Florida Gas Transmission Company

P. O. Box 945100 Maitland, Florida 32794-5100 (407) 875-5800

December 28, 1999

Mr. Alvaro Linero, P.E.
Dept Environmental Protection
Air Resources Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Reference: Facility: New
Compressor Station No. 24, Gilchrist County
Facility: 0170035
Compressor Station No. 26, Citrus County

Dear Mr. Linero:

Subject: Copies of Applications for Air Construction Permits

Florida Gas Transmission Company (FGT) has submitted Applications for Air Construction Permits to construct new turbines at the above referenced facilities. These applications were sent to Mr.. Christopher L. Kirts, of the FDEP Northeast District Office; and Mr. William Thomas of the FDEP Southwest District Office.

As you have discussed with Dr. Duane Pierce, copies of the Applications for the proposed modifications are being sent to you to aid you in coordinating the review of these applications and two additional applications that have been submitted to the Northwest District Office.

If you have any questions or need additional information, please call me at (407) 838-7119. Please direct technical questions to Dr. Pierce at 713-907-2771 or 281-373-5365. He can also be reached by email at d.pierce@ix.netcom.com.

Sincerely,

David Parham/wrs

David H. Parham, P.E.
Senior Environmental Engineer

Enclosures

CC: Leonard Hilton, w/o attachments
Frank Diemont
Arnold Eisenstein
Jordan Hunter
Clay Roesler
Glenn Sellars
V. Duane Pierce, Ph.D., AQMcs, LLC
Project file

AQMcs

Florida Gas Transmission Company

Phase IV Expansion Project

Compressor Station No. 24

Trenton, Florida

APPLICATION
For
AIR CONSTRUCTION
PERMIT

December 1999

Table of Contents

List of Tables

1.0 INTRODUCTION

Florida Gas Transmission Company (FGT), a Delaware Corporation and ENRON/EL PASO affiliate of Houston, Texas, is proposing to construct a new natural gas pipeline compression facility near Trenton in Gilchrist County, Florida (Compressor Station No. 24). This proposed facility is part of FGT's Phase IV Expansion Project, aimed at increasing the supply capacity of FGT's network servicing domestic, commercial, and industrial customers in Florida. The scope of work for the Phase IV Expansion Project includes expansion through the addition of state-of-the-art compressor engines at four existing compressor stations and the development of one new compressor station. The basic project components include:

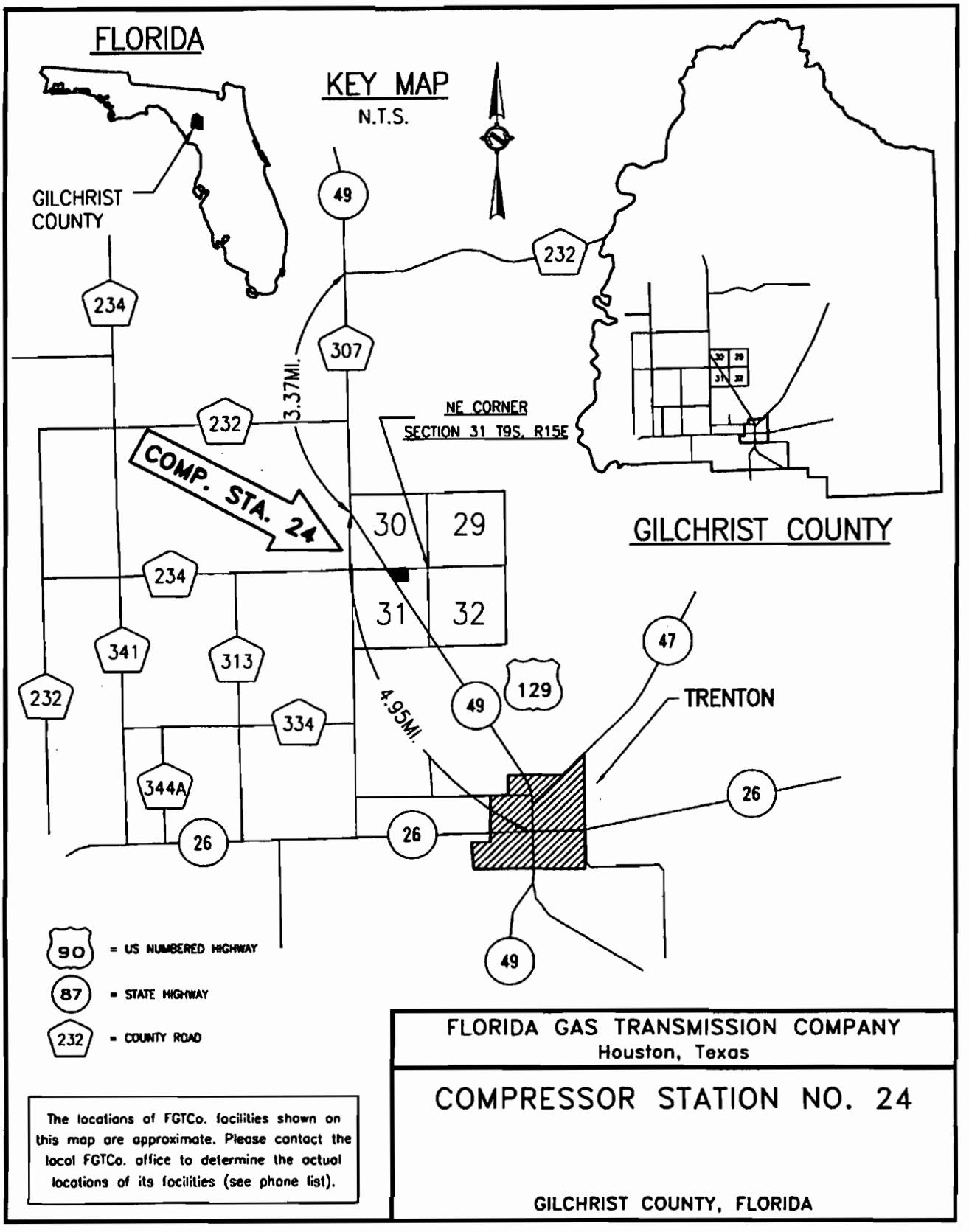
- Mainline loops, additions, and replacements;
- Lateral loops and additions;
- Meter station additions, modifications, and expansions;
- Regulator additions, modifications, and expansions; and
- Compressor station additions and modifications.

Compressor Station No. 24 is located in Gilchrist County, Florida, approximately 4 miles north of Trenton on U. S. Highway 129. Figure 1-1 shows the location of the new compressor station.

The proposed new facility at this location consists of one 10,350 (ISO) brake horsepower (bhp), natural-gas-fired, turbine compressor engine, a single 443 bhp diesel-fired emergency generator and other support equipment such as lube oil storage tanks. The proposed compressor engine will be used solely for transporting natural gas by pipeline for distribution to markets in Florida. The proposed engine is a Solar Mars 90-T13002S equipped with dry low NO_X (oxides of nitrogen) combustion and derated to 10,350 bhp. Under current federal and state air quality regulations, the proposed facility will constitute a new minor stationary source. Based on the projected annual emission rates, there will be no PSD significant increase in any emissions.

Engineering designs for the proposed expansion project include selection of an engine incorporating dry low NO_X combustion technology. Dry low NO_X technology for control of NO_X emissions would represent Best Available Control Technology (BACT) for the proposed turbine engine under PSD requirements.

This application contains four additional sections. Descriptions of the operation at FGT's Compressor Station No. 24 and the proposed 10,350 (ISO) bhp engine and the emergency generator replacement are presented in Section 2.0. The air quality review requirements and applicability of state and federal regulations are discussed in Section 3.0. The methodology and results of the air dispersion modeling and air quality impact analysis are presented in Section


FLORIDA
KEY MAP
N.T.S.
GILCHRIST COUNTY
49
232
234
307
3.37MI.
NE CORNER
SECTION 31 T9S, R15E
COMP. STA. 24
30
29
31
32
GILCHRIST COUNTY
234
341
313
232
334
4.95MI.
49
129
47
TRENTON
344A
26
26
26
49
90 = US NUMBERED HIGHWAY
87 = STATE HIGHWAY
232 = COUNTY ROAD
The locations of FGTCo. facilities shown on this map are approximate. Please contact the local FGTCo. office to determine the actual locations of its facilities (see phone list).
FLORIDA GAS TRANSMISSION COMPANY
Houston, Texas
COMPRESSOR STATION NO. 24
GILCHRIST COUNTY, FLORIDA

4.0. References are included in Section 5.0.

FDEP permit application forms are presented in Attachment A. Attachment B contains a plot plan of the facility. Attachment C contains vendor information, Attachment D contains emission calculations and Attachment E contains the output from the air dispersion modeling.

2.0 PROJECT DESCRIPTION

A plot plan of FGT's Compressor Station No. 24, showing the location of the plant boundaries and the location of the proposed new engine is presented in Attachment B. The following sections provide a description of the operations at this location.

2.1 Existing Operations

FGT's Compressor Station No. 24 is a new grassroots facility and there are no existing emission sources.

2.2 Proposed Compressor Station

FGT proposes to add one new compressor station (Compressor Station No. 24) to its natural gas pipeline. The proposed new station and new engine will be used to increase the volumetric delivery capacity by driving a gas compressor that is a part of a gas transmission line that transports natural gas from source wells in Texas and Louisiana for delivery throughout Florida. Without the proposed engine, it would not be possible to increase the volumetric delivery capacity necessary to meet both short and long-term demands for natural gas in Florida.

2.2.1 Compressor Engine

FGT proposes to install one natural gas-fired turbine engine compressor unit and associated support equipment at Compressor Station No. 24. The turbine engine will be a Solar Mars 90-T13002S engine compressor unit ISO rated at 10,350 bhp. Fuel will be exclusively natural gas from the FGT's natural gas pipeline. Engine specifications and stack parameters for the proposed engine are presented in Table 2-1.

Table 2-1 Proposed Compressor Engine Specifications and Stack Parameters

Parameter	Design
Compressor Engine	2401
Type	Gas Turbine
Manufacturer	Solar
Model	Mars 90-T13002S
Unit Size	10,350 bhp ISO Rated
Specific Heat Input	8,558 Btu/hp-hr
Maximum Fuel Consumption [a]	0.0852 MMscf/hr
Speed	10,800 rpm
Stack Parameters	
Stack Height	58 ft
Stack Diameter	7.5 ft x 8 ft (rectangular)
Stack Effective Diameter (D_e)	
Exhaust Gas Flow	163,484 acfm
Exhaust Temperature	833 °F
Exhaust Gas Velocity	13.84 ft/sec

NOTE:

acfm	=	actual cubic feet per minute.
bhp	=	brake horsepower.
Btu/bhp-hr	=	British thermal units per brake horsepower per hour.
°F	=	degrees Fahrenheit.
ft	=	feet.
ft/sec	=	feet per second.
MMscf/hr	=	million standard cubic feet per hour
rpm	=	revolutions per minute.

[a] Based on heating value for natural gas of 1040 British thermal units per standard cubic foot (Btu/scf).

Hourly and annual emissions of regulated pollutants from the proposed engine under normal operating conditions are presented in Table 2-2. Emissions of oxides of nitrogen (NO_X, carbon monoxide (CO) and non-methane hydrocarbons (NMHC) are based on the engine manufacturer's supplied data (See Attachment C).

Typically, turbine vendors do not provide information on particulate matter (PM) or sulfur dioxide (SO_2) emissions; therefore, particulate matter emissions are based upon USEPA publication AP-42 Table 1.4-2 (USEPA, 1995) and emissions of SO_2 are based on FGT's Federal Energy Regulatory Commission (FERC) certificate limit of 10 grains sulfur per 100 cubic feet of natural gas.

2.2.2 Support Equipment Additions and Changes

In addition to the compressor engines, some support equipment will be installed at the site. They include:

- A compressor building
- A control building
- One emergency generator
- One 2500 gallon lube oil storage tank
- One 1000 gallon diesel storage tank

The locations of structures are shown on the facility plot plan contained in Attachment B. The new compressor building, housing the Solar Mars turbine, has approximate dimensions of 40 feet wide by 80 feet long by 32 feet high. The approximate dimensions of the control building will be 11 feet wide by 40 feet long by 12 feet high. Due to the size of this building and its distance from the new exhaust stack, it will not influence compressor engine emissions.

The new generator will be powered by a diesel-fueled, Caterpillar Model 3406 rated at 300 kW (443 bhp). Engine specifications and stack parameters for the proposed engine are presented in Table 2-3 and emissions are presented in Table 2-4.

2.2.3 Fugitive Emissions

Potential new emissions from Compressor Station No. 24 also include fugitive emissions from the valves and flanges that will be in gas service. These fugitive emissions have been estimated using USEPA factors for components in gas service at oil and gas facilities (EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"). Table 2-5 lists the quantities of existing and new components to be added as part of the Phase IV Expansion Project and an estimate of the fugitive emissions from these sources.

Table 2-2 Emissions from FGT's Proposed Compressor Engine

Pollutant	Emission Factor	Reference	Compressor Emissions	
			lb/hr	TPY
Nitrogen Oxides	8.80 lb/hr	Manufacturer Data	8.80	38.56
Carbon Monoxide	10.72 lb/hr	Manufacturer Data	10.72	46.95
Volatile Organic Compounds (non methane)	0.307 lb/hr	Manufacturer Data	0.31	1.34
Particulate Matter	5.0 lb/MMscf	AP-42, Table 1.4-2	0.47	2.05
Sulfur Dioxide	10 grains/100 scf	FERC Certificate Limit	2.68	11.72

Table 2-3 Proposed Emergency Generator Engine Specifications and Stack Parameters

Parameter	Design
Compressor Engine	2401
Type	Diesel Fueled, Reciprocating
Manufacturer	Caterpillar
Model	3406
Unit Size	443 bhp
Fuel Input	28.8 gal/hr
Speed	1800 rpm
Stack Parameters	
Stack Height	20 ft
Stack Diameter	0.50 ft
Exhaust Gas Flow	3,323 acfm
Exhaust Temperature	1036 °F
Exhaust Gas Velocity	282.06 ft/sec

NOTE:

acfm	=	actual cubic feel per minute.
bhp	=	brake horsepower.
gal/hr	=	gallons per hour.
°F	=	degrees Fahrenheit.
ft	=	feet.
ft/sec	=	feet per second.
rpm	=	revolutions per minute.

