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June 15, 2006

Via Hand Delivery

Trade Secret/Business Confidential Materials

William Spires
Air Quality Assessment Unit
Division of Air Pollution Control
Ohio Environmental Protection Agency
122 South Front Street
Columbus, OH 43216

RE: American Municipal Power Generating Station: AERMET Modeling Files

Dear Bill:

On behalf of American Municipal Power-Ohio, Inc. ("AMP-Ohio"), enclosed, please find a CD containing the AERMET Class II Air Quality Modeling files for the proposed American Municipal Power Generating Station ("AMPGS") located in Meigs County, Ohio. These files are the electronic version of the AERMET input/output and other associated data files that were previously included by hardcopy in AMPGS's PSD permit to install application, submitted to Ohio EPA May 15, 2006.

Pursuant to Ohio law, AMP-Ohio is asserting that the enclosed electronic files are trade secret and should be maintained by Ohio EPA in non-public files. Specifically, the electronic files contain "process" information, developed by AMP-Ohio and GT Environmental, which has commercial value and is trade-secret. Since AMP-Ohio has already provided hardcopies of the Class II input/output information and associated data, the public already has access to all information used by AMP-Ohio for Class II modeling. Therefore, AMP-Ohio requests that Ohio EPA make a trade secret determination and maintain the electronic files as confidential (i.e. they cannot be copied, duplicated, electronically transferred or otherwise passed to a third party).

Please do not hesitate to contact me if you have any questions.

Respectfully,

April

April R. Bott

ARB/tp

Enclosure
cc: Randy Meyer
Scott Kiesewetter
Chuck Taylor

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June 1, 2006

Via Hand Delivery

Trade Secret/Business Confidential Materials

William Spires
Air Quality Assessment Unit
Division of Air Pollution Control
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43216-1049

RE: American Municipal Power Generating Station:
Class II Air Quality Modeling to Support PSD PTI Application

Dear Bill:

On behalf of American Municipal Power-Ohio, Inc. ("AMP-Ohio"), enclosed, please find a CD containing the AERMOD Class II Air Quality Modeling files for the proposed American Municipal Power Generating Station ("AMPGS") located in Meigs County, Ohio. These files are the electronic version of the AERMOD input/output and other associated data files that were previously included by hardcopy in AMPGS's PSD permit to install application, submitted to Ohio EPA May 15, 2006.

Pursuant to Ohio law, AMP-Ohio is asserting that the enclosed electronic files are trade secret and should be maintained by Ohio EPA in non-public files. Specifically, the electronic files contain "process" information, developed by AMP-Ohio and GT Environmental, which has commercial value and is trade-secret. Since AMP-Ohio has already provided hardcopies of the Class II input/output information and associated data, the public already has access to all information used by AMP-Ohio for Class II modeling. Therefore, AMP-Ohio requests that Ohio EPA make a trade secret determination and maintain the electronic files as confidential (i.e. they cannot be copied, duplicated, electronically transferred or otherwise passed to a third party).

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April R. Bott

ARB/tp

Enclosure
cc: Randy Meyer
Scott Kiesewetter
Chuck Taylor

PERMIT-TO-INSTALL APPLICATION
VOLUME IV

CLASS II AIR QUALITY MODELING

For:
AMERICAN MUNICIPAL POWER GENERATING STATION

Submitted By:
AMERICAN MUNICIPAL POWER-OHIO, INC.

May 2006

GT
Environmental, Inc.

635 Park Meadow Road, Suite 112
Westerville, Ohio 43081
(614) 794-3570

PERMIT-TO-INSTALL APPLICATION
VOLUME IV

CLASS II AIR QUALITY MODELING REPORT

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SECTION 1 INTRODUCTION AND SUMMARY

The proposed American Municipal Power Generating Station (AMPGS) project is the development of a new pulverized coal-fired electric generating facility. The facility will consist of two steam generators designed for base load operation with a nominal net power output of 480 MW each or a maximum heat input capacity of 5,191 MMBtu/hr each. The units will burn a blend of Ohio, Central Appalachian and/or Powder River Basin coals. The proposed project is located in Meigs County (Ohio) in UTM Zone 17, 420,794 meters easting and 4,306,082 meters northing. A site plan for the proposed AMPGS is included in Appendix A.

This project will involve major emissions for SO_2, NO_x, PM_{10} and CO. As a result, air quality modeling is required for each of these pollutants, including a PSD increment analysis for SO_2, NO_2 and PM_{10}. The maximum emission rates presented in the PTI application for the emissions units that are included in this Class II modeling analysis are presented in Appendix A.

The Class II air dispersion modeling was completed using US EPA's AERMOD dispersion model and pursuant to the guidelines established in Ohio EPA Engineering Guide #69 and the US EPA New Source Review Workshop Manual, Prevention of Significant Deterioration and Nonattainment Area Permitting (Draft October 1990). Details on the modeling methodology and the predicted off-site impacts are included in this report. Table 1-1 summarizes the maximum predicted off-site air quality impact from the AMPGS.

Table 1-1
Air Quality Modeling Summary
Predicted Maximum Off-Site Impact from the AMPGS

Pollutant	Avg. Period	Maximum Predicted Concentration ($\mu g/m^3$)	Second High Predicted Concentration ($\mu g/m^3$)	PSD Significant Impact Increment ($\mu g/m^3$)	PSD Monitoring De Minimis Concentration ($\mu g/m^3$)	½ Class II PSD Increment ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)
SO_2	3-Hr	63.61	56.68	25	NA	256[(1)]	1,300
	24-Hr	15.79	12.38	5	13	45.5[(1)]	365
	Annual	1.53	NA	1	NA	10	80
NO_2[(2)]	Annual	0.99	NA	1	14	12.5	100
PM_{10}	24-Hr	3.46	2.93	5	10	15	150
	Annual	0.73	NA	1	NA	8.5	50
CO	1-Hr	66.74	48.59	2,000	NA	10,000[(1)(3)]	40,000
	8-Hr	28.11	23.67	500	575	2,500[(1)(3)]	10,000

Notes:

(1) The Class II PSD Increment value can not be exceeded more than once per year.
(2) The maximum NO_x emission rates have been used in this Class II analysis rather than the NO_2 fraction. This is conservative and results in predicted NO_2 concentrations that are higher than would result if the NO_2 emission rates were used.
(3) There are no Class II PSD Increments assigned for CO. The values presented are ¼ of the NAAQS as instructed in Ohio EPA Guidelines.

The Class II modeling results summarized in Table 1-1 indicate that interactive NAAQS modeling is required for SO_2. The other pollutants evaluated in this analysis have off-site impacts less than the PSD significant level and interactive modeling is not required.

The interactive NAAQS analysis for SO_2, presented in Section 4 of this report, identifies several predicted NAAQS exceedances for the 3-hour, 24-hour and annual averaging periods. However, the contribution of the AMPGS to each of these predicted exceedances is less than the PSD significance levels (i.e., the impact of the AMPGS is less than 25 $\mu g/m^3$ for the 3-hr averaging period, 5 $\mu g/m^3$ for the 24-hour averaging period and 1 $\mu g/m^3$ for the annual averaging period).

An analysis of different load scenarios for the two main coal-fired boilers was performed to verify that the "worst case" operating scenarios had been evaluated for Class II air quality impacts. The alternative load analysis, presented in Section 9 of this report, demonstrated that the "worst case" impact is predicted when both boilers are operating at 100% load. As a result, this is the load scenario used throughout this Class II analysis.

In addition to the air quality modeling required by the PSD rules and guidelines, the air quality impact analysis for the AMPGS includes an evaluation pursuant to Ohio EPA's Air Toxic Policy (ATP) that is presented in Section 8 of this report. This modeling demonstrates that the AMPGS will not have any adverse impact on local air quality.

The results from the Class II modeling were considered in the Additional Impacts Analysis that is also included in this Volume of the PTI application for the AMPGS. The Additional Impacts Analysis demonstrates that the AMPGS will not cause any adverse environmental impacts.

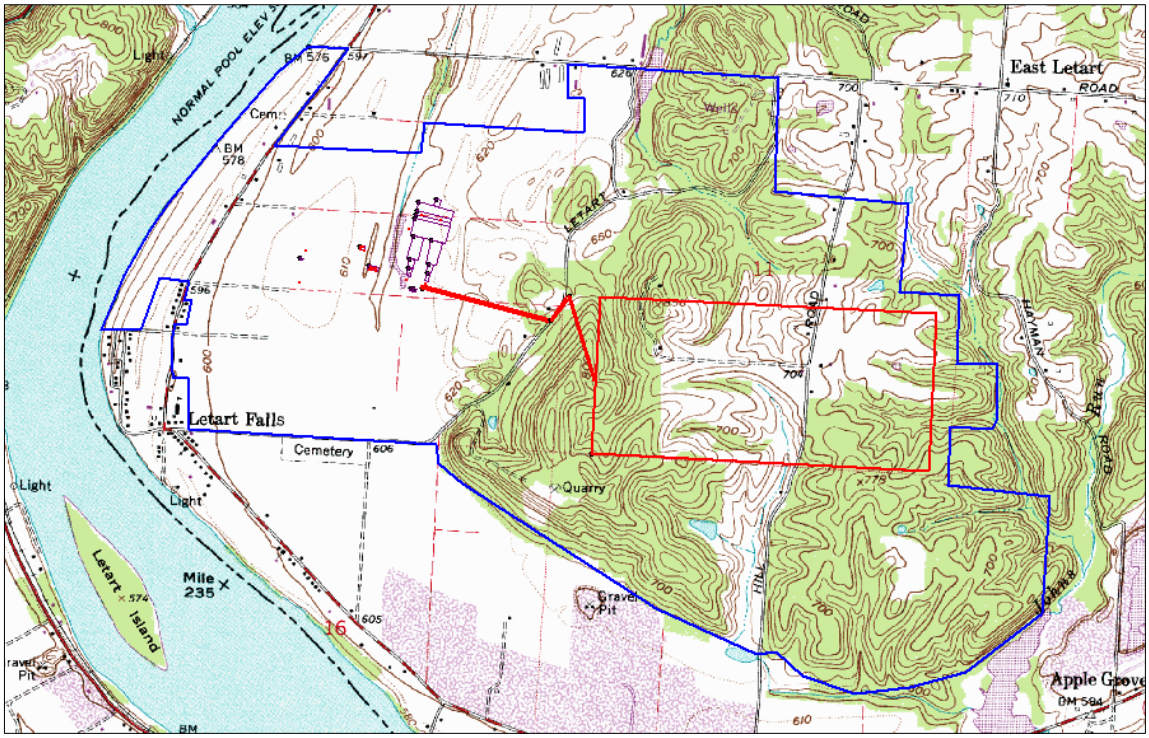
SECTION 2 MODELING METHODOLOGY

SITE OVERVIEW

AMPGS is located in Letart Township in Meigs County, Ohio. 40 CFR Part 51, Appendix W-Guideline on Air Quality Models, Section 8.2.3 defines "rural" as a population density of less than 750 people/square kilometer. The population of Letart Township is 646 people and the area of Letart Township is approximately 36 square kilometers. This is a population density of 18 people/km^2 and therefore is classified as rural. A review of the topographic map also supports a "rural" classification as the area is primarily forested. The nearby areas impacted by emissions from this facility are designated as Class II areas pursuant to the PSD rules, 40 CFR Part 51.

Figure 2-1 is a topographical map of the immediate vicinity of the AMPGS.

Figure 2-1
Topographical Map



AIR DISPERSION MODEL

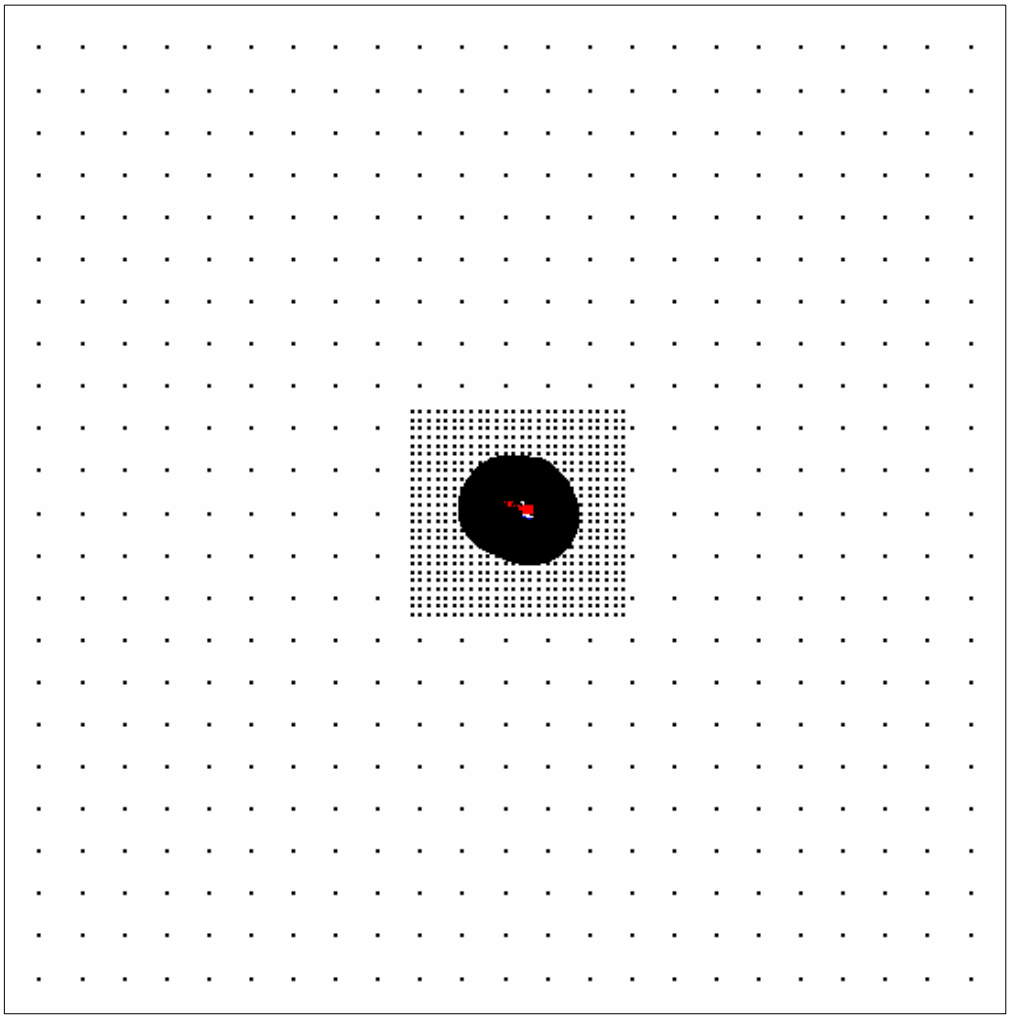
The analysis was completed using the US EPA approved AERMOD modeling programs including AERMET, AERMAP and AERMOD. The Building Profile Input Program Prime (BPIP Prime) preprocessor was used to determine the Good Engineering Practice (GEP) building dimensions for downwash calculations.

RECEPTOR GRID AND ELEVATIONS

A primary receptor grid for the Class II modeling was established along the AMPGS property line and extending to a distance of 5,000 meters from the site. Receptors on this grid are placed 100 meters apart. A second receptor grid extends an additional 10,000 meters with receptors placed 1,000 meters apart. A third receptor grid extends 50,000 meters with receptors placed 5,000 meters apart. In addition, receptors were placed along Route 124 which crosses through the property. A total of 14,464 receptors are included in this analysis.

Receptor elevations were obtained from digitized United States Geological Survey USGS 7.5 minute quadrangles. These digital elevation models (DEMs) were obtained from Micropath Corporation (Golden, CO). Figure 2-2 is a graphic representation of the receptor grid.

Figure 2-2
Receptor Grid



AERMET

National Weather Service (NWS) hourly surface observations and twice-daily upper air soundings were used to process AERMET. NWS data for years 1988-1992 were obtained from www.webmet.com (The Meteorological Resource Center). Upper air and surface data from station number 03860 (Huntington Tri-State Airport) were employed to process AERMET. This station is located at 38.365^{o} N latitude, 82.555^{o} W longitude. It has a base elevation of 837 ft and an anemometer height of 20 ft. The upper air data are NCDC TD-6201 FB format. The hourly surface data are in SCRAM format (Met144).

AERMET requires user-defined surface roughness (z_o), albedo (r) and Bowen ratio (B_o) coefficients. The surface characteristics for this model are calculated by averaging the land use in a 3-km radius from the meteorological site consistent with guidance in the AERMOD Implementation Guide (September 27, 2005) and at the recommendation of Ohio EPA.

The land use determination for the AERMOD Class II analysis was generated using CTGPROC.EXE in the CALPUFF modeling program using the huntington.cmp land use file. 16.40% of the land in the 3-km radius surrounding the Huntington Tri-State Airport meteorological station is urban (land use 10-19), 14.68% is cultivated (land use 20-29), 2.84 % is barren and 66.09% is forested (land use 40-49). The barren land was assumed to be forested land, the predominant land use type in the 3-km area, for the sake of this analysis. The Cabell County Soil Survey states that 10% of the forested lands in the county are pine types (p. 51). Therefore, 62.03% of the land is deciduous forest and 6.89% of the land is coniferous forest. Refer to Appendix B for calculations and the landuse.dat file generated by CTGPROC.

Table 2-1 lists the coefficients employed in the model. The coefficients vary by season.

Table 2-1
Surface Characteristics Employed in AERMET

Surface Characteristic	Spring	Summer	Autumn	Winter
surface roughness (z_o)	0.878	1.089	0.757	0.565
Albedo (r)	0.126	0.138	0.139	0.480
Bowen ratio (B_o)	0.690	0.608	1.106	1.500

The seasonal surface roughness values in Table 2-1 were calculated using Table 4-3 of the Addendum to the User's Guide for the AERMOD Meteorological Preprocessor (AERMET) (August 2002). The Albedo values were calculated using Table 4-1 of the User's Guide. The Bowen ratio was calculated using Table 4-2b of the User's Guide.

AERMAP

120 7.5' digital elevation models (DEMs) were obtained from Micropath Corporation (private vendor using USGS data) to run AERMAP. The DEM in the northwest corner of the modeling domain is South Bloomingville, OH (39082D5). Raven Rock, WV (39081D2) is the DEM in the northeast corner of the domain. Catlettsburg, KY (38082D5) is the DEM in the southwest corner. Bentree, WV (38082D5) is the DEM in the southeast corner of the modeling domain.

The modeling domain was developed consistent with Section 2.21 of the Revised Draft User's Guide for the AERMOD Terrain Preprocessor (AERMAP) Draft 8/14/02. It will include all terrain features that exceed 10% elevation slope from any given receptor.

SECTION 3 SOURCE PARAMETERS

Appendix A of this Class II analysis includes a table with dynamic and static stack parameters employed for each stack/vent emissions source as well as the dispersion parameters employed for the area and volume sources evaluated in the analysis. The maximum emissions rates utilized in the Class II modeling are also presented in Appendix A. The emission rates are also included in the application forms submitted in Volume I of the AMPGS PTI application.

GEP STACK HEIGHT

The GEP stack height is the optimum stack height for avoiding downwash effects when conducting Class I and Class II air quality modeling. It is also the maximum stack height that can be used when conducting Class I and Class II air quality modeling. The GEP stack heights for the AMPGS were calculated based on the requirements of OAC rule 3745-16-02 and guidance provided in the "Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations) (Revised)" (US EPA June 1985).

Figure 3-1 depicts the structures on the plant property that were entered into the Class II modeling for downwash calculation purposes. Table 3-2 summarizes the dimensions of each structure identified in Figure 3-1. Since all of the buildings shown in Figure 3-1 are connected, all the structures shown are considered to be "nearby" as defined in OAC rule 3745-16-01(G)(1). Since all of the buildings shown in Figure 3-1 are "nearby", the height of the tallest building (Building 7 at 270 ft) is used to calculate the GEP stack height together with the lesser of: (a) the overall width of the entire complex (502 ft); or (b) the height of the tallest building (Building 7 at 270 ft).

The GEP stack height is calculated in accordance with the equation found in OAC rule 3745-16-01(F)(2)(b) as follows:

$$\text{GEP Height} = H + 1.5 \times L$$

Hg = 270 feet (*Building 7 height*) + 1.5 x (270 feet) = 675 feet

Note: *The height of Building 7 (270 ft) is less than the entire structure width (502 feet)*

Figure 3-1
Stack and Building Profiles

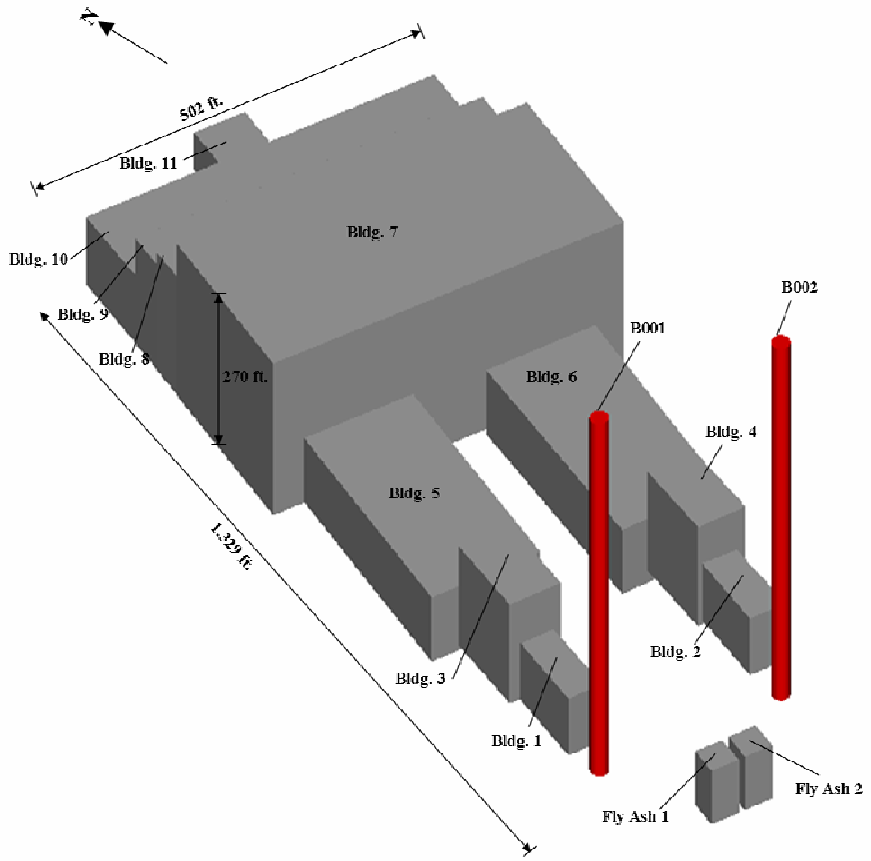


Table 3-2 BUILDING PARAMETERS			
Building	**Length (ft)**	**Width (ft)**	**Height (ft)**
1	75	50	101
2	75	50	101
3	70	70	160
4	70	70	160
5	200	160	114
6	200	160	114
7	502	160	270
8	502	120	210
9	502	64	187
10	502	120	120
11	104	71	65
Fly Ash 1	40	40	95
Fly Ash 2	40	40	95

The proposed AMPGS is classified as a major source of SO_2 emissions (estimated maximum emissions with both boilers operating at full load for 8,760 hours of 6,820 tpy). The air quality modeling analysis for SO_2 includes an assessment of the maximum predicted off-site air quality impact for an annual average, a 24-hour averaging period and a 3-hour averaging period. The air quality analysis for SO_2 includes:

1. A review of the PSD Significant Impact Increments;

2. A determination if the predicted off-site impacts exceed the PSD Monitoring De Minimis Concentration rates;

3. An assessment of Class II PSD Increment Consumption; and

4. An interactive NAAQS evaluation (the cumulative air quality impact of the proposed AMPGS with other existing SO_2 emissions sources).

MAXIMUM OFF-SITE IMPACT FROM THE AMPGS

As indicated in Table 4-1, the maximum predicted 3-hour average off-site concentration that results from the proposed maximum SO_2 emissions used in this analysis is 63.61 µg/m^3. This concentration was predicted from meteorological data for July 22, 1989 (refer to Appendix C). The location of this peak 3-hour average SO_2 concentration is north of the proposed site property (refer to Figure 4-1).

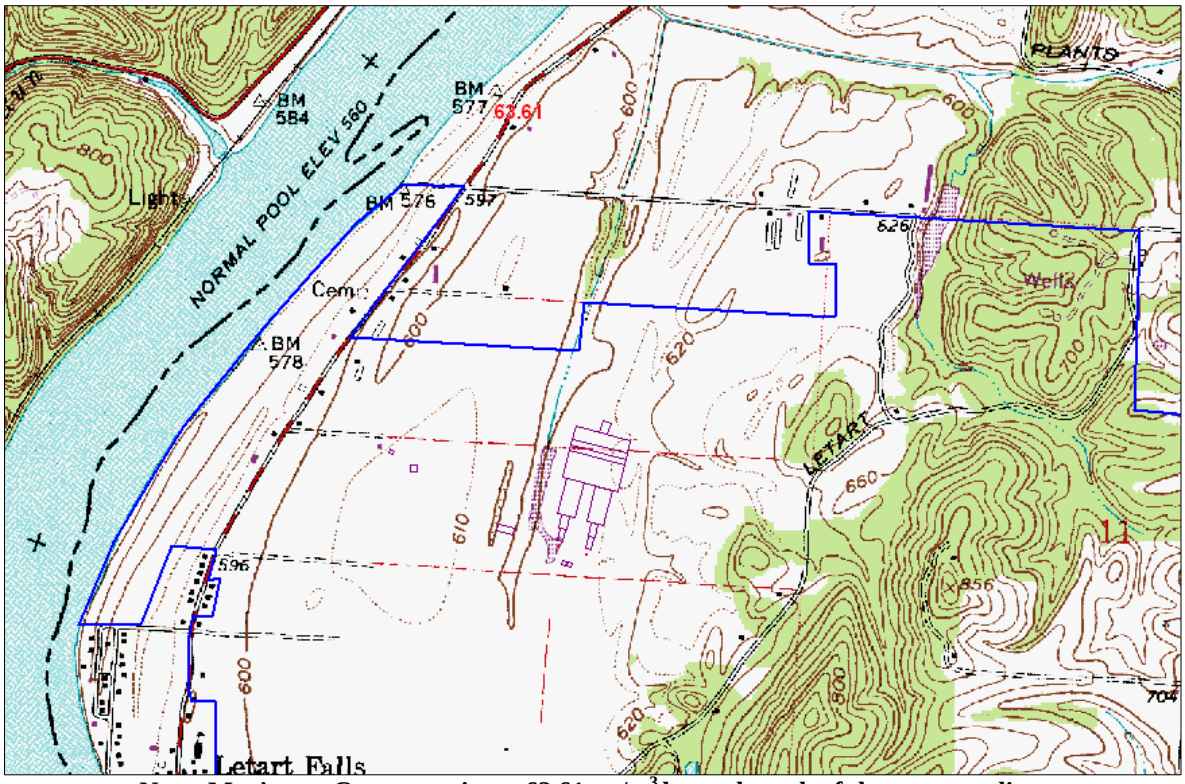
Table 4-1
AMPGS SO_2 Off-Site Impact
3-Hour Averaging Period

Year	Maximum Predicted Off-Site Impact (µg/m^3)	Second High Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	60.64	56.68	25	NA	256[(1)]
1989	63.61	55.85			
1990	62.01	56.05			
1991	62.92	52.79			
1992	58.12	56.60			

Note:

[(1)] The Class II PSD Increment can not be exceeded more than once per year.

Figure 4-1
Maximum Predicted SO_2 Concentration 3-Hour Average
1989 Meteorological Data



Note: Maximum Concentration = 63.61 µg/m^3 located north of the property line.

As indicated in Table 4-2, the maximum predicted 24-hour average off-site concentration that results from the proposed maximum SO_2 emissions used in this analysis is 15.79 µg/m^3. This concentration was predicted from meteorological data for July 30, 1992 (refer to Appendix C). The location of this peak 24-hour average SO_2 concentration is north of the proposed site (refer to Figure 4-2).

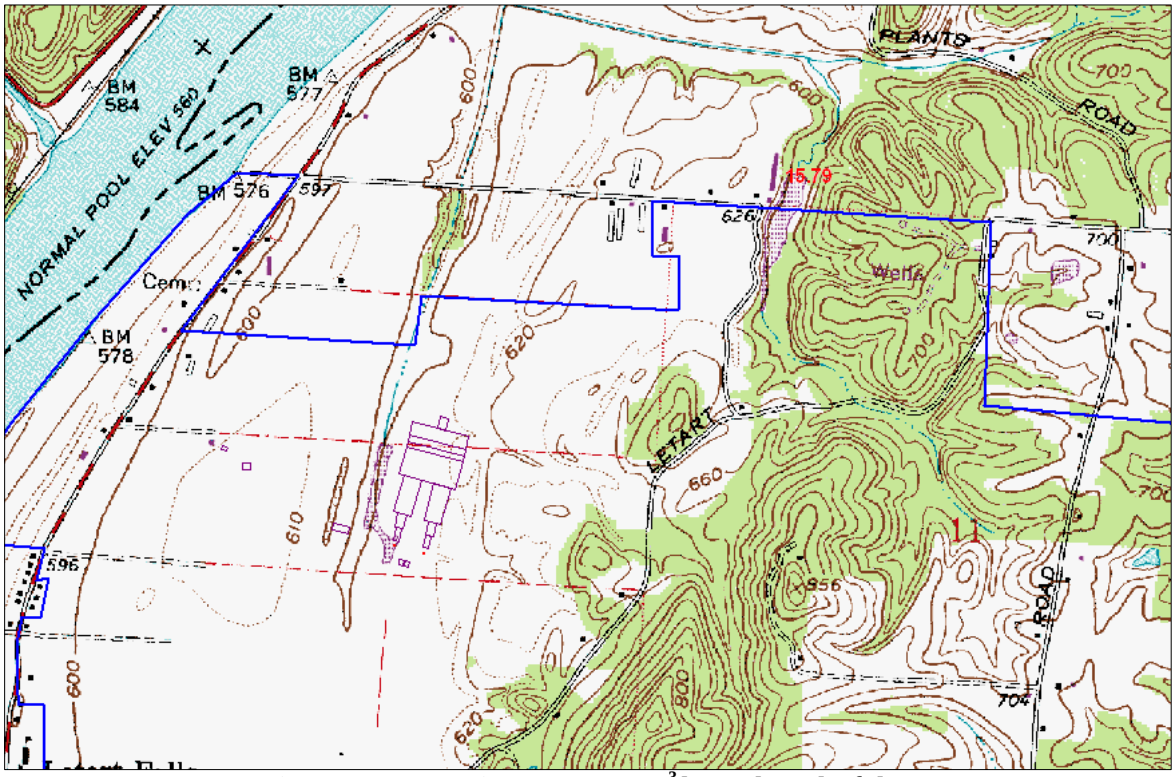
Table 4-2
AMPGS SO_2 Off-Site Impact
24-Hour Averaging Period

Year	Maximum Predicted Off-Site Impact (µg/m^3)	Second High Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	14.73	11.26	5	13	45.5[(1)]
1989	13.43	11.78			
1990	15.32	11.33			
1991	14.62	12.38			
1992	15.79	12.36			

Note:

[(1)] The Class II PSD Increment can not be exceeded more than once per year.

Figure 4-2
Maximum Predicted SO2 Concentration 24-Hour Average
1992 Meteorological Data



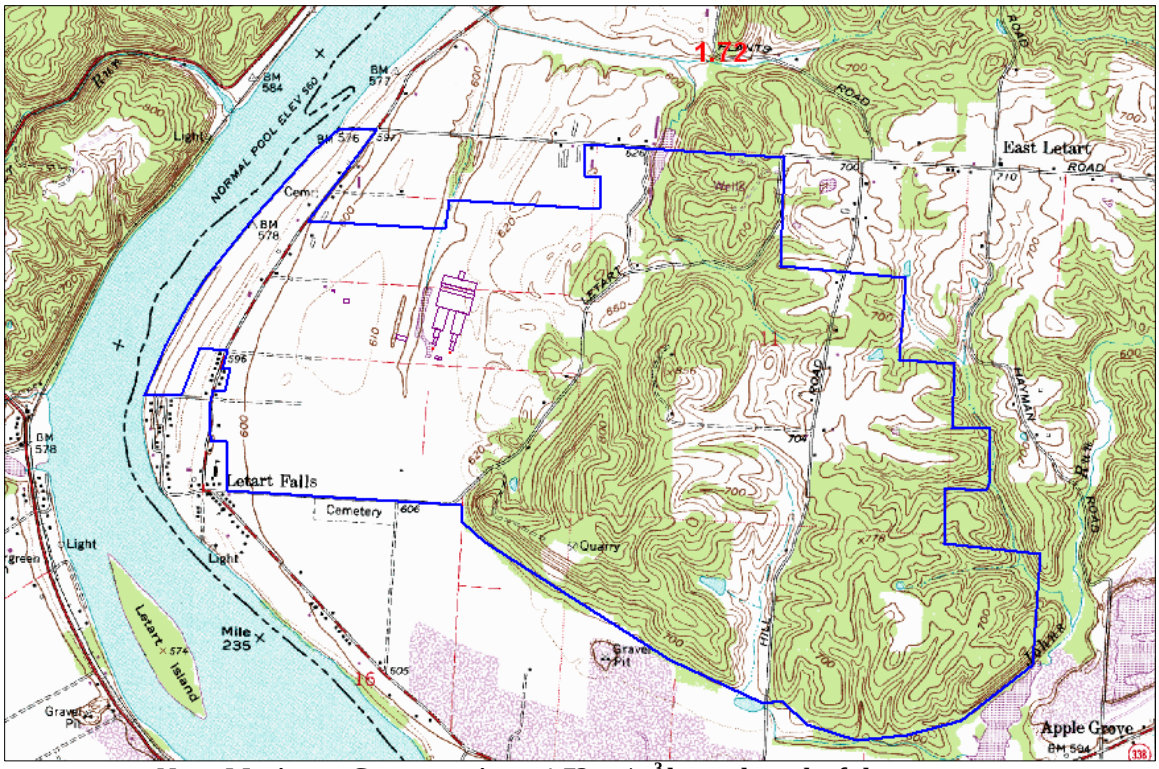
Note: Maximum Concentration = 15.79 µg/m^3 located north of the property.

