1 520 East Chicago Lake 901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE 2004 54 8663 6.2 4.8 0 2.8 2.7 0 Y 0

18-089-0015 1 520 East Chicago Lake 901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE 2005 54 8706 5 4.5 0 2.3 2.3 0 Y 0

18-089-0015 1 520 East Chicago Lake 901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE 2006 54 8654 5.9 4.4 0 3.2 2.4 0 Y 0

18-089-0015 1 520 East Chicago Lake 901 EAST CHICAGO AVE/ EAST CHICAGO POST OFFICE 2007 54 7655 8.5 8 0 3.1 3 0 0

SITE ID	P	O	C	PQAO	CITY	COUNTY	ADDRESS	YEAR	1ST	2ND	1ST	2ND	OBS	MAX	MAX	OBS	CERT	EDT
									METH	#	MAX	MAX						
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	1998	54	8715	5.6	5	0	3.2	2.8	0	Y	0		

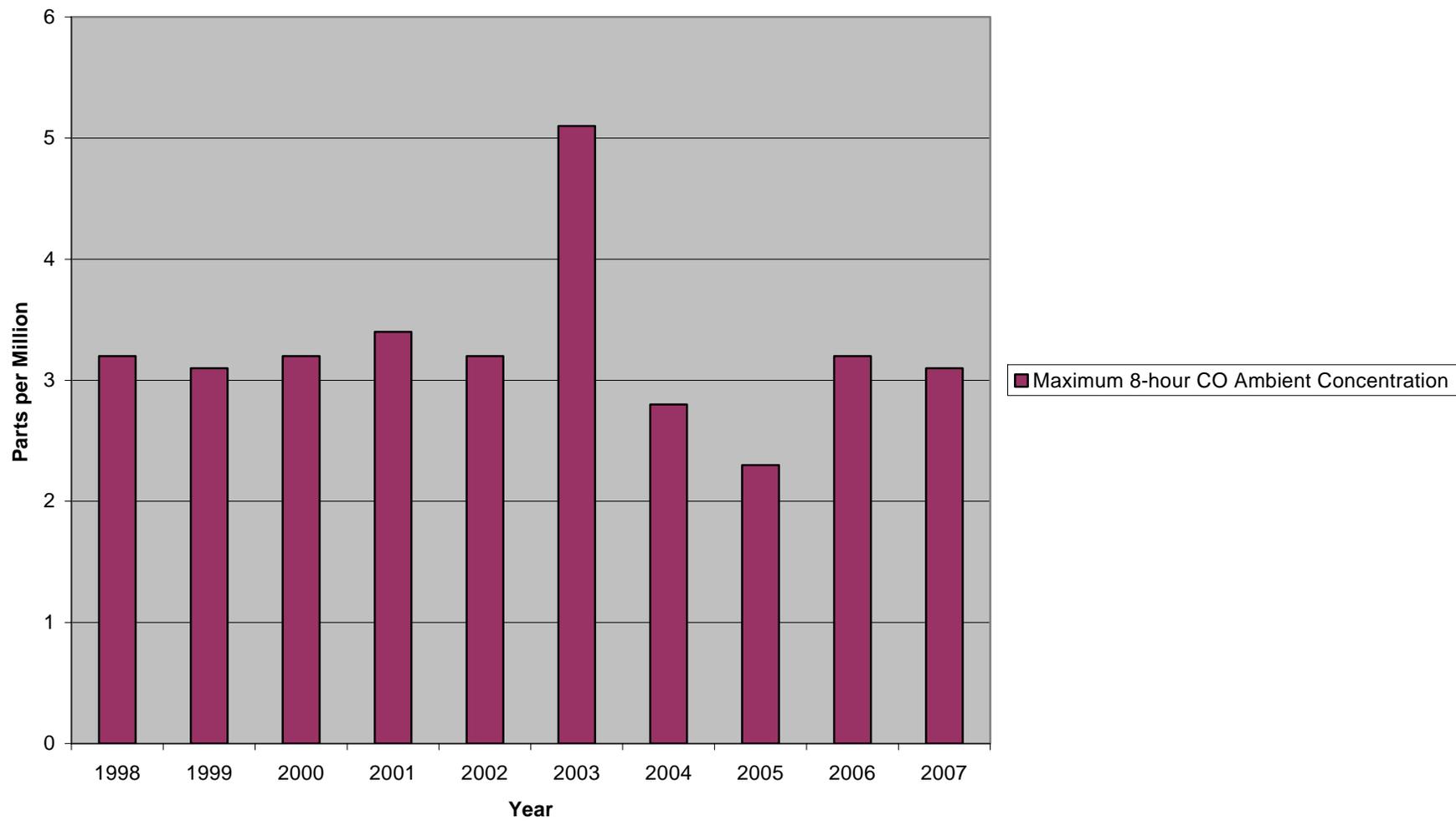
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	1999	54	8706	4.9	4.8	0	2.9	2.6	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2000	54	8670	6.4	5.7	0	2.9	2.8	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2001	54	8673	4.5	3.8	0	2.5	2.2	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2002	54	8549	16.6	14.2	0	8.3	5	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2003	54	8713	4.5	3.6	0	2.9	2.7	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2004	54	8740	4.4	4	0	2.8	2.2	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2005	54	8722	4.5	4.2	0	2.7	2.4	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2006	54	8730	3.7	3.6	0	2.1	2	0	Y	0
18-097-0072	1	523	Indianapolis	Marion	50 NORTH ILLINOIS STREET	2007	54	8579	13	7.9	0	4.3	3.6	0		0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	1998	54	8651	4.9	4.3	0	2.9	2.5	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	1999	54	8398	4	3.8	0	2.4	2.2	0	Y	0
18-097-	1	520	Indianapolis	Marion	NAVAL AVIONICS	2000	54	8597	5.3	4.9	0	3.9	3.8	0	Y	0