Table 2-4 Emissions from FGT's Proposed Generator Engine

Pollutant	Emission Factor	Reference	Generator Emissions	
			lb/hr	TPY*
Nitrogen Oxides	8.82 lb/hr	Manufacturer Data	8.82	2.21
Carbon Monoxide	2.42 lb/hr	Manufacturer Data	2.42	0.61
Volatile Organic Compounds** (non-methane)	0.015 lb/hr	Manufacturer Data	0.015	0.004
Particulate Matter	0.714 lb/hr	AP-42, Table 1.4-2	0.714	0.179
Sulfur Dioxide	0.80 lb/hr	FERC Limit	0.60	0.15

* Based on 500 hours of operation per year

** Assumes VOC 10% of total HC

2.2.4 Emissions Summary

The total new emissions resulting from the project are listed on Table 2-6. As can be seen from the table, the emission increases are not significant under PSD. The calculations used to estimate these emissions are presented in Attachment D.

Table 2-5 VOC Fugitive Emission Calculations and Summary

New Emissions					
Component	Service	Component Count	Emissions * Factor (ton/yr)	NM/NE Fraction	Emissions (ton/yr)
Valves	Gas	135	0.0434606	0.05	0.29
Flanges	Gas	166	0.0037666	0.05	0.03
Open-Ended Line	Gas	0	0.0193158	0.05	0.00
Pumps	Gas	0	0.023179	0.05	0.00
Other	Gas	1	0.0849895	0.05	<0.01
				TOTAL:	**0.32**

*EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"

Table 2-6 Potential Annual Emissions (tpy) Summary

SOURCE ID	DESCRIPTION	NO_x	CO	VOC[a]	SO_2	PM
	PROJECT ADDED					
2401	10,350 bhp Turbine Engine	35.6	47.0	1.3	2.1	11.7
GEN03	443 bhp Recip. Engine	2.2	0.6	0.01	0.15	0.18
FUGITIVE	Fugitive			0.32		
TANK 01	Lube Oil Tank[b]			0.000015		
TANK 02	Diesel Tank			0.00015		
	PROJECT TOTALS:	**37.8**	**47.6**	**1.630165**	**2.25**	**11.88**

(a) VOC = NM/NE HC
(b) Pressurized at 50 psi except when filling

3.0 REGULATORY ANALYSIS

This section presents a review of federal and Florida State air quality regulations, which govern the operations and proposed modifications to be conducted at Compressor Station No. 24.

3.1 Federal Regulations Review

The federal regulatory programs administered by the USEPA have been developed under the authority of the Clean Air Act. The following subsections review the essential elements of the federal regulatory program and the impact they have on the proposed operations at Compressor Station No. 24.

3.1.1 Classification of Ambient Air Quality

The 1970 Amendments to the CAA gave the USEPA specific authority to establish the minimum level of air quality that all states would be required to achieve. These minimum values or standards were developed in order to protect the public health (primary) and welfare (secondary). The federally promulgated standards and additional state standards are presented on Table 3-1.

Areas of the country that have air quality equal to or better than these standards (i.e., ambient concentrations less than a standard) are designated as "Attainment Areas", while those where monitoring indicates air quality is worse than the standards are known as "Non-attainment Areas." The designation of an area has particular importance for a proposed project as it determines the type of permit review to which the application will be subject.

Major new sources or major modifications to existing major sources located in attainment areas are required to obtain a PSD permit before initiation of construction. Similar sources located in areas designated as non-attainment or that adversely impact such areas undergo more stringent Non-attainment New Source Review (NNSR). In either case, it is necessary, as a first step, to determine the air quality classification of a project site.

All areas of all states are classified as either attainment, non-attainment or unclassifiable for each criteria pollutant. The current classification of Gilchrist County is listed on Table 3-2 for each criteria pollutant. Gilchrist County in designated as unclassifiable or attainment for all criteria pollutants. These designations were obtained from 40 CFR 81.310, as updated in the June 5, 1998 Federal Register (FR31036) and 62-204.340 F.A.C.

Table 3-1 National and State Ambient Air Quality Standards ($\mu g/m^3$)

POLLUTANT	AVERAGING PERIOD	EPA STANDARDS		FLORIDA STANDARDS
		PRIMARY	SECONDARY	
PM_{10}	24-hour[1]	150	150	150
	annual[2]	50	50	50
SO_2	3-hour[1]	—	1,300	1,300
	24-hour[1]	365	—	260
	Annual[2]	80	—	60
CO	1-hour[1]	—	40,000	40,000
	8-hour[1]	10,000	—	10,000
NO_2	Annaul[2]	100	100	100
O_3	1-hour[3]	235	235	235

1) Not to be exceeded more than once per year.
2) Never to be exceeded.
3) Not to be exceeded on more than 3 days over 3 years.

Sources: 40 CFR 50; 36FR22384; Chap. 17-2.300.

Table 3-2 Classification Of Gilchrist County For Each Criteria Pollutant

Carbon Monoxide	Attainment
Oxides of Nitrogen	Attainment
Sulfur Dioxide	Attainment
Particulate Matter (PM_{10})	Unclassifiable
Lead	Unclassifiable
Ozone	Attainment

Source 40 CFR 81.310 1998; 62-204.340 F.A.C.

The designation of Unclassifiable indicates that there is insufficient monitoring data to prove that the area has attained the federal standards; however, the limited data available indicate that the standard has been achieved. Areas with this classification are treated as attainment areas for permitting purposes.

3.1.2 PSD Applicability

The 1977 CAA Amendments added Part C: Prevention of Significant Deterioration to the Act. This part required proposed new major stationary sources or existing sources planning a major modification in an area that has attained the National AAQS, to conduct a preconstruction review that includes a detailed analysis of the impacts from the source's emissions. Federal air quality permitting regulations for attainment areas are codified in the Code of Federal Regulations (CFR), Title 40- Protection of the Environment, Part 52.21 - Prevention of Significant Deterioration (40 CFR 52.21).

For the PSD regulations to apply to a given project, the proposed location must be in a PSD area, i.e., an area that has been classified as attainment or as unclassifiable for a particular pollutant. Gilchrist County is designated as attainment area for all criteria pollutants. A project's potential to emit is then reviewed to determine whether it constitutes a major stationary source or major modification to an existing major stationary source.

A major stationary source is defined as either one of the 28 sources identified in 40 CFR 52.21 that has a potential to emit 100 tons or more per year of any regulated pollutant, or any other stationary source that has the potential to emit 250 tons or more per year of a regulated pollutant. "Potential to emit" is determined on an annual basis after the application of air pollution control equipment, or any other federally enforceable restriction.

According to the "Draft New Source Review Workshop (NSR) Manual (USEPA, October 1990)," for a modification to be classified as major and therefore, subject to PSD review:

(1) The modification must occur at an existing major stationary source, and

(2) The net emissions increase of any pollutant emitted by the source, as a result of modification, is "significant", or

(3) The modification results in emissions increases, which if considered alone would constitute a major stationary source.

"Significant" emission rates are defined as amounts equal to or greater than the emission rates given in Table 3-3.

By these definitions, and based on the emissions presented in Section 2.0, the action proposed for Compressor Station No. 24 is construction of a new minor stationary source, since Compressor Station No. 24 is not one of the 28 named source categories and emits <250 TPY of each regulated pollutant. Therefore, the compressor station is not subject to PSD pre-construction review.

Table 3-3 Applicability of PSD Significant Emission Rates

Pollutant	Emission Rate Tons/Year
Carbon Monoxide	100
Nitrogen Oxides	40
Sulfur Dioxide	40
Particulate Matter (PM/PM_{10})	25/15
Ozone (VOC)	40
Lead	0.6
Fluorides	3
Reduced Sulfur including Hydrogen Sulfide	10
Total Reduced Sulfur including Hydrogen Sulfide	10
Sulfuric Acid Mist	7
Lead	0.6
Mercury	0.1

VOC = Volatile Organic Compounds
Sources: 40 CFR 52.21(b)(23); Table 212.400-2 62-212 F.A.C.

3.1.3 Non-Attainment New Source Review (NSR) Applicability

Based on the current non-attainment provisions, all new major stationary sources, or major modifications to such sources, located in a non-attainment area must undergo Non-attainment New Source Review, if they have the potential to emit above an NSR significant threshold. For major new sources or major modifications in an attainment or unclassifiable area, the non-attainment provisions apply if the source or modification is located within the area of influence of a non-attainment area. The area of influence is defined as an area, which is outside the boundary of a non-attainment area, but within the locus of all points that are 50 kilometers outside the non-attainment area.

Compressor Station No. 24 is located in an area that is designated as either attainment or not classifiable for all criteria pollutants and is not located in an area of influence outside a non-attainment area. Therefore, this compressor station is not subject to federal non-attainment New Source Review.

3.1.4 Applicability of New Source Performance Standards (NSPS)

The regulation of new sources through the development of standards applicable to a specific category of sources was a significant step taken by the 1970 CAA Amendments. The Administrator was directed to publish a proposed regulation establishing a Standard of Performance for any category of new sources that cause or contribute significantly to air pollution and which may reasonably be anticipated to endanger public health. All Standards apply to all sources within a given category, regardless of geographic location or ambient air quality at the location.

Performance standards are published in 40 CFR 60. The new turbine to be installed at Compressor Station No. 24 is subject to Subpart GG, Standards of Performance for Stationary Gas Turbines, because it will have a maximum heat input at peak load of >10.7 gigajoules/hour (10 MMBtu/hr) based on the lower heating value of the natural gas fuel. This regulation establishes emission limits for NO_X and SO_2 and requires performance testing and daily monitoring of fuel nitrogen and sulfur. The applicable emission standards are provided in Table 3-4.

The NO_x emission limit for Subpart GG is calculated as follows:

$$STD = 0.0150\ (14.4/Y) + F$$

STD = Allowable NO_x emissions

Y = Heat rate at peak load not to exceed 14.4 KjJwatt-hour

F = NO_x emission allowance

The fuel bound nitrogen in natural gas is less than 0.015% by weight. Therefore, the value of F as defined in 40 CFR 60.332(3) is equal to zero.

Y = Btu/bhp-hr x 1.055 Kj/Btu x hp-hr/745.7 watt-hour

= 8,558 Btu/bhp-hr x 1.055 Kj/Btu x hp-hr/745.7 watt-hour

= 12.1

STD = 0.0150 (14.4/12.1) + 0

= 0.0178

= 178 ppm_v

Table 3-8 summarizes the NSPS applicability for the proposed gas engines.

The turbine at this facility will meet the NSPS for NO_X of 178 ppmv (i.e., manufacturer's estimation of 25 ppmv), and for SO_2 of 150 ppmv (estimated for this turbine to be 4 ppmv).

3.1.2.6 Good Engineering Practice (GEP) Stack Height Analysis

The 1977 CAA Amendments require that the emission limitation required for control of any pollutant not be affected by a stack that exceeds GEP height. Further, no dispersion credit is given during air quality modeling for stacks that exceed GEP. GEP stack height is defined as the highest of:

- 65 meters; or
- a height established by applying the formula

  HGEP = H + 1.5 L

  Where:
  HGEP = GEP Stack Height,
  H = Height of the structure or nearby structure, and
  L = Lesser dimension (height or projected width) of the nearby structure; or

Table 3-4 Applicability of New Source Performance Standards

NSPS Subpart	NSPS Regulations	Equipment	Fuel	Pollutant	Heat Input Applicability	Equipment Design Maximum*	NSPS Emission Limits	Equipment Emissions
GG	60.332(a)(2)	Engine No. 2401 Gas Turbine	Gas	NO_2	>10 MM Btu/hr	88.58 MMBtu/hr	178 ppm_v	25 ppm_v
GG	60.333(a)	Engine No. 2401 Gas Turbine	Gas	SO_2	>10 MM Btu/hr	88.58 MMBtu/hr	150 ppm_v	4 ppm_v

Design maximum based on vendor data.

- a height demonstrated by fluid modeling or field study.

A structure or terrain feature is considered nearby if a stack is within a distance of five times the structure's height or maximum projected width. Only the smaller value of the height or projected width is used and the distance to the structure cannot be greater than 0.8 kilometers. Although GEP stack height regulations require that the stack height used in modeling for determining compliance with National AAQS and PSD increments not exceed GEP stack height, the actual stack height may be greater.

The stack height regulations also increase GEP stack height beyond that resulting from the formula in cases where plume impaction occurs. Plume impaction is defined as concentrations measured or modeled to occur when the plume interacts with elevated terrain. Elevated terrain is defined as terrain that exceeds the height calculated by the GEP stack height formula. Because terrain in the vicinity of the project site is generally flat, plume impaction was not considered in determining the GEP stack height.

The proposed stack at Compressor Station No. 24 will be 58 feet (17.68 meters) tall. Based on the proposed building dimensions, the calculated GEP stack height is less than 65 meters; therefore, GEP stack height is 65 meters. Since the stack is less than GEP stack height, it complies with the regulatory requirement.

3.2 Florida State Air Quality Regulations

Compressor Station No. 24 is currently operating under Permit No. 0390029-001-AV and is subject to the provisions of that permit. Rule 62, F.A.C., contains the air quality rules and regulations for the State of Florida. The primary federal regulations that affect Compressor Station No. 24 have been incorporated into or are referenced by these rules. The significant state regulations that are applicable to the new emission units are briefly listed below.

3.2.1 Rule 62-210.300 Permits Required

FGT is required to obtain a construction permit prior to construction of new emission units. This requirement is being met by the submittal of this application.

3.2.2 Rule 62-204.240 Ambient Air Quality Standards

FGT must not violate any of the ambient air quality standards listed under this rule.

3.2.3 Rule 62-296.320(2) Objectionable Odors

This rule prohibits the discharge of pollutants that will cause or contribute to an objectionable odor.

3.2.4 Rule 62-296.320(4)(b)1 General Particulate Emission Limiting Standards.

FGT is prohibited from allowing the new compressor engine to discharge into the atmosphere the emissions of air pollutants, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity).

3.2.5 Rule 62-210.300(3)(a) Exempt Emissions Units and/or Activities.

The emissions from the emergency generator, storage tanks and the fugitive leak emissions are insignificant sources and are exempt from the permitting requirements of Chapter 62-210 Stationary Sources - General Requirements, 62-213 Operation Permits For Major Sources Of Air Pollution and 62-4 Permits.

4.0 AIR QUALITY IMPACT ANALYSIS

The Florida Department of Environmental Regulation (FDEP), Air Quality Division, requires that an ambient air quality impact analysis be performed for a proposed project's emissions. For State Authority to Construct permits, this involves comparison of the proposed project's impacts to the State and National AAQS, discussed in Section 3.0 of this report. The following section outlines the general approach used for this analysis. This approach was developed in consultation with the FDEP and conforms to the recommendations presented in the Guideline on Air Quality Models (USEPA, 1998).

4.1 Dispersion Modeling Methodology and Assumptions

This section outlines the approach used in the air dispersion modeling analysis. Model selection, meteorological data used, structure downwash considerations and predicted air quality impacts from modification of the Gilchrist County Compressor Station No. 24 are discussed.