As indicated in Table 4-3, the maximum predicted annual average off-site concentration that results from the proposed maximum SO_2 emissions used in this analysis is 1.72 µg/m^3. This concentration was predicted from meteorological data for 1990 (refer to Appendix C). The location of this peak annual average SO_2 concentration is north of the proposed site property line (refer to Figure 4-3).

Table 4-3
AMPGS SO_2 Off-Site Impact
Annual Averaging Period

Year	Maximum Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De Minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	1.53	1.0	NA	10
1989	1.39			
1990	1.72			
1991	1.49			
1992	1.53			

Figure 4-3
Maximum Predicted SO_2 Concentration Annual Average
1990 Meteorological Data



Note: Maximum Concentration = 1.72 µg/m^3 located north of the property.

PSD SIGNIFICANT IMPACT INCREMENT

The PSD Significant Impact Increments for SO_2 are 25.0 µg/m^3 for a 3-hour average concentration, 5.0 µg/m^3 for a 24-hour average concentration, and 1.0 µg/m^3 for an annual average. As indicated in Tables 4-1 through 4-3, the maximum emissions rates used in this analysis result in predicted maximum off-site air quality impact higher than the PSD Significant Impact Increments for these averaging periods. As a result, US EPA and Ohio EPA air quality modeling guidelines require that a NAAQS assessment be performed with interactive modeling (i.e., the emissions from the proposed facility must be modeled in combination with emissions from other major sources in the surrounding area).

PSD MONITORING DE MINIMIS CONCENTRATION

The PSD Monitoring De Minimis Concentration for SO_2 is 13 µg/m^3 for a 24-hour average concentration. There is no PSD Monitoring De Minimis concentration for either an annual average or a 3-hour average for SO_2. As indicated in Table 4-2 for the maximum off-site 24-hour average, the maximum emissions rates used in this analysis result in predicted 24-hour average concentrations that are slightly greater than the PSD Monitoring De Minimis Concentration. There are over 35 air quality monitors operated in the state of Ohio which measure ambient SO_2 air quality. One of these monitors is located in Pomeroy (12 miles from the proposed project site). The presence of this local

monitor and the fact that the predicted maximum contribution of the AMPGS is only slightly above the PSD Monitoring De Minimis Concentration supports a determination by Ohio EPA that preconstruction monitoring will not be required for this project.

PSD CLASS II INCREMENT CONSUMPTION

The Class II PSD increments for SO_2 are 20 µg/m^3 for an annual average concentration, 91 µg/m^3 for a 24-hour average concentration and 512 µg/m^3 for a 3-hour average concentration. Ohio EPA guidelines limit the available increment for any new source to ½ of the PSD increment. The 24-hour and 3-hour averaging period increments can not be exceeded more than once per year. As indicated in Tables 4-1, 4-2 and 4-3, the maximum emissions rates used in this analysis will not exceed ½ the Class II PSD increments for SO_2 at any off-site location. However, since the PSD Significant Impact Increment is exceeded, US EPA and Ohio EPA air quality modeling guidelines require that a more detailed air quality assessment be performed with interactive modeling (i.e., the emissions from the proposed facility must be modeled in combination with emissions from other sources in the surrounding area).

INTERACTIVE MODELING

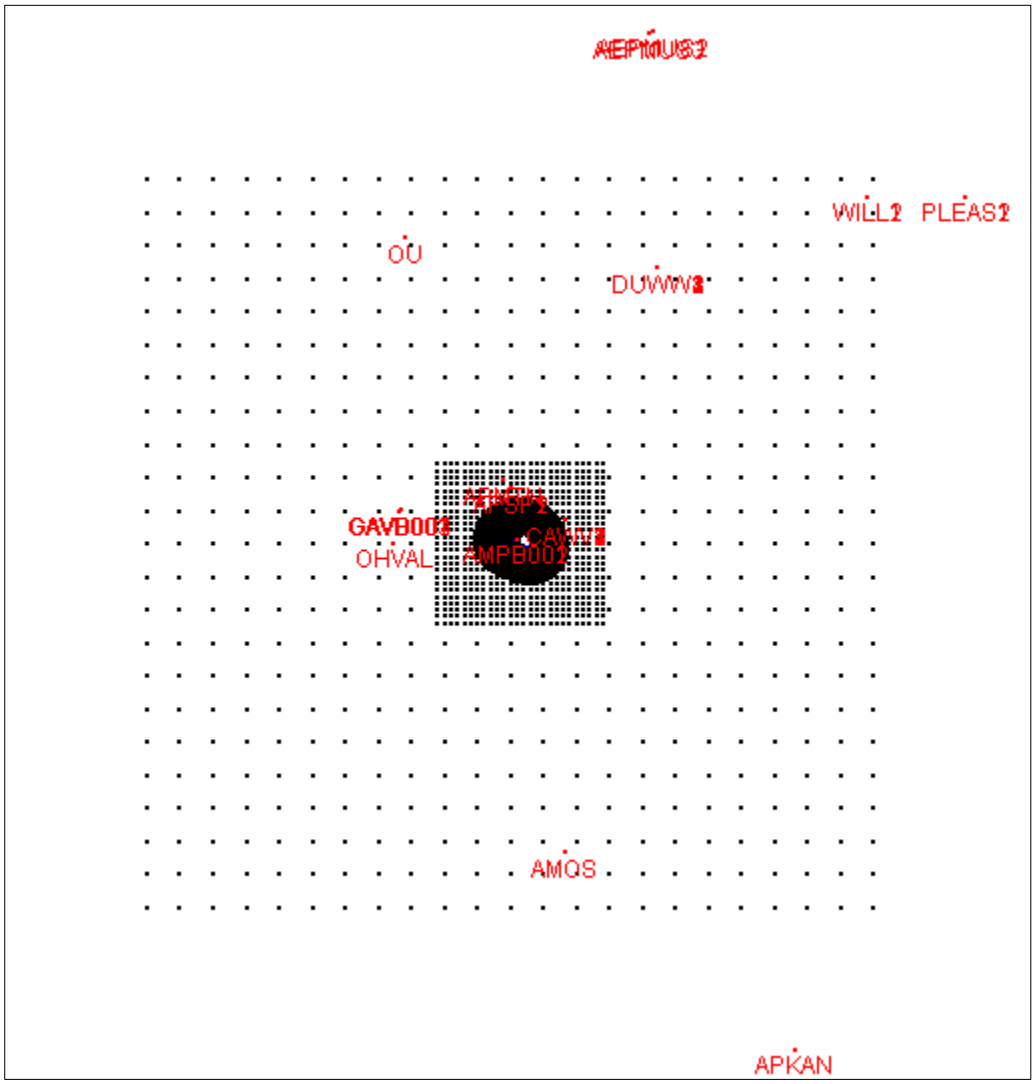
An interactive NAAQS analysis is required for SO_2 since the emissions from the proposed AMPGS are predicted to cause off-site impact greater than the PSD significant impact increment for SO_2.

Ohio EPA policy requires that the interactive SO_2 NAAQS analysis include the emissions units at the AMPGS project and all other sources that pass the "20D analysis" within the counties bordering the county where the source is located (i.e., Meigs, Athens, Gallia and Vinton Counties). The "20D analysis" is defined as any source with emission greater than 20 times the distance from the proposed AMP-Ohio project. In addition, Ohio EPA requested that the Muskingum River Power Plant in Washington County be included. Refer to Appendix A for a summary table of the Ohio sources included in the SO_2 interactive NAAQS analysis.

West Virginia DEQ policy requires that the interactive SO_2 NAAQS analysis include the emissions units at the AMPGS project and other "large" sources within a 100 km radius of the proposed project. West Virginia DEQ provided an inventory of 530 sources located within a 100 km radius of the AMPGS. That source inventory provided actual SO_2 emissions, but not allowable emissions. Allowable SO_2 emission rates were obtained from Title V permits available on West Virginia DEQ's website for each source with actual emissions greater than 10 tons/yr. Sources with actual emissions less than 10 tons/yr were excluded from the interactive NAAQS analysis. The West Virginia source inventory was further reduced by excluding sources that were deemed to be too far away and/or have allowable emissions that were too low to have a significant impact on the interactive SO_2 NAAQS analysis. Refer to Appendix A for a table of the West Virginia sources included in the SO_2 interactive NAAQS analysis.

Prior to the completion of the interactive modeling, Ohio EPA and West Virginia DEQ were provided the proposed source inventories for review and comment. Figure 4-4 shows the receptor grid with the locations of the interactive sources included in the model.

Figure 4-4
Receptor Grid with Interactive SO_2 Sources



MAXIMUM CONCENTRATIONS FROM INTERACTIVE SO_2 MODELING

As indicated in Table 4-4, the maximum predicted 3-hour average off-site concentration that results from the SO_2 emission sources modeled in this interactive analysis is 4,860.96 µg/m^3. This concentration was predicted from meteorological data for August 28, 1991 (refer to Appendix C). The location of this peak 3-hour average SO_2 concentration is northeast of the proposed AMPGS site. The results of this modeling analysis show multiple exceedances of the SO_2 NAAQS for the 3-hour averaging period. However, the AMPGS does not have a significant contribution to any of the NAAQS exceedances (i.e., the predicted impact from the AMPGS does not exceed the PSD Significant Impact Increment at the receptors during the time the NAAQS exceedances occurred). A list of the 3-hr NAAQS exceedances is located in Appendix C.

Table 4-4 Interactive SO_2 Off-Site Impact 3-Hour Averaging Period			
Year	**Maximum Predicted Off-Site Impact ($\mu g/m^3$)**	**Second High Predicted Off-Site Impact ($\mu g/m^3$)**	**NAAQS[(1)] ($\mu g/m^3$)**
1988	3,848	1,610	1,300
1989	4,021	3,961	
1990	4,148	3,881	
1991	4,861	4,540	
1992	4,197	3,381	

Note:
(1) The 3-Hour NAAQS concentration cannot be exceeded more than once per year.

As indicated in Table 4-5, the maximum predicted 24-hour average off-site concentration that results from the SO_2 emission sources modeled in this interactive analysis is 1,243 $\mu g/m^3$. This concentration was predicted from meteorological data for August 28, 1991 (refer to Appendix C). The location of this peak 24-hour average SO_2 concentration is northeast of the proposed AMPGS site. The results of this modeling analysis show multiple exceedances of the SO_2 NAAQS for the 24-hour averaging period. However, the AMPGS does not have a significant contribution to any of the NAAQS exceedances (i.e., AMPGS does not exceed the PSD Significant Impact Increment at the receptors during the time the NAAQS exceedances occurred). A list of the 24-hr NAAQS exceedances is located in Appendix C.

Table 4-5 Interactive SO_2 Off-Site Impact 24-Hour Averaging Period			
Year	**Maximum Predicted Off-Site Impact ($\mu g/m^3$)**	**Second High Predicted Off-Site Impact ($\mu g/m^3$)**	**NAAQS[(1)] ($\mu g/m^3$)**
1988	741	449	365
1989	1,039	789	
1990	823	593	
1991	1,243	782	
1992	656	632	

Note:
(1) The 24-Hour NAAQS concentration cannot be exceeded more than once per year.

As indicated in Table 4-6, the maximum predicted annual average off-site concentration that results from the SO_2 emission sources modeled in this interactive analysis is 151 $\mu g/m^3$ (refer to Appendix C). The location of this peak annual average SO_2 concentration is northeast of the proposed AMPGS site. The results of this modeling analysis show multiple exceedances of the SO_2 NAAQS for the

annual averaging period. However, the AMPGS does not have a significant contribution to any of the NAAQS exceedances (i.e., AMPGS does not exceed the PSD Significant Impact Increment at the receptors during the time the NAAQS exceedances occurred).

Table 4-6
Interactive SO_2 Off-Site Impact
Annual Averaging Period

Year	Maximum Predicted Off-Site Impact ($\mu g/m^3$)	NAAQS[)] ($\mu g/m^3$)
1988	116	80
1989	127	
1990	125	
1991	151	
1992	124	

SECTION 5 NITROGEN DIOXIDE

The proposed AMPGS is classified as a major source of NO_x emissions (estimated maximum emissions with both boilers operating at full load for 8,760 hours of 3,184 tpy). Note: This analysis assumes that 100% of the NO_x emissions are nitrogen dioxide (NO_2). This is a conservative assumption that over-predicts the actual off-site air quality impact from the proposed facility. The actual NO_2 fraction is likely to be no more than 75% of the total NO_x. The air quality modeling analysis for NO_2/NO_x includes an assessment of the maximum predicted off-site air quality impact for an annual average period. The air quality analysis for NO_2/NO_x includes:

1. A review of the PSD Significant Impact Increments;

2. A determination if the predicted off-site impacts exceed the PSD Monitoring De Minimis Concentration rates; and

3. An assessment of Class II PSD Increment Consumption.

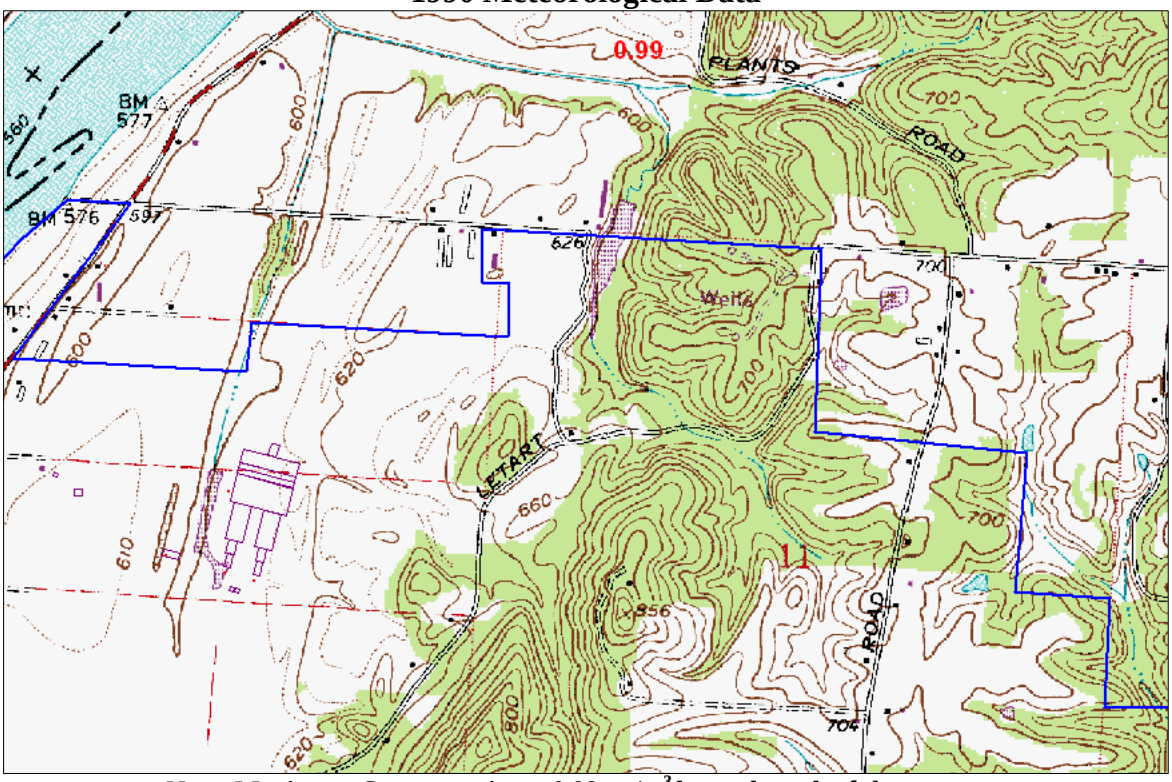
MAXIMUM OFF-SITE IMPACT FROM THE AMPGS

As indicated in Table 5-1, the maximum predicted annual average off-site concentration that results from the proposed maximum NO_x emissions used in this analysis is 0.99 µg/m^3. This concentration was predicted from meteorological data for 1990 (refer to Appendix D). The location of this peak annual average NO_x concentration is north of property (refer to Figure 5-1).

Table 5-1
AMPGS NO_x Off-Site Impact
Annual Averaging Period

Year	Maximum Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De Minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	0.90	1.0	14.0	12.5
1989	0.80			
1990	0.99			
1991	0.85			
1992	0.87			

Figure 5-1
Maximum Predicted NO_x Concentration Annual Average
1990 Meteorological Data



Note: Maximum Concentration = 0.99 µg/m^3 located north of the property

PSD SIGNIFICANT IMPACT INCREMENT

The PSD Significant Impact Increment for NO_2 is 1.0 µg/m^3 for an annual average concentration. As indicated in Table 5-1, the maximum emissions rates used in this analysis will not cause an exceedance of the PSD Significant Impact Increments for NO_2. Therefore, a NAAQS assessment with interactive modeling (i.e., modeling the emissions from the proposed facility in combination with emissions from other major sources in the surrounding area) is not required.

PSD MONITORING DE MINIMIS CONCENTRATION

The PSD Monitoring De Minimis Concentration for NO_2 is 14.0 µg/m^3 for an annual average concentration. As indicated in Table 5-1, the maximum emissions rates used in this analysis will not cause an exceedance of the PSD Monitoring De Minimis Concentration for NO_2 at any off-site location. As a result, pre-construction air quality monitoring is not required to establish the existing baseline NO_2 concentration.

PSD CLASS II INCREMENT CONSUMPTION

The Class II PSD increment for NO_2 is 25.0 µg/m^3 for an annual average concentration. Ohio EPA allows a source to use ½ of the PSD increment. As indicated in Table 5-1, the maximum emissions rates used in this analysis will not cause an exceedance of the allowable Class II PSD increment for NO_2 at any off-site location.

SECTION 6 PARTICULATE MATTER

The proposed AMPGS is classified as a major source of PM_{10} emissions (estimated maximum emissions with both boilers operating at full load for 8,760 hours of 1,132 tpy). The air quality modeling analysis for PM_{10} includes an assessment of the maximum predicted off-site air quality impact for an annual averaging period and a 24-hour averaging period. The air quality analysis for PM_{10} includes:

1. A review of the PSD Significant Impact Increments;

2. A determination if the predicted off-site impacts exceed the PSD Monitoring De Minimis Concentration rates; and

3. An assessment of Class II PSD Increment Consumption.

MAXIMUM OFF-SITE IMPACT FROM AMPGS

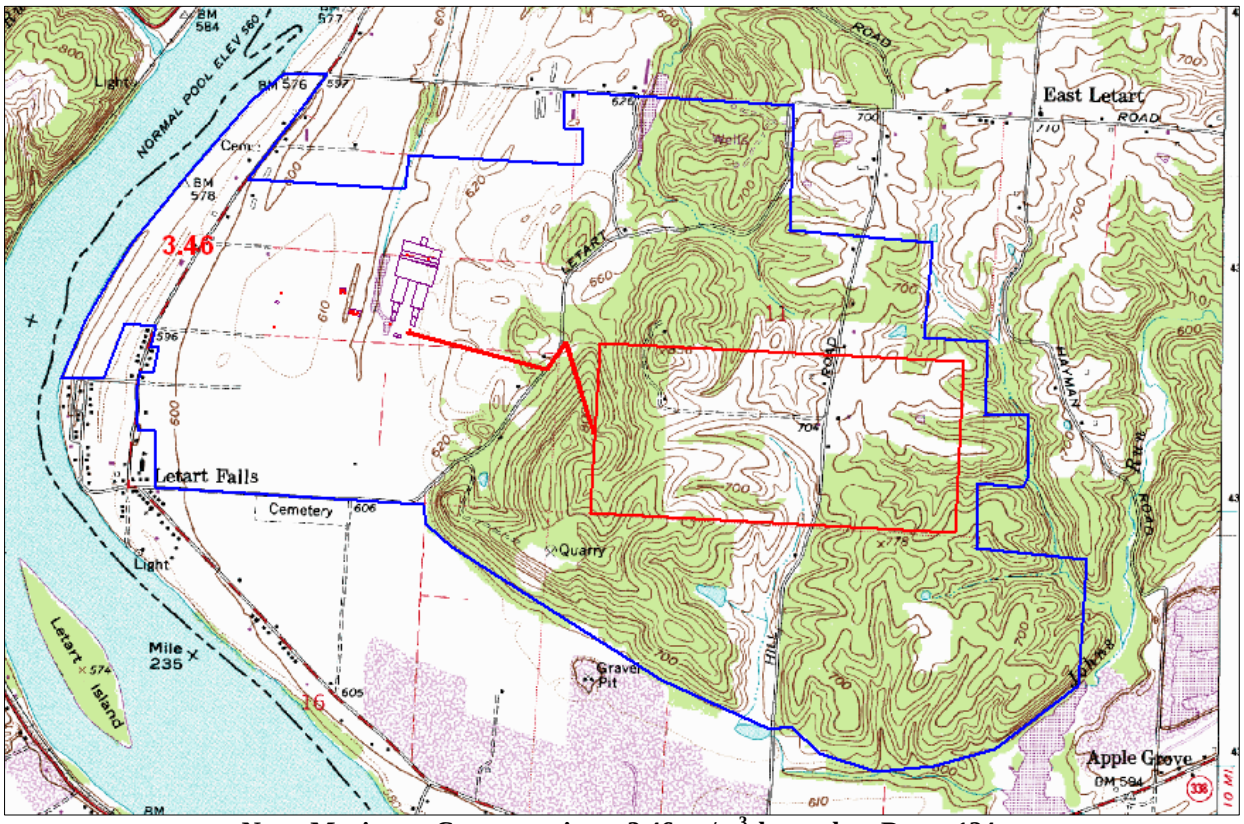
As indicated in Table 6-1, the maximum predicted 24-hour average off-site concentration that results from the proposed maximum PM_{10} emissions used in this analysis is 3.46 µg/m^3. This concentration was predicted from meteorological data for May 10, 1991 (refer to Appendix E). The location of this peak 24-hour average PM_{10} concentration is on Route 124 (refer to Figure 6-1).

Table 6-1
AMPGS PM_{10} Off-Site Impact
24-Hour Averaging Period

Meteorological Data	Maximum Predicted Off-Site Impact (µg/m^3)	Second High Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	2.77	2.38	5	10	15[(1)]
1989	3.04	2.62			
1990	3.27	2.93			
1991	3.46	2.43			
1992	2.57	2.27			

Note:
(1) The Class II PSD Increment can not be exceeded more than once per year.

Figure 6-1
Maximum Predicted PM_{10} Concentration 24-Hour Average
1991 Meteorological Data



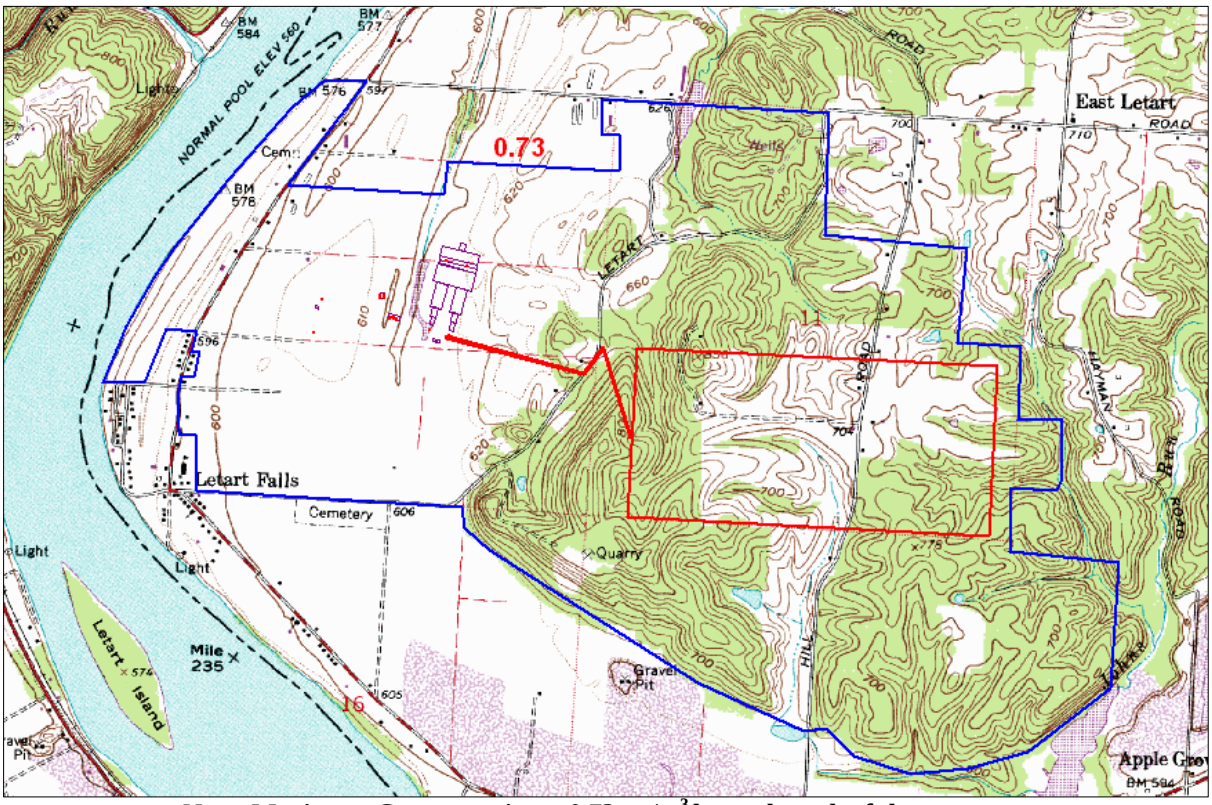
Note: Maximum Concentration = 3.46 µg/m^3 located on Route 124.

As indicated in Table 6-2, the maximum predicted annual average off-site concentration that results from the proposed maximum PM_{10} emissions used in this analysis is 0.73 µg/m^3. This concentration was predicted from meteorological data for 1990 (refer to Appendix E). The location of this peak annual average PM_{10} concentration is north of the proposed project site (refer to Figure 6-2).

Table 6-2
AMPGS PM_{10} Off-Site Impact
Annual Averaging Period

Meteorological Data	Maximum Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De Minimis Concentration (µg/m^3)	½ Class II PSD Increment (µg/m^3)
1988	0.60	1.0	NA	8.5
1989	0.64			
1990	0.73			
1991	0.66			
1992	0.58			

Figure 6-2
Maximum Predicted PM_{10} Concentration Annual Average
1990 Meteorological Data



Note: Maximum Concentration = 0.73 µg/m^3 located north of the property.

PSD SIGNIFICANT IMPACT INCREMENT

The PSD Significant Impact Increments for PM_{10} are 1.0 µg/m^3 for an annual average concentration and 5.0 µg/m^3 for a 24-hour average concentration. As indicated in Tables 6-1 and 6-2 the maximum emissions from AMPGS will not cause an exceedance of the PSD Significant Impact Increment. As a result, US EPA and Ohio EPA air quality modeling guidelines do not require that a NAAQS assessment be performed with interactive modeling (i.e., modeling the emissions from the proposed facility in combination with emissions from other major sources in the surrounding area).

PSD MONITORING DE MINIMIS CONCENTRATION

The PSD Monitoring De Minimis Concentration for PM_{10} is 10.0 µg/m^3 for a 24-hour average concentration. As indicated in Table 6-1, the maximum emissions rates used in this analysis will not cause an exceedance of the PSD Monitoring De Minimis Concentration for PM_{10} at any off-site location. As a result, pre-construction air quality monitoring is not required to establish the existing baseline PM_{10} concentration.

CLASS II PSD INCREMENT

The Class II PSD increments for PM_{10} are 17.0 µg/m^3 for an annual average concentration and 30.0 µg/m^3 for a 24-hour average concentration. Ohio EPA guidelines limit the available increment for any new source to ½ of the PSD increment. As indicated in Tables 6-1 and 6-2 the maximum emissions rates used in this analysis will not cause an exceedance of the Class II PSD increments for PM_{10} at any off-site location.

The proposed AMPGS is classified as a major source of CO emissions (estimated maximum emissions with both boilers operating at full load for 8,760 hours of 7,502 tpy). The air quality modeling analysis for CO includes an assessment of the maximum predicted off-site air quality impact for an 8-hour averaging period and a 1-hour averaging period. The air quality analysis for CO includes:

1. A review of the PSD Significant Impact Increments;

2. A determination if the predicted off-site impacts exceed the PSD Monitoring De Minimis Concentration rates; and

3. An assessment of Class II PSD Increment Consumption.

MAXIMUM OFF-SITE IMPACT FROM AMPGS

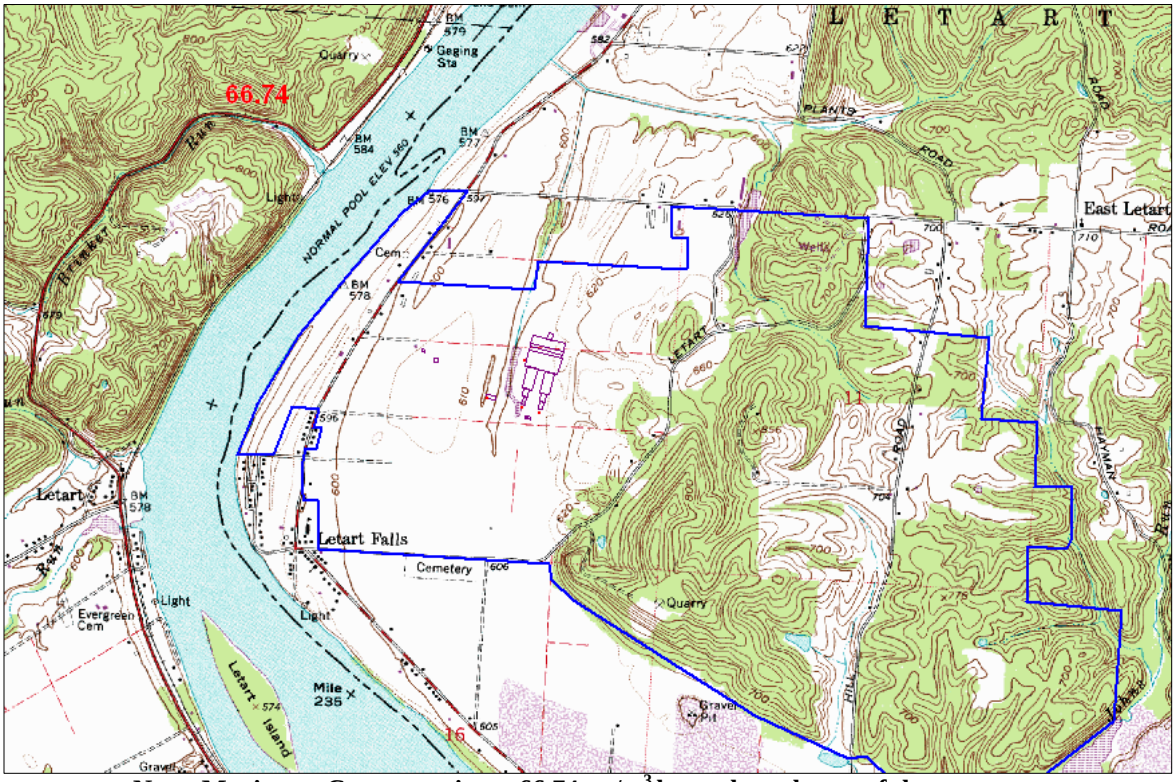
As indicated in Table 7-1, the maximum predicted 1-hour average off-site concentration is 66.74 µg/m^3. This concentration was predicted from meteorological data for October 27, 1992 (refer to Appendix F). The location of this peak 1-hour average CO concentration is located northwest of the property (refer to Figure 7-1).

Table 7-1
AMPGS CO Off-Site Impact
1-Hour Averaging Period

Meteorological Data	Maximum Predicted Off-Site Impact (µg/m^3)	Second High Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De minimis Concentration (µg/m^3)	¼ NAAQS (µg/m^3)
1988	50.10	46.99	2,000	NA	10,000[(1)]
1989	57.04	46.90			
1990	54.64	47.30			
1991	57.27	48.59			
1992	66.74	45.44			

Note:
(1) The Class II PSD Increment can not be exceeded more than once per year.

Figure 7-1
Maximum Predicted CO Concentration 1-Hour Average
1992 Meteorological Data



Note: Maximum Concentration = 66.74 µg/m^3 located northwest of the property.