0073

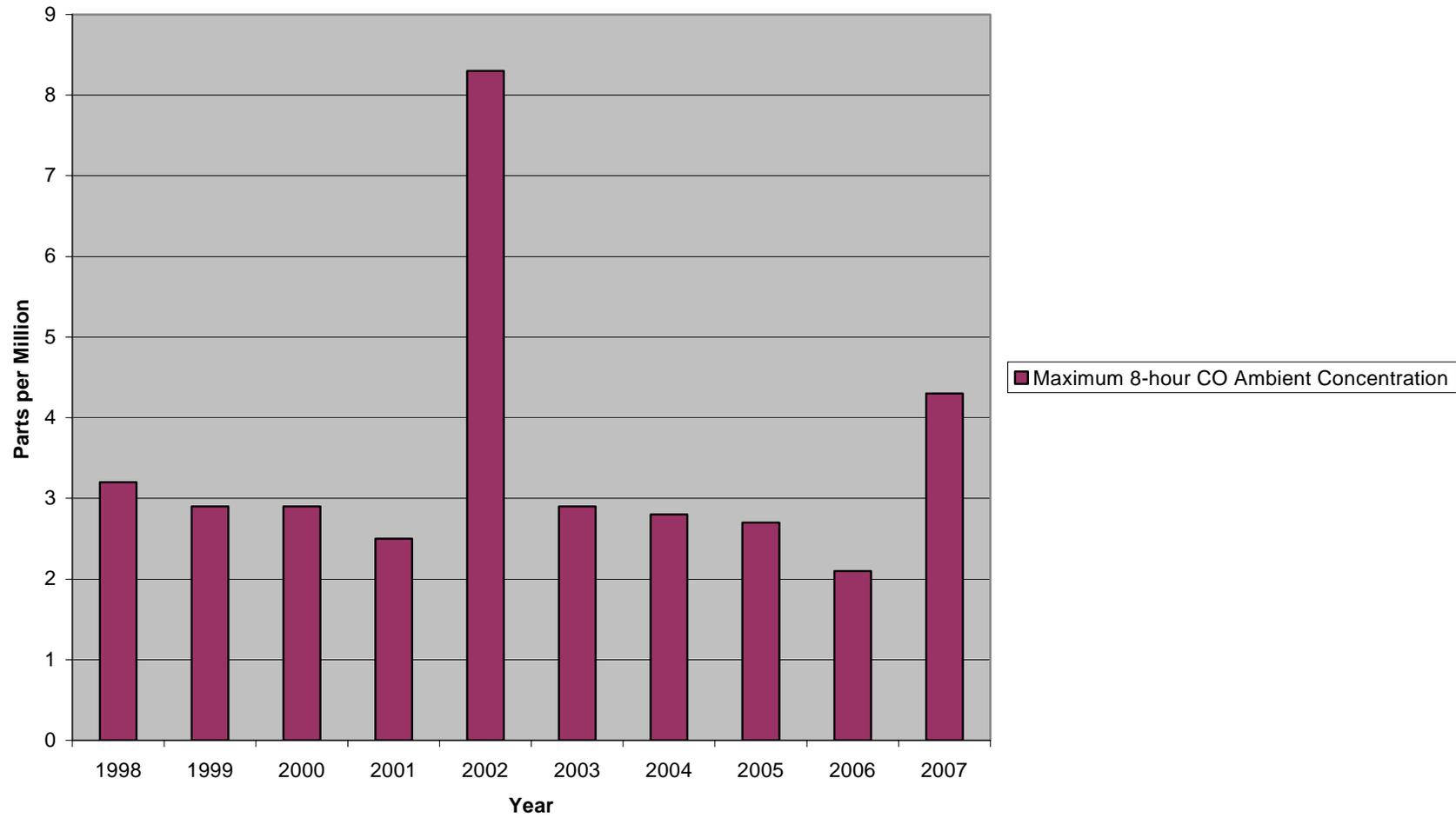
SITE ID	PQAO	CITY	COUNTY	ADDRESS	YEAR	1ST	2ND	#	1ST	2ND	OBS	MAX	MAX	OBS	CERT	EDT
						YEAR	METH		HR	HR		8-	8-			
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2001	54	8617	3.6	3.5	0	3.1	2.5	0	Y	0
	P								MAX	MAX		MAX	MAX			
	O								1-	1-		8-	8-			
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2002	54	8676	7.7	4.6	0	1.7	1.6	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2003	54	8623	4	3.8	0	3.1	2.3	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2004	54	8317	3.8	3.2	0	1.9	1.8	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2005	54	8505	3.1	3.1	0	1.9	1.8	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2006	54	8569	6.2	2.8	0	2.3	2.1	0	Y	0
18-097-0073	1	520	Indianapolis	Marion	NAVAL AVIONICS CENTER, 6125 E. 16TH ST.	2007	54	8622	2.6	2.5	0	2.3	2.0	0		0