4.1.1 General Modeling Methodology

The modeling approach follows USEPA and FDEP guidelines for determining compliance with State and National Ambient Air Quality (AAQS). Air dispersion modeling was used to determine compliance with federal and/or state AAQS.

The following procedure was followed for determining compliance with state and national standards:

- Model predictions for annual average NO_X concentrations, based on the net emission increases from the project, were obtained using the Industrial Source Complex long-term (ISCLT3) model (version 96113). The ISCLT3 model was run with 1988-1992 meteorological data. A brief description of the Industrial Source Complex (ISC3) model is given in Section 4.1.2.

- For comparison to short term AAQS (CO), the ISCST3 model (version 98356) was used.

- For comparison to annual National AAQS, the ISCLT3 was run using each of the latest five years (1988-1992) of available meteorological data. The data were processed into the Stability Array (STAR) format. The meteorological data were obtained from the USEPA SCRAM (Support Center for Regulatory Air Models) web site. ISCST3 was run with 1986-1990 meteorological data.

4.1.2 Model Selection

The ISC3 dispersion model was used to evaluate emissions from the proposed facility. The ISC3 model was selected primarily for the following reasons:

- USEPA and FDEP have approved the general use of the model for air quality dispersion analysis because the model assumptions and methods are consistent with those in the Guideline on Air Quality Models (USEPA, 1998);
- The ISC3 model is capable of predicting the impacts from stack, area, volume and open pit sources that are spatially distributed over large areas and located in flat or gently rolling terrain; and
- The results from the ISC3 model are appropriate for addressing compliance with AAQS and PSD increments.

Major features of the ISC3 model are presented in Table 4-1. The model using the steady-state Gaussian plume equation for a continuous source calculates concentrations due to point, area and volume sources.

4.1.3 Modeling Options

For modeling analyses that will undergo regulatory review, the following model options are recommended in the USEPA Guideline on Air Quality Models, and are referred to as the regulatory default options in the ISC3 models:

- Final plume rise at all receptor locations,
- Stack-tip downwash,
- Buoyancy-induced dispersion,
- Default wind speed profile coefficients for rural or urban option,
- Default vertical potential temperature gradients, and
- Reducing calculated SO_2 concentrations in urban areas by using a decay half-life of 4.

In this analysis, the USEPA Regulatory Default Options were used to address maximum impacts.

Table 4-1 Major Features of the ISC3 Model

- Polar or Cartesian coordinate systems for receptor locations
- Rural or urban option that affect windspeed profile exponent, dispersion rates, and mixing height calculations
- Plume rise as a result of momentum and buoyancy as a function of downwind distance for stack emissions (Briggs)
- Procedures suggested by Huber and Snyder (1976), Huber (1977), Schulman and Hanna (1986), and Schulman and Scire (1980) for evaluating building downwash and wake effects
- Procedures suggested by Briggs for evaluating stack-tip downwash
- Separation of multiple point sources
- Consideration of the effects of gravitational settling and dry deposition on ambient particulate concentrations
- Capability of simulating point, line, volume, and area sources
- Capability to calculate dry deposition
- Variation of windspeed with height (windspeed-profile exponent law)
- Concentration estimates for annual average
- Terrain-adjustment procedures for elevated terrain including a terrain truncation algorithm
- Receptors located above local terrain (i.e., "flagpole" receptors)
- Consideration of time-dependent exponential decay of pollutants
- The method of Pasquill (1976) to account for buoyancy-induced dispersion
- A regulatory default option to set various model options and parameters to EPA recommended values (see text for regulatory options used)

SOURCE: Users Guide for the Industrial Source Complex (ISC3) Dispersion Models, Volume I (EPA 454/B-95-003a, September 1995)

4.1.4 Selection of Dispersion Coefficients

The ISC model has rural and urban options that affect the wind speed profile, dispersion rates, and mixing-height formulations used in calculating ground level concentrations. The criteria used to determine when the rural or urban mode is appropriate are based on land use near the proposed plant's surroundings (Auer, 1978). If the land use is classified as heavy industrial, light-moderate industrial, commercial, or compact residential for more than 50 percent of the area within a 3 kilometers radius around the proposed source, the urban option is selected. Otherwise, the rural option is used. Based on a topographical map of the land within a 3-kilometer radius around the site, the rural mode was selected.

4.1.5 Meteorological Data

The EPA Guideline on Air Quality Models (USEPA, 1987b) recommends the use of 5 years of representative meteorological data in air quality modeling. The most recent, readily available 5-year period is preferred. The meteorological data may be collected either on-site or at the nearest National Weather Service (NWS) station.

The NWS station in Gainesville (12816), Florida, located approximately 34 miles south east of the site, is the most representative weather station that routinely records the hourly surface data required by the air dispersion models. Because of the proximity of this NWS station to the site, the meteorological data are considered representative of weather conditions occurring at the Trenton Compressor Station. The upper air data was obtained from Tampa (12842) approximately 118 miles to the south-southeast.

The meteorological data used in the ISCLT3 analysis were obtained from the USEPA SCRAM (Support Center for Regulatory Air Models) web site. The data consisted of a 5-year record of surface weather observations (1988-1992) collected at Gainesville, Florida. The database consists of hourly surface data (i.e., wind speed, wind direction). Upper air mixing heights were obtained from data prepared by Holzworth (USEPA, AP-101, 1972). The five years of surface data were first formatted using the USEPA Met144 program and then processed using the USEPA Stability Array (STAR) program to generate the data required by ISCLT3 model.

Meteorological data used in the ISCST3 analysis were obtained from the USEPA SCRAM (Support Center for Regulatory Air Models) web site. The data consisted of a 5-year record of surface weather observations (1987-1991) collected at Gainesville, Florida, and upper air data from Tampa (1987-1991). The data were processed using the USEPA PCrammet program.

4.1.6 Source Data

The model parameters for Compressor Station No. 24 are given in Table 4-2. The location of the proposed stack is shown on the facility plot plan (see Attachment B). The emission point listed on Table 4-2 as source 2401 corresponds to the new compressor turbine engine and source GEN01 refers to the new emergency generator engine. Table 4-3 lists the emission rates modeled for NO_X and CO. The maximum pound per hour emission rates shown in the table were input to the ISCST model to determine concentrations for short-term averaging periods. Vendor guaranteed emission rates were used to determine NO_X annual average concentrations.

Table 4-2 Summary of Source Parameters Used in the Modeling Analysis

ISC3 Model Source Number	Stack Location (True North Plant Coordinates)		Stack Dimensions		Operating Parameters	
	X (m)	Y (m)	Height (m)	Diameter* (m)	Temperature (°K)	Velocity (m/s)
2401	189.02	-102.44	17.68	2.66	718.15	13.84
GEN01	224.09	-158.54	6.10	0.15	830.93	86.00

* Effective diameter

Table 4-3 Modeled Emission Rates

SOURCE NO.	NOX		CO	
	(TONS/YR)	g/sec	(LBS/HR)	g/sec
2401	38.56	1.109	10.72	1.351
GEN01	2.21	0.064	2.42	0.305

4.1.7 Receptor Grids Modeled

For ISCST3 and ISCLT3, the following grids were used in the modeling analysis:

- A 100-meter spaced, 23 x 23 receptor grid (25 x 25 for CO), centered on the turbine stack (2401), and extending out 1.1 kilometers out in all directions was used to check for "close in" NO_X and CO maximum values.

- A 500-meter spaced, 23 x 23 receptor grid, centered on the turbine stack (2401), and extending 5.5 kilometers in all directions, was used to identify the maximum NO_X concentrations, which occurred farther outside the initial 100-m grid.

These grids were used, per guidance from FDEP and the Guideline on Air Quality Models.

4.1.8 Building Wake Effects and GEP Considerations

Based on the dimensions of the structures located at the compressor station, all stacks will be less than maximum allowable GEP (Good engineering Practice) height. Due to the location of emission points in relation to buildings and other solid structures, the stack emissions may be affected by building wakes from some of the structures. Therefore, the potential for building downwash must be considered in the modeling analysis.

The procedure used for addressing the effects of building downwash are those recommended in the User's Guide for Industrial Source Complex (ISC3) Models (USEPA, 1992). In the ISC3 model, the building heights and widths are input into the model for each direction. If the Huber Snyder building downwash routine is used, the model picks the worst-case dimension from all values. The effective width used by the program is the diameter of a circle of equal area to the square of the width input to the model.

If the Schulman-Scire wake effects method is used, the user inputs the building height and projected width associated with each wind sector. The actual inputs to the ISC3 model were generated using the USEPA BPIP Program following procedures in the guidance document (EPA-454-R-93-038, 1995. Plant coordinates of all building corners, tier corners, and emission points are input into the downwash program. The program provides direction-specific building dimensions for either the ISC3 long or short-term models, which are then directly input into the ISC3 source file.

A summary of actual building dimensions for structures considered is presented in Table 4-4. Only structures within about 500 feet of the stacks were input into the GEP model, as those at greater distances would have no effect on stack plume emissions.

Table 4-4 Building Dimensions

Building	Actual Building Dimensions		
	Height ft (m)	Length ft (m)	Width ft (m)
Compressor Building	38.0 (11.59)	78.5 (23.93)	40 (12.20)
Auxiliary Building	17.25 (5.26)	50.0 (15.24)	20.0 (6.10)

4.2 Dispersion Model Results

Modeling was performed for the increases in net emissions of NO_X and CO from Compressor Station No. 24. A summary of the maximum predicted annual NO_X and CO off-site concentration, a comparison to the AAQS, and the significance level, is shown in Table 4-5. Table 4-6 provides the maximum concentration for each meteorological data year modeled. The maximum predicted off-site NO_X impact was just outside the property line to the south of the compressor station. Most of the impact was from the emergency generator. The maximum 1-hour and 8-hour CO concentrations occurred in approximately the same location.

The output files of the dispersion modeling are included for NO_X and CO in Attachment E for receptor grids with spacing of 100-meter and 500-meter. These show maximum impacts in µg/m3 for each modeled receptor and pollutant and show the facility property boundary.

As shown, the maximum predicted, off-site, NO_X and CO concentrations were much lower than the applicable AAQS and significance levels. The results of this air dispersion modeling show that the proposed modification to the Trenton Compressor Station should have no adverse effects on the surrounding area.

Table 4-5 Dispersion Modeling Results

Maximum Predicted Average Concentration Of Modeled Pollutants And Comparison To Significant Impact Level

POLLUTANT	AVG TIME	MAX OFF-SITE ($\mu g/m^3$)	NAAOS ($\mu g/m^3$)	SIGNIFICANT IMPACT ($\mu g/m^3$)
NO_X				
SOURCE 2401	Annual	0.50	100	1
CO				
SOURCE 2401	1-hr	207.61	40,000	2,000
	8-hr	88.22	10,000	500

Table 4-6 Highest Predicted Off Property Impact by Year ($\mu g/m^3$)

Pollutant	Pollutant Averaging Period	Year of Meteorological Data				
		1988	**1989**	**1990**	**1991**	**1992**
NO_X	Annual	0.50	0.47	0.46	0.47	0.47
		1987	**1988**	**1989**	**1990**	**1991**
CO	1hour	207.61	205.67	207.61	204.83	202.55
CO	8-hour	88.22	58.51	68.84	56.90	55.67

5.0 REFERENCES

Auer, A.H. 1978. Correlation of Land Use and Cover With Meteorological Anomalies. J. Appl. Meteor., Vol 17.

U.S. Environmental Protection Agency (USEPA). 1972. Holzworth, George C., Mixing Heights, wind speeds, and Potential for Urban air Pollution Throughout the Contiguous United States, AP-101

U.S. Environmental Protection Agency (USEPA). 1980. PSD Workshop Manual. Research Triangle Park, NC.

U.S. Environmental Protection Agency (USEPA). 1997. Guideline on Air Quality Models, 4O CFR 51 Appendix W.

U.S. Environmental Protection Agency (USEPA). 1998. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources (5th Ed.) AP-42. Research Triangle Park, NC.

U.S. Environmental Protection Agency (USEPA). 1995. User's Guide for the Building Profile Input Program, EPA-454/R-93-038.

U.S. Environmental Protection Agency (USEPA). 1995. User's Guide for the Industrial Source Complex (ISC3) Dispersion Models, Vol. I EPA-454/B-95-003a.

Attachment A

DEP Forms

Department of
Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Florida Gas Transmission Company	
2. Site Name: Compressor Station No. 24	
3. Facility Identification Number:	[X] Unknown
4. Facility Location: Street Address or Other Locator: Intersection of U.S. Highway 129 and SW 50th Street City: Trenton County: Gilchrist Zip Code: 32693	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [ ] Yes [X] No

Application Contact

1. Name and Title of Application Contact: Clayton Roesler, Division Environmental Specialist
2. Application Contact Mailing Address: Organization/Firm: Florida Gas Transmission Company Street Address: 601 S. Lake Destiny Dr., #450 City: Maitland State: FL Zip Code: 32751
3. Application Contact Telephone Numbers: Telephone: (407)- 838-7123 Fax: (407)- 838-7101

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

[ ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number:_____

[ ] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number:_____

Operation permit number to be revised:_____

[ ] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

_____

[ ] Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Leonard L. Hilton, Vice President, Operations

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: Florida Gas Transmission Company
   Street Address: 1400 Smith Street
   City: Houston State: TX Zip Code: 77002

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: (713) 345-7162 Fax: (713) 646-4808

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Leonard L. Hilton — Signature

12/27/99 — Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: David Holmes Parham
   Registration Number: 50834

2. Professional Engineer Mailing Address:
   Organization/Firm: Florida Gas Transmission Company
   Street Address: 601 S. Lake Destiny Dr. Suite
   City: Maitland State: FL Zip Code: 32751

3. Professional Engineer Telephone Numbers:
   Telephone: (407) 875-5827 Fax: (407) 875-5896

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [ ], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

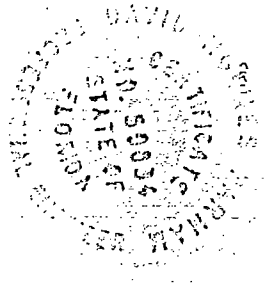
If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

12/27/99
Date

(seal)

* Attach any exception to certification statement.



Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
	Solar Mars 90 T13002S Turbine rated at 10,350 hp, Engine 2401	AC1D	$2,000.00
	New Emergency generator, 443 hp Caterpillar 3406 Reciprocating engine, engine GEN01		
	Fugitive emissions from equipment leaks		
	2500 gallon New Lube Oil Tank		
	1000 gallon Diesel Fuel Tank		

Application Processing Fee

Check one: [X] Attached - Amount: $__2,000.00_____ [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Construction of a new gas pipeline compressor station.