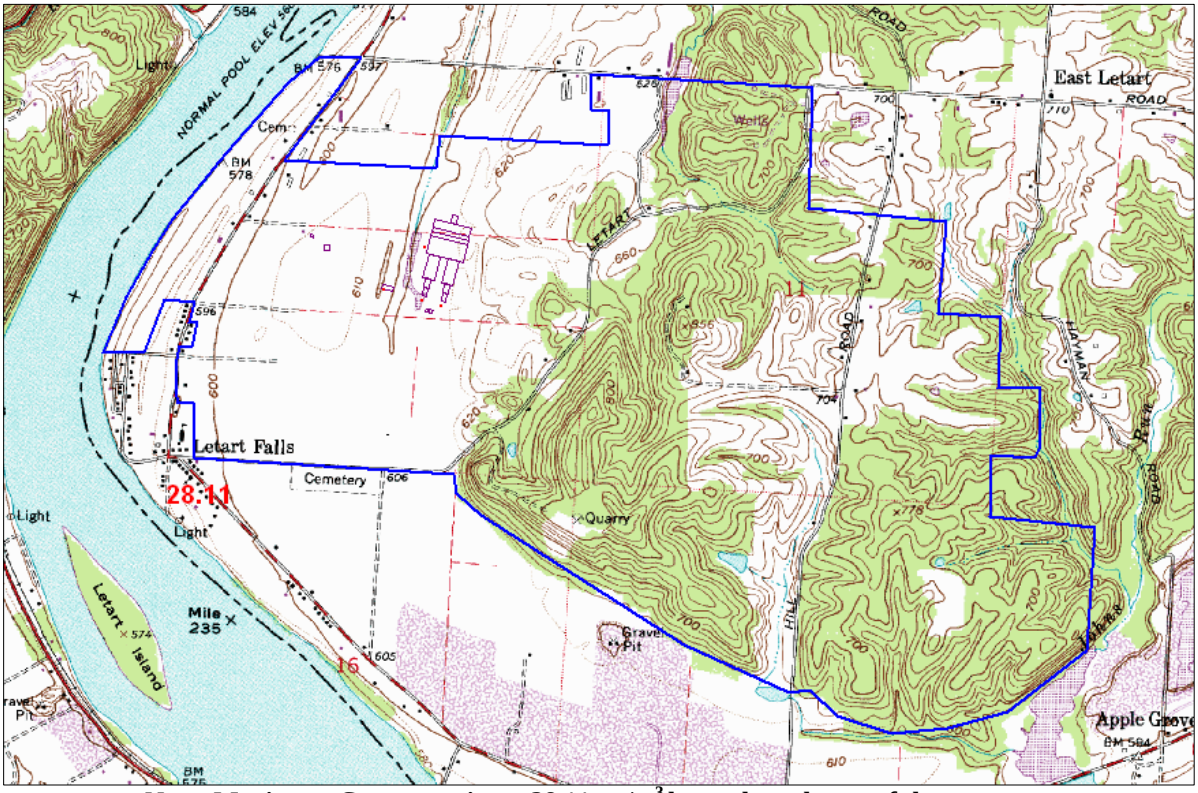
As indicated in Table 7-2, the maximum predicted 8-hour average off-site concentration is 28.11 µg/m^3. This concentration was predicted from meteorological data for June 24, 1988 (refer to Appendix F). The location of this peak 8-hour average CO concentration is located southwest of the proposed project site (refer to Figure 7-2).

Table 7-2
AMPGS CO Off-Site Impact
8-Hour Averaging Period

Meteorological Data	Maximum Predicted Off-Site Impact (µg/m^3)	Second High Predicted Off-Site Impact (µg/m^3)	PSD Significant Impact Increment (µg/m^3)	PSD Monitoring De minimis Concentration (µg/m^3)	¼ NAAQS (µg/m^3)
1988	28.11	22.03	500	575	2,500[(1)]
1989	27.97	23.16			
1990	26.72	23.02			
1991	26.15	23.67			
1992	27.33	23.42			

Note:
[(1)] The Class II PSD Increment can not be exceeded more than once per year.

Figure 7-2
Maximum Predicted CO Concentration 8-Hour Average
1988 Meteorological Data



Note: Maximum Concentration = 28.11 µg/m^3 located southwest of the property.

PSD SIGNIFICANT IMPACT INCREMENT

The PSD Significant Impact Increments for CO are 2,000 µg/m^3 for a 1-hour average concentration and 500 µg/m^3 for an 8-hour average concentration. As indicated in Tables 7-1 and 7-2 the maximum emissions rates used in this analysis will not cause an exceedance of the PSD Significant Impact Increments for CO at any off-site location. As a result, US EPA and Ohio EPA air quality modeling guidelines do not require that a NAAQS assessment be performed with interactive modeling (i.e., modeling the emissions from the proposed facility in combination with emissions from other major sources in the surrounding area).

PSD MONITORING DE MINIMIS CONCENTRATION

The PSD Monitoring De Minimis Concentration for CO is 575 µg/m^3 for an 8-hour average concentration. There is no PSD Monitoring De Minimis concentration for a 1-hour average for CO. As indicated in Table 7-2 for the maximum off-site 8-hour average, the maximum emissions rates used in this analysis will not cause an exceedance of the PSD Monitoring De Minimis Concentration for CO at any off-site location. As a result, pre-construction air quality monitoring is not required to establish the existing baseline CO concentration.

PSD CLASS II INCREMENT

There are no Class II PSD Increments for CO. In instances where there is no PSD increment, Ohio EPA Engineering Guide #69 requires a demonstration that the maximum off-site concentration will not exceed ¼ of the NAAQS. These concentrations can not be exceeded more than once per year. As indicated in Table 7-1 for the maximum off-site 1-hour average, and Table 7-2 for the maximum off-site 8-hour average, the maximum emissions rates used in this analysis will not cause an off-site CO concentration that exceeds ¼ of the NAAQS.

The proposed AMPGS will have total annual emissions greater than 1 ton per year for several air contaminants for which the American Conference of Intergovernmental Industrial Hygienists (ACGIH) has adopted Threshold Limit Values (TLVs). As a result, an air quality impact analysis must be performed pursuant to the Ohio EPA Air Toxic Policy (ATP).

OHIO EPA AIR TOXIC POLICY

The ATP uses the TLVs adopted by the ACGIH as the basis for developing a Maximum Acceptable Ground Level Concentration (MAGLC). Ohio EPA's ATP calculates the MAGLC by adjusting the 8-hour TLV adopted by the ACGIH to identify a 1-hour average concentration in the ambient air that Ohio EPA believes will not cause an adverse health effect to even the most sensitive individual.

The adjustments to define the MAGLC for continuous emissions of an air toxic include: (a) dividing the TLV for the air toxic by ten (the factor that Ohio EPA elected to use to adjust the TLV for workplace exposures to ambient air exposures for the general public); and (b) multiplying the adjusted TLV by the ratio of the 40 hour work week to the 168 hour calendar week (*i.e.*, 40/168). The combination of these two adjustments is to divide the TLV by a factor of 42 to derive the MAGLC. [Note: Ohio EPA states in the explanation of Option A of the ATP that the evaluation of the MAGLC as a maximum 1-hour average concentration results in an additional safety factor of 32% because the MAGLC is derived from an 8-hour average TLV.]

ANALYSIS FOR THE AMPGS

AERMOD modeling was performed using an assumed 1.0 gram per second (g/sec) emission rate for each of the main boilers (B001 and B002) to predict the maximum of-site 1-hour average air quality impact. This assumed emission rate resulted in a maximum 1-hour concentration (during the five-year period 1988 - 1992) of 0.65 micrograms per cubic meter ($\mu g/m^3$). Since the predicted ground level concentration is directly proportional to the emission rate, the actual g/sec emission rate for each air toxic can be multiplied by 0.65 to calculate the maximum predicted 1-hour average concentration. The predicted maximum 1-hour average concentration is then compared to the MAGLC.

Table 8-1 summarizes the ATP evaluation for the proposed AMPGS. As presented in Table 8-1, the predicted maximum 1-hour average concentration for each air toxic potentially emitted by the AMPGS is substantially less than the MAGLC. The conclusion of this analysis is that the maximum estimated air toxic emissions from the AMPGS will not have any adverse impact on local air quality.

Table 8-1
Maximum Acceptable Ground Level Concentration (MAGLC)
Assessment Pursuant to the Ohio EPA Air Toxics Policy

The maximum predicted off-site impact with each boiler (B001 and B002) at @ 1.0 g/sec = 0.650 ug/m^3

Air Toxic	CAS Number	Molecular Weight	ACGIH TLV		MAGLC TLV/42	Proposed Emission Rate Per Boiler		Maximum Predicted Impact (ug/m^3)	Is the MAGLC Exceeded? (Y/N)
			(ppm)	(ug/m^3)	(ug/m^3)	(lb/hr)	(g/sec)		
Acetaldehyde[1]	75-07-0	44.05	18.425	33,127	788.7	0.18	0.023	0.015	N
Ammonia (NH_3)	7664-41-7	17.03	25	17,378	413.8	5.10	0.643	0.418	N
Benzene	71-43-2	78.11	0.5	1,594	38.0	0.41	0.052	0.034	N
Benzyl Chloride	100-44-7	126.58	1	5,167	123.0	0.22	0.028	0.018	N
Hydrogen Chloride (HCl)[1]	7647-01-0	36.47	1.474	2,194	52.2	41.20	5.191	3.374	N
Hydrogen Cyanide	74-90-8	27.03	3.4639	3,822	91.0	0.79	0.100	0.065	N
Hydrogen Fluoride (HF)[1]	7664-39-3	20.01	2.211	1,806	43.0	5.30	0.668	0.434	N
Isophorone[1]	67-63-0	138.21	3.685	20,788	495.0	0.18	0.023	0.015	N
Methyl Ethyl Ketone	78-93-3	72.1	200	588,571	14,013.6	0.12	0.015	0.010	N
Methyl Chloride	74-87-3	50.49	50	103,041	2,453.4	0.17	0.021	0.014	N
Mercury (Hg)[2]	7439-97-6	200.59	0.025	205	4.9	0.02	0.003	0.002	N
Nitrous Oxide (N_2O)	10024-97-2	44.02	50	89,837	2,139.0	26.00	3.276	2.129	N
Propionaldehyde	123-38-6	58.1	20	47,429	1,129.3	0.12	0.015	0.010	N
Sulfuric Acid (H_2SO_4)	7664-93-9	98.08	0.05	200	4.8	38.90	4.901	3.186	N

Notes:

[1] The published threshold is a ceiling value. The ACGIH ceiling value is multiplied by 0.737 to calculate the equivalent 8-hour TLV.

[2] The maximum annual emissions of mercury will be significantly less than 1.0 tpy. Nonetheless, the AMPGS has included Hg in this analysis.

SECTION 9 ALTERNATIVE LOAD ANALYSIS

The "worst case" possible air quality impact is typically based on the maximum operating rate associated with the emissions unit being evaluated. There are some circumstances, however, where conditions at less than the maximum rates could produce greater predicted air quality impact than is predicted at the maximum operating conditions. For that reason, Ohio EPA requested that the modeling protocol for the AMPGS include an alternative load analysis to determine if the "worst case" conditions for air quality impact from the AMPGS were based on the maximum operating rates.

The objective of the alternative load analysis is to identify the combination of operating scenarios for the two main boilers at the AMPGS (B001 and B002) that will result in the "worst case" predicted off-site impact. The following alternative boiler operating scenarios were evaluated for each short-term NAAQS to predict the off-site impact and identify the "worst case" operating scenario for the Class II air quality impact analysis:

- Both B001 and B002 operating at 100% load, 75% load and 50% load; and
- B001 or B002 operating at 100% load, 75% load and 50% load.

The load scenario of each boiler operating at a 50% load for the entire year is economically infeasible. As a result, the annual analysis excludes that scenario and the following alternative boiler operating scenarios were evaluated for each annual average NAAQS:

- Both B001 and B002 operating at 100% load and 75% load; and
- B001 or B002 operating at 100% load and 75% load.

The stack parameters for the alternative loads for B001 and B002 are presented in Table 9-1.

Table 9-1
B001 and B002 Stack Parameters
(Values for Each Stack)

Parameter	100% Load	75% Load	50% Load	Notes
Stack Height (ft)	625	625	625	GEP Stack Height
Stack Diameter (ft)	24.76	24.76	24.76	NA
Flow Rate (ACFM)	1,528,423	1,084,820	762,132	Minimum flow rate, which will cause highest off-site impact
Velocity (fps)	52.9	37.5	26.4	Minimum flow rate, which will result in lowest velocity
Stack Temperature (F)	135	135	135	NA
SO_2 (lb/hr) 3-Hr	1,246	935	623	Maximum 3-hour average emissions rate
SO_2 (lb/hr) 24-Hr	955	716	478	Maximum 24-hour average emissions rate
SO_2 (lb/hr) Annual	779	584	390	Maximum annual average emissions rate
NO_x (lb/hr) Annual	363	272	182	Maximum hourly emissions rate
PM_{10} (lb/hr)	129	97	65	Maximum hourly emissions rate
CO (lb/hr) 1-Hr	799	567	399	Maximum hourly emissions rate

SULFUR DIOXIDE

The results of the alternative load analysis for impact on the SO_2 NAAQS are presented in Table 9-2, Table 9-3 and Table 9-4. Operating both boilers at 100% load results in the maximum predicted off-site impact for the 3-hour, 24-hour and annual NAAQS averaging periods for each year during the five-year period.

Table 9-2
Predicted Off Site SO_2 Impact for Alternative Operating Scenarios for B001 and B002
3-hour Averaging Period
µg/m^3 (High Value for Each Year in Bold Font)

Year	B001 and B002			B001	B001	B001	B002	B002	B002
	100%	75%	50%	100%	75%	50%	100%	75%	50%
1988	**60.63**	53.17	41.94	30.82	26.77	21.19	30.71	26.73	21.12
1989	**63.61**	56.19	43.51	32.09	28.40	22.09	31.87	28.31	21.98
1990	**62.00**	53.66	42.18	31.35	27.24	21.29	30.65	26.69	21.20
1991	**62.91**	55.62	44.39	31.61	27.87	22.18	31.37	27.75	22.21
1992	**58.11**	51.44	40.91	29.41	26.05	20.64	29.68	26.22	20.73

Table 9-3
Predicted Off Site SO_2 Impact for Alternative Operating Scenarios for B001 and B002
24-hour Averaging Period
µg/m^3 (High Value for Each Year in Bold Font)

Year	B001 and B002			B001	B001	B001	B002	B002	B002
	100%	75%	50%	100%	75%	50%	100%	75%	50%
1988	**14.73**	13.40	11.01	7.37	6.78	5.54	7.40	6.74	5.52
1989	**13.43**	12.41	10.08	6.75	6.22	5.05	6.81	6.26	5.05
1990	**15.31**	13.63	10.84	7.70	6.84	5.46	7.71	6.84	5.41
1991	**14.62**	12.52	9.42	7.23	6.18	4.87	7.44	6.41	4.85
1992	**15.79**	14.27	11.22	7.96	7.14	5.64	7.83	7.13	5.62

Table 9-4
Predicted Off Site SO_2 Impact for Alternative Operating Scenarios for B001 and B002
Annual Averaging Period
µg/m^3 (High Value for Each Year in Bold Font)

Year	B001 and B002		B001	B001	B002	B002
	100%	75%	100%	75%	100%	75%
1988	**1.53**	1.46	0.79	0.77	0.74	0.69
1989	**1.39**	1.31	0.71	0.68	0.69	0.64
1990	**1.72**	1.61	0.88	0.84	0.84	0.77
1991	**1.49**	1.37	0.75	0.70	0.74	0.68
1992	**1.53**	1.42	0.79	0.75	0.75	0.68

NITROGEN OXIDES

The results of the alternative load analysis for impact on the annual NO_2 NAAQS are presented in Table 9-5. The maximum predicted concentration occurs when both boilers are operating at 100% load.

Table 9-5
Predicted Off Site NO_x Impact for Alternative Operating Scenarios for B001 and B002
Annual Averaging Period
µg/m^3 (High Value for Each Year in Bold Font)

Year	B001 and B002 100%	B001 and B002 75%	B001 100%	B001 75%	B002 100%	B002 75%
1988	**0.71**	0.68	0.37	0.36	0.35	0.32
1989	**0.65**	0.61	0.33	0.32	0.32	0.30
1990	**0.80**	0.75	0.41	0.39	0.39	0.36
1991	**0.69**	0.64	0.35	0.33	0.35	0.32
1992	**0.71**	0.66	0.37	0.35	0.35	0.32

PARTICULATE MATTER

The results of the alternative load analysis for impact on the PM_{10} NAAQS are presented in Table 9-6 and Table 9-7. Operating both boilers at 100% load results in the maximum predicted off-site impact for the 24-hour and annual NAAQS averaging periods.

Table 9-6
Predicted Off Site PM_{10} Impact for Alternative Operating Scenarios for B001 and B002
24-hour Averaging Period
µg/m^3 (High Value for Each Year in Bold Font)

Year	B001 and B002 100%	B001 and B002 75%	B001 and B002 50%	B001 100%	B001 75%	B001 50%	B002 100%	B002 75%	B002 50%
1988	**1.99**	1.82	1.50	0.99	0.92	0.75	1.00	0.91	0.75
1989	**1.81**	1.68	1.37	0.91	0.84	0.69	0.92	0.85	0.68
1990	**2.07**	1.85	1.47	1.04	0.93	0.74	1.04	0.93	0.74
1991	**1.98**	1.70	1.28	0.98	0.84	0.66	1.00	0.87	0.66
1992	**2.13**	1.93	1.53	1.07	0.97	0.77	1.06	0.97	0.76

Table 9-7 Predicted Off Site PM_{10} Impact for Alternative Operating Scenarios for B001 and B002 Annual Averaging Period µg/m³ (High Value for Each Year in Bold Font)						
	B001 and B002					
Year	100%	75%	B001 100%	B001 75%	B002 100%	B002 75%
1988	**0.25**	0.24	0.13	0.13	0.12	0.11
1989	**0.23**	0.21	0.12	0.11	0.11	0.11
1990	**0.28**	0.27	0.14	0.14	0.14	0.14
1991	**0.25**	0.23	0.12	0.12	0.12	0.11
1992	**0.25**	0.23	0.13	0.12	0.12	0.11

CARBON MONOXIDE

The results of the alternative load analysis for impact on the CO NAAQS are presented in Table 9-8, and Table 9-9. Operating both boilers at 100% load results in the maximum predicted off-site impact for the 1-hour and 8-hour NAAQS averaging periods.

Table 9-8 Predicted Off Site CO Impact for Alternative Operating Scenarios for B001 and B002 1-hour Averaging Period µg/m³ (High Value for Each Year in Bold Font)									
	B001 and B002								
Year	100%	75%	50%	B001 100%	B001 75%	B001 50%	B002 100%	B002 75%	B002 50%
1988	**47.92**	40.05	33.27	24.24	20.14	16.57	24.00	20.25	16.76
1989	**56.15**	42.43	32.90	28.13	21.26	16.50	28.02	21.17	16.50
1990	**53.70**	43.78	34.81	26.85	21.89	17.36	26.86	21.90	16.17
1991	**56.35**	45.62	36.17	28.19	22.80	18.13	28.21	22.85	18.07
1992	**65.54**	51.47	40.54	32.78	25.82	20.37	32.75	25.74	20.26

Table 9-9 Predicted Off Site CO Impact for Alternative Operating Scenarios for B001 and B002 8-hour Averaging Period µg/m³ (High Value for Each Year in Bold Font)									
	B001 and B002								
Year	100%	75%	50%	B001 100%	B001 75%	B001 50%	B002 100%	B002 75%	B002 50%
1988	**27.31**	23.08	19.81	13.60	11.56	9.98	13.71	11.61	9.83
1989	**26.91**	23.25	19.83	13.50	11.68	9.99	13.54	11.60	9.92
1990	**26.09**	22.38	19.00	13.02	11.32	9.56	13.18	11.23	9.56
1991	**24.68**	20.69	17.36	12.35	10.35	8.69	12.33	10.36	8.67
1992	**26.19**	22.00	18.23	13.28	11.04	9.20	13.14	11.00	9.11

ADDITIONAL IMPACTS ANALYSIS

For:
AMERICAN MUNICIPAL POWER GENERATING STATION

Submitted By:
AMERICAN MUNICIPAL POWER-OHIO, INC.

May 2006

GT
Environmental, Inc.
635 Park Meadow Road, Suite 112
Westerville, Ohio 43081
(614) 794-3570

ADDITIONAL IMPACTS ANALYSIS

American Municipal Power-Ohio, Inc. (AMP-Ohio) proposes to construct and operate a new pulverized coal-fired power plant, identified as the American Municipal Power Generating Station, in Letart Falls, Meigs County, Ohio (AMPGS). AMPGS will consist of two steam generators designed for base load operation with a nominal net power output of 480 MW each or a maximum heat input capacity of 5,191 MMBtu/hr each. The steam generators will burn a blend of Ohio, Central Appalachian and Powder River Basin coals.

This additional impacts analysis is necessary to satisfy the Prevention of Significant Deterioration (PSD) permitting requirements in OAC rule 3745-31-17. The additional impacts analysis assesses the impacts of air, ground and water pollution on soils, vegetation, and visibility caused by any increase in emissions of any regulated pollutant from the source or modification under review, and from associated growth.

The required elements of the additional impacts analysis include:

(1) growth analysis;
(2) ambient air quality impact analysis;
(3) soil and vegetation impacts analysis; and
(4) visibility impact analysis.

The ambient air quality impact analysis, soil and vegetation impacts analysis and the visibility impairment analysis discussion will be grouped under the heading Environmental Impacts.

IMPACT AREA

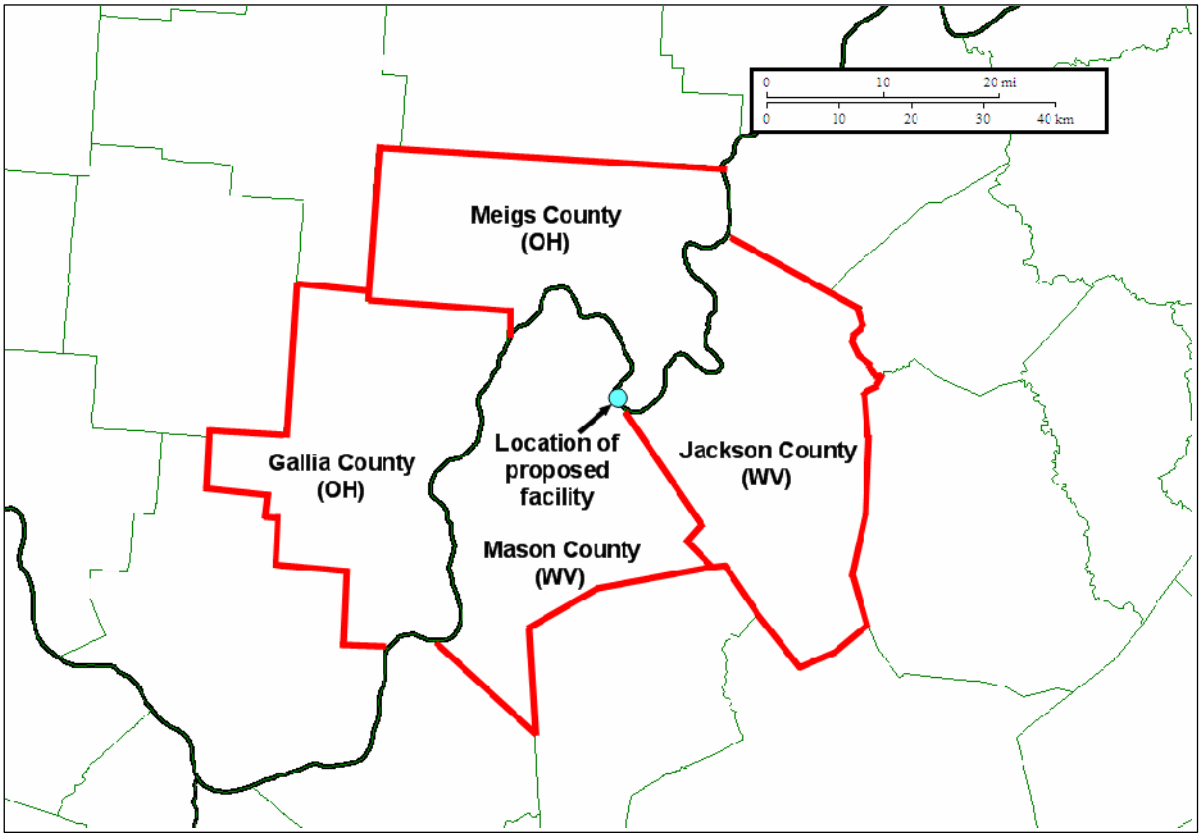
The Additional Impact Analysis will address the impacts this project may have on Meigs County, Ohio; Gallia County, Ohio; Jackson County, West Virginia and Mason County, West Virginia. Figure 1 shows the proposed facility location and the four county impact area.

PROPOSED EMISSION RATES

The proposed emissions rates for this project are summarized in Volume IV (Permit-to-Install Application). The additional impacts analysis addresses the environmental impacts each pollutant may have at the emission rates proposed in Volume I of the permit application..

Figure 1

MAP OF IMPACT AREA



GROWTH ANALYSIS

The growth analysis reviews the projected increase in residential, commercial and industrial growth associated with the new source. The growth analysis includes an estimate of the air emissions generated by the associated growth.

Population

Table 1 summarizes the population in the four-county impact area.

Table 1
County Populations

County	Population
Meigs	23,386
Gallia	31,256
Jackson	28,000
Mason	25,957
Total	**108,599**

The Meigs County and Gallia County populations are based on July 2004 data from the Ohio Department of Development. The Jackson County and Mason County populations are based on the 2000 Census.

Housing Statistics

Table 2 summarizes the housing vacancies in the four county impact area.

Table 2
Housing Vacancies

County	Homes
Meigs	1,548
Gallia	1,438
Mason	1,085
Jackson	1,184
Total	**5,255**

Other PSD Applications

AMP-Ohio is aware of one other potential PSD application for a power plant in Meigs County. American Electric Power (AEP) announced the potential development of an electric generating facility in several locations in the area including the Great Bend Area of Meigs County. AMP- Ohio is not aware of the projections or growth potential of the AEP facility on Meigs County.

Summary

According to the 2000 Census, Meigs County averages 2.5 persons per household. The proposed AMPGS is projected to create approximately 150 permanent new positions and at the peak of the four year construction period there will be approximately 1,065 temporary positions. Assuming all of the temporary workers will reside in Meigs County, the population will increase by approximately 2,662 (based on 2.5 persons/household) or 11.3%. Assuming all of the temporary workers will commute from within the four-county impact area, the population in the four-county area will increase by approximately 2,662 (based on 2.5 persons/household) or 2.5%. Assuming all of the permanent workers reside in Meigs County, the population will increase by approximately 375 people (based on 2.5 persons/household) or 1.6%.

A temporary 11.3% increase in the population of Meigs County is not expected to result in any significant environmental impacts. A permanent 1.6% increase in the population of Meigs County is also not expected to result in any significant environmental impacts. The operation of the electric generating station is not expected to generate commercial or industrial growth that would result in adverse environmental impacts. According to Table 2, there seems to be ample housing in Meigs County and certainly within the four county region to support the temporary and permanent work force. As a result, this project is not expected to generate any significant housing development. AMP-Ohio does not anticipate any adverse environmental impacts from the residential, commercial and industrial growth expected from this project.

ENVIRONMENTAL IMPACTS

Pursuant to Ohio EPA's PSD permitting regulations (OAC rule 3745-31-10 through 31-20), AMP-Ohio is required to conduct Class II air quality modeling for each pollutant with proposed emissions greater than the PSD Modeling Trigger Levels. The PSD Modeling Trigger Levels are shown in Table 3.

Table 3
PSD Modeling Trigger Levels

Pollutants	PSD Modeling Trigger Levels (tons/yr)
PM_{10}	15
SO_2	40
NO_2	40
CO	100
Lead	0.6

AMP-Ohio must conduct air quality modeling to determine whether the PSD Significant Impact Increment was exceeded for each pollutant greater than the PSD Modeling Trigger Level. AMP-Ohio must conduct more refined air quality modeling to determine whether the proposed project will cause an exceedance of the National Ambient Air Quality Standards (NAAQS) or consume more than 50% of the PSD increment for each pollutant that exceeds the PSD Significant Impact Increment. Table 4 summarizes the results of the Class II air quality modeling.

Table 4 Summary of Class II Air Quality Modeling Results						
Pollutant	**Avg. Period**	**Maximum Predicted Concentration ($\mu g/m^3$)**	**Second High Predicted Concentration ($\mu g/m^3$)**	**PSD Significant Impact Increment ($\mu g/m^3$)**	**½ Class II PSD Increment ($\mu g/m^3$)**	**NAAQS ($\mu g/m^3$)**
SO_2	3-Hr	63.61	56.68	25	256	1,300
	24-Hr	15.79	12.38	5	45.5	365
	Annual	1.53	NA	1	10	80
NO_x	Annual	0.99	NA	1	12.5	100
PM_{10}	24-Hr	3.46	2.93	5	15	150
	Annual	0.73	NA	1	8.5	50
CO	1-Hr	66.74	48.59	2,000	10,000	40,000
	8-Hr	28.11	23.67	500	2,500	10,000

In addition to the Class II air quality modeling requirements, Ohio EPA's Engineering Guide No. 69, requires AMP-Ohio to conduct air quality modeling for each air toxic with proposed emissions rates greater than 1.0 tons/yr. Air toxic is defined as any pollutant listed in the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values and Biological Exposure Indices" publication. The purpose of air toxic modeling is to demonstrate that the Maximum Acceptable Ground Level Concentration (MAGLC) for each pollutant is not exceeded. The MAGLC is defined as the Threshold Limit Value (TLV) / 42. Table 5 summarizes the results of the air toxic modeling.

Table 5 Summary of Air Toxic Modeling Results			
Pollutant	**Modeled Emission Rate (lbs/hr)**	**MAGLC (TLV/42) ($\mu g/m^3$)**	**Maximum Predicted Concentration ($\mu g/m^3$)**
Acetaldehyde (C_2H_4O)	0.18	788.7	0.015
Ammonia (NH_3)	5.10	413.8	0.418
Benzene (C_6H_6)	0.41	38.0	0.034
Benzyl Chloride (C_7H_7Cl)	0.22	123.0	0.018
Hydrogen Chloride (HCl)	41.20	52.2	3.374
Hydrogen Cyanide	0.79	91.0	0.065
Hydrogen Fluoride (HF)	5.30	43.0	0.434
Isophorone ($C_9H_{14}O$)	0.18	495.0	0.015
Methyl Ethyl Ketone (MEK)	0.12	14,013.6	0.010
Methylene Chloride (MeCl)	0.17	2,453.4	0.014
Mercury (Hg)	0.02	4.9	0.002
Nitrous Oxide (N_2O)	26.00	2,139.0	2.129
Propionaldehyde (C_3H_6O)	0.12	1,129.3	0.010
Sulfuric Acid (H_2SO_4)	38.90	4.8	3.186

Summary

The purpose of the Class II air quality modeling and air toxic modeling requirements are to demonstrate that the proposed AMPGS will not cause any significant environment impacts even to the most sensitive people, plants and animals within the impact area. The modeling results summarized in Tables 4 and 5 demonstrate that this project will not cause any significant environmental impacts.

The proposed hourly emission rates for each pollutant were established to demonstrate through air quality modeling that the following goals were achieved:

- the NAAQS are not exceed by this project;
- less than 50% of the PSD Increment is consumed by this project; and
- the MAGLC for each air toxic is not exceeded by this project.

Since each of these goals was met by the proposed emission rates in this permit application, this project will not cause any adverse environment impacts. For more details on the ambient air quality impact analysis please refer to the Class II Air Quality Modeling presented in previous sections of this Volume IV.