CENTER, 6125 E.
16TH ST.

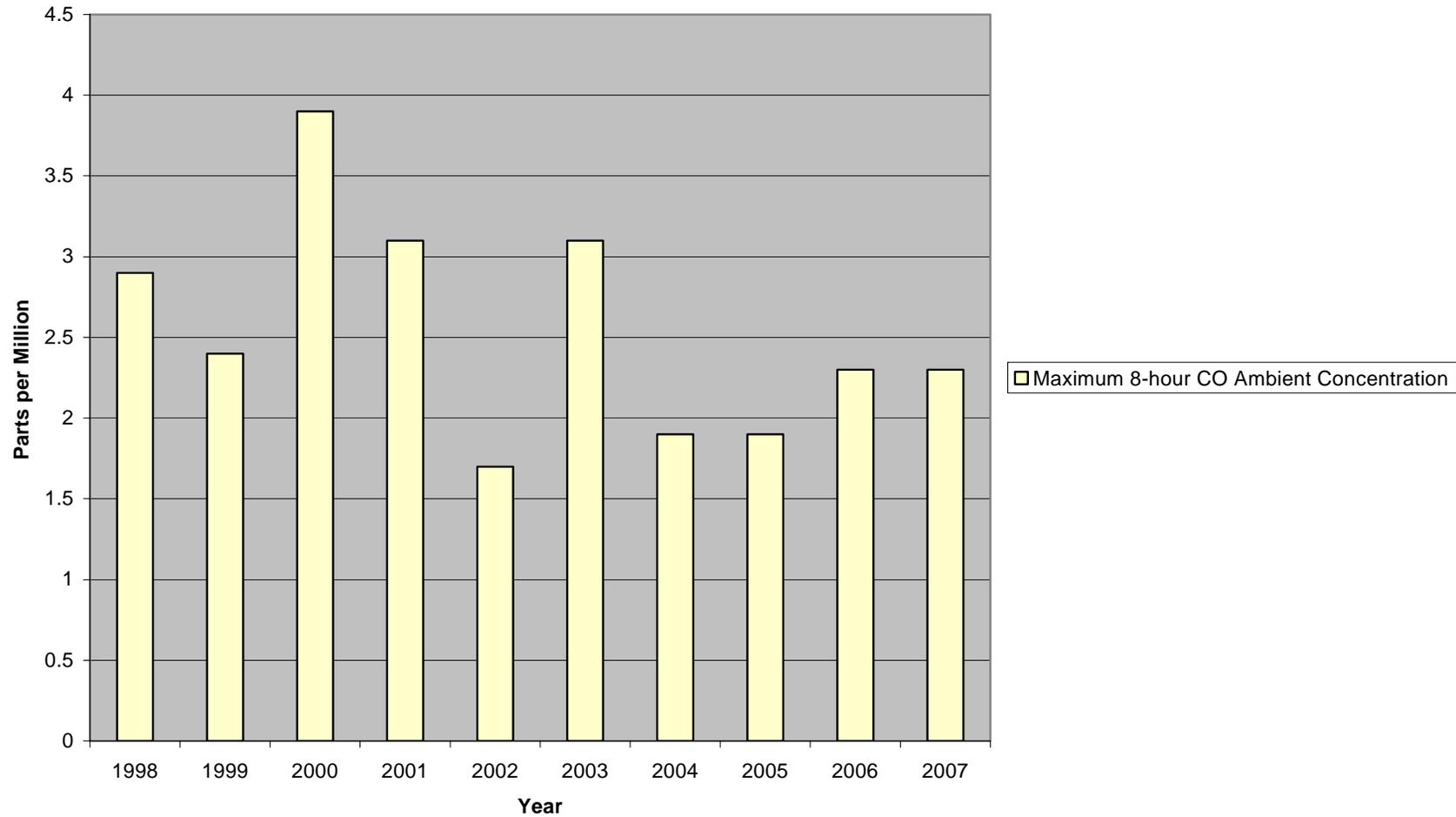
Lake County Maximum 8-hour CO Ambient Concentration-East Chicago Post Office Monitor



Marion County Maximum 8-hour CO Ambient Concentration-Illinois St. Monitor



Marion County Maximum 8-hour CO Ambient Concentration-Naval Avionics Monitor



Appendix F: Legal Public Notice

LEGAL NOTICE OF OPPORTUNITY FOR A PUBLIC HEARING

Limited Maintenance Plan Update In Association with the 8-Hour Carbon Monoxide (CO) Standard

Lake and Marion Counties

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will upon request hold a public hearing regarding the Limited Maintenance Plan Update for Lake and Marion Counties in association with the 8-hour CO Standard. If no request for a public hearing is received by December 19, 2008 the hearing will not be scheduled. Following the request of a public hearing, a new 30 day notification will be published announcing date and location where the public hearing will be held. Interested parties can check the online IDEM calendar at <http://www.in.gov/idem/calendar.html> or contact Jeff Stoakes at the contact information listed below on or after December 23, 2008, to check if a hearing has been requested.

This Limited Maintenance Plan Update is being drafted and submitted consistent with United States Environmental Protection Agency (U.S. EPA) guidance.

Copies of the draft documents will be available on or before November 19, 2008 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate Avenue, Room N1003, Indianapolis, Indiana.
- Indianapolis Office of Environmental Services, Administrative Building, 2700 South Belmont Avenue, Indianapolis, Indiana.
- Marion County Public Library, Central Library, One Library Square, 40 East St. Clair Street, Indianapolis, Indiana.
- Indiana Department Of Environmental Management, Northwest Regional Office, 8380 Louisiana Street, Merrillville, Indiana.
- East Chicago Public Library (Main Branch), 2401 East Columbus Drive, East Chicago, Indiana.
- Ora L. Wildermuth Branch Library, 501 South Lake Street, Gary, Indiana.