Installation of a new gas fired Solar Mars 90 T-13002S compressor turbine rated at 10,350 horsepower ISO.

Installation of a diesel-fired emergency generator rated at 300 kW (443 hp) Caterpillar Model 3406.

Installation of 2500 gallon tank for lube oil storage and 1000 gallon tank for diesel fuel storage.

2. Projected or Actual Date of Commencement of Construction: 09/01/00

3. Projected Date of Completion of Construction: 01/01/01

Application Comment

This proposed new facility is part of FGT's Phase IV expansion project, aimed at increasing the supply capacity of FGT's network servicing domestic, commercial, and industrial customers in Florida.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17	East (km): 321.323	North (km): 3282.787	
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 29/39/51		Longitude (DD/MM/SS): 82/50/46	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 48	6. Facility SIC(s): 4922
7. Facility Comment (limit to 500 characters): Compressor Station No. 24 will be a natural gas pipeline compressor station with one compressor engine. It will be classified as a minor source under New Source Review and Title V definitions.			

Facility Contact

1. Name and Title of Facility Contact: Ronald Barnett, Team Environmental Leader			
2. Facility Contact Mailing Address: Organization/Firm: Florida Gas Transmission Company Street Address: Hwy. 239 2 miles north of Brooker (P.O. Box 8) City: Brooker	State: FL	Zip Code: 32622-0269	
3. Facility Contact Telephone Numbers: Telephone: (352)485-2764	Fax: (352)485-2723		

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [ ] Synthetic Non-Title V Source?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters):	
Facility is a minor source for PSD and Title V purposes. New turbine will be subject to NSPS Subpart GG. The project is not subject to PSD since the emissions are less than the levels for a major source.	

Rule Applicability Analysis

FDEP Title V Core List

62-296.320(4)(b)1 General Visibile Emissions Standards

40 CFR 60, Subpart GG Standards of Performance for Stationary Gas-fired Turbines

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
NO_X	B				
CO	B				
VOC	B				
SO_2	B				
PM	B				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID:Narrative Fig 1-1 [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID:_Att. B [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [ ] Attached, Document ID:_____ [X] Not Applicable [X] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: Attach. C [ ] Not Applicable
6. Supplemental Requirements Comment:

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

10,350 bhp natural gas fired turbine compressor unit

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/01/01	49

7. Emissions Unit Comment: (Limit to 500 Characters)

The proposed turbine engine will be a Solar Mars T-90-T13002S engine compressor unit ISO rated at 10,350 bhp at 10,800 revolutions per minute. Fuel will be exclusively natural gas from the FGT's gas pipeline. The proposed engine will incorporate dry, low NO_X combustion technology.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

The proposed engine will incorporate dry, low NOX combustion technology.

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Solar
   Model Number: Mars 90 T13002S
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: 89
2. Maximum Incineration Rate: lb/hr
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

Heat input is 88.58 MM Btu/hr based on vendor specifications of 8,558 Btu/hp-hr and 10,350 bhp.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? 2401	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 58 feet	7. Exit Diameter: 8.74 feet
8. Exit Temperature: 838 °F	9. Actual Volumetric Flow Rate: 163,484 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 321.323 North (km): 3282.787		
14. Emission Point Comment (limit to 200 characters): Stack is rectangular in cross section at 7.5 ft. x 8 ft. Diameter given above is equivalent diameter (De) of stack.		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Natural gas fired turbine engine driving a natural gas compressor, operating full time.		
2. Source Classification Code (SCC): 2-02-002-01	3. SCC Units: million cubic feet burned	
4. Maximum Hourly Rate: 0.0937	5. Maximum Annual Rate: 820.7	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.03	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 1040
10. Segment Comment (limit to 200 characters): Based on vendor supplied fuel rate of 88.58 MMBtu/hr plus 10%. Percent sulfur is base on maximum Federal Energy Regulatory Commission (FERC) limit of 10 gr S/100 scf and gas density of 0.0455 lb/scf.		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 099	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 8.80 lb/hour 38.56 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 38.56 Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(38.56 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 8.80 lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Vendor's data based on ISO conditions.

Allowable Emissions Allowable Emissions __1___ of __1___

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 25	4. Equivalent Allowable Emissions: 8.8 lb/hour 38.56 tons/year

5. Method of Compliance (limit to 60 characters):

Initial performance test.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

40 CFR 60.332(3) limits NOX emissions to 178 ppmv.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 10.72 lb/hour 46.95 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 46.95 Reference: Vendor's data		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (46.95 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 10.72 lb/hr		
11. Pollutant Potential Emissions Comment (limit to 200 characters): Vendor's data based on ISO conditions.		

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.31 lb/hour 1.34 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 1.3446 tpy Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

Vendor factor for unburned hydrocarbons (UHC) = 13.446 tpy.
Assume 10% is VOC.
(1.34 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 0.31 lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Vendor's data based on ISO conditions.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 2.68 lb/hour 11.7 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 10 gr/100scf Reference: Vendor's fuel use data		9. Emissions Method Code: 2

10. Calculation of Emissions (limit to 600 characters):

(10 gr S/100 scf)(0.0937 MMscf/hr)(1 lb/7000 gr) = 1.34 lb S/hr
(1.34 lb S/hr)(2 lb SO2/lb S) = 2.68 lb SO2/hr
(2.68 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 11.72 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

SO2 emission factor is based on maximum Federal Energy Regulatory Commission (FERC) limit of 10 gr S/100 scf and gas density of 0.0455 lb/scf.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 4 ppmv	4. Equivalent Allowable Emissions: 2.68 lb/hour 11.73 tons/year

5. Method of Compliance (limit to 60 characters):

Initial performance test.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

40 CFR 60.332(3) limits SO2 emissions to 150 ppmv.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.47 lb/hour 2.05 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 5 lb/MMscf Reference: Table 1.4-1, AP-42 5th Ed.		9. Emissions Method Code: 4

10. Calculation of Emissions (limit to 600 characters):

(5 lb/MMscf)(0.0937 MMscf/hr) = 0.47 lb/hr
(0.47 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 2.05 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's fuel use data.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.47 lb/hour 2.05 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 5 lb/MMscf Reference: Table 1.4-1, AP-42 5th Ed.		9. Emissions Method Code: 4
10. Calculation of Emissions (limit to 600 characters): (5 lb/MMscf)(0.0937 MMscf/hr) = 0.47 lb/hr (0.47 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 2.05 ton/yr		
11. Pollutant Potential Emissions Comment (limit to 200 characters): Based on vendor's fuel use data.		

Allowable Emissions Allowable Emissions __NA__ of __ __

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Emergency generator powered by a Caterpillar Model 3406 rated at 443 bhp

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/01/01	49

7. Emissions Unit Comment: (Limit to 500 Characters)

The proposed generator engine will be a Caterpillar Model 3406 reciprocating engine rated at 300 kW (443) and fueled by diesel fuel. The unit will be operated no more than 500 hours per year.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Caterpillar
   Model Number: 3406
2. Generator Nameplate Rating: 0.300 MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: 3.9
2. Maximum Incineration Rate: lb/hr
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:
   hours/day days/week
   weeks/year 500 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):

   Heat input is 3.946 MM Btu/hr based on vendor specifications of 28.8 gal of diesel fuel and a fuel heat value of 137,000 Btu/gal.

   Schedule will be limited to 500 hours per year.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? GEN01	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 20 feet	7. Exit Diameter: 0.50 feet
8. Exit Temperature: 700 °F	9. Actual Volumetric Flow Rate: 3,323 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 321.241 North (km): 3282.727		
14. Emission Point Comment (limit to 200 characters): This 443 bhp emergency generator not be operated more than 500 hours per year.		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Natural gas fired reciprocating engine driving a 300 Kw generator, operating no more than 500 hours per year.		
2. Source Classification Code (SCC): 2-02-001-02	3. SCC Units: 1000 gallons burned	
4. Maximum Hourly Rate: 0.0288	5. Maximum Annual Rate: 14.4	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.04	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 137,000
10. Segment Comment (limit to 200 characters): Based on vendor supplied fuel rate of 28 gal/hr and and Btu per gallon value from USEPA AP-42 Appendix A.		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section __2___ of __5___

Pollutant Detail Information Page ___1__ of ___6__

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 8.82 lb/hour 2.21 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 8.82 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(8.82 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 2.21 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's data.

Allowable Emissions Allowable Emissions __1___ of __1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: NA	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

None

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 2.42 lb/hour 0.61 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 2.42 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(2.42 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.61 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's data.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

None

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.015 lb/hour 0.004 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.015 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

Vendor factor for total hydrocarbons (TOC) = 0.15 lb/hr.
Assume 10% is VOC.
(0.015 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.004 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Vendor's data based on ISO conditions.

Allowable Emissions Allowable Emissions __NA__ of __ __

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2	2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.60 lb/hour 0.15 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.60 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (0.60 lb SO2/hr)(500 hr/yr)(1 ton/2000 lb) = 0.15 ton/yr		
11. Pollutant Potential Emissions Comment (limit to 200 characters): SO2 emission factor is based on maximum Federal Energy Regulatory Commission (FERC) limit of 10 gr S/100 scf and gas density of 0.0455 lb/scf.		

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: NA	4. Equivalent Allowable Emissions: NA lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.714 lb/hour 0.179 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.714 lb/hr Reference: Vendor's data.		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(0.714 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.179 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's data.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.714 lb/hour 0.179 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.714 lb/hr Reference: Vendor's data.		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (0.714 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.179 ton/yr		
11. Pollutant Potential Emissions Comment (limit to 200 characters): Based on vendor's data.		

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Maintain record of hours of operation.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Fugitive emissions from component leaks

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/01/01	49

7. Emissions Unit Comment: (Limit to 500 Characters)

These are new fugitive leak emissions from new components (valves, flanges, etc.).

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer:
   Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? FUGITIVE	2. Emission Point Type Code: 4

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

NA

5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %

11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 0 feet

13. Emission Point UTM Coordinates:

Zone: 17 East (km): 321.323 North (km): 3282.787

14. Emission Point Comment (limit to 200 characters):

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Fugitive emissions from component leaks.		
2. Source Classification Code (SCC): 3-10-888-11	3. SCC Units: MM cubic feet produced	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: component count
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Based on count of new components and USEPA emission factors provided in EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.0731 lb/hour 0.32 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: lb/hr/component Reference: EPA-453/R-95-017, Protocol for Equipment Leak EmissionEstimates"		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(EPA factor for specific component type) (number of components of specific type) = tpy.
Assume non-methane/non-ethane fraction is 5%.
(tons/year)(2000 lb/ton)(1 yr/8760 hr) = lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Factors vary by component type. See Attachment D for specific factors and calculations.

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

None

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

2,500-gallon horizontal lube oil storage tank.

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/01/01	49

7. Emissions Unit Comment: (Limit to 500 Characters)

Tank is horizontal and measures approximately 16 feet long by 5 foot diameter. It is pressurized to 50 psi at all times except when being refilled.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer:
   Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: 2500 gallons per year
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Lube01	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 8 feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 321.323 North (km): 3282.787		
14. Emission Point Comment (limit to 200 characters): 2500 gallon horizontal tank		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Working loss only. Pressurized except when loading.		
2. Source Classification Code (SCC): 4-07-016-14	3. SCC Units: 1000 gallons throughput	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: 2.5
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Tank is pressurized except when loading.		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section __4___ of __5___

Pollutant Detail Information Page ___1_ of ___1__

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: <0.01 lb/hour <0.01 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: Reference: USEPA AP-42 Tanks3.1 Program		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): Calculated using USEPA Tanks program, version 3.1. See Attachment D for output.		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year
5. Method of Compliance (limit to 60 characters): Maintain record of hours of operation.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

1,000-gallon horizontal diesel fuel storage tank.

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/01/01	49

7. Emissions Unit Comment: (Limit to 500 Characters)

Tank is horizontal and measures approximately 11 feet long by 4-foot diameter.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer:
   Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: 1000 gallons per year
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Diesel01	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 8 feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 321.323 North (km): 3282.787		
14. Emission Point Comment (limit to 200 characters): 1000 gallon horizontal tank		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment __1__ of ___2__

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Working loss.		
2. Source Classification Code (SCC): 4-07-016-14	3. SCC Units: 1000 gallons throughput	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: 2.5
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): None		

Segment Description and Rate: Segment _2__ of __2___

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Breathing loss.		
2. Source Classification Code (SCC): 4-07-016-14	3. SCC Units: 1000 gallon capacity	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: <0.01 lb/hour <0.01 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: Reference: USEPA AP-42 Tanks3.1 Program		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): Calculated using USEPA Tanks program, version 3.1. See Attachment D for output.		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year
5. Method of Compliance (limit to 60 characters): Maintain record of hours of operation.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: 40 CFR 60 Appendix A Method 9	
5. Visible Emissions Comment (limit to 200 characters): Subject to 62-296-320(4)(b)1 General Visible Emissions Standards.	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