APPENDIX A

AMPGS Source Parameters
Interactive SO_2 Analysis Source Parameters

AMPGS Point Source Input Variables

Source ID	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (ft)	Stack Height (ft)	Temperature (°F)	Exit Velocity (fps)	Stack Diameter (ft)	Emission Rate (lb/hr) 24-hr PM10	Annual PM10	3-hr SO2	24-hr SO2	Annual SO2	H2SO4	CO	NOx	Toxics
B001_S	Boiler#1	420,863.0	4,305,750.0	605.31	625.0	135	52.91	24.76	129	129	1246	955	779	38.9	799	415	1
B002_S	Boiler#2	420,940.0	4,305,729.0	609.58	625.0	135	52.91	24.76	129	129	1246	955	779	38.9	799	415	1
B003_S	Auxiliary Boiler	420,874.0	4,305,965.5	595.14	277.0	300	59.68	4.00							12.6	2.85	
P003_S1	Fertilizer Plant - rotary dryer wet scrubber	420,705.3	4,305,793.5	619.09	213.3	125	50.83	0.83	0.259	0.259					0.378	0.855	
P003_S2	Fertilizer Plant - rotary cooler wet scrubber	420,717.0	4,305,790.5	619.09	213.3	125	51.64	3.33	3.6	3.6							
P003_S3	Fertilizer Plant - baghouse	420,729.1	4,305,788.0	617.78	213.3	70	50.66	1.92	0.36	0.36							
P902_S2	Coal Conveying Handling & Storage - reclaim tunnel	420,404.3	4,305,739.0	624.34	12.0	70	18.86	3.00	0.05	0.03							
P902_S3	Coal Conveying Handling & Storage -exhaust #1	420,667.1	4,305,886.0	609.25	155.0	70	35.37	3.00	0.06	0.06							
P902_S4	Coal Conveying Handling & Storage - exhaust #2	420,679.7	4,305,886.0	613.52	155.0	70	35.37	3.00	0.06	0.06							
P902_S5	Coal Conveying Handling & Storage - surge bin #1	420,666.1	4,305,875.0	610.89	125.0	70	4.71	3.00	0.09	0.09							
P902_S6	Coal Conveying Handling & Storage - surge bin #2	420,680.7	4,305,874.5	616.14	125.0	70	4.71	3.00	0.09	0.09							
P902_S7	Coal Conveying Handling & Storage - baghouse #1	420,927.8	4,306,024.5	594.49	210.0	70	47.16	3.00	0.86	0.86							
P902_S8	Coal Conveying Handling & Storage - baghouse #2	421,008.3	4,306,003.5	596.78	210.0	70	47.16	3.00	0.86	0.86							
P903_S1	Limestone/Urea Conveying Handling & Storage - insertable dust collector	420,718.7	4,305,798.0	620.41	105.0	70	28.29	1.50	0.13	0.13							
P903_S2	Limestone/Urea Conveying Handling & Storage - bin vent filter 1	420,707.3	4,305,801.0	620.41	120.0	70	14.15	1.50	0.06	0.06							
P903_S3	Limestone/Urea Conveying Handling & Storage - bin vent filter 2	420,731.5	4,305,795.5	619.09	120.0	70	14.15	1.50	0.06	0.06							

AMPGS Area Source Input Variables

Source ID	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (ft)	Release Height (ft)	Easterly Length (ft)	Northerly Length (ft)	Angle from North	Emission Rate (lb/hr) 24-hr PM10	Annual PM10
F001_F	Landfill	421,645.5	4,305,004.5	841.5	3	4700	2200	3	0.42	0.42
F002_F1A	Paved Roadways	420,925.5	4,305,712.5	605.4	3	1850	24	15	0.224	0.224
F002_F1B	Paved Roadways - segment 2	421,471.0	4,305,573.0	679.4	3	24	420	35	0.224	0.224
F002_F1C	Paved Roadways - segment 3	421,553.5	4,305,675.0	672.4	3	24	1230	163	0.224	0.224

AMPGS Volume Source Input Variables

Source ID	Source Description	Easting (X) (m)	Northing (Y) (m)	Base Elevation (ft)	Release Height (ft)	Horizontal Dimension (ft)	Vertical Dimension (ft)	Emission Rate (lb/hr) 24-hr PM10	Annual PM10
P903_F	Limestone Conveying Handling & Storage - Limestone Prep Building	420,432.91	4,305,872.00	623.46	15	18	15	0.08	0.009

AMPGS
Interactive SO_2 Modeling - Input Variables

Source ID	Source Description	Easting (X) (km)	Northing (Y) (km)	Base Elevation (ft)	Stack Height (ft)	Temperature (°F)	Exit Velocity (fps)	Stack Diameter (ft)	SO_2 Emission Rate 3-Hour (lb/hr)	24-Hour (lb/hr)	Annual (lb/hr)
AMPB001	Boiler#1	420.86	4,305.75	605.02	625	135	52.9	24.8	1,246.0	955.0	779.0
AMPB002	Boiler#2	420.94	4,305.73	610.24	625	135	52.9	24.8	1,246.0	955.0	779.0
OU	Ohio University Lausche Heating Plant	403.99	4,351.29	867.39	150	360	20.8	8.7	1,357.1	1,357.1	1,357.1
GAVB001	Gavin Power Plant B001 & B002	403.00	4,310.00	626.80	300	300	88.0	11.0	1,920.0	1,920.0	1,920.0
GAVB003	Gavin Power Plant B003	403.26	4,309.91	589.47	830	125	53.1	42.0	88,445.8	88,445.8	88,445.8
GAVB004	Gavin Power Plant B004	403.33	4,310.04	583.99	830	125	53.1	42.0	88,445.8	88,445.8	88,445.8
OHVAL	Ohio Valley Electric Corp. Kyger Creek Station	402.24	4,305.06	570.87	1000	350	109.9	29.3	75,850.0	75,850.0	75,850.0
AEPMUS1	Muskingum River Plant AEP B001	441.64	4,382.37	651.97	134	650	95.0	7.0	597.6	597.6	597.6
AEPMUS2	Muskingum River Plant AEP B002-5	441.64	4,382.37	649.61	828	335	113.1	25.0	63,840.0	63,840.0	63,840.0
AEPMUS3	Muskingum River Plant AEP B006	441.06	4,382.12	758.96	828	290	71.3	25.0	42,180.0	42,180.0	42,180.0
CAWV1	Century Aluminum of West Virginia (SI74)	428.30	4,308.60	636.48	40	100	21.6	0.8	14.0	14.0	14.0
CAWV2	Century Aluminum of West Virginia (SI94)	428.30	4,308.60	636.48	38	68	27.0	4.2	459.3	459.3	459.3
CAWV3	Century Aluminum of West Virginia (SI112)	428.30	4,308.60	636.48	20	100	8.5	0.5	34.1	34.1	34.1
CAWV4	Century Aluminum of West Virginia (SI144)	428.30	4,308.60	636.48	53	150	57.6	1.9	199.7	199.7	199.7
APKAN	Appalachian Power Kanawha River Plant	463.00	4,228.60	616.21	326	316	47.1	19.7	6,240.0	6,240.0	6,240.0
APMTN	Appalachian Power Mountaineer Plant	419.00	4,314.70	658.27	1100	316	101.7	30.2	18,024.0	18,024.0	18,024.0
APSP1	Appalachian Power Phillip Sporn Plant (unit5)	420.00	4,313.50	566.50	602	328	147.7	15.1	15,844.0	15,844.0	15,844.0
APSP2	Appalachian Power Phillip Sporn Plant (units1-4)	420.00	4,313.50	566.50	600	292	93.7	21.5	20,976.0	20,976.0	20,976.0
PLEAS1	Monongahela Power Co. Pleasants Power Station (stack1)	488.80	4,357.40	854.69	1000	150	95.5	20.0	7,494.0	7,494.0	7,494.0
PLEAS2	Monongahela Power Co. Pleasants Power Station (stack2)	488.80	4,357.40	854.69	1000	150	29.0	36.3	7,494.0	7,494.0	7,494.0
WILL1	Monongahela Power Co. Willow Island (stack1)	474.10	4,357.40	667.19	160	385	29.7	13.9	1,671.3	1,671.3	1,671.3
WILL2	Monongahela Power Co. Willow Island (stack2)	474.10	4,357.40	667.19	216	375	89.6	15.0	4,333.5	4,333.5	4,333.5
AMOS	Appalachian Power John E Amos Plant	428.20	4,258.40	580.71	903	312	107.6	33.0	41,561.6	41,561.6	41,561.6
DUWW1	Dupont Washington Works (stack 145)	442.20	4,346.70	620.08	150	429	34.7	6.0	497.6	497.6	497.6
DUWW2	Dupont Washington Works (stack 476)	442.20	4,346.70	620.08	150	332	32.5	7.5	848.6	848.6	848.6
DUWW3	Dupont Washington Works (stack 477)	442.20	4,346.70	620.08	150	364	44.6	9.0	1,635.3	1,635.3	1,635.3
DUWW4	Dupont Washington Works (stack 328)	442.20	4,346.70	620.08	90	180	4.6	5.0	170.5	170.5	170.5

Proposed New AMP-Ohio Power Plant
Interactive SO_2 NAAQS Air Quality Modeling Inventory

Facility ID	Facility Name	Unit ID	County	UTM Zone	UTM Horizontal	UTM Vertical	Egress Height (ft)	Egress Diameter (ft)	Maximum Operation		Allowable Emissions Rate (Tons/Year)	Allowable Emissions Rate (lbs/hr)
									Exit Temperature (F)	Exit Flowrate (ACFM)		
Not Assigned	**AMP-Ohio New Plant**	**Units 1 & 2**	**Meigs**	**17**	**420.97**	**4,306.08**						
Sources in Ohio												
0605010016	Ohio University Lausche Heating Plant	B041	Athens	17	403.99	4,351.29	150	8.75	360	75,000	1,981.40	452.38
		B042									1,981.40	452.38
		B043									1,981.40	452.38
0627010056	Gavin Power Plant	B001	Gallia	17	403.00	4,310.00	300	11.00	300	501,775	4,204.80	960.00
		B002									4,204.80	960.00
		B003		17	403.26	4,309.91	830	42.00	125	4,410,000	387,392.40	88,445.76
		B004		17	403.33	4,310.04	830	42.00	125	4,410,000	387,392.40	88,445.76
0627000003	Ohio Valley Electric Corp. Kyger Creek Station	B001	Gallia	17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	15,170.00
		B002									66,444.60	15,170.00
		B003									66,444.60	15,170.00
		B004									66,444.60	15,170.00
		B005									66,444.60	15,170.00
0684000000	Muskingum River Plant AEP	B001	Washington	17	441.64	4,382.37	134	7.00	650	219,362	2,617.49	597.60
		B002		17	441.64	4,382.37	828	25.00	335	3,331,000	68,240.40	15,580.00
		B003									68,240.40	15,580.00
		B004									71,569.20	16,340.00
		B005									71,569.20	16,340.00
		B006		17	441.06	4,382.12	828	25.00	290	2,100,000	184,748.40	42,180.00

Compiled by GT Environmental, Inc.
Revised April 10, 2006

Proposed New AMP-Ohio Power Plant
Interactive SO_2 NAAQS Air Quality Modeling Inventory

Facility ID	Facility Name	Unit ID	County	UTM Zone	UTM Horizontal	UTM Vertical	Egress Height (ft)	Egress Diameter (ft)	Maximum Operation		Allowable Emissions Rate (Tons/Year)	Allowable Emissions Rate (lbs/hr)
									Exit Temperature (F)	Exit Flowrate (ACFM)		
Sources in West Virginia												
5403500002	Century Aluminum of West Virginia	003S104 003P109? Stack ID 74?	Jackson	17	428.30	4,308.60	40	0.83	100	700	61.23	13.98
		003S304 003P311 3 EAF's Stack ID 94		17	428.30	4,308.60	38	4.25	68	23,000	2,011.71	459.29
		004S112 004P116 Ore Bucket Line 2B Stack ID 112		17	428.30	4,308.60	20	0.50	100	100	149.44 (actual reported 2003)	34.12
		004S301 004P101-004P204 Reduction Cells Potroom 1A-4B Stack ID 144		17	428.30	4,308.60	53	1.92	150	10,000	874.66	199.69
5403900006	Appalachian Power Kanawha River Plant	Unit 1 & Unit 2 (CS012)	Kanawha	17	463.00	4,228.60	326	19.67	316	858,042	27,331.20	6,240.00
5405300009	Appalachian Power Mountaineer Plant	Unit 1 Stack MT1	Mason	17	419.00	4,314.70	1,100	30.25	316	4,386,424	78,945.00	18,024.00
5405300001	Appalachian Power Phillip Sporn Plant	Unit 5 SP51	Mason	17	420.00	4,313.50	602	15.07	328	1,581,233	69,396.72	15,844.00
		Units 1-4 CS014		17	420.00	4,313.50	600	21.50	292	2,040,717	91,874.88	20,976.00
5407300005	Monongahela Power Co. Pleasants Power Station	Boiler 1 (Stack 1)	Pleasants	17	488.80	4,357.40	1,000	20.00	150	1,800,000	32,823.72	7,494.00
		Boiler 2 (Stack 2)		17	488.80	4,357.40	1,000	36.30	150	1,800,000	32,823.72	7,494.00
5407300005	Monongahela Power Co. Willow Island	Boiler 1 (Stack 1)	Pleasants	17	474.10	4,357.40	160	13.90	385	270,000	7,320.29	1,671.30
		Boiler 2 (Stack 2)		17	474.10	4,357.40	216	15.00	375	950,000	18,980.73	4,333.50
5407900006	Appalachian Power John E Amos Plant	Unit 1 (CS012)	Putnam	17	428.20	4,258.40	903	33.00	312	5,521,332	182,039.81	41,561.60
		Unit 2 (CS012)										
		Unit 3 (AM3)		17	428.00	4,258.60	903	30.25	325	4,280,174		
5410700001	Dupont Washington Works	Boilers 1 & 2 (Stack 475)	Wood	17	442.20	4,346.70	150	6.00	429	58,810	2,179.27	497.55
		Boilers 3 & 4 (Stack 476)		17	442.20	4,346.70	150	7.50	332	86,229	3,717.00	848.63
		Boilers 5 & 6 (Stack 477)		17	442.20	4,346.70	150	9.00	364	170,270	7,162.40	1,635.25
		Waste Disposal Furnace (Stack 328)		17	442.20	4,346.70	90	5.00	180	5,420	746.79	170.50

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APPENDIX B

Surface Characteristics

62.03% deciduous forest
6.89% coniferous forest
16.40% urban
14.68% cultivated land

surface roughness				
	spring	summer	autumn	winter
deciduous forest	1.00	1.30	0.80	0.50
coniferous forest	1.30	1.30	1.30	1.30
urban	1.00	1.00	1.00	1.00
cultivated land	0.03	0.20	0.05	0.01
	0.878	**1.089**	**0.757**	**0.565**

albedo				
	spring	summer	autumn	winter
deciduous forest	0.12	0.12	0.12	0.50
coniferous forest	0.12	0.12	0.12	0.35
urban	0.14	0.16	0.18	0.35
cultivated land	0.14	0.20	0.18	0.60
	0.126	**0.138**	**0.139**	**0.480**

bowen ratio (avg moisture conditions)				
	spring	summer	autumn	winter
deciduous forest	0.70	0.30	1.00	1.50
coniferous forest	0.70	0.30	0.80	1.50
urban	1.00	2.00	2.00	1.50
cultivated land	0.30	0.50	0.70	1.50
	0.690	**0.608**	**1.106**	**1.500**

Notes

Cabell County Soil Survey states that 10% of the trees are coniferous.
Land use determined by using geoprocessing in CALPUFF.

LU.DAT 2 Header structure with coordinate parameters
1
Produced by CTGPROC Version: 2.42 Level: 30709
FRACTION
UTM
17N
NAS-C 10-10-2002
12 12 361.151 4244.458 0.5 0.5 38

		11	12	13	14	15	16	17	21	22	23	24	31	32	33	41	42	43	51	52	53	54	55	61	62	71	72	73	74	75	76	77	81	82	83	84	85	91	92
KM																																							
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	1	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	2	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	0	0	0	0	0	0	0	0.444	0	0	0	0	0	0	0.556	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	4	0	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	4	0.333	0	0	0	0	0	0	0.444	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	4	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	4	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0	0.889	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	4	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	4	0.111	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	4	0.5	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	5	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	5	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	5	0.25	0	0	0	0	0	0	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	5	0.5	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	5	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	5	0.167	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	5	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	6	0	0	0	0	0	0	0	0.111	0	0	0	0	0	0	0.889	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	6	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	6	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	6	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0
5	6	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.556	0	0	0	0	0	0	0	0
6	6	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0
7	6	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	6	0	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	6	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	6	0.444	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0.444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	6	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	7	0	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0	0
2	7	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0
3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0
4	7	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0
5	7	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	7	0	0	0	0.75	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	7	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	7	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0
3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0
4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	8	0.167	0	0	0.167	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	8	0.111	0	0	0	0	0	0	0.111	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	8	0	0	0	0	0	0	0	0.167	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	8	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	8	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	9	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	9	0.167	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	9	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	10	0	0	0	0.222	0	0	0	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	10	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	10	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	10	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0	0.778	0	0	0	0	0	0	0	0	0	0	0	0	0	0.111	0	0	0	0	0	0	0	0	0	0	0	
6	10	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	11	0.167	0	0	0	0	0	0	0	0	0	0	0	0	0	0.833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	11	0.5	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	11	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	11	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	11	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	
6	11	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	
7	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	11	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	12	0.889	0	0	0	0	0	0	0	0	0	0	0	0	0	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	12	0.667	0	0.222	0.111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	12	0	0	0.667	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	12	0.556	0.111	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	12	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	12	0	0.222	0	0.111	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	12	0	0	0	0.111	0	0	0	0	0	0	0	0	0	0	0.889	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	12	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0.667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	12	0	0	0	0.333	0	0	0	0.333	0	0	0	0	0	0	0.333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		10.49%	0.77%	0.85%	4.28%	0.00%	0.00%	0.00%	14.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	66.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.84%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1	
		11	**12**	**13**	**14**	**15**	**16**	**17**	**21**	**22**	**23**	**24**	**31**	**32**	**33**	**41**	**42**	**43**	**51**	**52**	**53**	**54**	**55**	**61**	**62**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**81**	**82**	**83**	**84**	**85**	**91**	**92**		

10-19	**16.40% urban**
20-29	**14.68% agric.**
30-39	0.00% rangeland
40-49	**66.09% forest**
50-59	0.00% water
60-69	0.00% wetland
70-79	**2.84% barren**
80-89	0.00% tundra
90-99	0.00% perennial snow/ice
total	100.00%

deciduous fo	**62.03%**
coniferous fo	**6.89%**
urban	**16.40%**
cultivated lar	**14.68%**

APPENDIX C

AMPGS 3-Hr SO_2 AERMOD Input/Output Files
AMPGS 24-Hr SO_2 AERMOD Input/Output Files
AMPGS Annual SO_2 AERMOD Input/Output Files
Interactive 3-Hr SO_2 AERMOD Input/Output Files
Interactive 24-Hr SO_2 AERMOD Input/Output Files
Interactive Annual SO_2 AERMOD Input/Output Files
Interactive 3-Hr SO_2 NAAQS Exceedances
Interactive 24-Hr SO_2 NAAQS Exceedances

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 13:42:12 ***
 Input File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO23HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO23HR.LST

   Met File - C:\FINALAMPGS\1988\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464



                                          *** POINT SOURCE DATA ***


            NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING  URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SOURCE  SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  B001_S        0   0.15699E+03  420863.0 4305750.0   184.4   190.50   330.37    16.13     7.55      YES      NO
  B002_S        0   0.15699E+03  420940.0 4305729.0   186.0   190.50   330.37    16.13     7.55      YES      NO


                                       *** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID                                                 SOURCE IDs


 ALL       B001_S  , B002_S  ,


                                          *** THE SUMMARY OF HIGHEST  3-HR RESULTS ***


                                      ** CONC OF SO23HR   IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      60.63511  ON 88052215: AT (  421745.09,  4306647.50,    197.67,    197.67,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      56.68216  ON 88071018: AT (  421844.59,  4306641.00,    195.52,    224.00,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 16:17:32 ***
 Input File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO23HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO23HR.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	63.60979	ON 89072218:	AT (420763.31, 4306887.00, 185.96, 185.96, 0.00)	DC
	HIGH 2ND HIGH VALUE IS	55.84813	ON 89092615:	AT (420863.31, 4304387.00, 180.74, 274.00, 0.00)	DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 19:19:59 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO23HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO23HR.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	62.00534	ON 90061618:	AT (419863.31, 4306687.00, 188.41, 253.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	56.04521	ON 90061615:	AT (419963.31, 4306487.00, 171.00, 253.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 20:01:34 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO23HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO23HR.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	62.91941	ON 91071812:	AT (420963.31, 4306987.00, 187.57, 187.57, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	52.78282	ON 91042615:	AT (421944.19, 4306635.00, 193.19, 226.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 20:42:42 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO23HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO23HR.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	58.12010	ON 92081215:	AT (420863.31, 4304487.00, 190.38, 190.38, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	56.59633	ON 92082712:	AT (421863.31, 4306687.00, 195.48, 224.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                      ***
*** Model Executed on 05/04/06 at 14:24:26 ***
 Input File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO224HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO224HR.LST

   Met File - C:\FINALAMPGS\1988\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464



                                          *** POINT SOURCE DATA ***


            NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING  URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SOURCE  SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  B001_S        0   0.12033E+03  420863.0 4305750.0   184.4   190.50   330.37    16.13     7.55      YES      NO
  B002_S        0   0.12033E+03  420940.0 4305729.0   186.0   190.50   330.37    16.13     7.55      YES      NO


                                       *** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID                                                 SOURCE IDs


 ALL       B001_S  , B002_S  ,


                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                      ** CONC OF SO224HR  IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      14.73359  ON 88062424: AT (  419863.31,  4304887.00,    181.15,    181.15,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      11.26439c ON 88082724: AT (  421944.19,  4306635.00,    193.19,    226.00,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                    ***
*** Model Executed on 05/04/06 at 16:59:37 ***
 Input File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO224HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO224HR.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	13.43103c	ON 89092624:	AT (420863.31, 4304387.00, 180.74, 274.00, 0.00)	DC
	HIGH 2ND HIGH VALUE IS	11.78076c	ON 89081124:	AT (419963.31, 4304787.00, 182.69, 188.00, 0.00)	DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 21:23:44 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO224HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO224HR.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	15.32476c	ON 90061624:	AT (419863.31, 4306687.00, 188.41, 253.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	11.33145c	ON 90071624:	AT (421963.31, 4306787.00, 189.53, 225.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 22:05:17 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO224HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO224HR.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	14.62377c	ON 91061024:	AT (422435.69, 4306410.50, 213.82, 221.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	12.38261	ON 91071324:	AT (422463.31, 4306187.00, 212.90, 212.90, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 22:46:22 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO224HR.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO224HR.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	15.79442c	ON 92073024:	AT (421963.31, 4306687.00, 193.68, 225.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	12.36225c	ON 92070824:	AT (422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 15:06:37 ***
 Input File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO2A.DTA

Output File - C:\FINALAMPGS\SO2MAXI1988\ClassIIAnalysis_AMPGS_88_SO2A.LST

   Met File - C:\FINALAMPGS\1988\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	1.53472 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.53406 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.53033 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.52900 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.52444 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.50895 AT	(422063.31, 4307187.00, 195.97, 224.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.49954 AT	(422163.31, 4307087.00, 202.38, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.49529 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.49442 AT	(421863.31, 4306987.00, 184.61, 220.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.48894 AT	(422163.31, 4307187.00, 211.88, 223.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 17:41:40 ***
 Input File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO2A.DTA

Output File - C:\FINALAMPGS\SO2MAXI1989\ClassIIAnalysis_AMPGS_89_SO2A.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	1.39084 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.37951 AT	(422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.37905 AT	(422342.41, 4306610.50, 221.23, 221.23, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.37871 AT	(422463.31, 4306487.00, 215.43, 222.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.37840 AT	(422442.00, 4306604.50, 219.18, 219.18, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.37798 AT	(422438.81, 4306507.50, 219.39, 219.39, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.37655 AT	(422463.31, 4306587.00, 219.61, 219.61, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.37529 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.37527 AT	(422435.69, 4306410.50, 213.82, 221.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.37460 AT	(422463.31, 4306387.00, 210.91, 221.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 23:27:23 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO2A.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_90_SO2A.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	1.71697 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.70236 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.69549 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.69180 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.68992 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.68764 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.67441 AT	(422063.31, 4306887.00, 194.30, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.66160 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.66078 AT	(422163.31, 4307087.00, 202.38, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.65965 AT	(422163.31, 4306887.00, 197.81, 223.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/05/06 at 00:08:57 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO2A.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_91_SO2A.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	1.48872 AT	(422342.41, 4306610.50, 221.23, 221.23, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.48617 AT	(422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.48351 AT	(422442.00, 4306604.50, 219.18, 219.18, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.47861 AT	(422463.31, 4306587.00, 219.61, 219.61, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.47645 AT	(422242.91, 4306616.50, 224.82, 224.82, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.47359 AT	(422463.31, 4306687.00, 221.45, 221.45, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.47102 AT	(422438.81, 4306507.50, 219.39, 219.39, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.47013 AT	(422263.31, 4306687.00, 218.41, 223.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.46458 AT	(422463.31, 4306487.00, 215.43, 222.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.46390 AT	(422363.31, 4306787.00, 210.77, 224.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/05/06 at 00:50:04 ***
 Input File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO2A.DTA

Output File - C:\FINALAMPGS\SO2MAXI1990-1992\CLassIIAnalysis_92_SO2A.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	1.52789 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	1.52785 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	1.49672 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	1.49563 AT	(422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	1.49392 AT	(422263.31, 4306887.00, 198.84, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	1.49285 AT	(422163.31, 4306887.00, 197.81, 223.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	1.49274 AT	(422342.41, 4306610.50, 221.23, 221.23, 0.00)	DC	
	8TH HIGHEST VALUE IS	1.49069 AT	(422263.31, 4306687.00, 218.41, 223.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	1.49051 AT	(422242.91, 4306616.50, 224.82, 224.82, 0.00)	DC	
	10TH HIGHEST VALUE IS	1.48918 AT	(422263.31, 4306787.00, 208.62, 223.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/03/06 at 18:54:33 ***
 Input File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO23HR.DTA

Output File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO23HR.LST

   Met File - c:\FINALAMPGS\1988\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	AMPB001 , AMPB002 , OU , GAVB001 , GAVB003 , GAVB004 , OHVAL , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1 , CAWV2 , CAWV3 , CAWV4 , APKAN , APMTN , APSP1 , APSP2 , PLEAS1 , PLEAS2 , WILL1 , WILL2 , AMOS , DUWW1 , DUWW2 , DUWW3 , DUWW4 ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***
** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	3847.73657	ON 88052806:	AT (429000.00, 4309000.00, 220.67, 227.00, 0.00)	DC
	HIGH 2ND HIGH VALUE IS	1609.74451	ON 88111418:	AT (429000.00, 4309000.00, 220.67, 227.00, 0.00)	DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/03/06 at 19:03:37 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO23HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO23HR.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

ALL AMPB001 , AMPB002 , OU , GAVB001 , GAVB003 , GAVB004 , OHVAL , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1 , CAWV2 ,
CAWV3 , CAWV4 , APKAN , APMTN , APSP1 , APSP2 , PLEAS1 , PLEAS2 , WILL1 , WILL2 , AMOS , DUWW1 ,
DUWW2 , DUWW3 , DUWW4 ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4020.55273	ON 89060224:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	3961.20312	ON 89103018:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/05/06 at 14:37:04 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO23HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO23HR.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4147.54834	ON 90091324:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC
	HIGH 2ND HIGH VALUE IS	3881.41113	ON 90070403:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/03/06 at 19:18:02 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO23HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO23HR.LST

   Met File - c:\FINALAMPGS\1991\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4860.95947	ON 91082806:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC
	HIGH 2ND HIGH VALUE IS	4539.81543	ON 91062106:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/03/06 at 19:28:53 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO23HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO23HR.LST

   Met File - c:\FINALAMPGS\1992\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.15699E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.15699E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4196.79639	ON 92030421:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC
	HIGH 2ND HIGH VALUE IS	3381.06567	ON 92091721:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 08:53:32 ***
 Input File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO224HR.DTA

Output File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO224HR.LST

   Met File - c:\FINALAMPGS\1988\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	AMPB001 , AMPB002 , OU , GAVB001 , GAVB003 , GAVB004 , OHVAL , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1 , CAWV2 ,

CAWV3 , CAWV4 , APKAN , APMTN , APSP1 , APSP2 , PLEAS1 , PLEAS2 , WILL1 , WILL2 , AMOS , DUWW1 ,
DUWW2 , DUWW3 , DUWW4 ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***
** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	740.59869	ON 88052824:	AT (429000.00, 4309000.00, 220.67, 227.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	448.67542	ON 88093024:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 10:40:28 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO224HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO224HR.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

```
                                                   DATE                                                                    NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS    1039.18909  ON 89060224: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
         HIGH  2ND HIGH VALUE IS     789.18378c ON 89103024: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/06/06 at 04:56:41 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO224HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO224HR.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

```
                                                    DATE                                                                    NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS     822.74518  ON 90091324: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
         HIGH  2ND HIGH VALUE IS     592.46118c ON 90071824: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/05/06 at 11:10:39 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO224HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO224HR.LST

   Met File - c:\FINALAMPGS\1991\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	1242.61194	ON 91082824:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC
	HIGH 2ND HIGH VALUE IS	781.69269	ON 91062124:	AT (428000.00, 4309000.00, 192.00, 192.00, 0.00)		DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 09:16:18 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO224HR.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO224HR.LST

   Met File - c:\FINALAMPGS\1992\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.12033E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.12033E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

```
                                                   DATE                                                                    NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS     656.17511  ON 92090524: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
         HIGH  2ND HIGH VALUE IS     632.22302c ON 92030424: AT (  428000.00,  4309000.00,    192.00,    192.00,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 22:52:17 ***
 Input File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO2A.DTA

Output File - C:\FINALAMPGS\INTERACTIVESO2\InteractiveSO2_88_SO2A.LST

   Met File - c:\FINALAMPGS\1988\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	AMPB001 , AMPB002 , OU , GAVB001 , GAVB003 , GAVB004 , OHVAL , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1 , CAWV2 , CAWV3 , CAWV4 , APKAN , APMTN , APSP1 , APSP2 , PLEAS1 , PLEAS2 , WILL1 , WILL2 , AMOS , DUWW1 , DUWW2 , DUWW3 , DUWW4 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***
** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	116.24242 AT (	428000.00,	4309000.00,	192.00,	192.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	86.34550 AT (	429000.00,	4309000.00,	220.67,	227.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	70.17686 AT (	428000.00,	4308000.00,	190.00,	190.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	66.03402 AT (	405000.00,	4310000.00,	182.67,	182.67,	0.00)	DC	
	5TH HIGHEST VALUE IS	55.80325 AT (	427563.31,	4308087.00,	189.39,	189.39,	0.00)	DC	
	6TH HIGHEST VALUE IS	53.54161 AT (	427463.31,	4308287.00,	168.54,	168.54,	0.00)	DC	
	7TH HIGHEST VALUE IS	53.00434 AT (	427363.31,	4308487.00,	172.00,	172.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	52.15769 AT (	427563.31,	4307987.00,	189.55,	189.55,	0.00)	DC	
	9TH HIGHEST VALUE IS	51.66917 AT (	427463.31,	4308187.00,	170.14,	191.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	51.44210 AT (	427163.31,	4308787.00,	168.20,	248.00,	0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/05/06 at 02:17:14 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO2A.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_89_SO2A.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	127.25356 AT (	428000.00,	4309000.00,	192.00,	192.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	92.94376 AT (	429000.00,	4309000.00,	220.67,	227.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	88.54255 AT (	428000.00,	4308000.00,	190.00,	190.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	71.96972 AT (	427563.31,	4308087.00,	189.39,	189.39,	0.00)	DC	
	5TH HIGHEST VALUE IS	65.81934 AT (	427563.31,	4307987.00,	189.55,	189.55,	0.00)	DC	
	6TH HIGHEST VALUE IS	64.55166 AT (	427463.31,	4308187.00,	170.14,	191.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	64.34048 AT (	427463.31,	4308287.00,	168.54,	168.54,	0.00)	DC	
	8TH HIGHEST VALUE IS	64.08186 AT (	427463.31,	4308087.00,	178.36,	191.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	63.87703 AT (	405000.00,	4310000.00,	182.67,	182.67,	0.00)	DC	
	10TH HIGHEST VALUE IS	62.08707 AT (	427363.31,	4308487.00,	172.00,	172.00,	0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 23:39:25 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO2A.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_90_SO2A.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
```

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	125.46512	AT (	428000.00,	4309000.00,	192.00,	192.00,	0.00)	DC
	2ND HIGHEST VALUE IS	88.74267	AT (	429000.00,	4309000.00,	220.67,	227.00,	0.00)	DC
	3RD HIGHEST VALUE IS	68.41574	AT (	405000.00,	4310000.00,	182.67,	182.67,	0.00)	DC
	4TH HIGHEST VALUE IS	67.91933	AT (	428000.00,	4308000.00,	190.00,	190.00,	0.00)	DC
	5TH HIGHEST VALUE IS	59.81553	AT (	429000.00,	4310000.00,	191.33,	233.00,	0.00)	DC
	6TH HIGHEST VALUE IS	59.13328	AT (	427463.31,	4308287.00,	168.54,	168.54,	0.00)	DC
	7TH HIGHEST VALUE IS	58.46242	AT (	427363.31,	4308487.00,	172.00,	172.00,	0.00)	DC
	8TH HIGHEST VALUE IS	58.24492	AT (	427563.31,	4308087.00,	189.39,	189.39,	0.00)	DC
	9TH HIGHEST VALUE IS	56.53035	AT (	427363.31,	4308387.00,	170.00,	170.00,	0.00)	DC
	10TH HIGHEST VALUE IS	56.31143	AT (	427463.31,	4308187.00,	170.14,	191.00,	0.00)	DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 09:12:13 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO2A.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_91_SO2A.LST

   Met File - c:\FINALAMPGS\1991\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
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*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	150.81233 AT	(428000.00, 4309000.00, 192.00, 192.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	92.82372 AT	(429000.00, 4309000.00, 220.67, 227.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	70.31344 AT	(428000.00, 4308000.00, 190.00, 190.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	64.79936 AT	(405000.00, 4310000.00, 182.67, 182.67, 0.00)	DC	
	5TH HIGHEST VALUE IS	59.71943 AT	(427563.31, 4308087.00, 189.39, 189.39, 0.00)	DC	
	6TH HIGHEST VALUE IS	58.76242 AT	(427463.31, 4308287.00, 168.54, 168.54, 0.00)	DC	
	7TH HIGHEST VALUE IS	56.97268 AT	(427463.31, 4308187.00, 170.14, 191.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	54.73757 AT	(429000.00, 4310000.00, 191.33, 233.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	54.55403 AT	(427463.31, 4308087.00, 178.36, 191.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	54.42389 AT	(427363.31, 4308487.00, 172.00, 172.00, 0.00)	DC	

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*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/04/06 at 23:03:29 ***
 Input File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO2A.DTA