The draft document will also be available on the internet at:

<http://www.in.gov/idem/4658.htm>

IDEM will accept written comments through December 19, 2008. Mailed comments should be addressed to:

CO Limited Maintenance Plan Update for Lake and Marion Counties

Scott Deloney, Chief
Programs Branch
Office of Air Quality MC 61-50
100 North Senate Avenue
Indiana Department of Environmental Management
Indianapolis, IN 46206-2251

For additional information contact Mr. Jeff Stoakes, at the Indiana Department of Environmental Management, Air Programs Branch, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 233-0429 or (800) 451-6027 ext. 3-0429 (in Indiana).

Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
Indiana Department of Environmental Management – Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

Appendix G: Proof of Publication

Form Prescribed by State Board of Accounts
IDEM
 (Governmental Unit)
Lake County, Indiana

General Form No. 99F (Revised 1995)
 To: Northwest Indiana Newspapers
601-45th Avenue, Munster, IN 46321

PUBLISHER'S CLAIM

LINE COUNT

Display Matter (Must not exceed two actual lines, neither of which shall total more than four solid lines of type in which the body of the advertisement is set) -- number of equivalent lines _____

Head -- number of lines _____

Body -- number of lines _____

Tail -- number of lines _____

Total number of lines in notice _____

COMPUTATION OF CHARGES

123 lines 1 columns wide equals 123 equivalent lines at 298 cents per line

\$ 36.65

Additional charge for notices containing rule or tabular work

on line

(50 percent of above amount)

10.00

Charge for extra proofs of publication (\$1.00 for each proof in excess of two)

TOTAL AMOUNT OF CLAIM

\$ 46.65

20154195

DATA FOR COMPUTING COST

Width of single column 6.4 ems

Number of insertions 1

Size of type 2.5 point

Pursuant to the provisions and penalties of Chapter 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: November 19, 2008

Title: Legal Clerk

East Chicago Public Library (Main Branch)
 2401 E East Columbus Drive
 East Chicago, Indiana 46312
 One L. Wideman Branch Library
 501 South Lake Street
 Gary, Indiana 46508
 The draft document will also be available on the Internet at: <http://www.in.gov/indem>
 IDEM will accept written comments through December 19, 2008. Mailed comments should be addressed to:
 CO Limited Maintenance Plan Update for Lake and Marion Counties
 Indiana Department of Environmental Management
 1800 Lakeshore Drive
 Merrillville, Indiana 46461
 Or call (317) 232-7700 (voice) or (317) 232-6667 (TDD). Please provide a number of 72 hours' notice.

LEGAL NOTICE OF PUBLIC HEARING
 United States Environmental Protection Agency
 Office of Air Quality Planning and Standards
 Research Triangle Park, North Carolina 27711
 Notice is hereby given under 40 CFR 51.102 that the final rulemaking for the Lake and Marion Counties Limited Maintenance Plan Update for Lake and Marion Counties will occur on December 19, 2008 at 10:00 AM in the conference room of the Lake and Marion County Board of Commissioners, 601 South Lake Street, Gary, Indiana 46508. The public hearing will be held on the second of the following dates and locations: Monday, November 17, 2008 at 10:00 AM at the Lake and Marion County Board of Commissioners, 601 South Lake Street, Gary, Indiana 46508. The public hearing will be held on the second of the following dates and locations: Tuesday, November 18, 2008 at 10:00 AM at the Lake and Marion County Board of Commissioners, 601 South Lake Street, Gary, Indiana 46508. The public hearing will be held on the second of the following dates and locations: Wednesday, November 19, 2008 at 10:00 AM at the Lake and Marion County Board of Commissioners, 601 South Lake Street, Gary, Indiana 46508. If you are unable to attend the public hearing, you may submit written comments to the Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency (OAQPS), Attention: Docket #A-08-018, P.O. Box 6, Research Triangle Park, North Carolina 27711. Comments should be received by the Office of Air Quality Planning and Standards on or before December 19, 2008. For more information, please contact the Office of Air Quality Planning and Standards at (919) 974-3214. The draft rulemaking document is available on the Internet at <http://www.epa.gov/indem>.