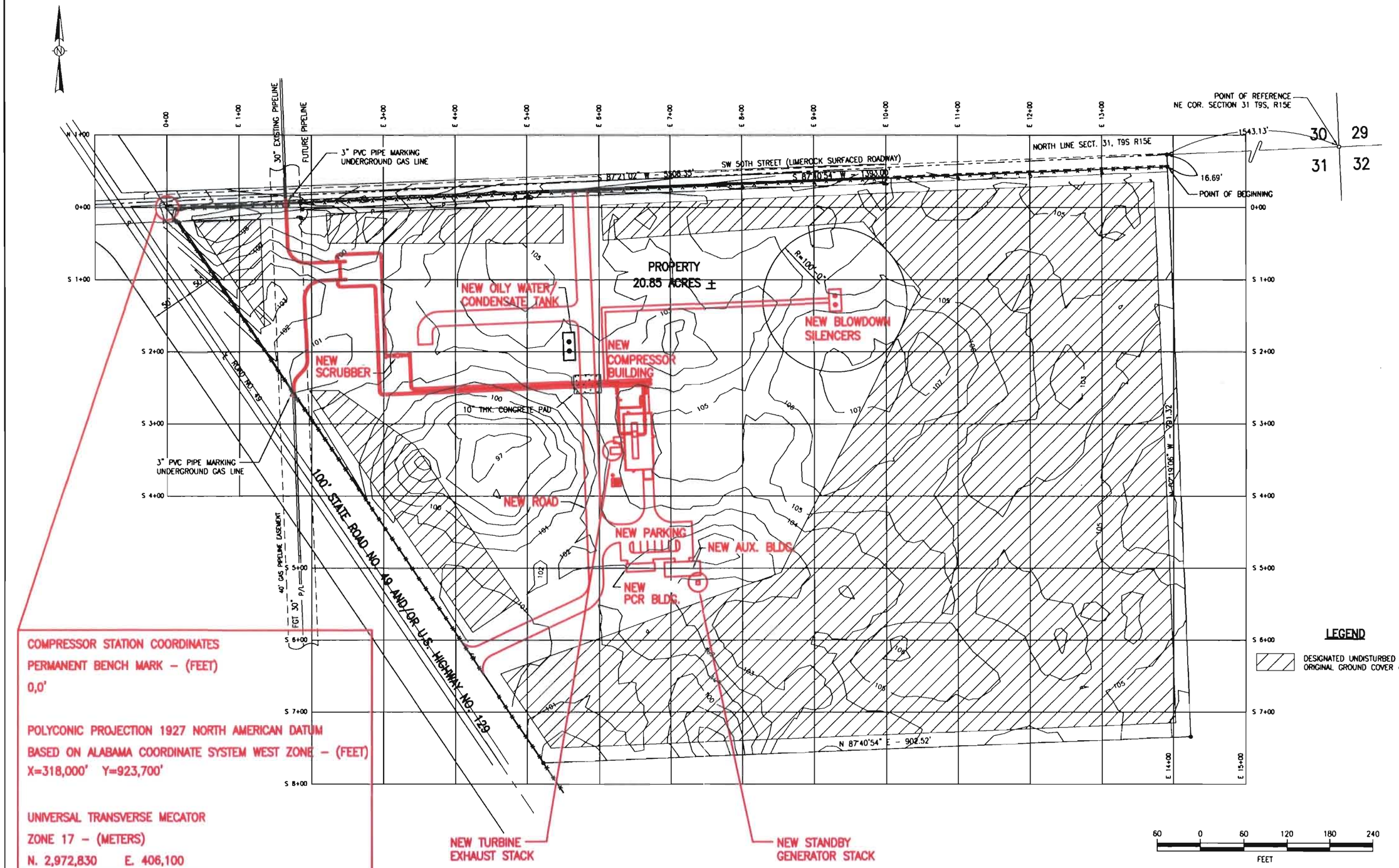
G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:_Narrative_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

Attachment B

Plot Plan



COMPRESSOR STATION COORDINATES
PERMANENT BENCH MARK – (FEET)
0,0'

POLYCONIC PROJECTION 1927 NORTH AMERICAN DATUM
BASED ON ALABAMA COORDINATE SYSTEM WEST ZONE – (FEET)
X=318,000' Y=923,700'

UNIVERSAL TRANSVERSE MECATOR
ZONE 17 – (METERS)
N. 2,972,830 E. 406,100

DWG. NO.	REFERENCE DRAWING TITLE

NO.	REVISION – DESCRIPTION	BY	DATE	CHK'D	APP'D
C	REVISED AS PER CLIENT COMMENT	GDS	9/9/99		
B	ISSUED FOR BID	GDS	8/20/99		

DWG. STATUS	CHECKED BY	CHECKED DATE	APPROVED BY	APPROVED DATE	APPROVED BY	APPROVED DATE
PREL'Y						
BID						
CONSTR.						

CADDS — PLOT DATE: 10/14/1999 – 14:22; FILE NAME: 307M31A.DWG

P.L./STA. ACCT. NO. 124
CONSTRUCTION YR 1999

	BY	DATE
DESIGN	FD	02/01/99
DRAWN	FAS	02/01/99
ASBUILT		
FILE NO.		
SCALE	1"=60'-0" @ 36"x24"	

Enron Engineering & Construction Co.
Florida Gas Transmission CO.
Maitland, Fla.

COMPRESSOR STATION NO. 24
PHASE IV EXPANSION
SITE PLAN

GILCHRIST COUNTY, FLORIDA

AFE/WORK ORDER S99326
ASBUILT DWG. NO.
CONSTRUCTION DWG. NO. M3-1A
SHEET 1 OF 1
REV. NO. C

Attachment C

Vendor Information

Solar Mars 90-T13002S Turbine

Caterpillar Model 3406 Diesel-fired Reciprocating Engine

Solar Mars 90-T13002S Turbine

NEW EQUIPMENT PREDICTED EMISSION PERFORMANCE
DATA FOR STATION 12

Fuel: SD NATURAL GAS Customer:
Water Injection: NO Inquiry Number:
Model: MARS 90-T13002S CS/MD 122F MATCH GAS
Emissions Data: REV. 0.0

CRITICAL WARNINGS IN USE OF DATA FOR PERMITTING

1. Short term permitting values such as PPMV or lbs/hr should be based on worst case actual operating conditions specific to the application and the site. Worst case for one pollutant is not necessarily the same for another. The values on this form are only predicted emissions at one specific operating condition; not necessarily the worst case.

2. Long term reference emission units (e.g. tons/yr) should reference the average conditions at the site (e.g. ISO). That number should not be derived from the worst case value referenced above, or conversely this average must not be used to calculate worst case.

3. Nominal values are based on actual test results, or predicted in the case of no actual engine tests. Expected maximum values should be referenced for permitting.

4. If a SoLoNOx model is planned to be installed in the future, use no less than 50 PPMv CO.

The following predicted emissions performance is based on the following specific single point: (see attached)

Hp= 10350, %Full Load= 81.3, Elev= 0 ft, %RH= 60.0, Temperature= 59.0 F

NOX		CO		UHC		
NOM	MAX	NOM	MAX	NOM	MAX	
*	25.00	*	50.00	*	25.000	PPMvd at 15% O2
*	38.56	*	46.95	*	13.446	ton/yr

* NOMINAL EMISSIONS DATA UNAVAILABLE FOR THIS ENGINE

OTHER IMPORTANT NOTES

1. Solar does not provide maximum values for water-to-fuel ratio, SOx, particulates, or conditions outside those above without separate written approval.
2. Solar can optionally provide factory testing in San Diego to ensure the actual unit(s) meet the above values within the tolerances quoted. Pricing and schedule impact will be provided upon request.
3. Fuel must meet Solar standard fuel specification ES 9-98. Predicted emissions are based on the attached fuel composition, or, San Diego natural gas or equivalent.
4. If the above information is being used regarding existing equipment, it should be verified by actual site testing.

SOLAR TURBINES INCORPORATED
ENGINE PERFORMANCE CODE REV. 2.84
JOB ID:

DATE RUN: 7-SEP-99
RUN BY: Corrine XXCasadonte

MARS 90-T13002S
CS/MD
122F MATCH
GAS
TME-2S REV. 2.1

STATION 12

DATA FOR MINIMUM PERFORMANCE

Fuel Type	SD NATURAL GAS	
Elevation	Feet	0
Inlet Loss	in. H2O	0
Exhaust Loss	in. H2O	0
Engine Inlet Temp.	Deg. F	59.0
Relative Humidity	%	60.0
Inlet Loss	Hp	0
Exhaust Loss	Hp	0
Driven Equipment Speed	RPM	7931
Optimum Equipment Speed	RPM	7931
Gas Generator Speed	RPM	10801
Specified Load	Hp	10350
Net Output Power	Hp	10350
Fuel Flow	MMBtu/hr	88.58
Heat Rate	Btu/Hp-hr	8558
Inlet Air Flow	lbm/hr	296412
Engine Exhaust Flow	lbm/hr	299731
PCD	psi(g)	202.4
PT Inlet Temp. (T5)	Deg. F	1180
Compensated PTIT	Deg. F	1199
Exhaust Temperature	Deg. F	833

NEW EQUIPMENT PREDICTED EMISSION PERFORMANCE
DATA FOR STATION 12

Fuel: SD NATURAL GAS Customer:
Water Injection: NO Inquiry Number:
Number of Engines Tested: 0
Model: MARS 90-T13002S CS/MD 122F MATCH GAS
Emissions Data: REV. 0.0

CRITICAL WARNINGS IN USE OF DATA FOR PERMITTING

1. Short term permitting values such as PPMV or lbs/hr should be based on worst case actual operating conditions specific to the application and the site. Worst case for one pollutant is not necessarily the same for another. The values on this form are only predicted emissions at one specific operating condition; not necessarily the worst case.

2. Long term reference emission units (e.g. tons/yr) should reference the average conditions at the site (e.g. ISO). That number should not be derived from the worst case value referenced above, or conversely this average must not be used to calculate worst case.

3. Nominal values are based on actual test results, or predicted in the case of no actual engine tests. Expected maximum values should be referenced for permitting.

4. If a SoLoNOx model is planned to be installed in the future, use no less than 50 PPMv CO.

The following predicted emissions performance is based on the following specific single point: (see attached)

Hp= 10350, %Full Load= 86.4, Elev= 90 ft, %RH= 100.0, Temperature= 65.0 F

NOX		CO		UHC		
NOM	MAX	NOM	MAX	NOM	MAX	
*	25.00	*	50.00	*	25.000	PPMvd at 15% O2
*	38.12	*	46.41	*	13.292	ton/yr

Hp= 10156, %Full Load= 100.0, Elev= 90 ft, %RH= 100.0, Temperature= 95.0 F

NOX		CO		UHC		
NOM	MAX	NOM	MAX	NOM	MAX	
*	25.00	*	50.00	*	25.000	PPMvd at 15% O2
*	37.51	*	45.67	*	13.080	ton/yr

* NOMINAL EMISSIONS DATA UNAVAILABLE FOR THIS ENGINE

OTHER IMPORTANT NOTES

1. Solar does not provide maximum values for water-to-fuel ratio, SOx, particulates, or conditions outside those above without separate written approval.
2. Solar can optionally provide factory testing in San Diego to ensure the actual unit(s) meet the above values within the tolerances quoted. Pricing and schedule impact will be provided upon request.
3. Fuel must meet Solar standard fuel specification ES 9-98. Predicted emissions are based on the attached fuel composition, or, San Diego natural gas or equivalent.
4. If the above information is being used regarding existing equipment, it should be verified by actual site testing.

SOLAR TURBINES INCORPORATED
ENGINE PERFORMANCE CODE REV. 2.84
JOB ID:

DATE RUN: 7-SEP-99
RUN BY: Corrine XXCasadonte

MARS 90-T13002S
CS/MD
122F MATCH
GAS
TME-2S REV. 2.1

STATION 12

DATA FOR MINIMUM PERFORMANCE

Fuel Type	SD NATURAL GAS		
Elevation	Feet	90	
Inlet Loss	in. H2O	4.0	
Exhaust Loss	in. H2O	4.0	
Engine Inlet Temp.	Deg. F	65.0	95.0
Relative Humidity	%	100.0	100.0
Elevation Loss	Hp	36	35
Inlet Loss	Hp	195	193
Exhaust Loss	Hp	86	87
Driven Equipment Speed	RPM	7944	8098
Optimum Equipment Speed	RPM	7944	8098
Gas Generator Speed	RPM	10898	11168
Specified Load	Hp	10350	FULL
Net Output Power	Hp	10350	10156
Fuel Flow	MMBtu/hr	88.15	88.68
Heat Rate	Btu/Hp-hr	8517	8731
Inlet Air Flow	lbm/hr	291346	274886
Engine Exhaust Flow	lbm/hr	294661	278281
PCD	psi(g)	202.9	196.3
PT Inlet Temp. (T5)	Deg. F	1185	1256
Compensated PTIT	Deg. F	1203	1266
Exhaust Temperature	Deg. F	841	909

Caterpillar Model 3406 Diesel-fired Reciprocating Engine

Print Key Output Page 1
5730SS1 V2R3M0 931217 ALTORFER 12/04/95 13:37:04

Display Device . . . . . : EME0223
User . . . . . : XUPB03CWT

-GKGPE1- TMI - ENGINE AND COMP PERF DATE: 12/04/95
09 - PACKAGE SET PERFORMANCE TIME: 13:37:19
3406C DI TA JW DRY MANF TURBO QTY HYDRA GOV
TM8104-05 PGS STANDBY 60 HERTZ EXH STK DIA 5.0 IN
GEN 400.0 W/F EKW 409.0 W/O F EKW 574 W/F BHP 587 W/O F BHP @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING
"NOT TO EXCEED DATA"

GEN PWR EKW	% LOAD	ENG PWR BHP	NOX (AS NO2) LB/HR	CO LB/HR	TOTAL HC LB/HR	CO2 LB/HR	SOX (AS SO2) LB/HR	MD O2 (DRY) PART IN EXH MATTER (VOL) LB/HR	%	SMOKE OPAC %	BOSCH SMOKE NO.
400.0	100	587	7.96	19.33	.03	505.4	.81	5.602	7.14	8.0	2.48
300.0	75	443	8.82	2.42	.15	407.0	.60	.714	10.13	4.1	1.78
200.0	50	299	6.33	.66	.14	287.2	.42	.284	11.25	4.5	1.89
100.0	25	160	3.13	.60	.12	170.8	.24	.219	13.63	4.5	1.91
40.0	10	74	1.57	.92	.20	99.3	.14	.198	20.80	3.9	1.98

PRESS <ENTER> FOR ADDITIONAL DATA
NEXT TRAN: INFO CODE (05) UNIT TYPE (E) NOM ( ) EURO DISPL ( )
HLP-F1 ACF-F3 PGM-F4 SEL-F5 IDX-F9

Print Key Output Page 1
5738SS1 V2R3M0 931217 ALTORFER 12/04/95 13:37:17

Display Device . . . . . . : EMB0223
User . . . . : XUPB03CWT

-GKGPE2- TMI - ENGINE AND COMP PERF DATE: 12/04/95
09 - PACKAGE SET PERFORMANCE TIME:
3406C DI TA JW DRY MANF TURBO QTY HYDRA GOV
TM8104-05 PGS STANDBY 60 HERTZ EXH STK DIA 5.0 IN
GEN 400.0 W/F EKW 409.0 W/O F EKW 574 W/F BHP 587 W/O F BHP @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * * * * RATED CONDITIONS * * STANDARD TIMING
"NOT TO EXCEED DATA"
AT RATED:
WET EXHAUST MASS .... 5203 LB/HR
WET EXHAUST FLOW (1036 DEG F STACK TEMP) .... 3323 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)... 1092 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)... 979 STD CFM
FUEL FLOW RATE .... 28.8 GAL/HR

PRESS <ENTER> TO CONTINUE
NEXT TRAN: INFO CODE (06) UNIT TYPE (E)
HLP-F1 ACF-F3 PGN-F4 SEL-F5 IDX-F9

Attachment D

Emission Calculations

Engine Emissions

Fugitive Leak Emissions

Tank Emissions

Compressor Station No. 24
Engine No. 2401

NOx Emissions: (Based on Vendor Data)

lb NOx/hr =8.80

tons NOx/yr =(lb NOx/hr)(hr/yr)(1 ton/2000 lb)
=(8.8 lb NOx/hr)(8760 hr/yr)(1 ton/2000 lb)
=38.560