Output File - C:\FINALAMPGS\InteractiveSO2\InteractiveSO2_92_SO2A.LST

   Met File - c:\FINALAMPGS\1992\met.SFC

      Number of sources -         27
Number of source groups -          1
    Number of receptors -      14464
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
AMPB001	0	0.98152E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
AMPB002	0	0.98152E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
OU	0	0.17100E+03	403990.0	4351290.0	264.4	45.72	455.37	6.34	2.67	NO	NO	
GAVB001	0	0.24192E+03	403000.0	4310000.0	191.1	91.44	422.04	26.82	3.35	NO	NO	
GAVB003	0	0.11144E+05	403260.0	4309910.0	179.7	252.98	324.82	16.17	12.80	NO	NO	
GAVB004	0	0.11144E+05	403330.0	4310040.0	178.0	252.98	324.82	16.17	12.80	NO	NO	
OHVAL	0	0.95569E+04	402240.0	4305060.0	174.0	304.80	449.82	33.50	8.94	NO	NO	
AEPMUS1	0	0.75296E+02	441640.0	4382370.0	198.7	40.84	616.48	28.96	2.13	NO	NO	
AEPMUS2	0	0.80437E+04	441640.0	4382370.0	198.0	252.37	441.48	34.47	7.62	NO	NO	
AEPMUS3	0	0.53146E+04	441060.0	4382120.0	231.3	252.37	416.48	21.73	7.62	NO	NO	
CAWV1	0	0.17615E+01	428300.0	4308600.0	194.0	12.19	310.93	6.57	0.25	NO	NO	
CAWV2	0	0.57870E+02	428300.0	4308600.0	194.0	11.58	293.15	8.24	1.30	NO	NO	
CAWV3	0	0.42990E+01	428300.0	4308600.0	194.0	6.10	310.93	2.59	0.15	NO	NO	
CAWV4	0	0.25161E+02	428300.0	4308600.0	194.0	16.15	338.71	17.55	0.59	NO	NO	
APKAN	0	0.78623E+03	463000.0	4228600.0	187.8	99.36	430.93	14.34	6.00	NO	NO	
APMTN	0	0.22710E+04	419000.0	4314700.0	200.6	335.28	430.93	31.00	9.22	NO	NO	
APSP1	0	0.19963E+04	420000.0	4313500.0	172.7	183.49	437.59	45.03	4.59	NO	NO	
APSP2	0	0.26429E+04	420000.0	4313500.0	172.7	182.88	417.59	28.56	6.55	NO	NO	
PLEAS1	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	29.11	6.10	NO	NO	
PLEAS2	0	0.94423E+03	488800.0	4357400.0	260.5	304.80	338.71	8.84	11.06	NO	NO	
WILL1	0	0.21058E+03	474100.0	4357400.0	203.4	48.77	469.26	9.04	4.24	NO	NO	
WILL2	0	0.54601E+03	474100.0	4357400.0	203.4	65.84	463.71	27.31	4.57	NO	NO	
AMOS	0	0.52367E+04	428200.0	4258400.0	177.0	275.23	428.71	32.79	10.06	NO	NO	
DUWW1	0	0.62690E+02	442200.0	4346700.0	189.0	45.72	493.71	10.57	1.83	NO	NO	
DUWW2	0	0.10693E+03	442200.0	4346700.0	189.0	45.72	439.82	9.91	2.29	NO	NO	
DUWW3	0	0.20604E+03	442200.0	4346700.0	189.0	45.72	457.59	13.60	2.74	NO	NO	
DUWW4	0	0.21483E+02	442200.0	4346700.0	189.0	27.43	355.37	1.40	1.52	NO	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs

```
 ALL       AMPB001 , AMPB002 , OU      , GAVB001 , GAVB003 , GAVB004 , OHVAL   , AEPMUS1 , AEPMUS2 , AEPMUS3 , CAWV1   , CAWV2   ,
           CAWV3   , CAWV4   , APKAN   , APMTN   , APSP1   , APSP2   , PLEAS1  , PLEAS2  , WILL1   , WILL2   , AMOS    , DUWW1   ,
           DUWW2   , DUWW3   , DUWW4   ,
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*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	123.93934 AT (	428000.00,	4309000.00,	192.00,	192.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	82.05299 AT (	429000.00,	4309000.00,	220.67,	227.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	74.26139 AT (	428000.00,	4308000.00,	190.00,	190.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	63.69471 AT (	405000.00,	4310000.00,	182.67,	182.67,	0.00)	DC	
	5TH HIGHEST VALUE IS	58.44543 AT (	427563.31,	4308087.00,	189.39,	189.39,	0.00)	DC	
	6TH HIGHEST VALUE IS	57.42943 AT (	427463.31,	4308287.00,	168.54,	168.54,	0.00)	DC	
	7TH HIGHEST VALUE IS	55.35123 AT (	427463.31,	4308187.00,	170.14,	191.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	55.02124 AT (	427363.31,	4308487.00,	172.00,	172.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	53.79441 AT (	427563.31,	4307987.00,	189.55,	189.55,	0.00)	DC	
	10TH HIGHEST VALUE IS	53.78565 AT (	427363.31,	4308387.00,	170.00,	170.00,	0.00)	DC	

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR  3-HR VALUES >= A THRESHOLD OF    1300.
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
3	ALL	88040515	405000.00000	4310000.00000	182.67	182.67	0.00	1374.78674
3	ALL	88051318	405000.00000	4310000.00000	182.67	182.67	0.00	1571.63000
3	ALL	88052806	429000.00000	4309000.00000	220.67	227.00	0.00	3847.73657
3	ALL	88062215	405000.00000	4310000.00000	182.67	182.67	0.00	1315.42810
3	ALL	88070903	427363.31250	4307987.00000	181.47	181.47	0.00	1323.74561
3	ALL	88070903	427463.31250	4307987.00000	184.09	184.09	0.00	1543.25330
3	ALL	88070903	427563.31250	4307987.00000	189.55	189.55	0.00	1572.53906
3	ALL	88070903	427463.31250	4308087.00000	178.36	191.00	0.00	1367.64746
3	ALL	88070903	427563.31250	4308087.00000	189.39	189.39	0.00	1986.64160
3	ALL	88072424	428000.00000	4309000.00000	192.00	192.00	0.00	1493.16638
3	ALL	88072703	426763.31250	4309287.00000	173.00	259.00	0.00	1516.19080
3	ALL	88072703	426563.31250	4309387.00000	184.72	259.00	0.00	1489.35632
3	ALL	88072703	426663.31250	4309387.00000	180.51	259.00	0.00	1743.26746
3	ALL	88072703	426463.31250	4309487.00000	183.49	259.00	0.00	1582.11316
3	ALL	88072703	426563.31250	4309487.00000	201.21	259.00	0.00	2378.75073
3	ALL	88072703	426263.31250	4309587.00000	186.74	259.00	0.00	1454.49561
3	ALL	88072703	426363.31250	4309587.00000	175.32	260.00	0.00	1528.66638
3	ALL	88072703	426463.31250	4309587.00000	198.70	259.00	0.00	2286.48584
3	ALL	88072703	426163.31250	4309687.00000	175.94	260.00	0.00	1383.35315
3	ALL	88072703	426263.31250	4309687.00000	173.81	260.00	0.00	1506.32581
3	ALL	88072703	426363.31250	4309687.00000	195.63	259.00	0.00	1988.98572
3	ALL	88072703	425963.31250	4309787.00000	206.04	260.00	0.00	1677.88879
3	ALL	88072703	426063.31250	4309787.00000	171.28	260.00	0.00	1344.59167
3	ALL	88072703	426163.31250	4309787.00000	178.92	260.00	0.00	1510.07129
3	ALL	88072703	426263.31250	4309787.00000	180.28	260.00	0.00	1564.59631
3	ALL	88072703	425863.31250	4309887.00000	217.16	260.00	0.00	1651.89893
3	ALL	88072703	425963.31250	4309887.00000	191.12	260.00	0.00	1518.69275
3	ALL	88072703	426063.31250	4309887.00000	171.31	260.00	0.00	1355.80945
3	ALL	88072703	426163.31250	4309887.00000	195.92	260.00	0.00	1686.65137
3	ALL	88072703	425763.31250	4309987.00000	226.75	260.00	0.00	1412.50159
3	ALL	88072703	425863.31250	4309987.00000	215.73	260.00	0.00	1802.86169
3	ALL	88072703	425963.31250	4309987.00000	195.47	260.00	0.00	1543.88391
3	ALL	88072903	427063.31250	4308887.00000	171.00	250.00	0.00	1368.49109
3	ALL	88072903	426863.31250	4308987.00000	171.00	250.00	0.00	1401.19934
3	ALL	88072903	426963.31250	4308987.00000	171.00	250.00	0.00	1678.28699
3	ALL	88072903	426563.31250	4309087.00000	199.31	250.00	0.00	1547.11426
3	ALL	88072903	426663.31250	4309087.00000	176.66	251.00	0.00	1417.58679
3	ALL	88072903	426763.31250	4309087.00000	168.37	251.00	0.00	1516.87659
3	ALL	88072903	426863.31250	4309087.00000	171.00	251.00	0.00	1725.24500
3	ALL	88072903	426963.31250	4309087.00000	171.00	250.00	0.00	1876.43396
3	ALL	88072903	426563.31250	4309187.00000	208.69	250.00	0.00	2110.96851
3	ALL	88072903	426663.31250	4309187.00000	182.11	251.00	0.00	1650.23254
3	ALL	88072903	426763.31250	4309187.00000	172.60	251.00	0.00	1588.27783
3	ALL	88072903	426863.31250	4309187.00000	169.03	251.00	0.00	1566.60535
3	ALL	88072903	426263.31250	4309287.00000	200.91	250.00	0.00	1706.75110
3	ALL	88072903	426363.31250	4309287.00000	215.05	250.00	0.00	1772.95911
3	ALL	88072903	426463.31250	4309287.00000	203.58	250.00	0.00	1985.75769
3	ALL	88072903	426563.31250	4309287.00000	189.00	251.00	0.00	1541.20947
3	ALL	88072903	426663.31250	4309287.00000	176.11	259.00	0.00	1367.13574
3	ALL	88072903	425863.31250	4309387.00000	201.85	247.00	0.00	1322.83508
3	ALL	88072903	425963.31250	4309387.00000	200.00	247.00	0.00	1419.24902
3	ALL	88072903	426063.31250	4309387.00000	201.08	238.00	0.00	1553.55701
3	ALL	88072903	426263.31250	4309387.00000	192.37	251.00	0.00	1339.31677
3	ALL	88072903	425863.31250	4309487.00000	210.73	247.00	0.00	1443.59521
3	ALL	88072903	425963.31250	4309487.00000	205.07	247.00	0.00	1475.72217
3	ALL	88072903	426063.31250	4309487.00000	215.33	227.00	0.00	1336.46375
3	ALL	88072903	426163.31250	4309487.00000	210.37	227.00	0.00	1330.32458
3	ALL	88080924	429000.00000	4309000.00000	220.67	227.00	0.00	1351.81995
3	ALL	88081606	428000.00000	4309000.00000	192.00	192.00	0.00	1514.19629
3	ALL	88091024	428000.00000	4309000.00000	192.00	192.00	0.00	2570.99268
3	ALL	88101703	429000.00000	4309000.00000	220.67	227.00	0.00	1463.00928
3	ALL	88111418	429000.00000	4309000.00000	220.67	227.00	0.00	1609.74451
3	ALL	88121218	428000.00000	4309000.00000	192.00	192.00	0.00	1303.99915

```
* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR  3-HR VALUES >= A THRESHOLD OF    1300.
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
3	ALL	89011118	428000.00000	4309000.00000	192.00	192.00	0.00	1764.11316
3	ALL	89011906	429000.00000	4309000.00000	220.67	227.00	0.00	1464.52393
3	ALL	89042515	405000.00000	4310000.00000	182.67	182.67	0.00	1547.54834
3	ALL	89050403	428000.00000	4309000.00000	192.00	192.00	0.00	1465.40234
3	ALL	89052415	405000.00000	4310000.00000	182.67	182.67	0.00	1417.47131
3	ALL	89060112	405000.00000	4310000.00000	182.67	182.67	0.00	1611.00745
3	ALL	89060115	405000.00000	4310000.00000	182.67	182.67	0.00	1808.16565
3	ALL	89060215	405000.00000	4310000.00000	182.67	182.67	0.00	1711.60217
3	ALL	89060221	428000.00000	4309000.00000	192.00	192.00	0.00	3732.55884
3	ALL	89060224	428000.00000	4309000.00000	192.00	192.00	0.00	4020.55273
3	ALL	89061721	429000.00000	4309000.00000	220.67	227.00	0.00	1432.88245
3	ALL	89062124	428000.00000	4309000.00000	192.00	192.00	0.00	2471.58374
3	ALL	89062221	428000.00000	4308000.00000	190.00	190.00	0.00	2290.37817
3	ALL	89062321	427563.31250	4307987.00000	189.55	189.55	0.00	1411.40247
3	ALL	89062321	427563.31250	4308087.00000	189.39	189.39	0.00	1557.18933
3	ALL	89062406	428163.31250	4306387.00000	195.85	195.85	0.00	1397.40198
3	ALL	89062406	428263.31250	4306387.00000	196.37	196.37	0.00	1461.93506
3	ALL	89062406	428163.31250	4306487.00000	196.33	200.00	0.00	1486.90417
3	ALL	89062406	428263.31250	4306487.00000	198.53	198.53	0.00	1661.18689
3	ALL	89062406	428163.31250	4306587.00000	192.67	192.67	0.00	1417.93787
3	ALL	89062406	428263.31250	4306587.00000	194.66	194.66	0.00	1502.71741
3	ALL	89062406	428163.31250	4306687.00000	190.70	190.70	0.00	1465.21155
3	ALL	89062406	428163.31250	4306787.00000	190.55	190.55	0.00	1537.46094
3	ALL	89062503	427863.31250	4307387.00000	193.00	193.00	0.00	1323.40833
3	ALL	89062503	428000.00000	4308000.00000	190.00	190.00	0.00	1578.10193
3	ALL	89070912	405000.00000	4310000.00000	182.67	182.67	0.00	1496.85632
3	ALL	89070915	405000.00000	4310000.00000	182.67	182.67	0.00	1353.23584
3	ALL	89071224	428000.00000	4309000.00000	192.00	192.00	0.00	1838.57336
3	ALL	89071403	427763.31250	4307587.00000	192.00	192.00	0.00	1480.52673
3	ALL	89071403	427763.31250	4307687.00000	191.00	191.00	0.00	1451.44836
3	ALL	89071403	428000.00000	4308000.00000	190.00	190.00	0.00	2146.30737
3	ALL	89072021	427563.31250	4307787.00000	180.97	180.97	0.00	1312.87122
3	ALL	89072021	427563.31250	4307887.00000	187.15	188.00	0.00	1527.39697
3	ALL	89072021	427663.31250	4307887.00000	180.91	187.00	0.00	1508.74207
3	ALL	89073021	428000.00000	4309000.00000	192.00	192.00	0.00	3472.51880
3	ALL	89080206	428000.00000	4309000.00000	192.00	192.00	0.00	1494.62903
3	ALL	89080224	428000.00000	4309000.00000	192.00	192.00	0.00	2337.89136
3	ALL	89080315	405000.00000	4310000.00000	182.67	182.67	0.00	1549.15173
3	ALL	89081021	427563.31250	4308087.00000	189.39	189.39	0.00	1532.98157
3	ALL	89081503	427463.31250	4307887.00000	186.34	186.34	0.00	1304.81409
3	ALL	89081503	427563.31250	4307887.00000	187.15	188.00	0.00	1624.82751
3	ALL	89081503	427663.31250	4307887.00000	180.91	187.00	0.00	1365.40466
3	ALL	89081503	427563.31250	4307987.00000	189.55	189.55	0.00	1542.03552
3	ALL	89081703	429000.00000	4309000.00000	220.67	227.00	0.00	1618.13953
3	ALL	89081824	428000.00000	4308000.00000	190.00	190.00	0.00	1444.22314
3	ALL	89082215	405000.00000	4310000.00000	182.67	182.67	0.00	1377.70667
3	ALL	89082424	428000.00000	4309000.00000	192.00	192.00	0.00	1443.53552
3	ALL	89082903	428000.00000	4309000.00000	192.00	192.00	0.00	2365.20679
3	ALL	89083106	429000.00000	4309000.00000	220.67	227.00	0.00	1304.47766
3	ALL	89083124	428000.00000	4309000.00000	192.00	192.00	0.00	3166.91870
3	ALL	89090703	426263.31250	4308387.00000	208.82	226.00	0.00	1347.05774
3	ALL	89090703	426363.31250	4308387.00000	211.55	218.00	0.00	1410.76697
3	ALL	89090703	426963.31250	4308387.00000	171.00	171.00	0.00	1348.32239
3	ALL	89090703	427063.31250	4308387.00000	171.16	171.16	0.00	1400.92688
3	ALL	89090703	427163.31250	4308387.00000	171.26	171.26	0.00	1431.77502
3	ALL	89090703	427263.31250	4308387.00000	171.00	171.00	0.00	1427.32874
3	ALL	89090703	427363.31250	4308387.00000	170.00	170.00	0.00	1371.33093
3	ALL	89090703	426963.31250	4308487.00000	171.00	250.00	0.00	1352.59485
3	ALL	89090703	427063.31250	4308487.00000	171.00	171.00	0.00	1517.89160
3	ALL	89090703	427163.31250	4308487.00000	170.67	170.67	0.00	1707.56921
3	ALL	89090703	427263.31250	4308487.00000	171.27	171.27	0.00	1928.43115
3	ALL	89090703	427363.31250	4308487.00000	172.00	172.00	0.00	2176.72632
3	ALL	89090721	428000.00000	4309000.00000	192.00	192.00	0.00	1692.32214

3	ALL	89090821	428000.00000	4309000.00000	192.00	192.00	0.00	1511.60645
3	ALL	89090903	428000.00000	4310000.00000	184.59	184.59	0.00	1529.05664
3	ALL	89091121	427063.31250	4307687.00000	174.94	174.94	0.00	1310.42847
3	ALL	89091121	427063.31250	4307787.00000	173.55	173.55	0.00	1434.49670
3	ALL	89091121	427163.31250	4307787.00000	178.42	178.42	0.00	1573.45276
3	ALL	89091121	427263.31250	4307787.00000	184.31	184.31	0.00	1532.10010
3	ALL	89091121	427163.31250	4307887.00000	177.53	179.00	0.00	1579.20349
3	ALL	89091121	427263.31250	4307887.00000	181.97	181.97	0.00	1884.56409
3	ALL	89091121	427363.31250	4307887.00000	184.63	184.63	0.00	1891.53870
3	ALL	89091121	427463.31250	4307887.00000	186.34	186.34	0.00	1544.72205
3	ALL	89091121	427263.31250	4307987.00000	177.78	177.78	0.00	1617.00305
3	ALL	89091121	427363.31250	4307987.00000	181.47	181.47	0.00	2112.10791
3	ALL	89091121	427463.31250	4307987.00000	184.09	184.09	0.00	2307.99243
3	ALL	89091121	427563.31250	4307987.00000	189.55	189.55	0.00	2111.98877
3	ALL	89091121	427363.31250	4308087.00000	172.82	172.82	0.00	1497.64734
3	ALL	89091121	427463.31250	4308087.00000	178.36	191.00	0.00	2216.80591
3	ALL	89091121	427563.31250	4308087.00000	189.39	189.39	0.00	3069.30054
3	ALL	89091124	427263.31250	4307887.00000	181.97	181.97	0.00	1408.93347
3	ALL	89091124	427363.31250	4307887.00000	184.63	184.63	0.00	1497.60730
3	ALL	89091124	427463.31250	4307887.00000	186.34	186.34	0.00	1346.41211
3	ALL	89091124	427363.31250	4307987.00000	181.47	181.47	0.00	1569.01074
3	ALL	89091124	427463.31250	4307987.00000	184.09	184.09	0.00	1780.13074
3	ALL	89091124	427563.31250	4307987.00000	189.55	189.55	0.00	1790.54114
3	ALL	89091124	427463.31250	4308087.00000	178.36	191.00	0.00	1662.76526
3	ALL	89091124	427563.31250	4308087.00000	189.39	189.39	0.00	2330.23071
3	ALL	89091203	427463.31250	4307187.00000	187.15	188.00	0.00	1345.14709
3	ALL	89091203	427563.31250	4307187.00000	190.19	190.19	0.00	1321.29626
3	ALL	89091203	427463.31250	4307287.00000	189.48	189.48	0.00	1328.73743
3	ALL	89091203	427563.31250	4307287.00000	192.30	192.30	0.00	1591.61609
3	ALL	89091203	427563.31250	4307387.00000	194.00	194.00	0.00	1704.61389
3	ALL	89091203	427663.31250	4307387.00000	194.00	194.00	0.00	1695.55505
3	ALL	89091203	427563.31250	4307487.00000	192.19	192.19	0.00	1517.22864
3	ALL	89091203	427663.31250	4307487.00000	192.33	192.33	0.00	1950.14685
3	ALL	89091203	427763.31250	4307487.00000	191.26	191.26	0.00	1561.77576
3	ALL	89091203	427663.31250	4307587.00000	192.16	192.16	0.00	1965.13635
3	ALL	89091203	427763.31250	4307587.00000	192.00	192.00	0.00	2100.65356
3	ALL	89091203	427663.31250	4307687.00000	189.72	189.72	0.00	1556.16150
3	ALL	89091203	427763.31250	4307687.00000	191.00	191.00	0.00	2385.72876
3	ALL	89091203	428000.00000	4308000.00000	190.00	190.00	0.00	3430.48950
3	ALL	89092103	427263.31250	4307587.00000	184.73	184.73	0.00	1514.06091
3	ALL	89092103	427263.31250	4307687.00000	185.17	185.17	0.00	1441.96106
3	ALL	89092103	427363.31250	4307687.00000	178.88	184.00	0.00	1568.79456
3	ALL	89092103	427463.31250	4307687.00000	180.48	193.00	0.00	1411.07361
3	ALL	89092103	427363.31250	4307787.00000	181.92	181.92	0.00	1499.23035
3	ALL	89092103	427463.31250	4307787.00000	178.62	185.00	0.00	1771.52771
3	ALL	89092103	427563.31250	4307787.00000	180.97	180.97	0.00	1579.06189
3	ALL	89092103	427463.31250	4307887.00000	186.34	186.34	0.00	1754.43469
3	ALL	89092103	427563.31250	4307887.00000	187.15	188.00	0.00	2286.88989
3	ALL	89092103	427663.31250	4307887.00000	180.91	187.00	0.00	1767.58704
3	ALL	89092103	427563.31250	4307987.00000	189.55	189.55	0.00	2040.89404
3	ALL	89092106	427563.31250	4306587.00000	190.89	190.89	0.00	1451.66272
3	ALL	89092106	427563.31250	4306687.00000	189.70	189.70	0.00	1486.04102
3	ALL	89092106	427663.31250	4306687.00000	190.63	190.63	0.00	1353.56921
3	ALL	89092106	427563.31250	4306787.00000	187.00	187.00	0.00	1419.02539
3	ALL	89092106	427663.31250	4306787.00000	189.47	189.47	0.00	1472.23889
3	ALL	89092106	427563.31250	4306887.00000	187.19	187.19	0.00	1359.99573
3	ALL	89092106	427663.31250	4306887.00000	188.87	188.87	0.00	1568.35950
3	ALL	89092106	427763.31250	4306887.00000	190.58	190.58	0.00	1325.70642
3	ALL	89092106	427663.31250	4306987.00000	185.52	192.00	0.00	1522.83447
3	ALL	89092106	427763.31250	4306987.00000	192.34	192.34	0.00	1600.74719
3	ALL	89092106	427663.31250	4307087.00000	188.76	188.76	0.00	1577.29980
3	ALL	89092106	427763.31250	4307087.00000	190.28	190.28	0.00	1702.06885
3	ALL	89092106	427663.31250	4307187.00000	190.00	190.00	0.00	1470.13525
3	ALL	89092106	427763.31250	4307187.00000	190.29	190.29	0.00	1821.49072
3	ALL	89092106	427863.31250	4307187.00000	185.41	192.00	0.00	1332.11816
3	ALL	89092106	427763.31250	4307287.00000	193.00	193.00	0.00	1981.63916
3	ALL	89092106	427863.31250	4307287.00000	190.88	190.88	0.00	1746.81897
3	ALL	89092106	427763.31250	4307387.00000	193.00	193.00	0.00	1830.40271
3	ALL	89092106	427863.31250	4307387.00000	193.00	193.00	0.00	2094.18872
3	ALL	89092106	427763.31250	4307487.00000	191.26	191.26	0.00	1415.55762
3	ALL	89092106	427863.31250	4307487.00000	191.19	191.19	0.00	2060.01147

3	ALL	89100215	405000.00000	4310000.00000	182.67	182.67	0.00	1448.84875
3	ALL	89102518	427063.31250	4307887.00000	171.84	174.00	0.00	1347.29077
3	ALL	89102518	427163.31250	4307887.00000	177.53	179.00	0.00	1310.91760
3	ALL	89102518	427163.31250	4307987.00000	172.98	175.00	0.00	1528.18494
3	ALL	89102518	427263.31250	4307987.00000	177.78	177.78	0.00	1647.15442
3	ALL	89102518	427363.31250	4307987.00000	181.47	181.47	0.00	1500.43359
3	ALL	89102518	427263.31250	4308087.00000	171.39	171.39	0.00	1568.08435
3	ALL	89102518	427363.31250	4308087.00000	172.82	172.82	0.00	1899.28894
3	ALL	89102518	427463.31250	4308087.00000	178.36	191.00	0.00	1965.78174
3	ALL	89102518	427563.31250	4308087.00000	189.39	189.39	0.00	1804.11902
3	ALL	89102518	427363.31250	4308187.00000	169.35	169.35	0.00	1390.85925
3	ALL	89102518	427463.31250	4308187.00000	170.14	191.00	0.00	2004.63538
3	ALL	89102521	427063.31250	4308587.00000	171.00	248.00	0.00	1346.27588
3	ALL	89102521	427163.31250	4308587.00000	171.00	171.00	0.00	1446.80969
3	ALL	89102521	427263.31250	4308587.00000	172.88	172.88	0.00	1558.22253
3	ALL	89103018	428000.00000	4309000.00000	192.00	192.00	0.00	3961.20312
3	ALL	89110324	426263.31250	4308787.00000	220.19	250.00	0.00	1360.72241
3	ALL	89110324	425963.31250	4308887.00000	226.15	228.00	0.00	1315.10510
3	ALL	89110324	426063.31250	4308887.00000	227.30	227.30	0.00	1320.73792
3	ALL	89110324	426163.31250	4308887.00000	221.69	250.00	0.00	1370.25977
3	ALL	89110324	426263.31250	4308887.00000	227.49	250.00	0.00	1355.73193
3	ALL	89120915	409000.00000	4307000.00000	185.90	212.00	0.00	1300.88989

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR  3-HR VALUES >= A THRESHOLD OF    1300.
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
3	ALL	90012506	428000.00000	4309000.00000	192.00	192.00	0.00	1774.97620
3	ALL	90031003	429000.00000	4309000.00000	220.67	227.00	0.00	1605.00330
3	ALL	90031403	428000.00000	4309000.00000	192.00	192.00	0.00	1468.04871
3	ALL	90042524	428000.00000	4309000.00000	192.00	192.00	0.00	1955.94287
3	ALL	90042603	429000.00000	4309000.00000	220.67	227.00	0.00	1337.27710
3	ALL	90050815	405000.00000	4310000.00000	182.67	182.67	0.00	1301.89929
3	ALL	90053003	429000.00000	4309000.00000	220.67	227.00	0.00	1828.68701
3	ALL	90060815	405000.00000	4310000.00000	182.67	182.67	0.00	1486.66956
3	ALL	90061003	427563.31250	4307887.00000	187.15	188.00	0.00	1304.21667
3	ALL	90061003	427563.31250	4307987.00000	189.55	189.55	0.00	1312.10962
3	ALL	90061524	428000.00000	4309000.00000	192.00	192.00	0.00	2309.84985
3	ALL	90062115	405000.00000	4310000.00000	182.67	182.67	0.00	1852.58191
3	ALL	90062621	429000.00000	4309000.00000	220.67	227.00	0.00	1419.61829
3	ALL	90063015	405000.00000	4310000.00000	182.67	182.67	0.00	1627.90662
3	ALL	90070403	428000.00000	4309000.00000	192.00	192.00	0.00	3881.41113
3	ALL	90070518	405000.00000	4310000.00000	182.67	182.67	0.00	1382.52344
3	ALL	90071824	428000.00000	4309000.00000	192.00	192.00	0.00	3274.04761
3	ALL	90072003	428000.00000	4309000.00000	192.00	192.00	0.00	3019.18042
3	ALL	90072721	427463.31250	4308287.00000	168.54	168.54	0.00	1335.83594
3	ALL	90072724	427563.31250	4307587.00000	192.22	193.00	0.00	1413.58948
3	ALL	90072724	427563.31250	4307687.00000	183.14	191.00	0.00	1331.29626
3	ALL	90072724	427663.31250	4307687.00000	189.72	189.72	0.00	1529.45508
3	ALL	90072724	427663.31250	4307787.00000	183.06	183.06	0.00	1580.33728
3	ALL	90072724	427663.31250	4307887.00000	180.91	187.00	0.00	1345.70227
3	ALL	90072806	426363.31250	4308187.00000	203.39	227.00	0.00	1363.40088
3	ALL	90072806	426863.31250	4308287.00000	171.00	171.00	0.00	1321.23096
3	ALL	90072806	426963.31250	4308287.00000	171.00	171.00	0.00	1325.09644
3	ALL	90072806	426963.31250	4308387.00000	171.00	171.00	0.00	1372.84033
3	ALL	90072806	427063.31250	4308387.00000	171.16	171.16	0.00	1490.15967
3	ALL	90072806	427163.31250	4308387.00000	171.26	171.26	0.00	1593.73157
3	ALL	90072806	427263.31250	4308387.00000	171.00	171.00	0.00	1664.96033
3	ALL	90072806	427363.31250	4308387.00000	170.00	170.00	0.00	1676.52600
3	ALL	90072806	427363.31250	4308487.00000	172.00	172.00	0.00	1465.72498
3	ALL	90072824	427363.31250	4308087.00000	172.82	172.82	0.00	1304.61731
3	ALL	90072824	427463.31250	4308087.00000	178.36	191.00	0.00	1495.52942
3	ALL	90072824	427563.31250	4308087.00000	189.39	189.39	0.00	1599.10876
3	ALL	90072824	427463.31250	4308187.00000	170.14	191.00	0.00	1350.13757
3	ALL	90080224	428000.00000	4309000.00000	192.00	192.00	0.00	1533.49365
3	ALL	90081303	429000.00000	4309000.00000	220.67	227.00	0.00	1410.66943
3	ALL	90081624	429000.00000	4309000.00000	220.67	227.00	0.00	1508.86475
3	ALL	90081912	405000.00000	4310000.00000	182.67	182.67	0.00	1450.13928
3	ALL	90082521	428000.00000	4309000.00000	192.00	192.00	0.00	1534.49719
3	ALL	90082815	405000.00000	4310000.00000	182.67	182.67	0.00	1787.40723
3	ALL	90090115	405000.00000	4310000.00000	182.67	182.67	0.00	1468.55481
3	ALL	90090206	428000.00000	4310000.00000	184.59	184.59	0.00	1462.66003
3	ALL	90090215	405000.00000	4310000.00000	182.67	182.67	0.00	1553.97314
3	ALL	90090421	428000.00000	4309000.00000	192.00	192.00	0.00	2801.33887
3	ALL	90090521	428000.00000	4309000.00000	192.00	192.00	0.00	3054.26538
3	ALL	90090703	429000.00000	4310000.00000	191.33	233.00	0.00	1625.69373
3	ALL	90090903	428000.00000	4309000.00000	192.00	192.00	0.00	1698.87939
3	ALL	90091006	427363.31250	4308487.00000	172.00	172.00	0.00	1410.39099
3	ALL	90091103	427263.31250	4308187.00000	171.00	171.00	0.00	1319.58057
3	ALL	90091103	427363.31250	4308187.00000	169.35	169.35	0.00	1427.58289
3	ALL	90091103	427463.31250	4308187.00000	170.14	191.00	0.00	1437.28577
3	ALL	90091103	427363.31250	4308287.00000	169.31	169.31	0.00	1373.99915
3	ALL	90091103	427463.31250	4308287.00000	168.54	168.54	0.00	1687.02014
3	ALL	90091324	428000.00000	4309000.00000	192.00	192.00	0.00	4147.54834
3	ALL	90100106	429000.00000	4309000.00000	220.67	227.00	0.00	1375.71289
3	ALL	90101906	429000.00000	4309000.00000	220.67	227.00	0.00	1421.91016
3	ALL	90121715	395000.00000	4320000.00000	253.83	268.20	0.00	1364.08374
3	ALL	90122021	428000.00000	4309000.00000	192.00	192.00	0.00	1925.99109