State of Indiana)
) ss:
Lake County)

Personally appeared before me, a notary public in and for said county and state, the undersigned D. Stephens who, being duly sworn, says that he is Legal Clerk of the TIMES newspaper of general circulation printed and published in the English language in the (city) (town) of Munster in the state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time, the dates of publication being as follows:

November 19, 2008

Subscribed and sworn to before me this 19 day of November, 2008

Janice C. Meloy
 Notary Public
6-13-2015

My commission expires: _____

ACCOUNT #8091350

INDIANA DEPT OF ENVIRON MGT PT4857 To POST-TRIBUNE Dr. (Government Unit)

LAKE County, Indiana 1433 E. 83RD AVE, MERRILLVILLE, IN 46410-6307

PUBLISHER'S CLAIM

LINE COUNT

Display Matter (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) number of equivalent lines.

Head - number of lines.

Body - number of lines.

Tail - number of lines.

Total number of lines in notice

COMPUTATION OF CHARGES

49.00 3 147.00 lines, columns wide equals equivalent

lines at .3200 cents per line \$ 47.04

Additional charge for notices containing rule or tabular work (50 percent of above amount)

Charge for extra proofs of publication (\$1.00 for each proof in excess of two) \$ 47.04

TOTAL AMOUNT OF CLAIM \$

DATA FOR COMPUTING COST

Width of single column 6.8 ems

Size of type 5.5 point

Number of insertions 1

Pursuant to the provisions and penalties of Ch. 155, Acts 1953.

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid

Date Nov. 19 20 08

Signature of Maribel Delbrey, Credit Manager

PUBLISHER'S AFFIDAVIT

State of Indiana) SS Lake County)

PT4857

LEGAL NOTICE OF OPPORTUNITY FOR A PUBLIC HEARING Limited Maintenance Plan Update In Association with the Four Carbon Monoxide (CO) Standard Lake and Marion Counties

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will upon request hold a public hearing regarding the Limited Maintenance Plan Update for Lake and Marion Counties in association with the 8-hour CO Standard. If no request for a public hearing is received by December 19, 2008 the hearing will not be scheduled. Following the request of a public hearing, a new 30 day notification will be published announcing date and location where the public hearing will be held. Interested parties can check the online IDEM calendar at http://www.in.gov/idem/calendar.html or contact Jeff Stoakes at the contact information listed below on or after December 23, 2008, to check if a hearing has been requested. This Limited Maintenance Plan Update is being drafted and submitted consistent with United States Environmental Protection Agency (U.S. EPA) guidance. Copies of the draft document will be available on or before November 19, 2008 to any person upon request and at the following locations: Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center-North, 100 North Senate Avenue, Room N1103, Indianapolis, Indiana. Indianapolis Office of Environmental Services, Administrative Building, 2700 South Belmont Avenue, Indianapolis, Indiana. Marion County Public Library, Central Library, One Library Square, 40 East St. Clair Street, Indianapolis, Indiana. Indiana Department of Environmental Management, Northwest Regional Office, 8380 Louisiana Street, Merrillville, Indiana. East Chicago Public Library (Main Branch), 2401 East Columbus Drive, East Chicago, Indiana. Ora L. Wilkermuth Branch Library, 501 South Lake Street, Gary, Indiana. The draft document will also be available on the internet at: http://www.in.gov/idem/4658.htm IDEM will accept written comments through December 19, 2008. Mailed comments should be addressed to: Indiana Department of Environmental Management, Office of Air Quality, MC 61-50, 100 North Senate Avenue Indianapolis, IN 46208-2253 For additional information, contact Mr. Jeff Stoakes, at the Indiana Department of Environmental Management, Air Programs Branch, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 233-6429 or (800) 451-6627 ext. 3-9429 (in Indiana). Individuals with disabilities and accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at: Attn: ADM Coordinator, Indiana Department of Environmental Management - Mail Code 50-10, 100 North Senate Avenue, Indianapolis, IN 46204-2253 Or call (317) 233-1769 (voice) or (317) 232-6585 (TDD). Please provide a minimum of 72 hours notification.

nally appeared before me a notary public in and for said county and state, the

MARIBEL DELBREY

ed who,

LEGAL CLERK

sworn, says that he/she is

POST-TRIBUNE a DAILY

er of general circulation printed and published in the English language in the city of

MERRILLVILLE

in state and county

and that the printed matter attached hereto is a true copy, which was duly published

per for 1 time the dates of publication being as follows.

LIMITED MAINTENANCE PLAN

11/19

I and sworn to before me this 19th day of Nov, 2008

Signature of Notary Public

Notary Public

January 16, 2016

My commission expires