CO Emissions: (Based on Vendor Data)

lb CO/hr =10.72

tons CO/yr =(lb CO/hr)(hr/yr)(1 ton/2000 lb)
=(10.7 lb CO/hr)(8760 hr/yr)(1 ton/2000 lb)
=46.950

VOC Emissions: (Based on Vendor Data)

lb VOC/hr =0.306

tons VOC/yr =(lb VOC/hr)(hr/yr)(1 ton/2000 lb)
=(0.31 lb VOC/hr)(8760 hr/yr)(1 ton/2000 lb)
=1.3400

SO2 Emissions: (Based on FERC Limits)

lb S/hr =(gr S/100 scf)(MMscf/hr)(1 lb/7000 gr)
=(10 gr S/100 scf)(0.0937 MMscf/hr)(1 lb/7000 gr)
=1.34

lb SO2/hr =(lb S/hr)(2 lb SO2/lb S)
=(1.34 lb S/hr)(2 lb SO2/lb S)
=2.68

tons SO2/yr =(lb SO2/hr)(hr/yr)(1 ton/2000 lb)
=(2.68 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb)
=11.7247

PM Emissions: (Based on AP-42, 5th Ed. Table 1.4-2)

lb PM/hr =(lb PM/MMscf)(MMscf/hr)
=(5.0 MMscf/hr)(0.0937 MMscf/hr)
=0.4685

tons PM/yr =(lb PM/hr)(hr/yr)(1 ton/2000 lb)
=(5.0 lb PM/hr)(8760 hr/yr)(1 ton/2000 lb)
=2.05

PM10 Emissions: (Based on AP-42, 5th Ed. Table 1.4-2)

lb PM10/hr =(lb PM10/MMscf)(MMscf/hr)
=(5.0 MMscf/hr)
=0.47

tons PM10/yr =(lb PM10/hr)(hr/yr)(1 ton/2000 lb)
=(5.0 MMscf/hr)(0.0937 MMscf/hr)
=2.05

Engine No. Gen 1
EPN: GEN01

NOx Emissions: (Based on Vendor Data)

lb NOx/hr =8.82

tons NOx/yr =(lb NOx/hr)(hr/yr)(1 ton/2000 lb)
=(8.8 lb NOx/hr)(500 hr/yr)(1 ton/2000 lb)
=2.21

CO Emissions: (Based on Vendor Data)

lb CO/hr =2.42

tons CO/yr =(lb CO/hr)(hr/yr)(1 ton/2000 lb)
=(2.4 lb CO/hr)(500 hr/yr)(1 ton/2000 lb)
=0.61

VOC Emissions: (Based on Vendor Data)

lb VOC/hr =0.015

tons VOC/yr =(lb VOC/hr)(hr/yr)(1 ton/2000 lb)
=(0.015 lb VOC/hr)(500 hr/yr)(1 ton/2000 lb)
=0.004

SO2 Emissions: (Based on 0.031)

lb SO2/hr =0.60

tons SO2/yr =(lb SO2/hr)(hr/yr)(1 ton/2000 lb)
=(0.60 lb SO2/hr)(500 hr/yr)(1 ton/2000 lb)
=0.15

PM Emissions: (Based on Vendor Data)

lb PM/hr =0.714

tons PM/yr =(lb PM/hr)(hr/yr)(1 ton/2000 lb)
=(0.714 lb PM/hr)(500 hr/yr)(1 ton/2000 lb)
=0.18

PM10 Emissions: (Based on Vendor Data)

lb PM10/hr =0.714

tons PM10/yr =(lb PM10/hr)(hr/yr)(1 ton/2000 lb)
=(0.71 lb PM/hr)(500 hr/yr)(1 ton/2000 lb)
=0.18

Fugitive Emissions Calculations

New Emissions					
Component	**Service**	**Component Count**	**Emissions * Factor (ton/yr)**	**NM/NE Fraction**	**Emissions (ton/yr)**
Valves	Gas	135	0.0434606	0.05	0.29
Flanges	Gas	166	0.0037666	0.05	0.03
Open-Ended Line	Gas	0	0.0193158	0.05	0.00
Pumps	Gas	0	0.023179	0.05	0.00
Other	Gas	1	0.0849895	0.05	<0.01
				TOTAL:	**0.32**

*"EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak EmissionEstimates"

Tanks3 Calculations Output

TANKS PROGRAM 3.1 — 11/01/99
EMISSIONS REPORT - SUMMARY FORMAT — PAGE 1
TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification
- Identification No.: 24/Lube1
- City: Trenton
- State: FL
- Company: FGT
- Type of Tank: Horizontal Fixed Roof
- Description: CS 24 Phase IV Lube Oil

Tank Dimensions
- Shell Length (ft): 16.0
- Diameter (ft): 5.0
- Volume(gallons): 2500
- Is tank underground? (Y/N): N
- Turnovers: 1.0
- Net Throughput (gal/yr): 2500

Paint Characteristics
- Shell Color/Shade: White/White
- Shell Condition: Good

Breather Vent Settings
- Vacuum Setting (psig): -0.03
- Pressure Setting (psig): 0.03

Meteorological Data Used in Emission Calculations: Gainesville, Florida (Avg Atmospheric Pressure = 14.7 psia)

TANKS PROGRAM 3.1 11/01/99
EMISSIONS REPORT - SUMMARY FORMAT PAGE 2
LIQUID CONTENTS OF STORAGE TANK

Vapor Pressure Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Calculations
Lube Oil	All	70.54	64.73	76.35	68.62	0.0028	0.0023	0.0035	190.000			190.00	Option 1

TANKS PROGRAM 3.1 11/01/99
EMISSIONS REPORT - SUMMARY FORMAT PAGE 3
INDIVIDUAL TANK EMISSION TOTALS

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Working	Total
Lube Oil	0.27	0.03	0.30
Total:	0.27	0.03	0.30

TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification
- Identification No.: 24/Diesel
- City: Trenton
- State: FL
- Company: FGT
- Type of Tank: Horizontal Fixed Roof
- Description: CS 24 Phase IV Diesel Tk

Tank Dimensions
- Shell Length (ft): 11.0
- Diameter (ft): 4.0
- Volume(gallons): 1000
- Is tank underground? (Y/N): N
- Turnovers: 1.0
- Net Throughput (gal/yr): 1000

Paint Characteristics
- Shell Color/Shade: White/White
- Shell Condition: Good

Breather Vent Settings
- Vacuum Setting (psig): -0.03
- Pressure Setting (psig): 0.03

Meteorological Data Used in Emission Calculations: Gainesville, Florida (Avg Atmospheric Pressure = 14.7 psia)

TANKS PROGRAM 3.1 11/01/99
EMISSIONS REPORT - SUMMARY FORMAT PAGE 2
LIQUID CONTENTS OF STORAGE TANK

Vapor Pressure Mixture/Component Calculations	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for
Distillate fuel oil no. 2 A=12.1010, B=8907.0	All	70.54	64.73	76.35	68.62	0.0091	0.0076	0.0109	130.000			130.00	Option 3:

TANKS PROGRAM 3.1 11/01/99
EMISSIONS REPORT - SUMMARY FORMAT PAGE 3
INDIVIDUAL TANK EMISSION TOTALS

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Working	Total
Distillate fuel oil no. 2	0.27	0.03	0.29
Total:	0.27	0.03	0.29