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                                DRYDPL
WETDPL
*         MAXI-FILE FOR  3-HR VALUES >= A THRESHOLD OF    1300.
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
3	ALL	91032515	405000.00000	4310000.00000	182.67	182.67	0.00	1413.99658
3	ALL	91040724	429000.00000	4310000.00000	191.33	233.00	0.00	1588.83643
3	ALL	91050424	428000.00000	4309000.00000	192.00	192.00	0.00	1585.05774
3	ALL	91050506	428000.00000	4309000.00000	192.00	192.00	0.00	1557.80212
3	ALL	91051024	427263.31250	4308087.00000	171.39	171.39	0.00	1336.92371
3	ALL	91051024	427363.31250	4308087.00000	172.82	172.82	0.00	1381.81775
3	ALL	91051024	427463.31250	4308187.00000	170.14	191.00	0.00	1592.60779
3	ALL	91051024	426063.31250	4309187.00000	216.39	238.00	0.00	1514.25098
3	ALL	91051103	426263.31250	4308787.00000	220.19	250.00	0.00	1321.35217
3	ALL	91051103	426363.31250	4308787.00000	214.48	250.00	0.00	1397.99353
3	ALL	91051103	426163.31250	4308887.00000	221.69	250.00	0.00	1354.44763
3	ALL	91051103	426463.31250	4308887.00000	215.72	250.00	0.00	1453.30774
3	ALL	91051221	427563.31250	4308087.00000	189.39	189.39	0.00	1334.13928
3	ALL	91051221	427463.31250	4308187.00000	170.14	191.00	0.00	1362.17908
3	ALL	91053015	405000.00000	4310000.00000	182.67	182.67	0.00	1350.99268
3	ALL	91053106	428000.00000	4309000.00000	192.00	192.00	0.00	1457.02478
3	ALL	91053124	429000.00000	4309000.00000	220.67	227.00	0.00	1970.06921
3	ALL	91060203	427563.31250	4308087.00000	189.39	189.39	0.00	1476.61816
3	ALL	91060303	429000.00000	4309000.00000	220.67	227.00	0.00	1406.85339
3	ALL	91060721	427763.31250	4307687.00000	191.00	191.00	0.00	1428.52161
3	ALL	91060721	428000.00000	4308000.00000	190.00	190.00	0.00	2070.37695
3	ALL	91060724	428000.00000	4309000.00000	192.00	192.00	0.00	1397.03137
3	ALL	91061806	429000.00000	4308000.00000	197.00	197.00	0.00	1752.31628
3	ALL	91062024	428000.00000	4309000.00000	192.00	192.00	0.00	2876.57397
3	ALL	91062106	428000.00000	4309000.00000	192.00	192.00	0.00	4539.81543
3	ALL	91062724	429000.00000	4309000.00000	220.67	227.00	0.00	1351.21680
3	ALL	91062806	427263.31250	4308387.00000	171.00	171.00	0.00	1403.79602
3	ALL	91062806	427363.31250	4308387.00000	170.00	170.00	0.00	1553.84277
3	ALL	91063003	429000.00000	4309000.00000	220.67	227.00	0.00	1435.10437
3	ALL	91063018	405000.00000	4310000.00000	182.67	182.67	0.00	1383.04236
3	ALL	91070715	405000.00000	4310000.00000	182.67	182.67	0.00	1712.39661
3	ALL	91071312	405000.00000	4310000.00000	182.67	182.67	0.00	1410.26428
3	ALL	91071315	405000.00000	4310000.00000	182.67	182.67	0.00	1583.19543
3	ALL	91071806	428000.00000	4309000.00000	192.00	192.00	0.00	1579.72693
3	ALL	91071824	428000.00000	4309000.00000	192.00	192.00	0.00	1681.12256
3	ALL	91072006	428000.00000	4309000.00000	192.00	192.00	0.00	2598.68188
3	ALL	91072218	405000.00000	4310000.00000	182.67	182.67	0.00	1596.80322
3	ALL	91072524	428000.00000	4309000.00000	192.00	192.00	0.00	2571.67065
3	ALL	91080124	427263.31250	4308587.00000	172.88	172.88	0.00	1438.07776
3	ALL	91080203	428000.00000	4309000.00000	192.00	192.00	0.00	2195.06494
3	ALL	91080318	405000.00000	4310000.00000	182.67	182.67	0.00	1529.36182
3	ALL	91081524	428000.00000	4309000.00000	192.00	192.00	0.00	1370.72986
3	ALL	91081912	405000.00000	4310000.00000	182.67	182.67	0.00	1305.01941
3	ALL	91082124	428000.00000	4309000.00000	192.00	192.00	0.00	1838.03699
3	ALL	91082406	427663.31250	4307587.00000	192.16	192.16	0.00	1430.50769
3	ALL	91082406	427663.31250	4307687.00000	189.72	189.72	0.00	1401.22571
3	ALL	91082406	427763.31250	4307687.00000	191.00	191.00	0.00	1606.21594
3	ALL	91082406	427363.31250	4308187.00000	169.35	169.35	0.00	1369.40979
3	ALL	91082406	427463.31250	4308187.00000	170.14	191.00	0.00	1610.18787
3	ALL	91082406	428000.00000	4308000.00000	190.00	190.00	0.00	2223.83838
3	ALL	91082703	428000.00000	4309000.00000	192.00	192.00	0.00	1346.65637
3	ALL	91082724	428000.00000	4309000.00000	192.00	192.00	0.00	2268.86743
3	ALL	91082724	429000.00000	4309000.00000	220.67	227.00	0.00	1775.73633
3	ALL	91082803	428000.00000	4309000.00000	192.00	192.00	0.00	4142.48584
3	ALL	91082803	429000.00000	4309000.00000	220.67	227.00	0.00	1758.49805
3	ALL	91082806	428000.00000	4309000.00000	192.00	192.00	0.00	4860.95947
3	ALL	91082906	428000.00000	4309000.00000	192.00	192.00	0.00	1884.37292
3	ALL	91090903	428000.00000	4309000.00000	192.00	192.00	0.00	1774.10022
3	ALL	91091503	428000.00000	4309000.00000	192.00	192.00	0.00	1371.32568
3	ALL	91091606	428000.00000	4309000.00000	192.00	192.00	0.00	1336.42371
3	ALL	91100203	428000.00000	4309000.00000	192.00	192.00	0.00	1551.90759
3	ALL	91110221	429000.00000	4309000.00000	220.67	227.00	0.00	1595.25452
3	ALL	91121009	429000.00000	4309000.00000	220.67	227.00	0.00	1418.02747
3	ALL	91121124	429000.00000	4309000.00000	220.67	227.00	0.00	1773.41797
3	ALL	91122303	428000.00000	4309000.00000	192.00	192.00	0.00	1312.22961

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR  3-HR VALUES >= A THRESHOLD OF    1300.
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
3	ALL	92011221	428000.00000	4309000.00000	192.00	192.00	0.00	1529.81995
3	ALL	92011506	429000.00000	4309000.00000	220.67	227.00	0.00	2040.71985
3	ALL	92021021	428000.00000	4309000.00000	192.00	192.00	0.00	1326.83521
3	ALL	92030421	428000.00000	4309000.00000	192.00	192.00	0.00	4196.79639
3	ALL	92042318	405000.00000	4310000.00000	182.67	182.67	0.00	1430.23083
3	ALL	92042415	405000.00000	4310000.00000	182.67	182.67	0.00	1479.49463
3	ALL	92042721	429000.00000	4309000.00000	220.67	227.00	0.00	1429.54138
3	ALL	92060703	428000.00000	4309000.00000	192.00	192.00	0.00	1349.32776
3	ALL	92062424	428000.00000	4309000.00000	192.00	192.00	0.00	2338.60620
3	ALL	92062524	428000.00000	4309000.00000	192.00	192.00	0.00	2172.34790
3	ALL	92070706	428000.00000	4309000.00000	192.00	192.00	0.00	1663.08142
3	ALL	92071106	429000.00000	4309000.00000	220.67	227.00	0.00	1318.36731
3	ALL	92071918	405000.00000	4310000.00000	182.67	182.67	0.00	1410.36621
3	ALL	92081324	427263.31250	4308387.00000	171.00	171.00	0.00	1354.94885
3	ALL	92081324	427363.31250	4308387.00000	170.00	170.00	0.00	1502.48010
3	ALL	92090506	428000.00000	4309000.00000	192.00	192.00	0.00	1569.13318
3	ALL	92090524	428000.00000	4309000.00000	192.00	192.00	0.00	1881.46838
3	ALL	92090703	426563.31250	4309087.00000	199.31	250.00	0.00	1354.73010
3	ALL	92090815	405000.00000	4310000.00000	182.67	182.67	0.00	1303.29688
3	ALL	92091606	428000.00000	4309000.00000	192.00	192.00	0.00	1350.20740
3	ALL	92091721	428000.00000	4309000.00000	192.00	192.00	0.00	3381.06567
3	ALL	92110118	395000.00000	4300000.00000	179.05	261.00	0.00	1372.96423
3	ALL	92110118	400000.00000	4305000.00000	200.00	242.00	0.00	1376.66406
3	ALL	92122824	428000.00000	4309000.00000	192.00	192.00	0.00	1538.53479

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR 24-HR VALUES >= A THRESHOLD OF    365.0
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
24	ALL	88040324	405000.00000	4315000.00000	209.67	249.00	0.00	411.21729
24	ALL	88051324	405000.00000	4310000.00000	182.67	182.67	0.00	370.66101
24	ALL	88052824	429000.00000	4309000.00000	220.67	227.00	0.00	740.59869
24	ALL	88070224	428000.00000	4309000.00000	192.00	192.00	0.00	368.11121
24	ALL	88071424	405000.00000	4310000.00000	182.67	182.67	0.00	369.96277
24	ALL	88072924	426963.31250	4309087.00000	171.00	250.00	0.00	384.00259
24	ALL	88072924	426463.31250	4309287.00000	203.58	250.00	0.00	366.10376
24	ALL	88080824	428000.00000	4309000.00000	192.00	192.00	0.00	410.01599
24	ALL	88083024	428000.00000	4308000.00000	190.00	190.00	0.00	365.48383
24	ALL	88090924	428000.00000	4309000.00000	192.00	192.00	0.00	391.06918
24	ALL	88091024	428000.00000	4309000.00000	192.00	192.00	0.00	539.28436
24	ALL	88093024	428000.00000	4309000.00000	192.00	192.00	0.00	448.67542
24	ALL	88122224	428000.00000	4309000.00000	192.00	192.00	0.00	417.59396

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR 24-HR VALUES >= A THRESHOLD OF    365.0
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
24	ALL	89010524	428000.00000	4309000.00000	192.00	192.00	0.00	410.66757
24	ALL	89011124	428000.00000	4309000.00000	192.00	192.00	0.00	479.04709
24	ALL	89011924	429000.00000	4309000.00000	220.67	227.00	0.00	441.34464
24	ALL	89021024	429000.00000	4309000.00000	220.67	227.00	0.00	468.98743
24	ALL	89021624	428000.00000	4308000.00000	190.00	190.00	0.00	387.48587
24	ALL	89021724	427563.31250	4308087.00000	189.39	189.39	0.00	367.77841
24	ALL	89021824	427563.31250	4308087.00000	189.39	189.39	0.00	367.14047
24	ALL	89022024	428000.00000	4309000.00000	192.00	192.00	0.00	427.46411
24	ALL	89060124	405000.00000	4310000.00000	182.67	182.67	0.00	545.17828
24	ALL	89060224	428000.00000	4309000.00000	192.00	192.00	0.00	1039.18909
24	ALL	89061824	428000.00000	4309000.00000	192.00	192.00	0.00	373.44601
24	ALL	89062124	428000.00000	4309000.00000	192.00	192.00	0.00	695.32184
24	ALL	89070324	428000.00000	4309000.00000	192.00	192.00	0.00	375.54172
24	ALL	89070924	405000.00000	4310000.00000	182.67	182.67	0.00	482.59244
24	ALL	89071024	429000.00000	4309000.00000	220.67	227.00	0.00	367.40988
24	ALL	89071024	405000.00000	4310000.00000	182.67	182.67	0.00	402.72708
24	ALL	89071224	428000.00000	4309000.00000	192.00	192.00	0.00	406.09290
24	ALL	89071424	428000.00000	4308000.00000	190.00	190.00	0.00	535.51953
24	ALL	89073024	428000.00000	4309000.00000	192.00	192.00	0.00	608.78339
24	ALL	89080224	428000.00000	4309000.00000	192.00	192.00	0.00	716.78802
24	ALL	89081324	428000.00000	4309000.00000	192.00	192.00	0.00	488.32797
24	ALL	89082424	428000.00000	4309000.00000	192.00	192.00	0.00	387.01825
24	ALL	89082824	428000.00000	4309000.00000	192.00	192.00	0.00	391.14929
24	ALL	89083124	428000.00000	4309000.00000	192.00	192.00	0.00	720.69556
24	ALL	89090524	428000.00000	4309000.00000	192.00	192.00	0.00	539.86810
24	ALL	89090724	428000.00000	4309000.00000	192.00	192.00	0.00	636.60870
24	ALL	89091124	427163.31250	4307787.00000	178.42	178.42	0.00	400.31155
24	ALL	89091124	427263.31250	4307787.00000	184.31	184.31	0.00	408.88879
24	ALL	89091124	427163.31250	4307887.00000	177.53	179.00	0.00	395.86588
24	ALL	89091124	427263.31250	4307887.00000	181.97	181.97	0.00	473.58997
24	ALL	89091124	427363.31250	4307887.00000	184.63	184.63	0.00	494.98315
24	ALL	89091124	427463.31250	4307887.00000	186.34	186.34	0.00	443.02695
24	ALL	89091124	427263.31250	4307987.00000	177.78	177.78	0.00	411.65659
24	ALL	89091124	427363.31250	4307987.00000	181.47	181.47	0.00	530.08514
24	ALL	89091124	427463.31250	4307987.00000	184.09	184.09	0.00	595.20538
24	ALL	89091124	427563.31250	4307987.00000	189.55	189.55	0.00	589.47620
24	ALL	89091124	427363.31250	4308087.00000	172.82	172.82	0.00	395.97012
24	ALL	89091124	427463.31250	4308087.00000	178.36	191.00	0.00	563.60132
24	ALL	89091124	427563.31250	4308087.00000	189.39	189.39	0.00	779.22937
24	ALL	89091124	428000.00000	4308000.00000	190.00	190.00	0.00	367.03506
24	ALL	89091224	427663.31250	4307487.00000	192.33	192.33	0.00	365.18686
24	ALL	89091224	427663.31250	4307587.00000	192.16	192.16	0.00	371.86627
24	ALL	89091224	427763.31250	4307587.00000	192.00	192.00	0.00	409.26306
24	ALL	89091224	427763.31250	4307687.00000	191.00	191.00	0.00	456.18225
24	ALL	89091224	428000.00000	4308000.00000	190.00	190.00	0.00	749.22430
24	ALL	89091324	428000.00000	4308000.00000	190.00	190.00	0.00	377.50052
24	ALL	89100724	429000.00000	4309000.00000	220.67	227.00	0.00	459.38034
24	ALL	89102524	427363.31250	4308087.00000	172.82	172.82	0.00	374.70975
24	ALL	89102524	427463.31250	4308087.00000	178.36	191.00	0.00	387.92831
24	ALL	89102524	427463.31250	4308187.00000	170.14	191.00	0.00	396.60425
24	ALL	89102624	428000.00000	4308000.00000	190.00	190.00	0.00	377.93417
24	ALL	89102724	426563.31250	4309187.00000	208.69	250.00	0.00	381.42737
24	ALL	89102724	426363.31250	4309287.00000	215.05	250.00	0.00	372.49371
24	ALL	89103024	428000.00000	4309000.00000	192.00	192.00	0.00	789.18378
24	ALL	89121724	426763.31250	4309287.00000	173.00	259.00	0.00	370.79822
24	ALL	89121724	426563.31250	4309387.00000	184.72	259.00	0.00	367.46240
24	ALL	89121724	426663.31250	4309387.00000	180.51	259.00	0.00	378.03433
24	ALL	89121724	426563.31250	4309487.00000	201.21	259.00	0.00	407.28470
24	ALL	89121724	426163.31250	4309587.00000	216.95	227.00	0.00	383.11578
24	ALL	89121724	426463.31250	4309587.00000	198.70	259.00	0.00	386.65137
24	ALL	89121724	425863.31250	4309787.00000	230.95	234.00	0.00	365.19592

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* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                          DRYDPL WETDPL
*         MAXI-FILE FOR 24-HR VALUES >= A THRESHOLD OF    365.0
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
24	ALL	90021224	428000.00000	4309000.00000	192.00	192.00	0.00	383.65997
24	ALL	90031424	428000.00000	4309000.00000	192.00	192.00	0.00	366.73502
24	ALL	90033024	428000.00000	4309000.00000	192.00	192.00	0.00	370.88879
24	ALL	90040124	429000.00000	4309000.00000	220.67	227.00	0.00	376.61108
24	ALL	90060824	405000.00000	4310000.00000	182.67	182.67	0.00	370.97525
24	ALL	90061524	428000.00000	4309000.00000	192.00	192.00	0.00	410.19403
24	ALL	90061824	405000.00000	4310000.00000	182.67	182.67	0.00	367.65393
24	ALL	90062124	405000.00000	4310000.00000	182.67	182.67	0.00	447.45743
24	ALL	90063024	405000.00000	4310000.00000	182.67	182.67	0.00	413.34143
24	ALL	90070424	428000.00000	4309000.00000	192.00	192.00	0.00	514.37701
24	ALL	90071824	428000.00000	4309000.00000	192.00	192.00	0.00	592.46118
24	ALL	90072024	428000.00000	4309000.00000	192.00	192.00	0.00	413.65994
24	ALL	90072724	427263.31250	4308187.00000	171.00	171.00	0.00	378.46658
24	ALL	90072724	427363.31250	4308187.00000	169.35	169.35	0.00	403.22269
24	ALL	90072724	427463.31250	4308187.00000	170.14	191.00	0.00	414.05597
24	ALL	90072724	427363.31250	4308287.00000	169.31	169.31	0.00	402.80603
24	ALL	90072724	427463.31250	4308287.00000	168.54	168.54	0.00	475.76297
24	ALL	90081924	428000.00000	4309000.00000	192.00	192.00	0.00	367.34567
24	ALL	90082824	405000.00000	4310000.00000	182.67	182.67	0.00	395.18372
24	ALL	90090124	405000.00000	4310000.00000	182.67	182.67	0.00	375.89450
24	ALL	90090424	428000.00000	4309000.00000	192.00	192.00	0.00	492.40668
24	ALL	90090524	428000.00000	4309000.00000	192.00	192.00	0.00	519.24408
24	ALL	90090624	429000.00000	4310000.00000	191.33	233.00	0.00	390.67648
24	ALL	90091224	428000.00000	4309000.00000	192.00	192.00	0.00	479.31723
24	ALL	90091324	428000.00000	4309000.00000	192.00	192.00	0.00	822.74518
24	ALL	90101324	429000.00000	4308000.00000	197.00	197.00	0.00	409.99075
24	ALL	90110124	428000.00000	4309000.00000	192.00	192.00	0.00	369.92117
24	ALL	90110424	428000.00000	4309000.00000	192.00	192.00	0.00	426.25824
24	ALL	90122024	428000.00000	4309000.00000	192.00	192.00	0.00	483.42346

```
* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                                DRYDPL WETDPL
*         MAXI-FILE FOR 24-HR VALUES >= A THRESHOLD OF    365.0
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
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*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
24	ALL	91012024	429000.00000	4309000.00000	220.67	227.00	0.00	376.02710
24	ALL	91042524	428000.00000	4309000.00000	192.00	192.00	0.00	375.22723
24	ALL	91042624	428000.00000	4309000.00000	192.00	192.00	0.00	379.66318
24	ALL	91051024	427463.31250	4308187.00000	170.14	191.00	0.00	391.49713
24	ALL	91051024	425863.31250	4309187.00000	217.02	237.00	0.00	365.80222
24	ALL	91051024	426063.31250	4309187.00000	216.39	238.00	0.00	456.36938
24	ALL	91051024	426263.31250	4309187.00000	209.71	250.00	0.00	409.46732
24	ALL	91051324	429000.00000	4309000.00000	220.67	227.00	0.00	398.89212
24	ALL	91052224	428000.00000	4309000.00000	192.00	192.00	0.00	390.86823
24	ALL	91052524	428000.00000	4309000.00000	192.00	192.00	0.00	474.98892
24	ALL	91052824	428000.00000	4309000.00000	192.00	192.00	0.00	446.28656
24	ALL	91053124	429000.00000	4309000.00000	220.67	227.00	0.00	400.43576
24	ALL	91060724	428000.00000	4308000.00000	190.00	190.00	0.00	466.30377
24	ALL	91062024	428000.00000	4309000.00000	192.00	192.00	0.00	606.47333
24	ALL	91062124	428000.00000	4309000.00000	192.00	192.00	0.00	781.69269
24	ALL	91062624	428000.00000	4309000.00000	192.00	192.00	0.00	501.11832
24	ALL	91062824	405000.00000	4310000.00000	182.67	182.67	0.00	455.53424
24	ALL	91063024	429000.00000	4309000.00000	220.67	227.00	0.00	396.57919
24	ALL	91070524	405000.00000	4310000.00000	182.67	182.67	0.00	395.23383
24	ALL	91070724	405000.00000	4310000.00000	182.67	182.67	0.00	505.01224
24	ALL	91071124	428000.00000	4309000.00000	192.00	192.00	0.00	407.98541
24	ALL	91071324	405000.00000	4310000.00000	182.67	182.67	0.00	459.41745
24	ALL	91071824	428000.00000	4309000.00000	192.00	192.00	0.00	515.90997
24	ALL	91072024	428000.00000	4309000.00000	192.00	192.00	0.00	435.23755
24	ALL	91072224	405000.00000	4310000.00000	182.67	182.67	0.00	434.14606
24	ALL	91072524	428000.00000	4309000.00000	192.00	192.00	0.00	406.04739
24	ALL	91080124	428000.00000	4309000.00000	192.00	192.00	0.00	424.10605
24	ALL	91080224	428000.00000	4309000.00000	192.00	192.00	0.00	491.38654
24	ALL	91080324	405000.00000	4310000.00000	182.67	182.67	0.00	371.08560
24	ALL	91081624	428000.00000	4309000.00000	192.00	192.00	0.00	371.55185
24	ALL	91082224	428000.00000	4309000.00000	192.00	192.00	0.00	396.14282
24	ALL	91082424	427763.31250	4307687.00000	191.00	191.00	0.00	391.33810
24	ALL	91082424	428000.00000	4308000.00000	190.00	190.00	0.00	571.44043
24	ALL	91082724	428000.00000	4309000.00000	192.00	192.00	0.00	731.84772
24	ALL	91082824	428000.00000	4309000.00000	192.00	192.00	0.00	1242.61194
24	ALL	91082924	428000.00000	4309000.00000	192.00	192.00	0.00	372.20114
24	ALL	91090924	428000.00000	4309000.00000	192.00	192.00	0.00	387.67056
24	ALL	91100224	428000.00000	4309000.00000	192.00	192.00	0.00	371.84705
24	ALL	91102224	428000.00000	4309000.00000	192.00	192.00	0.00	383.65970
24	ALL	91110524	428000.00000	4309000.00000	192.00	192.00	0.00	389.05569
24	ALL	91122524	429000.00000	4309000.00000	220.67	227.00	0.00	396.48624

```
* AERMOD (04300): AMPGS
* MODELING OPTIONS USED:
*  CONC                        DFAULT ELEV                                                DRYDPL WETDPL
*         MAXI-FILE FOR 24-HR VALUES >= A THRESHOLD OF    365.0
*         FOR SOURCE GROUP: ALL
*         FORMAT: (1X,I3,1X,A8,1X,I8.8,2(1X,F13.5),3(1X,F7.2),1X,F13.5)
```

*AVE	GRP	DATE	X	Y	ZELEV	ZHILL	ZFLAG	AVERAGE CONC
24	ALL	92011224	428000.00000	4309000.00000	192.00	192.00	0.00	387.71915
24	ALL	92013024	429000.00000	4309000.00000	220.67	227.00	0.00	369.07202
24	ALL	92020624	428000.00000	4308000.00000	190.00	190.00	0.00	372.16629
24	ALL	92030424	428000.00000	4309000.00000	192.00	192.00	0.00	632.22302
24	ALL	92030524	428000.00000	4309000.00000	192.00	192.00	0.00	435.08698
24	ALL	92052224	428000.00000	4309000.00000	192.00	192.00	0.00	373.62286
24	ALL	92052324	405000.00000	4310000.00000	182.67	182.67	0.00	384.33411
24	ALL	92070724	428000.00000	4309000.00000	192.00	192.00	0.00	452.74506
24	ALL	92090524	428000.00000	4309000.00000	192.00	192.00	0.00	656.17511
24	ALL	92090624	428000.00000	4309000.00000	192.00	192.00	0.00	466.28644
24	ALL	92090624	405000.00000	4310000.00000	182.67	182.67	0.00	393.01508
24	ALL	92091724	428000.00000	4309000.00000	192.00	192.00	0.00	588.69574
24	ALL	92100224	428000.00000	4309000.00000	192.00	192.00	0.00	424.37296
24	ALL	92101124	429000.00000	4309000.00000	220.67	227.00	0.00	368.82187
24	ALL	92103124	395000.00000	4305000.00000	237.67	268.00	0.00	381.24506
24	ALL	92110824	428000.00000	4309000.00000	192.00	192.00	0.00	373.91058
24	ALL	92120124	428000.00000	4309000.00000	192.00	192.00	0.00	405.21671
24	ALL	92121424	428000.00000	4309000.00000	192.00	192.00	0.00	481.95200
24	ALL	92122824	428000.00000	4309000.00000	192.00	192.00	0.00	462.42871

APPENDIX D

AMPGS Annual NO_x AERMOD Input/Output Files

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 18:11:38 ***
 Input File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_88_NOX.DTA

Output File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_88_NOX.LST

   Met File - C:\FINALAMPGS\1988\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.52289E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.52289E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.35909E+00	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.10773E+00	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.89736 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.89210 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.88784 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.88629 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.88606 AT	(421863.31, 4306987.00, 184.61, 220.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.88034 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.87491 AT	(421863.31, 4307087.00, 185.57, 223.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.87340 AT	(422063.31, 4307187.00, 195.97, 224.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.87303 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.86783 AT	(421863.31, 4306887.00, 194.00, 194.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 19:45:06 ***
 Input File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_89_NOX.DTA

Output File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_89_NOX.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.52289E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.52289E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.35909E+00	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.10773E+00	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.80247 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.79842 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.79285 AT	(422263.31, 4306687.00, 218.41, 223.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.79246 AT	(422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.79146 AT	(422242.91, 4306616.50, 224.82, 224.82, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.79096 AT	(422263.31, 4306787.00, 208.62, 223.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.79083 AT	(422263.31, 4306887.00, 198.84, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.79081 AT	(422342.41, 4306610.50, 221.23, 221.23, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.78826 AT	(422163.31, 4306687.00, 218.58, 218.58, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.78799 AT	(422143.31, 4306623.00, 222.55, 224.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 21:19:11 ***
 Input File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_90_NOX.DTA

Output File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_90_NOX.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.52289E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.52289E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.35909E+00	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.10773E+00	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.98946 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.98711 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.98310 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.98180 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.98081 AT	(421863.31, 4306987.00, 184.61, 220.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.97864 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.97055 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.96867 AT	(421863.31, 4307087.00, 185.57, 223.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.96758 AT	(422063.31, 4306887.00, 194.30, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.96706 AT	(421963.31, 4306787.00, 189.53, 225.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 22:51:45 ***
 Input File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_91_NOX.DTA

Output File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_91_NOX.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.52289E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.52289E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.35909E+00	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.10773E+00	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.85379 AT	(422242.91, 4306616.50, 224.82, 224.82, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.85333 AT	(422363.31, 4306687.00, 214.04, 224.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.85318 AT	(422342.41, 4306610.50, 221.23, 221.23, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.85224 AT	(422263.31, 4306687.00, 218.41, 223.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.84770 AT	(422143.31, 4306623.00, 222.55, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.84387 AT	(422163.31, 4306687.00, 218.58, 218.58, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.84316 AT	(422363.31, 4306787.00, 210.77, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.84292 AT	(422442.00, 4306604.50, 219.18, 219.18, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.84129 AT	(422263.31, 4306787.00, 208.62, 223.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.83979 AT	(422463.31, 4306687.00, 221.45, 221.45, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/02/06 at 00:23:19 ***
 Input File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_92_NOX.DTA

Output File - C:\FINALAMPGS\NOx Only\ClassIIAnalysis_AMPGS_92_NOX.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.52289E+02	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.52289E+02	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.35909E+00	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.10773E+00	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.87337 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.86940 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.86326 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.86004 AT	(422063.31, 4306887.00, 194.30, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.85849 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.85849 AT	(421963.31, 4306787.00, 189.53, 225.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.85731 AT	(422163.31, 4306887.00, 197.81, 223.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.85410 AT	(422263.31, 4306687.00, 218.41, 223.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.85407 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.85365 AT	(422163.31, 4306687.00, 218.58, 218.58, 0.00)	DC	

APPENDIX E

AMPGS 24-Hr PM_{10} AERMOD Input/Output Files
AMPGS Annual PM_{10} AERMOD Input/Output Files

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 18:54:22 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_88_PART1024.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_88_PART1024.LST

   Met File - c:\FINALAMPGS\1988\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.62999E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.10080E-01	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART1024 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	2.76606c	ON 88072924:	AT (420073.38, 4305982.50, 184.22, 184.22, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	2.37655c	ON 88122624:	AT (420073.38, 4305982.50, 184.22, 184.22, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:01:41 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_89_PART1024.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_89_PART1024.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.62999E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.10080E-01	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART1024 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	3.04346c	ON 89121724:	AT (420138.12, 4306094.00, 183.52, 183.52, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	2.62465	ON 89011724:	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:10:07 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_90_PART1024.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_90_PART1024.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.62999E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.10080E-01	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART1024 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	3.26922c	ON 90100524:	AT (421546.00, 4306588.50, 199.37, 201.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	2.92866	ON 90120924:	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:21:06 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_91_PART1024.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_91_PART1024.LST

   Met File - c:\FINALAMPGS\1991\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.62999E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.10080E-01	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART1024 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	3.45717c	ON 91051024:	AT (420073.38, 4305982.50, 184.22, 184.22, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	2.43347	ON 91021324:	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:39:18 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_92_PART1024.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_92_PART1024.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.62999E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.10080E-01	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART1024 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	2.56625	ON 92012724:	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	2.27232c	ON 92073024:	AT (421763.31, 4306787.00, 194.11, 194.11, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 18:58:06 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_88_PART10A.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_88_PART10A.LST

   Met File - c:\FINALAMPGS\1988\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.37799E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.11340E-02	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10A IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS 0.59596	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	
	2ND HIGHEST VALUE IS 0.58013	AT (421128.09, 4306399.50, 188.84, 188.84, 0.00)	DC	
	3RD HIGHEST VALUE IS 0.56378	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	
	4TH HIGHEST VALUE IS 0.54551	AT (421363.31, 4306387.00, 195.91, 195.91, 0.00)	DC	
	5TH HIGHEST VALUE IS 0.53081	AT (421263.31, 4306487.00, 195.78, 195.78, 0.00)	DC	
	6TH HIGHEST VALUE IS 0.52736	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	
	7TH HIGHEST VALUE IS 0.52459	AT (421419.09, 4306383.00, 195.22, 195.22, 0.00)	DC	
	8TH HIGHEST VALUE IS 0.52104	AT (421363.31, 4306487.00, 195.18, 195.18, 0.00)	DC	
	9TH HIGHEST VALUE IS 0.51279	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	
	10TH HIGHEST VALUE IS 0.51246	AT (421463.31, 4306387.00, 195.67, 195.67, 0.00)	DC	

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*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:05:09 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_89_PART10A.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_89_PART10A.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.37799E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.11340E-02	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10A IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS 0.64495	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	
	2ND HIGHEST VALUE IS 0.62605	AT (421128.09, 4306399.50, 188.84, 188.84, 0.00)	DC	
	3RD HIGHEST VALUE IS 0.60468	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	
	4TH HIGHEST VALUE IS 0.59841	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	
	5TH HIGHEST VALUE IS 0.57917	AT (421363.31, 4306387.00, 195.91, 195.91, 0.00)	DC	
	6TH HIGHEST VALUE IS 0.57562	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	
	7TH HIGHEST VALUE IS 0.56903	AT (421263.31, 4306487.00, 195.78, 195.78, 0.00)	DC	
	8TH HIGHEST VALUE IS 0.56009	AT (421419.09, 4306383.00, 195.22, 195.22, 0.00)	DC	
	9TH HIGHEST VALUE IS 0.55259	AT (421463.31, 4306387.00, 195.67, 195.67, 0.00)	DC	
	10TH HIGHEST VALUE IS 0.55083	AT (420926.31, 4306346.00, 187.23, 187.23, 0.00)	DC	

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*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:09:31 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_90_PART10A.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_90_PART10A.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.37799E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.11340E-02	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10A IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS 0.72975	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	
	2ND HIGHEST VALUE IS 0.72296	AT (421128.09, 4306399.50, 188.84, 188.84, 0.00)	DC	
	3RD HIGHEST VALUE IS 0.66978	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	
	4TH HIGHEST VALUE IS 0.66940	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	
	5TH HIGHEST VALUE IS 0.65285	AT (421263.31, 4306487.00, 195.78, 195.78, 0.00)	DC	
	6TH HIGHEST VALUE IS 0.65283	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	
	7TH HIGHEST VALUE IS 0.64526	AT (421363.31, 4306387.00, 195.91, 195.91, 0.00)	DC	
	8TH HIGHEST VALUE IS 0.63155	AT (421163.31, 4306487.00, 187.89, 187.89, 0.00)	DC	
	9TH HIGHEST VALUE IS 0.62777	AT (421363.31, 4306487.00, 195.18, 195.18, 0.00)	DC	
	10TH HIGHEST VALUE IS 0.61945	AT (421419.09, 4306383.00, 195.22, 195.22, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 19:29:55 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_91_PART10A.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_91_PART10A.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.37799E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.11340E-02	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10A IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS 0.66404	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	
	2ND HIGHEST VALUE IS 0.64529	AT (421128.09, 4306399.50, 188.84, 188.84, 0.00)	DC	
	3RD HIGHEST VALUE IS 0.63277	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	
	4TH HIGHEST VALUE IS 0.61461	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	
	5TH HIGHEST VALUE IS 0.60728	AT (420926.31, 4306346.00, 187.23, 187.23, 0.00)	DC	
	6TH HIGHEST VALUE IS 0.59874	AT (420863.31, 4306287.00, 189.29, 189.29, 0.00)	DC	
	7TH HIGHEST VALUE IS 0.58138	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	
	8TH HIGHEST VALUE IS 0.57242	AT (421263.31, 4306487.00, 195.78, 195.78, 0.00)	DC	
	9TH HIGHEST VALUE IS 0.56756	AT (421163.31, 4306487.00, 187.89, 187.89, 0.00)	DC	
	10TH HIGHEST VALUE IS 0.56729	AT (421363.31, 4306387.00, 195.91, 195.91, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/08/06 at 22:05:12 ***
 Input File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_92_PART10A.DTA

Output File - C:\FINALAMPGS\PM10\PM10may0806\PM10may0806_92_PART10A.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -         20
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
P003_S1	0	0.32633E-01	420705.3	4305793.5	188.7	65.00	324.82	15.49	0.25	YES	NO	
P003_S2	0	0.45359E+00	420717.0	4305790.5	188.7	65.00	324.82	15.74	1.01	YES	NO	
P003_S3	0	0.45359E-01	420729.1	4305788.0	188.3	65.00	294.26	15.44	0.59	YES	NO	
P902_S2	0	0.37799E-02	420404.3	4305739.0	190.3	3.66	294.26	5.75	0.91	NO	NO	
P902_S3	0	0.75599E-02	420667.1	4305886.0	185.7	47.24	294.26	10.78	0.91	YES	NO	
P902_S4	0	0.75599E-02	420679.7	4305886.0	187.0	47.24	294.26	10.78	0.91	YES	NO	
P902_S5	0	0.11340E-01	420666.1	4305875.0	186.2	38.10	294.26	1.44	0.91	YES	NO	
P902_S6	0	0.11340E-01	420680.7	4305874.5	187.8	38.10	294.26	1.44	0.91	YES	NO	
P902_S7	0	0.10836E+00	420927.8	4306024.5	181.2	64.01	294.26	14.37	0.91	YES	NO	
P902_S8	0	0.10836E+00	421008.3	4306003.5	181.9	64.01	294.26	14.37	0.91	YES	NO	
P903_S1	0	0.16380E-01	420718.7	4305798.0	189.1	32.00	294.26	8.62	0.46	YES	NO	
P903_S2	0	0.75599E-02	420707.3	4305801.0	189.1	36.58	294.26	4.31	0.46	YES	NO	
P903_S3	0	0.75599E-02	420731.5	4305795.5	188.7	36.58	294.26	4.31	0.46	YES	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
P903_F	0	0.11340E-02	420432.9	4305872.0	190.0	4.57	5.49	4.57	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
F001_F	0	0.55089E-07	421645.5	4305004.5	256.5	0.91	1432.56	670.56	3.00	0.00	NO	
F002_F1A	0	0.68378E-05	420925.5	4305712.5	184.5	0.91	563.88	7.32	15.00	0.00	NO	
F002_F1B	0	0.30118E-04	421471.0	4305573.0	207.1	0.91	7.32	128.02	35.00	0.00	NO	
F002_F1C	0	0.10285E-04	421553.5	4305675.0	204.9	0.91	7.32	374.90	163.00	0.00	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , P003_S1 , P003_S2 , P003_S3 , P902_S2 , P902_S3 , P902_S4 , P902_S5 , P902_S6 , P902_S7 , P902_S8 , P903_S1 , P903_S2 , P903_S3 , P903_F , F001_F , F002_F1A, F002_F1B, F002_F1C,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10A IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS 0.58477	AT (421225.09, 4306394.00, 194.34, 196.00, 0.00)	DC	
	2ND HIGHEST VALUE IS 0.56550	AT (421128.09, 4306399.50, 188.84, 188.84, 0.00)	DC	
	3RD HIGHEST VALUE IS 0.54313	AT (421322.09, 4306388.50, 197.05, 197.05, 0.00)	DC	
	4TH HIGHEST VALUE IS 0.53072	AT (420918.41, 4306280.50, 187.22, 187.22, 0.00)	DC	
	5TH HIGHEST VALUE IS 0.52797	AT (421363.31, 4306387.00, 195.91, 195.91, 0.00)	DC	
	6TH HIGHEST VALUE IS 0.51953	AT (421263.31, 4306487.00, 195.78, 195.78, 0.00)	DC	
	7TH HIGHEST VALUE IS 0.51485	AT (421419.09, 4306383.00, 195.22, 195.22, 0.00)	DC	
	8TH HIGHEST VALUE IS 0.50953	AT (421463.31, 4306387.00, 195.67, 195.67, 0.00)	DC	
	9TH HIGHEST VALUE IS 0.50630	AT (421363.31, 4306487.00, 195.18, 195.18, 0.00)	DC	
	10TH HIGHEST VALUE IS 0.50577	AT (421031.09, 4306405.50, 187.31, 187.31, 0.00)	DC	

APPENDIX F

AMPGS 1-Hr CO AERMOD Input/Output Files
AMPGS 8-Hr CO AERMOD Input/Output Files

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 13:23:48 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_88_CO.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_88_CO.LST

   Met File - C:\FINALAMPGS\1988\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464


                                          *** POINT SOURCE DATA ***


            NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING  URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SOURCE  SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  B001_S        0   0.10067E+03  420863.0 4305750.0   184.4   190.50   330.37    16.13     7.55      YES      NO
  B002_S        0   0.10067E+03  420940.0 4305729.0   186.0   190.50   330.37    16.13     7.55      YES      NO
  B003_S        0   0.15876E+01  420874.0 4305965.5   181.1    84.43   422.04    18.19     1.22      YES      NO
  P003_S1       0   0.47627E-01  420705.3 4305793.5   188.7    33.53   324.82    15.49     0.25      YES      NO


                                       *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID                                                SOURCE IDs


 ALL       B001_S  , B002_S  , B003_S  , P003_S1 ,


                                             *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***
                                       ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      50.09692  ON 88081813: AT (  420610.50,  4306727.00,    188.85,    188.85,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      46.98888  ON 88080215: AT (  420663.31,  4304687.00,    194.45,    194.45,      0.00)  DC


                                             *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                       ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      28.11061  ON 88062416: AT (  419963.31,  4304887.00,    186.67,    186.67,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      22.03226  ON 88032916: AT (  421663.31,  4306887.00,    193.63,    193.63,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                                      ***
*** Model Executed on 05/01/06 at 15:51:05 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_89_CO.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_89_CO.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464


                                                 *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING  URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.  EXIT VEL. DIAMETER   EXISTS   SOURCE  SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                       BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  B001_S        0   0.10067E+03  420863.0 4305750.0   184.4   190.50   330.37    16.13     7.55      YES      NO
  B002_S        0   0.10067E+03  420940.0 4305729.0   186.0   190.50   330.37    16.13     7.55      YES      NO
  B003_S        0   0.15876E+01  420874.0 4305965.5   181.1    84.43   422.04    18.19     1.22      YES      NO
  P003_S1       0   0.47627E-01  420705.3 4305793.5   188.7    33.53   324.82    15.49     0.25      YES      NO

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID                                                 SOURCE IDs



 ALL       B001_S  , B002_S  , B003_S  , P003_S1 ,


                                                *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***
                                        ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                       DATE                                                                 NETWORK
GROUP ID                         AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      57.04494  ON 89120913: AT (  424063.31,  4303887.00,    179.01,    184.00,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      46.89697  ON 89090713: AT (  421263.31,  4306787.00,    202.74,    202.74,      0.00)  DC


                                                *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                        ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                       DATE                                                                 NETWORK
GROUP ID                         AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      27.96635  ON 89092616: AT (  420863.31,  4304487.00,    190.38,    190.38,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      23.15952  ON 89062716: AT (  421763.31,  4306787.00,    194.11,    194.11,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 15:59:57 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_90_CO.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_90_CO.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464


                                          *** POINT SOURCE DATA ***


            NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BUILDING  URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER   EXISTS   SOURCE  SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                        BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  B001_S        0   0.10067E+03  420863.0 4305750.0   184.4   190.50   330.37    16.13     7.55      YES      NO
  B002_S        0   0.10067E+03  420940.0 4305729.0   186.0   190.50   330.37    16.13     7.55      YES      NO
  B003_S        0   0.15876E+01  420874.0 4305965.5   181.1    84.43   422.04    18.19     1.22      YES      NO
  P003_S1       0   0.47627E-01  420705.3 4305793.5   188.7    33.53   324.82    15.49     0.25      YES      NO


                                       *** SOURCE IDs DEFINING SOURCE GROUPS ***
GROUP ID                                                SOURCE IDs


 ALL       B001_S  , B002_S  , B003_S  , P003_S1 ,


                                             *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***
                                       ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      54.64220  ON 90030212: AT (  423863.31,  4304787.00,    199.48,    210.00,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      47.29623  ON 90071812: AT (  421063.31,  4306687.00,    189.45,    206.00,      0.00)  DC


                                             *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                       ** CONC OF CO       IN MICROGRAMS/M**3                          **

                                                   DATE                                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)     OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ALL      HIGH  1ST HIGH VALUE IS      26.71748  ON 90070716: AT (  419763.31,  4305187.00,    184.21,    184.21,      0.00)  DC
         HIGH  2ND HIGH VALUE IS      23.02062  ON 90071616: AT (  421745.09,  4306647.50,    197.67,    197.67,      0.00)  DC
```