Attachment E

Dispersion Modeling Output

ISCLT3 NO_X 1988
ISCLT3 NO_X 1989
ISCLT3 NO_X 1990
ISCLT3 NO_X 1991
ISCLT3 NO_X 1992

ISCST3 CO 1987
ISCST3 CO 1988
ISCST3 CO 1989
ISCST3 CO 1990
ISCST3 CO 1991

ISCLT3 NO_X 1988

Property Line shown on page E-17

```
** The results for this run are in file 24LT88A.OUT

CO STARTING
   TITLEONE  FGT CS 24 Turbine 2401 & Emergency Generator 1 1988 Met ISCLT NOx
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2401  POINT   189.02    -102.44

** Parameters     QS    HS    TS      VS       DS
**               -----  ----  -----   -----    ---
SO SRCPARAM 2401  1.109 17.68 718.1   13.85    2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58
SO BUILDWID 2401       13.72   21.65   26.29   26.93   24.69   27.36
SO BUILDWID 2401       25.86   20.43   13.72   21.65   26.29   26.93
SO BUILDWID 2401       24.69   27.36   25.86   20.43

SO LOCATION GEN01  POINT     224.09    -158.54

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.063  6.10  830.93  47.89    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26   11.58    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.15   17.14   15.52   11.53    7.01   12.19
SO BUILDWID GEN01      15.52   20.43   16.15   17.14   15.52   11.53
SO BUILDWID GEN01       7.01   12.19   15.52   16.48

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -911 23 100 -1202 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5311 23 500 -5602 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  GAINS88.STA
   ANEMHGHT  10.
   SURFDATA  12816  1988  GAINESVILLE
   UAIRDATA  12842  1988  TAMPA
   STARDATA  ANNUAL

**                - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -
**
**                   STAB    STAB    STAB    STAB    STAB    STAB
**                   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**                   -----   -----   -----   -----   -----   -----

   AVETEMPS  ANNUAL   299.8   299.8   299.8   293.5   287.2   287.2


**                        - MIXING LAYER HEIGHT (METERS) -
**                  S
**                  T    WS      WS      WS      WS      WS      WS
**            SEAS  A   CAT 1    CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**            ----  B   -----    -----   -----   -----   -----   -----

   AVEMIXHT  ANNUAL 1 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04
   AVEMIXHT  ANNUAL 2 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 3 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 4 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
   AVEMIXHT  ANNUAL 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10 INDSRC SRCGRP SOCONT
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
************************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.
6. "Upper Bound" Values For Supersquat Buildings.
7. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 1058 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: 24LT88a.IN ; **Output Print File: 24LT88a.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.11090E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.63000E-01	224.1	-158.5	0.0	6.10	830.93	47.89	0.20	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	13.7,	0	2	11.6,	21.6,	0	3	11.6,	26.3,	0	4	11.6,	26.9,	0
5	11.6,	24.7,	0	6	11.6,	27.4,	0	7	11.6,	25.9,	0	8	11.6,	20.4,	0
9	11.6,	13.7,	0	10	11.6,	21.6,	0	11	11.6,	26.3,	0	12	11.6,	26.9,	0
13	11.6,	24.7,	0	14	11.6,	27.4,	0	15	11.6,	25.9,	0	16	11.6,	20.4,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.1,	0	2	5.3,	17.1,	0	3	5.3,	15.5,	0	4	5.3,	11.5,	0
5	5.3,	7.0,	0	6	5.3,	12.2,	0	7	5.3,	15.5,	0	8	11.6,	20.4,	0
9	5.3,	16.1,	0	10	5.3,	17.1,	0	11	5.3,	15.5,	0	12	5.3,	11.5,	0
13	5.3,	7.0,	0	14	5.3,	12.2,	0	15	5.3,	15.5,	0	16	5.3,	16.5,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0, -11.0,
89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0, 989.0,
1089.0, 1189.0, 1289.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0, -302.0,
-202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0, 698.0,
798.0, 898.0, 998.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-5311.0, -4811.0, -4311.0, -3811.0, -3311.0, -2811.0, -2311.0, -1811.0, -1311.0, -811.0,
-311.0, 189.0, 689.0, 1189.0, 1689.0, 2189.0, 2689.0, 3189.0, 3689.0, 4189.0,
4689.0, 5189.0, 5689.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-5602.0, -5102.0, -4602.0, -4102.0, -3602.0, -3102.0, -2602.0, -2102.0, -1602.0, -1102.0,
-602.0, -102.0, 398.0, 898.0, 1398.0, 1898.0, 2398.0, 2898.0, 3398.0, 3898.0,
4398.0, 4898.0, 5398.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44
2401	189.0	-102.0	0.44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	299.8000	299.8000	299.8000	293.5000	287.2000	287.2000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000
STABILITY CATEGORY B	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY C	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY D	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS88.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1988 YEAR: 1988

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00049100	0.00091100	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00021000	0.00057000	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00012600	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00016800	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00025100	0.00068400	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00033500	0.00091100	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00033500	0.00091100	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00041900	0.00113900	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00053300	0.00102500	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00024000	0.00022800	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00016800	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00016800	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00029300	0.00079700	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00012600	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00044900	0.00079700	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00036500	0.00057000	0.00000000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00098900	0.00261900	0.00148000	0.00000000	0.00000000	0.00000000
22.500	0.00059200	0.00091100	0.00148000	0.00000000	0.00000000	0.00000000
45.000	0.00073800	0.00136700	0.00125300	0.00000000	0.00000000	0.00000000
67.500	0.00036500	0.00113900	0.00113900	0.00000000	0.00000000	0.00000000
90.000	0.00136200	0.00284700	0.00170800	0.00000000	0.00000000	0.00000000
112.500	0.00117500	0.00273300	0.00159400	0.00000000	0.00000000	0.00000000
135.000	0.00102100	0.00318800	0.00318800	0.00000000	0.00000000	0.00000000
157.500	0.00102500	0.00273300	0.00216400	0.00000000	0.00000000	0.00000000
180.000	0.00095200	0.00250500	0.00136700	0.00000000	0.00000000	0.00000000
202.500	0.00058300	0.00182200	0.00113900	0.00000000	0.00000000	0.00000000

225.000	0.00077000	0.00193600	0.00148000	0.00000000	0.00000000	0.00000000
247.500	0.00065600	0.00205000	0.00159400	0.00000000	0.00000000	0.00000000
270.000	0.00069300	0.00216400	0.00307400	0.00000000	0.00000000	0.00000000
292.500	0.00105700	0.00330200	0.00113900	0.00000000	0.00000000	0.00000000
315.000	0.00084300	0.00216400	0.00182200	0.00000000	0.00000000	0.00000000
337.500	0.00084700	0.00170800	0.00125300	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS88.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1988 YEAR: 1988

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00069000	0.00250500	0.00626200	0.00000000	0.00000000	0.00000000
22.500	0.00046500	0.00148000	0.00444000	0.00022800	0.00000000	0.00000000
45.000	0.00037600	0.00170800	0.00364300	0.00034200	0.00000000	0.00000000
67.500	0.00049000	0.00159400	0.00444000	0.00079700	0.00000000	0.00000000
90.000	0.00080200	0.00364300	0.00967700	0.00227700	0.00011400	0.00000000
112.500	0.00105200	0.00478200	0.00990500	0.00205000	0.00000000	0.00000000
135.000	0.00106600	0.00421300	0.00683100	0.00091100	0.00000000	0.00000000
157.500	0.00062700	0.00284700	0.00364300	0.00045600	0.00000000	0.00000000
180.000	0.00062700	0.00284700	0.00512300	0.00079700	0.00011400	0.00000000
202.500	0.00032600	0.00148000	0.00216400	0.00034200	0.00011400	0.00000000
225.000	0.00030100	0.00136700	0.00296000	0.00091100	0.00000000	0.00000000
247.500	0.00030100	0.00136700	0.00341600	0.00159400	0.00011400	0.00000000
270.000	0.00057700	0.00261900	0.00683100	0.00239100	0.00000000	0.00000000
292.500	0.00057700	0.00261900	0.00626200	0.00057000	0.00000000	0.00000000
315.000	0.00047600	0.00216400	0.00512300	0.00045600	0.00000000	0.00000000
337.500	0.00059000	0.00205000	0.00421300	0.00011400	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00179700	0.00979100	0.00933600	0.00205000	0.00000000	0.00000000
22.500	0.00138900	0.00660300	0.00853900	0.00261900	0.00000000	0.00000000
45.000	0.00090900	0.00535100	0.00922200	0.00250500	0.00000000	0.00000000
67.500	0.00079300	0.00466800	0.00853900	0.00353000	0.00011400	0.00000000
90.000	0.00210200	0.01001900	0.01571100	0.01275100	0.00011400	0.00000000
112.500	0.00225200	0.00933600	0.01184000	0.00842500	0.00000000	0.00000000
135.000	0.00130900	0.00535100	0.00876600	0.00307400	0.00011400	0.00000000
157.500	0.00083200	0.00489600	0.00284700	0.00227700	0.00022800	0.00000000
180.000	0.00083200	0.00489600	0.00797000	0.00296000	0.00068400	0.00000000
202.500	0.00038700	0.00227700	0.00523700	0.00409900	0.00011400	0.00000000

225.000	0.00034900	0.00205000	0.00580700	0.00182200	0.00000000	0.00000000
247.500	0.00038700	0.00227700	0.00819700	0.00899400	0.00136700	0.00022800
270.000	0.00079300	0.00466800	0.01218200	0.01070200	0.00216400	0.00034200
292.500	0.00081100	0.00398500	0.00546500	0.00853900	0.00091100	0.00011400
315.000	0.00106400	0.00626200	0.00922200	0.00353000	0.00045600	0.00000000
337.500	0.00084900	0.00421300	0.00751400	0.00125300	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS88.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1988 YEAR: 1988

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00000000	0.00478200	0.00432700	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00159400	0.00250500	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00387100	0.00091100	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00398500	0.00136700	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01013300	0.00728600	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00899400	0.00330200	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00432700	0.00205000	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00375700	0.00057000	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00398500	0.00091100	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00239100	0.00091100	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00250500	0.00136700	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00239100	0.00261900	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00501000	0.00762800	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00466800	0.00341600	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00364300	0.00273300	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00136700	0.00341600	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.01801100	0.01502800	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00820800	0.00626200	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00733000	0.00569300	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00887200	0.00728600	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.02564200	0.01969500	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.01372900	0.00990500	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00806700	0.00592000	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00264700	0.00193600	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00478400	0.00341600	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00216500	0.00193600	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00202400	0.00159400	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00278800	0.00227700	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.01439200	0.01092900	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.02365900	0.01878500	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.02224500	0.01730500	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.01600100	0.01366200	0.00000000	0.00000000	0.00000000	0.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00014

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -911.00	-811.00	-711.00	-611.00	-511.00	-411.00	-311.00	-211.00	-111.00
998.00	0.040587	0.039410	0.038001	0.036352	0.034471	0.032378	0.030109	0.029610	0.031402
898.00	0.043372	0.042419	0.041080	0.039470	0.037585	0.035435	0.033046	0.030657	0.032700
798.00	0.046600	0.045569	0.044505	0.042999	0.041176	0.039027	0.036557	0.033791	0.034170
698.00	0.050219	0.049283	0.048158	0.046988	0.045327	0.043271	0.040783	0.037865	0.035877
598.00	0.054264	0.053513	0.052562	0.051385	0.050126	0.048289	0.046055	0.043568	0.040026
498.00	0.058751	0.058303	0.057671	0.056813	0.055626	0.054441	0.053443	0.051571	0.047814
398.00	0.063674	0.063665	0.063534	0.063208	0.062850	0.063204	0.063231	0.061990	0.058554
298.00	0.068393	0.069426	0.070132	0.070624	0.072135	0.074611	0.076032	0.076493	0.074788
198.00	0.072562	0.074134	0.076171	0.078817	0.082801	0.087967	0.092768	0.097156	0.099901
98.00	0.077156	0.079077	0.081465	0.085781	0.093434	0.102555	0.112993	0.125133	0.136967
-2.00	0.082058	0.084386	0.087283	0.092723	0.102127	0.114211	0.131171	0.155960	0.187441
-102.00	0.087100	0.089850	0.093259	0.099370	0.110271	0.124810	0.146231	0.179541	0.230088
-202.00	0.082113	0.084342	0.087103	0.092167	0.100972	0.112632	0.129281	0.154057	0.187390
-302.00	0.069832	0.070563	0.071413	0.073495	0.077598	0.082235	0.087220	0.093262	0.096498
-402.00	0.057901	0.057255	0.056391	0.055597	0.055377	0.055546	0.059208	0.069901	0.084290
-502.00	0.046706	0.044929	0.043189	0.040972	0.043757	0.048551	0.054586	0.062357	0.072781
-602.00	0.037239	0.036388	0.037616	0.039172	0.041449	0.045048	0.049846	0.055951	0.063842
-702.00	0.034352	0.035238	0.036329	0.037704	0.039483	0.041936	0.045697	0.050993	0.056703
-802.00	0.033337	0.034138	0.035106	0.036310	0.037811	0.039757	0.042678	0.046411	0.050505
-902.00	0.032377	0.033107	0.033974	0.035028	0.036347	0.038224	0.040463	0.043080	0.046001
-1002.00	0.031475	0.032149	0.032937	0.033881	0.035246	0.036841	0.038673	0.040746	0.043609
-1102.00	0.030631	0.031260	0.031980	0.033033	0.034237	0.035610	0.037159	0.038889	0.042772
-1202.00	0.029840	0.030419	0.031280	0.032240	0.033316	0.034520	0.035852	0.037424	0.042171

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00	489.00	589.00	689.00	789.00
998.00	0.033285	0.035205	0.037096	0.034778	0.031201	0.027709	0.024413	0.021732	0.021161
898.00	0.034867	0.037087	0.039274	0.036625	0.032469	0.028432	0.024662	0.022530	0.022146
798.00	0.036680	0.039305	0.041897	0.038836	0.033923	0.029201	0.025101	0.023790	0.023308
698.00	0.039226	0.042598	0.045787	0.042195	0.036111	0.030153	0.025928	0.025293	0.024690
598.00	0.042856	0.047346	0.051636	0.047248	0.039530	0.031819	0.028544	0.027323	0.026335
498.00	0.046745	0.052948	0.058944	0.053550	0.043499	0.034568	0.032419	0.030346	0.028422
398.00	0.051982	0.060515	0.069475 **PL**	0.062533	0.048665	0.039918	0.037069	0.034115	0.032080
298.00	0.068368	0.071799	0.086334	0.076176	0.055890	0.047889	0.042870	0.039805	0.040113
198.00	0.095768	0.085935	0.111457	0.094971	0.067146	0.058677	0.052811	0.052723	0.050239
98.00	0.142044	0.123576	0.147940	0.118999	0.087743	0.078028	0.077000	0.070006	0.062824
-2.00	0.217117	0.214616	0.185629	0.135203	0.131097	0.129746	0.110173	0.094291	0.082094
-102.00	0.305665	0.383107	0.208848	0.225965	0.267234	0.207723	0.157983	0.124676	0.102972
-202.00	0.225239	0.212118	0.183557	0.256347	0.266130	0.208115	0.157556	0.124019	0.102340
-302.00	0.121743	0.145570	0.172400	0.500406	0.182164	0.147716	0.116058	0.098181	0.085672
-402.00	0.102074	0.120767	0.155263	0.277723	0.214884	0.120847	0.099923	0.083152	0.071765
-502.00	0.085631	0.098731	0.125871	0.185209	0.206780	0.132687	0.087090	0.076042	0.067898
-602.00	0.072374	0.085121 **PL**	0.102937	0.138480	0.172523	0.135024	0.095214	0.070165	0.063593
-702.00	0.062388	0.074473	0.087090	0.110384	0.134575	0.131361	0.100276	0.075879	0.060628
-802.00	0.056749	0.066887	0.076667	0.093135	0.110824	0.123953	0.100142	0.080675	0.066021
-902.00	0.052631	0.060839	0.068861	0.081005	0.094267	0.105278	0.098772	0.082639	0.070115
-1002.00	0.050118	0.057064	0.064036	0.073229	0.083517	0.091991	0.095467	0.082340	0.071802
-1102.00	0.048575	0.054721	0.060902	0.067959	0.075591	0.082068	0.087181	0.080606	0.071716
-1202.00	0.047427	0.052940	0.058492	0.063940	0.069650	0.074557	0.078517	0.077993	0.070563

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 889.00	989.00	1089.00	1189.00	1289.00
998.00	0.020839	0.020516	0.020192	0.019867	0.019539
898.00	0.021761	0.021377	0.020998	0.020622	0.020548
798.00	0.022826	0.022355	0.021898	0.021754	0.022352
698.00	0.024067	0.023468	0.023201	0.023889	0.024400
598.00	0.025505	0.025028	0.025813	0.026356	0.026716
498.00	0.027461	0.028349	0.028896	0.029189	0.029316
398.00	0.032180	0.032375	0.032493	0.032402	0.032196
298.00	0.038454	0.037207	0.036536	0.036005	0.035472
198.00	0.046037	0.043036	0.041407	0.041647	0.041798
98.00	0.057455	0.052914	0.050710	0.049845	0.049185
-2.00	0.073115	0.065133	0.060743	0.058568	0.056965
-102.00	0.088683	0.077261	0.070941	0.067465	0.064836
-202.00	0.088345	0.077406	0.071236	0.067835	0.065296
-302.00	0.077072	0.069661	0.065793	0.063716	0.062122
-402.00	0.065416	0.062442	0.061042	0.060245	0.059424
-502.00	0.061327	0.058174	0.057387	0.057395	0.057267
-602.00	0.059158	0.056990	0.056110	0.055807	0.055769
-702.00	0.057736	0.056065	0.055260	0.054806	0.054695
-802.00	0.056932	0.055445	0.054475	0.053976	0.053766
-902.00	0.060826	0.054891	0.053882	0.053291	0.052967
-1002.00	0.063546	0.057353	0.053425	0.052712	0.052266
-1102.00	0.064620	0.059106	0.054917	0.052206	0.051631
-1202.00	0.064498	0.059666	0.055888	0.052996	0.051041

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -5311.00	-4811.00	-4311.00	-3811.00	-3311.00	-2811.00	-2311.00	-1811.00	-1311.00
5398.00	0.013755	0.013426	0.012979	0.012388	0.011649	0.010752	0.009696	0.009656	0.010584
4898.00	0.015254	0.014793	0.014393	0.013841	0.013115	0.012195	0.011070	0.010067	0.011131
4398.00	0.016947	0.016544	0.016005	0.015528	0.014850	0.013935	0.012755	0.011303	0.011740
3898.00	0.018834	0.018544	0.018101	0.017483	0.016903	0.016040	0.014842	0.013275	0.012415
3398.00	0.020935	0.020812	0.020531	0.020050	0.019330	0.018596	0.017445	0.015796	0.013619
2898.00	0.023249	0.023354	0.023313	0.023069	0.022550	0.021693	0.020701	0.019060	0.016644
2398.00	0.025757	0.026158	0.026449	0.026563	0.026409	0.025851	0.024800	0.023334	0.020780
1898.00	0.028451	0.029157	0.029909	0.030523	0.030928	0.030957	0.030372	0.028989	0.026509
1398.00	0.031431	0.032504	0.033638	0.034818	0.036046	0.036992	0.037395	0.036750	0.034599
898.00	0.034566	0.036076	0.037748	0.039593	0.041597	0.043660	0.045708	0.046982	0.046224
398.00	0.037758	0.039747	0.042026	0.044654	0.047696	0.051134	0.054833	0.058636	0.061804
-102.00	0.040890	0.043357	0.046252	0.049700	0.053868	0.058886	0.064824	0.071960	0.079567
-602.00	0.035214	0.036762	0.038471	0.040343	0.042353	0.044337	0.045874	0.046253	0.043262
-1102.00	0.029129	0.029693	0.030141	0.030366	0.030171	0.029173	0.026734	0.026482	0.028644
-1602.00	0.023264	0.022954	0.022320	0.021192	0.019728	0.020822	0.022248	0.023766	0.025448
-2102.00	0.017803	0.016787	0.016509	0.017320	0.018223	0.019214	0.020291	0.021478	0.023231
-2602.00	0.014451	0.015009	0.015617	0.016280	0.016999	0.017769	0.018596	0.019854	0.021386
-3102.00	0.013805	0.014278	0.014783	0.015323	0.015898	0.016508	0.017414	0.018508	0.019708
-3602.00	0.013194	0.013593	0.014014	0.014457	0.014922	0.015607	0.016413	0.017291	0.018232
-4102.00	0.012622	0.012961	0.013314	0.013681	0.014217	0.014838	0.015509	0.016226	0.017762
-4602.00	0.012089	0.012381	0.012680	0.013112	0.013607	0.014138	0.014702	0.015295	0.017726
-5102.00	0.011584	0.011847	0.012209	0.012615	0.013047	0.013503	0.013983	0.014657	0.017559
-5602.00	0.011115	0.011436	0.011791	0.012154	0.012533	0.012929	0.013341	0.014745	0.017318

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -811.00	-311.00	189.00	689.00	1189.00	1689.00	2189.00	2689.00	3189.00
5398.00	0.011534	0.012475	0.013370	0.012147	0.010850	0.009576	0.008363	0.007578	0.007322
4898.00	0.012235	0.013332	0.014374	0.012926	0.011394	0.009902	0.008505	0.008019	0.007719
4398.00	0.013034	0.014332	0.015565	0.013820	0.011979	0.010211	0.008863	0.008516	0.008160
3898.00	0.013949	0.015509	0.016996	0.014846	0.012594	0.010472	0.009499	0.009080	0.008653
3398.00	0.014982	0.016889	0.018725	0.016012	0.013202	0.010735	0.010237	0.009724	0.009208
2898.00	0.016145	0.018525	0.020857	0.017324	0.013735	0.011707	0.011102	0.010462	0.009836
2398.00	0.017446	0.020448	0.023512	0.018751	0.014088	0.012902	0.012122	0.011331	0.011724
1898.00	0.022125	0.022654	0.026845	0.020128	0.015278	0.014371	0.013384	0.013904	0.014139
1398.00	0.029889	0.025217	0.031288	0.021163	0.017440	0.016239	0.017073	0.017301	0.017010
898.00	0.042419	0.033046	0.039274	0.022530	0.020622	0.021997	0.022194	0.021545	0.022169
398.00	0.063665	0.063231	0.069475	0.034115	0.032402	0.032204	0.033452	0.032816	0.031394
-102.00	0.089850	0.146231	0.208848	0.124676	0.067465	0.057695	0.051222	0.045694	0.041150
-602.00	0.036388	0.049846	0.102937	0.070165	0.055807	0.054681	0.050594	0.045650	0.041315
-1102.00	0.031260	0.037159	0.060902	0.080606	0.052206	0.050373	0.048446	0.045110	0.040971
-1602.00	0.028093	0.033580	0.052362	0.059697	0.051580	0.046083	0.043765	0.041545	0.039189
-2102.00	0.025479	0.033367	0.046839	0.047527	0.045015	0.041783	0.039851	0.037980	0.036144
-2602.00	0.023217	0.031935	0.041769	0.040789	0.038515	0.036979	0.035870	0.034868	0.033439
-3102.00	0.023080	0.030184	0.037646	0.036232	0.034025	0.032558	0.032080	0.031609	0.031131
-3602.00	0.022682	0.028367	0.034198	0.032749	0.030765	0.028831	0.028765	0.028681	0.028539
-4102.00	0.022056	0.026703	0.031401	0.030031	0.028280	0.026450	0.025986	0.026127	0.026208
-4602.00	0.021384	0.025259	0.029145	0.027883	0.026339	0.024745	0.023670	0.023941	0.024160
-5102.00	0.020712	0.024004	0.027288	0.026135	0.024768	0.023366	0.021990	0.022081	0.022380
-5602.00	0.020068	0.022909	0.025733	0.024682	0.023464	0.022221	0.020999	0.020495	0.020837

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 3689.00	4189.00	4689.00	5189.00	5689.00
5398.00	0.007063	0.006805	0.006553	0.006306	0.006069
4898.00	0.007416	0.007119	0.006831	0.006555	0.006695
4398.00	0.007805	0.007460	0.007130	0.007301	0.007422
3898.00	0.008234	0.007831	0.008038	0.008178	0.008239
3398.00	0.008709	0.008961	0.009123	0.009178	0.009153
2898.00	0.010149	0.010333	0.010372	0.010305	0.010166
2398.00	0.011934	0.011931	0.011789	0.011556	0.011270
1898.00	0.014038	0.013753	0.013362	0.013050	0.013387
1398.00	0.016440	0.016457	0.016781	0.016847	0.016751
898.00	0.022354	0.022053	0.021558	0.020966	0.020338
398.00	0.029763	0.028114	0.026616	0.025258	0.024033
-102.00	0.037396	0.034254	0.031689	0.029534	0.027697
-602.00	0.037600	0.034477	0.031911	0.029754	0.027915
-1102.00	0.037402	0.034396	0.031904	0.029799	0.027998
-1602.00	0.036903	0.034176	0.031793	0.029766	0.028022
-2102.00	0.034376	0.032744	0.031253	0.029654	0.027984
-2602.00	0.032089	0.030802	0.029595	0.028477	0.027448
-3102.00	0.030074	0.029053	0.028077	0.027154	0.026287
-3602.00	0.028326	0.027505	0.026709	0.025942	0.025211
-4102.00	0.026216	0.026147	0.025488	0.024845	0.024224
-4602.00	0.024312	0.024394	0.024404	0.023858	0.023318
-5102.00	0.022623	0.022803	0.022919	0.022963	0.022460
-5602.00	0.021134	0.021377	0.021560	0.021649	0.021671

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2401 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.084820	AT (	289.00,	-102.00)	GC	6.	0.033402	AT (	-111.00,	-102.00)	GC
2.	0.078466	AT (	89.00,	-102.00)	GC	7.	0.030908	AT (	-11.00,	-2.00)	GC
3.	0.050617	AT (	389.00,	-102.00)	GC	8.	0.030682	AT (	289.00,	-202.00)	GC
4.	0.047916	AT (	-11.00,	-102.00)	GC	9.	0.030446	AT (	89.00,	-2.00)	GC
5.	0.035091	AT (	489.00,	-102.00)	GC	10.	0.030440	AT (	189.00,	-2.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN01 ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.486427	AT (	289.00,	-302.00)	GC	6.	0.225665	AT (	289.00,	-202.00)	GC
2.	0.304641	AT (	89.00,	-102.00)	GC	7.	0.216617	AT (	389.00,	-102.00)	GC
3.	0.267368	AT (	289.00,	-402.00)	GC	8.	0.209149	AT (	-11.00,	-202.00)	GC
4.	0.257749	AT (	-11.00,	-102.00)	GC	9.	0.208848	AT (	189.00,	-102.00)	GC
5.	0.240663	AT (	389.00,	-202.00)	GC	10.	0.208848	AT (	189.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.500406	AT (	289.00, -302.00)	GC	6.	0.266130	AT (	389.00, -202.00)	GC
2.	0.383107	AT (	89.00, -102.00)	GC	7.	0.256347	AT (	289.00, -202.00)	GC
3.	0.305665	AT (	-11.00, -102.00)	GC	8.	0.230088	AT (	-111.00, -102.00)	GC
4.	0.277723	AT (	289.00, -402.00)	GC	9.	0.225965	AT (	289.00, -102.00)	GC
5.	0.267234	AT (	389.00, -102.00)	GC	10.	0.225239	AT (	-11.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2401 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.013980	AT (	289.00,	-302.00)	GC	6.	0.025467	AT (	389.00,	-202.00)	GC
2.	0.078466	AT (	89.00,	-102.00)	GC	7.	0.030682	AT (	289.00,	-202.00)	GC
3.	0.047916	AT (	-11.00,	-102.00)	GC	8.	0.033402	AT (	-111.00,	-102.00)	GC
4.	0.010355	AT (	289.00,	-402.00)	GC	9.	0.084820	AT (	289.00,	-102.00)	GC
5.	0.050617	AT (	389.00,	-102.00)	GC	10.	0.016091	AT (	-11.00,	-202.00)	GC

*** SOURCE GEN01 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.486427	AT (	289.00,	-302.00)	GC	6.	0.240663	AT (	389.00,	-202.00)	GC
2.	0.304641	AT (	89.00,	-102.00)	GC	7.	0.225665	AT (	289.00,	-202.00)	GC
3.	0.257749	AT (	-11.00,	-102.00)	GC	8.	0.196685	AT (	-111.00,	-102.00)	GC
4.	0.267368	AT (	289.00,	-402.00)	GC	9.	0.141145	AT (	289.00,	-102.00)	GC
5.	0.216617	AT (	389.00,	-102.00)	GC	10.	0.209149	AT (	-11.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ISCLT3 NO_X 1989