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 16:04:00 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_91_CO.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_91_CO.LST

   Met File - C:\FINALAMPGS\1991\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10067E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10067E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.15876E+01	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.47627E-01	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	57.27064	ON 91061910:	AT (419163.31, 4308087.00, 218.89, 218.89, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	48.58660	ON 91061411:	AT (421263.31, 4306687.00, 192.81, 206.00, 0.00)	DC	

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	26.14992	ON 91071816:	AT (420963.31, 4306987.00, 187.57, 187.57, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	23.66836	ON 91052416:	AT (422043.69, 4306629.00, 219.86, 223.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/02/06 at 14:18:21 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_92_CO.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_92_CO.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          4
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10067E+03	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10067E+03	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	
B003_S	0	0.15876E+01	420874.0	4305965.5	181.1	84.43	422.04	18.19	1.22	YES	NO	
P003_S1	0	0.47627E-01	420705.3	4305793.5	188.7	33.53	324.82	15.49	0.25	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S , B003_S , P003_S1 ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	66.73946	ON 92102710:	AT (419663.31, 4307087.00, 203.42, 259.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	45.43799	ON 92061615:	AT (421363.31, 4306787.00, 200.05, 200.05, 0.00)	DC	

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	27.33385	ON 92083016:	AT (421863.31, 4306887.00, 194.00, 194.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	23.42124c	ON 92073016:	AT (421763.31, 4306787.00, 194.11, 194.11, 0.00)	DC	

APPENDIX G

AMPGS 1-Hr Air Toxics AERMOD Input/Output Files

*** AERMOD - VERSION 04300 ***
*** AMPGS ***
*** Model Executed on 05/01/06 at 16:30:50 ***
Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_88_TOXICS.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_88_TOXICS.LST

Met File - C:\FINALAMPGS\1988\met.SFC

Number of sources - 2
Number of source groups - 1
Number of receptors - 14464

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10000E+01	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10000E+01	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOXICS IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.47607	ON 88080214:	AT (419937.09, 4305181.00, 187.20, 205.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.45088	ON 88072913:	AT (420663.31, 4304587.00, 195.43, 203.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 18:58:22 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_89_TOXICS.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_89_TOXICS.LST

   Met File - C:\FINALAMPGS\1989\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10000E+01	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10000E+01	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOXICS IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.55771	ON 89120913:	AT (424063.31, 4303887.00, 179.01, 184.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.44549	ON 89072613:	AT (421345.31, 4304717.00, 207.84, 274.00, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/01/06 at 19:05:47 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_90_TOXICS.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_90_TOXICS.LST

   Met File - C:\FINALAMPGS\1990\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10000E+01	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10000E+01	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOXICS IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.53343	ON 90030212:	AT (423863.31, 4304787.00, 199.48, 210.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.45441	ON 90082014:	AT (420263.31, 4304887.00, 188.00, 188.00, 0.00)	DC	

*** AERMOD - VERSION 04300 ***
*** AMPGS ***
*** Model Executed on 05/01/06 at 19:09:09 ***
Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_91_TOXICS.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_91_TOXICS.LST

Met File - C:\FINALAMPGS\1991\met.SFC

Number of sources - 2
Number of source groups - 1
Number of receptors - 14464

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10000E+01	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10000E+01	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOXICS IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.55974	ON 91061910:	AT (419163.31, 4308187.00, 218.39, 218.39, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.45304	ON 91091511:	AT (420610.50, 4306727.00, 188.85, 188.85, 0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                                                     ***
*** Model Executed on 05/02/06 at 17:20:29 ***
 Input File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_92_TOXICS.DTA

Output File - C:\FINALAMPGS\ClassIIAnalysis_AMPGS_92_TOXICS.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          2
Number of source groups -          1
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001_S	0	0.10000E+01	420863.0	4305750.0	184.4	190.50	330.37	16.13	7.55	YES	NO	
B002_S	0	0.10000E+01	420940.0	4305729.0	186.0	190.50	330.37	16.13	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	B001_S , B002_S ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF TOXICS IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.65099	ON 92102710:	AT (419663.31, 4307087.00, 203.42, 259.00, 0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.43141	ON 92072216:	AT (420563.31, 4304587.00, 188.86, 204.00, 0.00)	DC	

APPENDIX H

AMPGS Alternative Load Analyses AERMOD Input/Output Files

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/13/06 at 08:21:01 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_89_SO23HR.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_89_SO23HR.LST

   Met File - c:\FINALAMPGS\1989\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.15699E+03	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.15699E+03	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.11781E+03	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.11781E+03	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.78497E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.78497E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO23HR IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				NETWORK OF TYPE GRID-ID
100%	HIGH	1ST HIGH VALUE IS	63.61668	ON 89072218: AT (	420763.31,	4306887.00,	185.96,	185.96,	0.00) DC
	HIGH	2ND HIGH VALUE IS	55.85978	ON 89092615: AT (	420863.31,	4304387.00,	180.74,	274.00,	0.00) DC
75%	HIGH	1ST HIGH VALUE IS	56.19309	ON 89072218: AT (	420763.31,	4306887.00,	185.96,	185.96,	0.00) DC
	HIGH	2ND HIGH VALUE IS	50.33214	ON 89062818: AT (	420863.31,	4304487.00,	190.38,	190.38,	0.00) DC
50%	HIGH	1ST HIGH VALUE IS	43.51375	ON 89072218: AT (	420763.31,	4306787.00,	189.00,	189.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	40.20910	ON 89092612: AT (	420863.31,	4304587.00,	191.67,	273.00,	0.00) DC
B001100	HIGH	1ST HIGH VALUE IS	32.08975	ON 89072218: AT (	420763.31,	4306887.00,	185.96,	185.96,	0.00) DC
	HIGH	2ND HIGH VALUE IS	27.78053	ON 89092615: AT (	420863.31,	4304487.00,	190.38,	190.38,	0.00) DC
B002100	HIGH	1ST HIGH VALUE IS	31.87511	ON 89072218: AT (	420863.31,	4306887.00,	188.71,	188.71,	0.00) DC
	HIGH	2ND HIGH VALUE IS	27.38351	ON 89062818: AT (	420863.31,	4304387.00,	180.74,	274.00,	0.00) DC
B00175	HIGH	1ST HIGH VALUE IS	28.39613	ON 89072218: AT (	420763.31,	4306887.00,	185.96,	185.96,	0.00) DC
	HIGH	2ND HIGH VALUE IS	24.98792	ON 89092612: AT (	420863.31,	4304487.00,	190.38,	190.38,	0.00) DC
B00275	HIGH	1ST HIGH VALUE IS	28.30983	ON 89072218: AT (	420863.31,	4306787.00,	192.00,	192.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	24.85320	ON 89092612: AT (	420963.31,	4304487.00,	190.00,	274.00,	0.00) DC
B00150	HIGH	1ST HIGH VALUE IS	22.08978	ON 89072218: AT (	420763.31,	4306787.00,	189.00,	189.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	20.34738	ON 89092612: AT (	420863.31,	4304587.00,	191.67,	273.00,	0.00) DC
B00250	HIGH	1ST HIGH VALUE IS	21.97969	ON 89072218: AT (	420863.31,	4306787.00,	192.00,	192.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	20.21540	ON 89092612: AT (	420963.31,	4304587.00,	191.15,	274.00,	0.00) DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/12/06 at 17:55:42 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_SO224HR.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_SO224HR.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.12033E+03	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.12033E+03	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.90214E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.90214E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.60227E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.60227E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO224HR IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				NETWORK OF TYPE GRID-ID
100%	HIGH	1ST HIGH VALUE IS	15.79246c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	12.36142c	ON 92070824: AT (	422363.31,	4306687.00,	214.04,	224.00,	0.00) DC
75%	HIGH	1ST HIGH VALUE IS	14.27021c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	10.77185c	ON 92070824: AT (	422363.31,	4306687.00,	214.04,	224.00,	0.00) DC
50%	HIGH	1ST HIGH VALUE IS	11.22089c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	8.35983	ON 92083024: AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00) DC
B001100	HIGH	1ST HIGH VALUE IS	7.95820c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	6.23404	ON 92070224: AT (	422143.31,	4306623.00,	222.55,	224.00,	0.00) DC
B002100	HIGH	1ST HIGH VALUE IS	7.83426c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	6.17662c	ON 92070824: AT (	422463.31,	4306687.00,	221.45,	221.45,	0.00) DC
B00175	HIGH	1ST HIGH VALUE IS	7.14414c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	5.48387	ON 92083024: AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00) DC
B00275	HIGH	1ST HIGH VALUE IS	7.12607c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	5.40199c	ON 92070824: AT (	422342.41,	4306610.50,	221.23,	221.23,	0.00) DC
B00150	HIGH	1ST HIGH VALUE IS	5.63669c	ON 92073024: AT (	421844.59,	4306641.00,	195.52,	224.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	4.42800	ON 92083024: AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00) DC
B00250	HIGH	1ST HIGH VALUE IS	5.61534c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00) DC
	HIGH	2ND HIGH VALUE IS	4.10962c	ON 92100324: AT (	420963.31,	4306887.00,	187.28,	187.28,	0.00) DC

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/12/06 at 20:01:33 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_SO2A.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_SO2A.LST

   Met File - c:\FINALAMPGS\1990\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.98152E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.98152E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.73583E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.73583E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.49139E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.49139E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
100%	1ST HIGHEST VALUE IS	1.71756 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	1.70264 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	1.69628 AT (	422263.31,	4306987.00,	185.82,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	1.69153 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	1.68954 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	1.68793 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	1.67423 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	1.66141 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	1.66060 AT (	422163.31,	4307087.00,	202.38,	224.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	1.65947 AT (	422163.31,	4306887.00,	197.81,	223.00,	0.00)	DC	
75%	1ST HIGHEST VALUE IS	1.60969 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	1.60648 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	1.60337 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	1.60187 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	1.59113 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	1.59099 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	1.58944 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	1.58485 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	1.58174 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	1.56738 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
50%	1ST HIGHEST VALUE IS	1.34371 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	1.33978 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	1.33258 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	1.33183 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	1.33037 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	1.32834 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	

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         7TH HIGHEST VALUE IS       1.32790 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         8TH HIGHEST VALUE IS       1.31527 AT (  421863.31,  4306787.00,    195.51,    223.00,      0.00)  DC
         9TH HIGHEST VALUE IS       1.31185 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       1.31139 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC


                                  *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***

                                ** CONC OF SO2A     IN MICROGRAMS/M**3                          **

                                                                                              NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

B001100  1ST HIGHEST VALUE IS       0.87825 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.87491 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.87207 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.87109 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.87095 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.85986 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.85733 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.85573 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.85547 AT (  422163.31,  4307087.00,    202.38,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.85295 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC

B002100  1ST HIGHEST VALUE IS       0.83931 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.83642 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.82773 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.82127 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.81947 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.81859 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.81758 AT (  422163.31,  4306887.00,    197.81,    223.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.81685 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.81090 AT (  422263.31,  4306887.00,    198.84,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.81030 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC

B00175   1ST HIGHEST VALUE IS       0.84196 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.83819 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.83663 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.83507 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.83288 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.83181 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.82522 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.81729 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.81689 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.81645 AT (  421863.31,  4306887.00,    194.00,    194.00,      0.00)  DC
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*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF SO2A IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
B00275	1ST HIGHEST VALUE IS	0.77050 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.76979 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.76829 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.76773 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.76524 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.76486 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.76422 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.76127 AT (	422263.31,	4306987.00,	185.82,	228.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.75918 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.75607 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
B00150	1ST HIGHEST VALUE IS	0.71343 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.70817 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.70463 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.70437 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.70221 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.70112 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.70100 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.69355 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.69226 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.68887 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
B00250	1ST HIGHEST VALUE IS	0.63903 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.63161 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.63028 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.62963 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.62822 AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.62721 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.62640 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.62574 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.62450 AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.62354 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	

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*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/12/06 at 22:07:49 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_NOX.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_NOX.LST

   Met File - c:\FINALAMPGS\1990\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.45737E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.45737E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.34271E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.34271E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.22932E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.22932E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
100%	1ST HIGHEST VALUE IS	0.80035 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.79340 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.79043 AT	(422263.31, 4306987.00, 185.82, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.78822 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.78729 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.78655 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.78016 AT	(422063.31, 4306887.00, 194.30, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.77419 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.77381 AT	(422163.31, 4307087.00, 202.38, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.77328 AT	(422163.31, 4306887.00, 197.81, 223.00, 0.00)	DC	
75%	1ST HIGHEST VALUE IS	0.74972 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.74823 AT	(422063.31, 4306987.00, 181.67, 228.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.74678 AT	(422163.31, 4306987.00, 184.70, 228.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.74608 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.74108 AT	(422063.31, 4307087.00, 191.52, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.74101 AT	(421863.31, 4306987.00, 184.61, 220.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.74029 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.73815 AT	(421963.31, 4306787.00, 189.53, 225.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.73670 AT	(422063.31, 4306887.00, 194.30, 224.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.73001 AT	(421863.31, 4306887.00, 194.00, 194.00, 0.00)	DC	
50%	1ST HIGHEST VALUE IS	0.62706 AT	(421963.31, 4306987.00, 182.56, 224.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.62523 AT	(421863.31, 4306987.00, 184.61, 220.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.62187 AT	(421963.31, 4306787.00, 189.53, 225.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.62152 AT	(421963.31, 4306887.00, 193.78, 224.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.62084 AT	(421963.31, 4307087.00, 186.61, 224.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.61989 AT	(421863.31, 4306887.00, 194.00, 194.00, 0.00)	DC	

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         7TH HIGHEST VALUE IS       0.61969 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.61379 AT (  421863.31,  4306787.00,    195.51,    223.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.61220 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.61198 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC


                                  *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***

                                ** CONC OF NOX      IN MICROGRAMS/M**3                          **

                                                                                            NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

B001100  1ST HIGHEST VALUE IS       0.40925 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.40769 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.40637 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.40591 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.40585 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.40068 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.39950 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.39875 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.39864 AT (  422163.31,  4307087.00,    202.38,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.39746 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC

B002100  1ST HIGHEST VALUE IS       0.39110 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.38976 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.38571 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.38270 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.38186 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.38145 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.38098 AT (  422163.31,  4306887.00,    197.81,    223.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.38064 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.37786 AT (  422263.31,  4306887.00,    198.84,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.37759 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC

B00175   1ST HIGHEST VALUE IS       0.39215 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.39039 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.38966 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.38894 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.38791 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.38742 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.38435 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.38066 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.38047 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.38026 AT (  421863.31,  4306887.00,    194.00,    194.00,      0.00)  DC
```

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
B00275	1ST HIGHEST VALUE IS	0.35887 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.35853 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.35784 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.35758 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.35642 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.35624 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.35594 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.35457 AT (	422263.31,	4306987.00,	185.82,	228.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.35359 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.35214 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
B00150	1ST HIGHEST VALUE IS	0.33293 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.33048 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.32883 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.32870 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.32770 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.32719 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.32713 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.32366 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.32305 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.32147 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
B00250	1ST HIGHEST VALUE IS	0.29821 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.29475 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.29413 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.29382 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.29317 AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.29270 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.29232 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.29201 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.29143 AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.29099 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/13/06 at 00:09:01 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_PART10.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_PART10.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.12222E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.12222E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.81899E+01	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.81899E+01	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PART10 IN MICROGRAMS/M**3 **

GROUP ID GRID-ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE
100%	HIGH	1ST HIGH VALUE IS	2.13322c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	1.66976c	ON 92070824: AT (	422363.31,	4306687.00,	214.04,	224.00,	0.00)	DC
75%	HIGH	1ST HIGH VALUE IS	1.93325c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	1.45931c	ON 92070824: AT (	422363.31,	4306687.00,	214.04,	224.00,	0.00)	DC
50%	HIGH	1ST HIGH VALUE IS	1.52585c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	1.13680	ON 92083024: AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC
B001100	HIGH	1ST HIGH VALUE IS	1.07498c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.84209	ON 92070224: AT (	422143.31,	4306623.00,	222.55,	224.00,	0.00)	DC
B002100	HIGH	1ST HIGH VALUE IS	1.05824c	ON 92073024: AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.83433c	ON 92070824: AT (	422463.31,	4306687.00,	221.45,	221.45,	0.00)	DC
B00175	HIGH	1ST HIGH VALUE IS	0.96785c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.74293	ON 92083024: AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC
B00275	HIGH	1ST HIGH VALUE IS	0.96540c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.73183c	ON 92070824: AT (	422342.41,	4306610.50,	221.23,	221.23,	0.00)	DC
B00150	HIGH	1ST HIGH VALUE IS	0.76650c	ON 92073024: AT (	421844.59,	4306641.00,	195.52,	224.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.60213	ON 92083024: AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC
B00250	HIGH	1ST HIGH VALUE IS	0.76359c	ON 92073024: AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	0.55884c	ON 92100324: AT (	420963.31,	4306887.00,	187.28,	187.28,	0.00)	DC

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*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/13/06 at 00:13:58 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_PART10.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_90_PART10.LST

   Met File - c:\FINALAMPGS\1990\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.16254E+02	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.16254E+02	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.12222E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.12222E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.81899E+01	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.81899E+01	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
100%	1ST HIGHEST VALUE IS	0.28442 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.28195 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.28090 AT (	422263.31,	4306987.00,	185.82,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.28011 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.27978 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.27952 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.27725 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.27512 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.27499 AT (	422163.31,	4307087.00,	202.38,	224.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.27480 AT (	422163.31,	4306887.00,	197.81,	223.00,	0.00)	DC	
75%	1ST HIGHEST VALUE IS	0.26736 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.26683 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.26631 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.26606 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.26428 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.26426 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.26400 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.26324 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.26272 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.26033 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
50%	1ST HIGHEST VALUE IS	0.22395 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.22330 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.22210 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.22197 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.22173 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.22139 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	

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         7TH HIGHEST VALUE IS       0.22132 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.21921 AT (  421863.31,  4306787.00,    195.51,    223.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.21864 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.21857 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC


                                   *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS) RESULTS ***

                                 ** CONC OF PART10   IN MICROGRAMS/M**3                          **

                                                                                              NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

B001100  1ST HIGHEST VALUE IS       0.14544 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.14488 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.14441 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.14425 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.14423 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.14239 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.14197 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.14171 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.14166 AT (  422163.31,  4307087.00,    202.38,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.14125 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC

B002100  1ST HIGHEST VALUE IS       0.13899 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.13851 AT (  422263.31,  4306987.00,    185.82,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.13707 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.13600 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.13570 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.13556 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.13539 AT (  422163.31,  4306887.00,    197.81,    223.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.13527 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.13428 AT (  422263.31,  4306887.00,    198.84,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.13418 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC

B00175   1ST HIGHEST VALUE IS       0.13985 AT (  421963.31,  4306987.00,    182.56,    224.00,      0.00)  DC
         2ND HIGHEST VALUE IS       0.13922 AT (  422063.31,  4306987.00,    181.67,    228.00,      0.00)  DC
         3RD HIGHEST VALUE IS       0.13896 AT (  421963.31,  4307087.00,    186.61,    224.00,      0.00)  DC
         4TH HIGHEST VALUE IS       0.13870 AT (  422063.31,  4307087.00,    191.52,    224.00,      0.00)  DC
         5TH HIGHEST VALUE IS       0.13834 AT (  422163.31,  4306987.00,    184.70,    228.00,      0.00)  DC
         6TH HIGHEST VALUE IS       0.13816 AT (  421863.31,  4306987.00,    184.61,    220.00,      0.00)  DC
         7TH HIGHEST VALUE IS       0.13707 AT (  421963.31,  4306887.00,    193.78,    224.00,      0.00)  DC
         8TH HIGHEST VALUE IS       0.13575 AT (  422063.31,  4307187.00,    195.97,    224.00,      0.00)  DC
         9TH HIGHEST VALUE IS       0.13568 AT (  422063.31,  4306887.00,    194.30,    224.00,      0.00)  DC
        10TH HIGHEST VALUE IS       0.13561 AT (  421863.31,  4306887.00,    194.00,    194.00,      0.00)  DC
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*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF PART10 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE	GRID-ID
B00275	1ST HIGHEST VALUE IS	0.12798 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.12786 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.12761 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.12752 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.12710 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.12704 AT (	422063.31,	4306887.00,	194.30,	224.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.12693 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.12644 AT (	422263.31,	4306987.00,	185.82,	228.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.12610 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.12558 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
B00150	1ST HIGHEST VALUE IS	0.11890 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.11803 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.11744 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.11739 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.11704 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.11685 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.11683 AT (	422063.31,	4307087.00,	191.52,	224.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.11559 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.11538 AT (	422163.31,	4306987.00,	184.70,	228.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.11481 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
B00250	1ST HIGHEST VALUE IS	0.10651 AT (	421963.31,	4306787.00,	189.53,	225.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.10527 AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.10505 AT (	421963.31,	4306987.00,	182.56,	224.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.10494 AT (	421963.31,	4306887.00,	193.78,	224.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.10470 AT (	421963.31,	4306687.00,	193.68,	225.00,	0.00)	DC	
	6TH HIGHEST VALUE IS	0.10454 AT (	421863.31,	4306887.00,	194.00,	194.00,	0.00)	DC	
	7TH HIGHEST VALUE IS	0.10440 AT (	421863.31,	4306787.00,	195.51,	223.00,	0.00)	DC	
	8TH HIGHEST VALUE IS	0.10429 AT (	421963.31,	4307087.00,	186.61,	224.00,	0.00)	DC	
	9TH HIGHEST VALUE IS	0.10408 AT (	421944.19,	4306635.00,	193.19,	226.00,	0.00)	DC	
	10TH HIGHEST VALUE IS	0.10392 AT (	422063.31,	4306987.00,	181.67,	228.00,	0.00)	DC	

```
*** AERMOD - VERSION 04300 ***
*** AMPGS                                                          ***
*** Model Executed on 05/13/06 at 02:14:24 ***
 Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_CO.DTA

Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_92_CO.LST

   Met File - C:\FINALAMPGS\1992\met.SFC

      Number of sources -          6
Number of source groups -          9
    Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.10067E+03	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.10067E+03	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.71441E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.71441E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.50273E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.50273E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID GRID-ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE
100%	HIGH	1ST HIGH VALUE IS	65.53664	ON 92102710: AT (	419663.31,	4307087.00,	203.42,	259.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	43.42839	ON 92072216: AT (	420563.31,	4304587.00,	188.86,	204.00,	0.00)	DC
75%	HIGH	1ST HIGH VALUE IS	51.46790	ON 92102710: AT (	419763.31,	4306887.00,	216.90,	253.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	36.81087	ON 92091513: AT (	420018.97,	4305889.50,	185.85,	185.85,	0.00)	DC
50%	HIGH	1ST HIGH VALUE IS	40.53625	ON 92102710: AT (	419763.31,	4306887.00,	216.90,	253.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	30.13504	ON 92072216: AT (	420663.31,	4304687.00,	194.45,	194.45,	0.00)	DC
B001100	HIGH	1ST HIGH VALUE IS	32.78256	ON 92102710: AT (	419663.31,	4307087.00,	203.42,	259.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	21.95643	ON 92081016: AT (	420563.31,	4304687.00,	187.89,	187.89,	0.00)	DC
B002100	HIGH	1ST HIGH VALUE IS	32.75408	ON 92102710: AT (	419663.31,	4307087.00,	203.42,	259.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	21.93564	ON 92072216: AT (	420663.31,	4304587.00,	195.43,	203.00,	0.00)	DC
B00175	HIGH	1ST HIGH VALUE IS	25.81853	ON 92102710: AT (	419663.31,	4306987.00,	196.37,	259.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	18.72167	ON 92072216: AT (	420563.31,	4304687.00,	187.89,	187.89,	0.00)	DC
B00275	HIGH	1ST HIGH VALUE IS	25.73778	ON 92102710: AT (	419863.31,	4306887.00,	185.41,	253.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	18.63388	ON 92041511: AT (	420663.31,	4304687.00,	194.45,	194.45,	0.00)	DC
B00150	HIGH	1ST HIGH VALUE IS	20.36546	ON 92102710: AT (	419763.31,	4306887.00,	216.90,	253.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	15.26847	ON 92072216: AT (	420563.31,	4304687.00,	187.89,	187.89,	0.00)	DC
B00250	HIGH	1ST HIGH VALUE IS	20.26391	ON 92102710: AT (	419863.31,	4306887.00,	185.41,	253.00,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	15.37964	ON 92072216: AT (	420663.31,	4304687.00,	194.45,	194.45,	0.00)	DC

```
*** AERMOD - VERSION 04300 ***
 *** AMPGS                                                          ***
 *** Model Executed on 05/13/06 at 02:20:21 ***
  Input File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_88_CO.DTA

 Output File - C:\FINALAMPGS\ALTERNATIVE LOAD ANALYSIS\altloadanalysis_88_CO.LST

    Met File - c:\FINALAMPGS\1988\met.SFC

       Number of sources -          6
 Number of source groups -          9
     Number of receptors -      14464
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
B001100	0	0.10067E+03	420863.0	4305750.0	184.5	190.50	330.37	16.13	7.55	YES	NO	
B002100	0	0.10067E+03	420940.0	4305729.0	185.8	190.50	330.37	16.13	7.55	YES	NO	
B00175	0	0.71441E+02	420863.0	4305750.0	184.5	190.50	330.37	11.44	7.55	YES	NO	
B00275	0	0.71441E+02	420940.0	4305729.0	185.8	190.50	330.37	11.44	7.55	YES	NO	
B00150	0	0.50273E+02	420863.0	4305750.0	184.5	190.50	330.37	8.04	7.55	YES	NO	
B00250	0	0.50273E+02	420940.0	4305729.0	185.8	190.50	330.37	8.04	7.55	YES	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
100%	B001100 , B002100 ,
75%	B00175 , B00275 ,
50%	B00150 , B00250 ,
B001100	B001100 ,
B002100	B002100 ,

B00175 B00175 ,

B00275 B00275 ,

B00150 B00150 ,

B00250 B00250 ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID GRID-ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					NETWORK OF TYPE
100%	HIGH	1ST HIGH VALUE IS	27.31273	ON 88062416: AT (	419963.31,	4304887.00,	186.67,	186.67,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	21.24142	ON 88083016: AT (	419463.31,	4305187.00,	171.00,	171.00,	0.00)	DC
75%	HIGH	1ST HIGH VALUE IS	23.08004	ON 88062416: AT (	419963.31,	4304887.00,	186.67,	186.67,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	18.40507	ON 88041116: AT (	419663.31,	4305287.00,	184.19,	184.19,	0.00)	DC
50%	HIGH	1ST HIGH VALUE IS	19.80578	ON 88062416: AT (	420063.31,	4304987.00,	184.71,	184.71,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	15.66168	ON 88090616: AT (	419963.31,	4305087.00,	187.15,	187.15,	0.00)	DC
B001100	HIGH	1ST HIGH VALUE IS	13.60503	ON 88062416: AT (	419963.31,	4304887.00,	186.67,	186.67,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	10.97009	ON 88022216: AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC
B002100	HIGH	1ST HIGH VALUE IS	13.70770	ON 88062416: AT (	419963.31,	4304887.00,	186.67,	186.67,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	10.86497	ON 88090616: AT (	419863.31,	4304987.00,	185.53,	185.53,	0.00)	DC
B00175	HIGH	1ST HIGH VALUE IS	11.55976	ON 88062416: AT (	419963.31,	4304887.00,	186.67,	186.67,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	9.49857	ON 88100916: AT (	421863.31,	4306987.00,	184.61,	220.00,	0.00)	DC
B00275	HIGH	1ST HIGH VALUE IS	11.60865	ON 88062416: AT (	420063.31,	4304887.00,	186.82,	186.82,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	9.43536	ON 88041116: AT (	419663.31,	4305287.00,	184.19,	184.19,	0.00)	DC
B00150	HIGH	1ST HIGH VALUE IS	9.97970	ON 88062416: AT (	420063.31,	4304987.00,	184.71,	184.71,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	7.94845	ON 88062416: AT (	419863.31,	4305087.00,	184.33,	184.33,	0.00)	DC
B00250	HIGH	1ST HIGH VALUE IS	9.83127	ON 88062416: AT (	420163.31,	4304987.00,	189.47,	189.47,	0.00)	DC
	HIGH	2ND HIGH VALUE IS	7.87273	ON 88062416: AT (	419963.31,	4305087.00,	187.15,	187.15,	0.00)	DC

APPENDIX I

Class II Air Quality Modeling Protocol
(March 9, 2006)

AMP-Ohio
Proposed Base Load Generating Facility Development
Air Quality Modeling Protocol
Class II Air Quality Modeling Analysis

General Plant Description

The proposed project involves the development of a new pulverized coal-fired electric generating facility. The facility will consist of two steam generators designed for base load operation with a nominal net power output of 480 MW each. The steam generators will burn a blend of bituminous coal and PRB coal, and will use No. 2 fuel oil as startup fuel.

All PSD emissions will be controlled using best available control technology (BACT) and all non-PSD emissions will be controlled using Best Available Technology (BAT). The proposed BACT will be low NO_x burners, overfire air (OFA) and selective catalytic reduction (SCR) for NO_x control, a fabric filter for PM/PM_{10} control, wet flue gas desulfurization (FGD) system for SO_2 control and a wet-ESP for control of other condensable emissions. A complete BACT/BAT analysis will be provided with the permit application.

Following is a preliminary list of the additional emissions units that may be included in the overall facility permit application:

1. Natural gas fired auxiliary boiler;
2. Diesel fired emergency generator;
3. Diesel fired fire pump;
4. Cooling towers;
5. Residual solid waste landfill (dumping, spreading, haul roads, etc.);
6. Plant haul roads and parking lots;
7. Coal handling, crushing and storage;
8. Limestone handling, crushing and storage;
9. Gypsum handling and storage; and
10. Fly ash handling and storage.

Air Contaminants to be Modeled in this Analysis

This project will involve "major" emissions of PM_{10}, SO_2, NO_x and CO. AQ modeling will be performed for each of these pollutants. The proposed project will request emission rates that are large enough to trigger a PSD increment analysis for PM_{10}, SO_2 and NO_2. In addition, the project will trigger requirements for a National Ambient Air

Quality Standards (NAAQS) evaluation for PM_{10}, SO_2, NO_2 and CO (Note: an air quality modeling analysis is not required for the ozone NAAQS).

Models to be Employed in this Analysis

The analysis will be completed using the US EPA approved AERMOD modeling programs including AERMET, AERMAP and AERMOD.

Receptor Grid

A primary receptor grid for the AERMOD Class II modeling will be established along the property line extending to a distance of 5,000 meters from the site. Receptors on this grid will be placed 100 meters apart. A second grid will extend an additional 10,000 meters with receptors placed 1,000 meters apart. A third grid will extend to the distance where there is no significant impact present or to 50,000 meters, whichever is less. The receptors will be placed 5,000 meters apart on this grid. The receptor grid is shown in Figure 1.

AERMET

National Weather Service (NWS) hourly surface observations and twice-daily upper air soundings will be used to process AERMET. NWS data for years 1988-1992 will be obtained from www.webmet.com (The Meteorological Resource Center). Upper air and surface data from station number 03860 (Huntington Tri-State Airport) will be employed to process AERMET. The station is located at 38.365^o latitude, 82.555^o longitude. It has a base elevation of 837 ft and the anemometer height is 20 ft. The upper air data will be NCDC TD-6201 FB format. The hourly surface data will be in SCRAM format (Met144).

AERMET requires user-defined surface roughness (z_o), albedo (r) and Bowen ratio (B_o) coefficients. The surface characteristics for this model are calculated by averaging the land use in a 3-km radius from the meteorological site consistent with guidance in the AERMOD Implementation Guide (September 27, 2005) and advice from Ohio EPA. Figure 2 shows the 3-km radius from the Huntington Tri-State Meteorological Site.

Figure 3 shows the land-use surrounding the meteorological station (3-km radius). This was generated using CTGPROC.EXE, TERREL.EXE and MAKEGEO.EXE in the CALPUFF modeling program using the huntington.cmp land use file. 71.4 % of the land in the 3-km radius surrounding the Huntington Tri-State Airport meteorological station is forested (land use 40-49). 64.3% of the forested land is deciduous and 7.1% is coniferous (Cabell County Soil Survey states that 10% of the forested lands in the county are pine types p. 51). 12.5% of the land in the 3-km radius is urban (land use 10-19) and 16.1% is cultivated (land use 20-29).

Table 1 lists the coefficients that will be employed in the model. The coefficients vary by season.

Figure 1
Receptor Grid

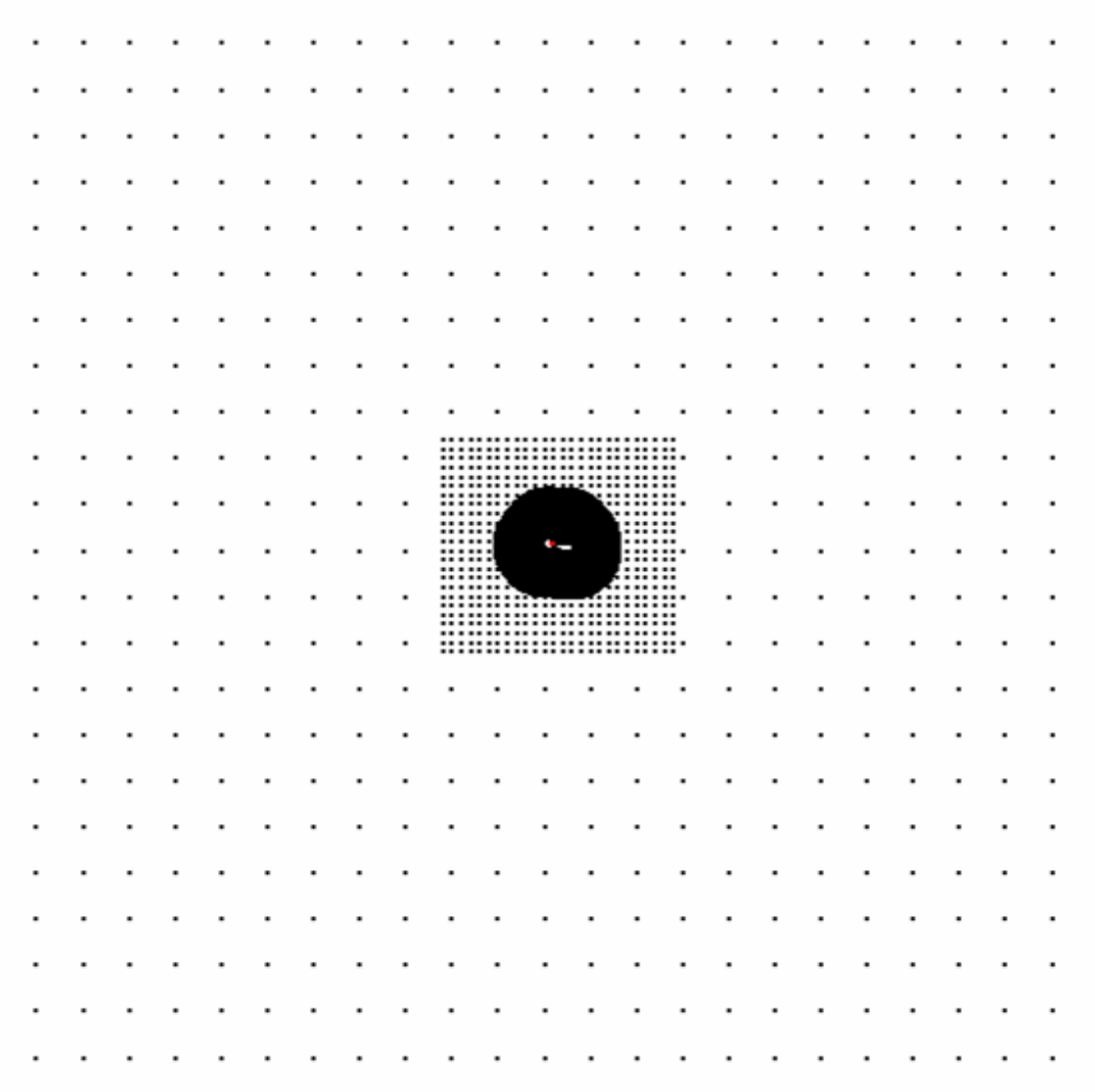

Figure 2
3-km Radius Surrounding Huntington Tri-State Airport
Meteorological Station

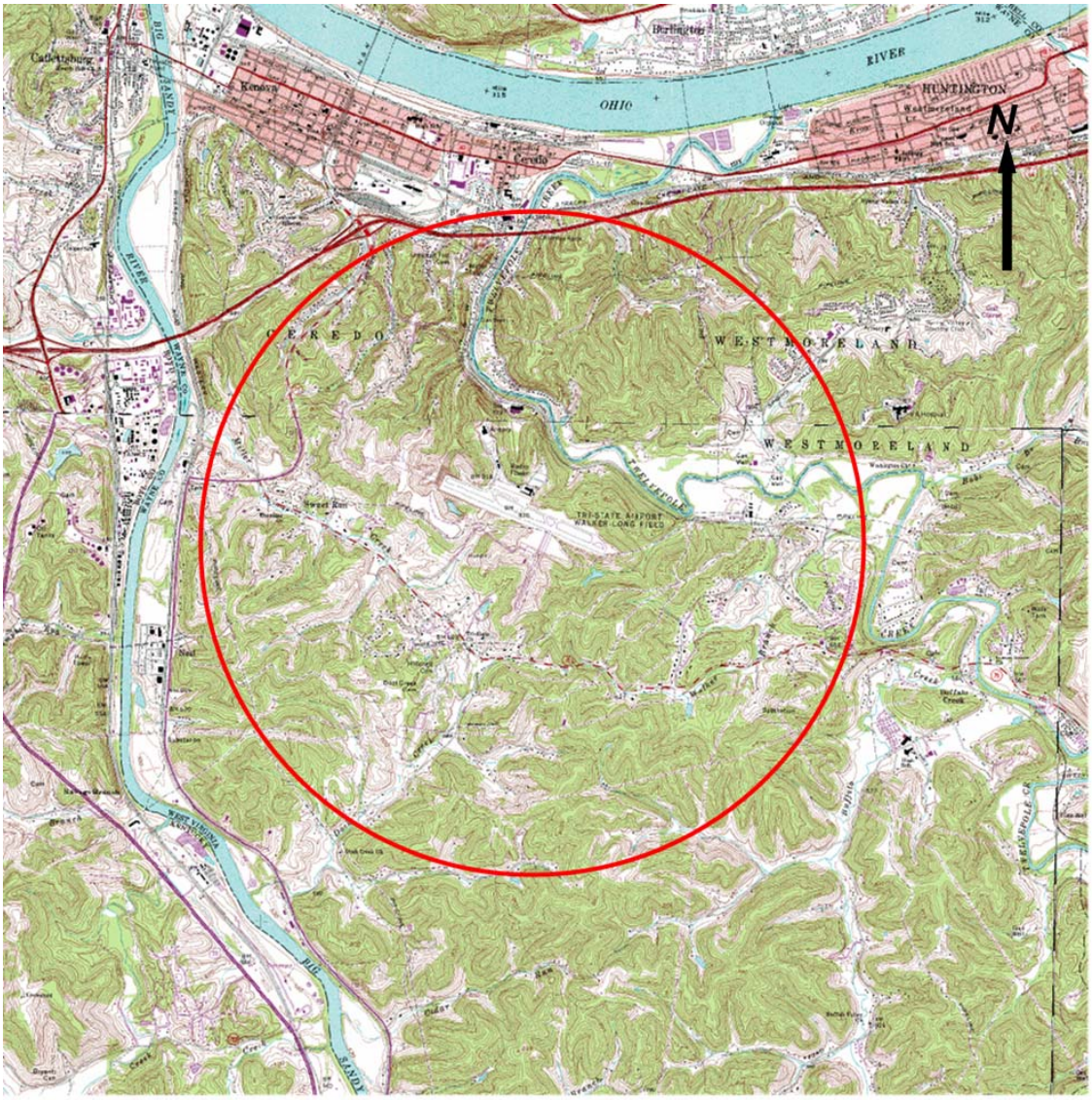

Figure 3
Class II Land-Use
Huntington-Tri State Airport Meteorological Station

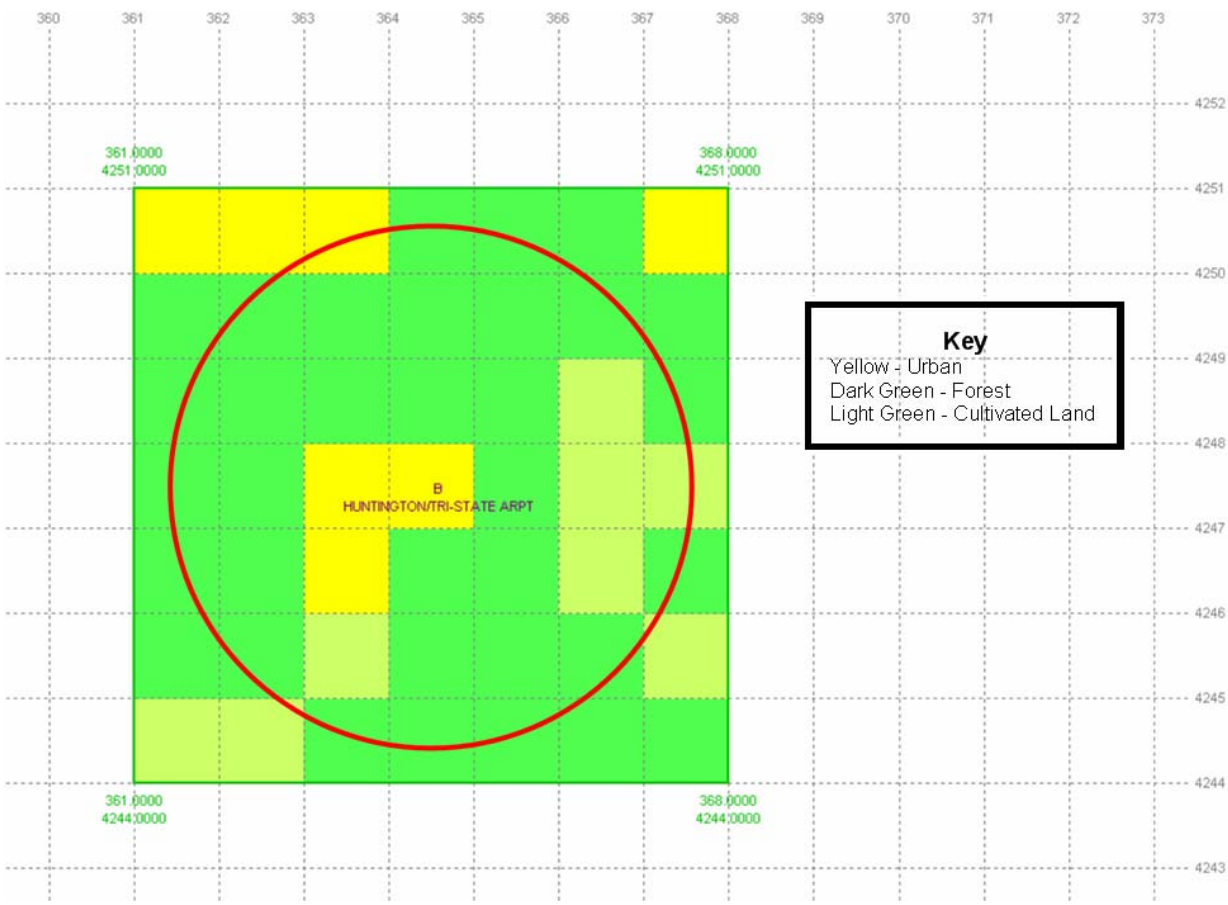

Table 1 **Surface Characteristics**				
Surface Characteristic	**Spring**	**Summer**	**Autumn**	**Winter**
surface roughness (z_o)	0.865	1.085	0.740	0.540
Albedo (r)	0.126	0.138	0.137	0.487
Bowen ratio (B_o)	0.673	0.545	1.063	1.500

The seasonal surface roughness values in Table 1 were calculated using Table 4-3 of the Addendum to the User's Guide for the AERMOD Meteorological Preprocessor (AERMET) (August 2002). The Albedo values were calculated using Table 4-1 of the User's Guide. The Bowen ratio was calculated using Table 4-2b of the User's Guide.

AERMAP

120 7.5' digital elevation models (DEMs) were obtained from Micropath Corporation (private vendor using USGS data) to run AERMAP. The DEM in the northwest corner of the modeling domain is South Bloomingville, OH (39082D5). Raven Rock, WV (39081D2) is the DEM in the northeast corner of the domain. Catlettsburg, KY (38082D5) is the DEM in the southwest corner. Bentree, WV (38082D5) is the DEM in the southeast corner of the modeling domain.

The modeling domain will be developed consistent with Section 2.21 of the Revised Draft User's Guide for the AERMOD Terrain Preprocessor (AERMAP) Draft 8/14/02. It will include all terrain features that exceed 10% elevation slope from any given receptor.

Source Parameters

Table 2 summarizes the source parameters and emission rates from the boilers that will be used to complete the Class II modeling. The maximum air flow rate and corresponding velocity will be used to represent the worst case. AMP-Ohio plans to install a 625 ft stack that is less than the Good Engineering Practice (GEP) stack height requirements in OAC rule 3745-16. The GEP stack height was determined to be 675 ft.

Additional non-boiler sources will be modeled. A list of the additional non-boiler sources will be submitted to Ohio EPA for review and Ohio EPA will determine which sources must be included in the model.

GEP Stack Height

GEP stack height is the optimum stack height for avoiding downwash effects when conducting Class I and Class II air quality modeling and is also the maximum stack height that can be used when conducting Class I and Class II air quality modeling. The GEP stack height was calculated based on the requirements of OAC rule 3745-16 and guidance provided in the "Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations) (Revised)" (US EPA June 1985).

Figure 4 depicts the structures on the plant property that will be entered into the Class I and Class II modeling for downwash calculation purposes. Table 3 summarizes the dimensions of each structure identified in Figure 4. Since all of the buildings shown in Figure 4 are connected, all the structures shown are considered to be "nearby" as defined in OAC rule 3745-16-01(G)(1). Since all of the buildings shown in Figure 4 are "nearby", the height of the tallest building (Building 8 @ 270 ft) is used to calculate the GEP stack height along with the lesser of the overall width of the entire complex (502 ft) or the height of the tallest building (Building 8 @ 270 ft). The GEP stack height (Hg) is calculated, as follows, according to the equation found in OAC rule 3745-16-01(F)(2)(b):

Hg = H + 1.5 L

Hg = 270 feet (*building 8 height*) + 1.5 (270 feet) (*building 8 height is less than the entire structure width (502 feet)*) = 675 feet

Table 2 **Boiler Stack Parameters** **(values presented for each stack)**				
Parameter	**50% Load**	**75% Load**	**VWO plus 5%**	**Notes**
Stack Height (ft)	625	625	625	Less than GEP Stack Height
Stack Diameter (ft)	24.76	24.76	24.76	NA
Flow Rate (ACFM)	762,132	1,084,820	1,528,423	Maximum flow rate, which will cause highest off-site impact
Velocity (fps)	26.4	37.5	52.9	Maximum flow rate, which will result in maximum velocity
Stack Gas Exit Temperature (F)	135	135	135	NA
SO_2 (lb/hr) 3-Hour Average	621	884	1,246	Maximum 3-hour emissions rate
SO_2 (lb/hr) 24-Hour Average	476	678	955	Maximum 24-hour emissions rate
SO_2 (lb/hr) Annual Average	388	553	779	Maximum annual emissions rate
NO_X (lb/hr) Annual	207	295	415	Maximum annual emissions rate
PM_{10} (lb/hr) 24-Hour Average	93	132	186	Maximum 24-hour emissions rate (filterable and condensable)
PM_{10} (lb/hr) Annual	93	132	186	Maximum annual emissions rate (filterable and condensable)
CO (lb/hr) 1-Hour Average	399	567	799	Maximum 1-hour emission rate
CO (lb/hr) 8-Hour Average	399	567	799	Maximum 8-hour emission rate

Figure 4
Building Diagram

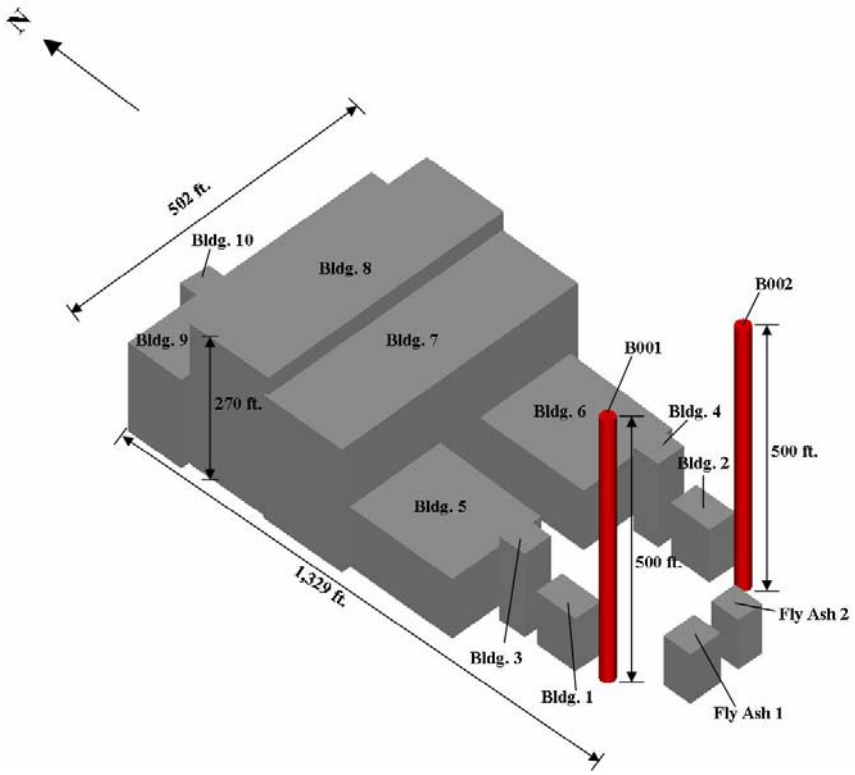

Table 3 BUILDING PARAMETERS			
Building	**Length (ft)**	**Width (ft)**	**Height (ft)**
1	75	49	101
2	75	49	101
3	49	49	160
4	49	49	160
5	200	174	114
6	200	174	114
7	453	148	236
8	453	148	270
9	463	102	170
10	105	52	65
Fly Ash 1	59	52	95
Fly Ash 2	52	46	95

Alternative Operating Scenarios

Four alternative operating scenarios for the steam generators (boilers) will be evaluated to determine the worst case offsite impact for each pollutant.

- 1 boiler at 50% load
- 2 boilers each at 50% load
- 1 boiler at 100% load
- 2 boilers at 100% load

All other emissions units at the proposed facility will be evaluated at 100% operation unless justification for reducing operation based on operation of the steam generators is reasonable.

PSD Increment Analysis

Ohio EPA has confirmed that the full PSD baseline is available in the project area. This analysis will demonstrate that the proposed project will not consume more than ½ of the increment for each PSD air pollutant or pursuant to Ohio EPA policy ¼ of the NAAQS if no PSD increment exists.

Other Sources for NAAQS Analysis

An interactive NAAQS analysis is required for SO_2 since the emissions from the proposed new AMP-Ohio project in Meigs County are predicted to cause off-site impact greater than the PSD significant impact increment for SO_2.

Ohio EPA policy requires that the interactive SO_2 NAAQS analysis include the emissions units in the proposed AMP-Ohio project and all other sources that pass the "20D analysis" within the counties bordering the county where the source is located (Meigs, Jackson, Vinton and Gallia Counties). The "20D analysis" is defined as any source with emission greater than 20 times the distance from the proposed AMP-Ohio project. In addition, Ohio EPA requested that the Muskingum River Plant in Washington County be included. Table 4 summarizes the Ohio sources that will be included in the SO_2 interactive NAAQS analysis.

West Virgina DEQ policy requires that the interactive SO_2 NAAQS analysis include the emissions units in the proposed AMP-Ohio project and other "large" sources within a 100 km radius of the proposed project. In addition, West Virginia DEQ also requested that the Pleasant Power Station (Pleasants County), the John E. Amos Plant (Putnam County) and the Cabot Corporation Ohio River Plant (Pleasants County) be included.

West Virginia DEQ provided AMP-Ohio with an inventory of 530 sources located within a 100 km radius of the AMP-Ohio project. That source inventory only provided actual SO_2 emissions not allowables. AMP-Ohio obtained allowable SO_2 emission rates from

Table 4
Proposed New AMP-Ohio Power Plant
Interactive SO_2 NAAQS Air Quality Modeling Inventory
Ohio Sources

Facility ID	Facility Name	Unit ID	County	UTM Zone	UTM Horizontal	UTM Vertical	Egress Height (ft)	Egress Diameter (ft)	Maximum Operation		Allowable Emissions Rate (Tons/Year)	Distance From Project (km)
									Exit Temperature (F)	Exit Flowrate (ACFM)		
Not Assigned	**AMP-Ohio New Plant**	**Units 1 & 2**	**Meigs**	**17**	**420.97**	**4,306.08**						
0605010016	Ohio University Lausche Heating Plant	B041	Athens	17	403.99	4,351.29	150	8.75	360	75,000	1,981.40	48.29
		B042		17	403.99	4,351.29	150	8.75	360	75,000	1,981.40	48.29
		B043		17	403.99	4,351.29	150	8.75	360	75,000	1,981.40	48.29
0627010056	Gavin Power Plant	B001	Gallia	17	403.00	4,310.00	300	11.00	300	501,775	4,204.80	18.39
		B002		17	403.00	4,310.00	300	11.00	300	501,775	4,204.80	18.39
		B003		17	403.26	4,309.91	830	42.00	125	4,410,000	387,392.40	18.12
		B004		17	403.33	4,310.04	830	42.00	125	4,410,000	387,392.40	18.08
0627000003	Ohio Valley Electric Corp. Kyger Creek Station	B001	Gallia	17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	18.76
		B002		17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	18.76
		B003		17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	18.76
		B004		17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	18.76
		B005		17	402.24	4,305.06	1,000	29.33	350	4,455,000	66,444.60	18.76
0684000000	Muskingum River Plant AEP	B001	Washington	17	441.64	4,382.37	134	7.00	650	219,362	2,606.90	79.04
		B002		17	441.64	4,382.37	828	25.00	335	3,331,000	68,240.40	79.04
		B003		17	441.64	4,382.37	828	25.00	335	3,331,000	68,240.40	79.04
		B004		17	441.64	4,382.37	828	25.00	335	3,331,000	71,569.20	79.04
		B005		17	441.64	4,382.37	828	25.00	335	3,331,000	71,569.20	79.04
		B006		17	441.06	4,382.12	828	25.00	290	2,100,000	18,474.80	78.65

Title V permits available on West Virginia DEQ's website for each source with actual emissions greater than 10 tons/yr. Source with actual emissions less than 10 tons/yr were excluded from the interactive NAAQS analysis. AMP-Ohio reduced the West Virginia source inventory further by excluding sources that were deemed to be too far away and/or have allowable emissions that were too low to have a significant impact on the interactive SO_2 NAAQS analysis. Table 5 summarizes the West Virginia sources that will be included in the SO_2 interactive NAAQS analysis.

Ohio EPA and West Virginia DEQ were previously provided with the proposed source inventories for review and comment.

Air Quality Modeling Report

A complete Air Quality Modeling report will be provided to Ohio EPA. The report will include a detailed modeling description, modeling results, and printed summary of the modeling inputs and outputs. The modeling files will be provided electronically on a CD. Two copies of the written report and electronic files will be provided.

Table 5
Proposed New AMP-Ohio Power Plant
Interactive SO_2 NAAQS Air Quality Modeling Inventory
West Virginia Sources

Facility ID	Facility Name	Unit ID	County	UTM Zone	UTM Horizontal	UTM Vertical	Egress Height (ft)	Egress Diameter (ft)	Maximum Operation		Allowable Emissions Rate (Tons/Year)	Distance From Project (km)
									Exit Temperature (F)	Exit Flowrate (ACFM)		
Not Assigned	**AMP-Ohio New Plant**	**Units 1 & 2**	**Meigs**	**17**	**420.97**	**4,306.08**						
5403500002	Century Aluminum of West Virginia	004S301[6]	Jackson	17	428.30	4,308.60	53	1.92	150	10,000	873.70	7.75
		005S106		17	428.30	4,308.60	71	8.91	1,150	46,200	590.64	7.75
5403900006	Appalachian Power Kanawha River Plant	Unit 1 (CS012)	Kanawha	17	463.00	4,228.60	326	19.67	316	858,042	27,331.20	88.15
		Unit 2 (CS012)		17	463.00	4,228.60	326	19.67	316	858,042		88.15
5403900007	Bayer Crop Science	Powerhouse 1 (Boilers 3, 4 & 5)	Kanawha	17	432.00	4,249.00	125	4.00	580	120,000	1,261.44	58.14
		Powerhouse 2 (Boilers 10, 11 & 12)		17	432.00	4,249.00	200	9.50	350	275,000	7,358.40	58.14
540390002	FMC Corporation Steam Plant	Boilers 15 & 16 (Stack 1)	Kanawha	17	439.50	4,247.00	200	12.00	375	0	2,242.56	61.92
		Boiler 13 (Stack 4)		17	439.50	4,247.00	187	14.25	375	0	1,646.88	61.92
5403900004	Union Carbide Corp. So Charleston Fac.[9]	IPH3 Boiler 25 (Stack 4)	Kanawha	17	440.70	4,246.80	150	10.00	0	0	1,569.60	62.48
5405300009	Appalachian Power Mountaineer Plant	Unit 1 Stack	Mason	17	419.00	4,314.70	1,100	30.25	316	4,386,424	78,945.00	8.84
		Aux 1 &2		17	419.00	4,314.70	300	11.00	627	501,775	3,514.00	8.84
5405300001	Appalachian Power Phillip Sporn Plant	Unit 5[10]	Mason	17	420.00	4,313.50	602	15.07	328	1,581,233	69,396.72	7.48
		Units 1-4[10]		17	420.00	4,313.50	600	21.50	292	2,040,717	91,874.88	7.48
5407300006	Cabot Corporation Ohio River Plant	003	Pleasants	17	469.30	4,354.10	141	4.00	1,800	212,401	3,028.06	68.13
		004		17	469.30	4,354.10	153	5.30	1,800	152,101	3,311.28	68.13
		005		17	469.30	4,354.10	139	5.00	1,060	32,593	4,349.34	68.13

Table 5 (cont'd.)
Proposed New AMP-Ohio Power Plant
Interactive SO_2 NAAQS Air Quality Modeling Inventory
West Virginia Sources

Facility ID	Facility Name	Unit ID	County	UTM Zone	UTM Horizontal	UTM Vertical	Egress Height (ft)	Egress Diameter (ft)	Maximum Operation		Allowable Emissions Rate (Tons/Year)	Distance From Project (km)
									Exit Temperature (F)	Exit Flowrate (ACFM)		
5407300005	Monongahela Power Co. Pleasants Power Station	Boiler 1 (Stack 1)	Pleasants	17	488.80	4,357.40	1,000	20.00	150	1,800,000	32,823.72	85.06
		Boiler 2 (Stack 2)		17	488.80	4,357.40	1,000	36.30	150	1,800,000	32,823.72	85.06
		Aux 1 (Aux Stack)		17	488.80	4,357.40	239	7.50	0	0	6,028.63	85.06
5407300005	Monongahela Power Co. Willow Island	Boiler 1 (Stack 1)	Pleasants	17	474.10	4,357.40	160	13.90	385	270,000	7,320.29	73.87
		Boiler 2 (Stack 2)		17	474.10	4,357.40	216	15.00	375	950,000	18,980.73	73.87
5407900006	Appalachian Power John E Amos Plant	Unit 1 (CS012)[13]	Putnam	17	428.20	4,258.40	903	33.00	312	5,521,332	182,039.81	48.23
		Unit 2 (CS012)		17	428.20	4,258.40	903	33.00	312	5,521,332		48.23
		Unit 3 (AM3)		17	428.00	4,258.60	903	30.25	325	4,280,174		48.00
		Aux 1 (Aux AM1)[14]		17	428.20	4,258.40	104	7.00	726	277,088	8,703.94	48.23
		Aux 3 (Aux AM3)		17	428.20	4,258.40	200	7.00	627	249,379		48.23
5410700001	Dupont Washington Works	Boilers 1 & 2 (Stack 475)	Wood	17	442.20	4,346.70	150	6.00	429	58,810	2,179.27	45.83
		Boilers 3 & 4 (Stack 476)		17	442.20	4,346.70	150	7.50	332	86,229	3,717.00	45.83
		Boilers 5 & 6 (Stack 477)		17	442.20	4,346.70	150	9.00	364	170,270	7,162.40	45.83