```
** The results for this run are in file 24LT89A.OUT

CO STARTING
   TITLEONE  FGT CS 24 Turbine 2401 & Emergency Generator 1 1989 Met ISCLT NOx
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2401  POINT   189.02    -102.44

** Parameters     QS     HS     TS      VS       DS
**              -----  ----  -----   -----    ---
SO SRCPARAM 2401  1.109 17.68 718.1   13.85    2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58
SO BUILDWID 2401       13.72   21.65   26.29   26.93   24.69   27.36
SO BUILDWID 2401       25.86   20.43   13.72   21.65   26.29   26.93
SO BUILDWID 2401       24.69   27.36   25.86   20.43

SO LOCATION GEN01  POINT     224.09    -158.54

** Parameters      QS     HS     TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.063  6.10  830.93  47.89    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26   11.58    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.15   17.14   15.52   11.53    7.01   12.19
SO BUILDWID GEN01      15.52   20.43   16.15   17.14   15.52   11.53
SO BUILDWID GEN01       7.01   12.19   15.52   16.48

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -911 23 100 -1202 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5311 23 500 -5602 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  GAINS89.STA
   ANEMHGHT  10.
   SURFDATA  12816  1989  GAINESVILLE
   UAIRDATA  12842  1989  TAMPA
   STARDATA  ANNUAL

**                - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -
**
**                   STAB    STAB    STAB    STAB    STAB    STAB
**                   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**                   -----   -----   -----   -----   -----   -----

   AVETEMPS  ANNUAL   299.8   299.8   299.8   293.5   287.2   287.2


**                        - MIXING LAYER HEIGHT (METERS) -
**                  S
**                  T    WS      WS      WS      WS      WS      WS
**            SEAS  A   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**            ----  B   -----   -----   -----   -----   -----   -----

   AVEMIXHT  ANNUAL 1 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04
   AVEMIXHT  ANNUAL 2 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 3 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 4 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
   AVEMIXHT  ANNUAL 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10 INDSRC SRCGRP SOCONT
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.
6. "Upper Bound" Values For Supersquat Buildings.
7. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 1058 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: 24LT89a.IN ; **Output Print File: 24LT89a.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.11090E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.63000E-01	224.1	-158.5	0.0	6.10	830.93	47.89	0.20	YES	

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1989 Met ISCLT NOx *** 12/20/99
*** Building height = 38' *** 12:20:41

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	13.7,	0	2	11.6,	21.6,	0	3	11.6,	26.3,	0	4	11.6,	26.9,	0
5	11.6,	24.7,	0	6	11.6,	27.4,	0	7	11.6,	25.9,	0	8	11.6,	20.4,	0
9	11.6,	13.7,	0	10	11.6,	21.6,	0	11	11.6,	26.3,	0	12	11.6,	26.9,	0
13	11.6,	24.7,	0	14	11.6,	27.4,	0	15	11.6,	25.9,	0	16	11.6,	20.4,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.1,	0	2	5.3,	17.1,	0	3	5.3,	15.5,	0	4	5.3,	11.5,	0
5	5.3,	7.0,	0	6	5.3,	12.2,	0	7	5.3,	15.5,	0	8	11.6,	20.4,	0
9	5.3,	16.1,	0	10	5.3,	17.1,	0	11	5.3,	15.5,	0	12	5.3,	11.5,	0
13	5.3,	7.0,	0	14	5.3,	12.2,	0	15	5.3,	15.5,	0	16	5.3,	16.5,	0

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1989 Met ISCLT NOx *** 12/20/99
*** Building height = 38' *** 12:20:41

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0, -11.0,
89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0, 989.0,
1089.0, 1189.0, 1289.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0, -302.0,
-202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0, 698.0,
798.0, 898.0, 998.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-5311.0, -4811.0, -4311.0, -3811.0, -3311.0, -2811.0, -2311.0, -1811.0, -1311.0, -811.0,
-311.0, 189.0, 689.0, 1189.0, 1689.0, 2189.0, 2689.0, 3189.0, 3689.0, 4189.0,
4689.0, 5189.0, 5689.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-5602.0, -5102.0, -4602.0, -4102.0, -3602.0, -3102.0, -2602.0, -2102.0, -1602.0, -1102.0,
-602.0, -102.0, 398.0, 898.0, 1398.0, 1898.0, 2398.0, 2898.0, 3398.0, 3898.0,
4398.0, 4898.0, 5398.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44
2401	189.0	-102.0	0.44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	299.8000	299.8000	299.8000	293.5000	287.2000	287.2000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000
STABILITY CATEGORY B	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY C	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY D	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS89.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1989 YEAR: 1989

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00051000	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00034100	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00056800	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00034000	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00153100	0.00239800	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00028400	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00056700	0.00114200	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00062500	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00051000	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00034000	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00028400	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00034000	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00056800	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00068000	0.00137000	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00017000	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00022700	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00108500	0.00228400	0.00182700	0.00000000	0.00000000	0.00000000
22.500	0.00072800	0.00205500	0.00080000	0.00000000	0.00000000	0.00000000
45.000	0.00071100	0.00251200	0.00080000	0.00000000	0.00000000	0.00000000
67.500	0.00067800	0.00239800	0.00194100	0.00000000	0.00000000	0.00000000
90.000	0.00111500	0.00342500	0.00182700	0.00000000	0.00000000	0.00000000
112.500	0.00106600	0.00376800	0.00205500	0.00000000	0.00000000	0.00000000
135.000	0.00173100	0.00456700	0.00182700	0.00000000	0.00000000	0.00000000
157.500	0.00105100	0.00319700	0.00091400	0.00000000	0.00000000	0.00000000
180.000	0.00147000	0.00468100	0.00171300	0.00000000	0.00000000	0.00000000
202.500	0.00061400	0.00216900	0.00022900	0.00000000	0.00000000	0.00000000

225.000	0.00082500	0.00239800	0.00114200	0.00000000	0.00000000	0.00000000
247.500	0.00103600	0.00262600	0.00285400	0.00000000	0.00000000	0.00000000
270.000	0.00106600	0.00376800	0.00331100	0.00000000	0.00000000	0.00000000
292.500	0.00087200	0.00308300	0.00319700	0.00000000	0.00000000	0.00000000
315.000	0.00058100	0.00205500	0.00251200	0.00000000	0.00000000	0.00000000
337.500	0.00067800	0.00239800	0.00171300	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS89.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1989 YEAR: 1989

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00058200	0.00342500	0.00490900	0.00011500	0.00000000	0.00000000
22.500	0.00030200	0.00228400	0.00296900	0.00034300	0.00000000	0.00000000
45.000	0.00024200	0.00182700	0.00365300	0.00011500	0.00000000	0.00000000
67.500	0.00018100	0.00137000	0.00411000	0.00011500	0.00000000	0.00000000
90.000	0.00067300	0.00411000	0.00673600	0.00057100	0.00000000	0.00000000
112.500	0.00045300	0.00342500	0.00479500	0.00022900	0.00000000	0.00000000
135.000	0.00074800	0.00468100	0.00548000	0.00068500	0.00000000	0.00000000
157.500	0.00037800	0.00285400	0.00331100	0.00022900	0.00000000	0.00000000
180.000	0.00058900	0.00445300	0.00490900	0.00057100	0.00000000	0.00000000
202.500	0.00036200	0.00274000	0.00376800	0.00057100	0.00000000	0.00000000
225.000	0.00033200	0.00251200	0.00536600	0.00057100	0.00011500	0.00000000
247.500	0.00027200	0.00205500	0.00536600	0.00091400	0.00000000	0.00000000
270.000	0.00037800	0.00285400	0.00879000	0.00171300	0.00000000	0.00000000
292.500	0.00048300	0.00365300	0.00570800	0.00034300	0.00000000	0.00000000
315.000	0.00048300	0.00365300	0.00696400	0.00034300	0.00000000	0.00000000
337.500	0.00074200	0.00365300	0.00342500	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00219600	0.01324300	0.00981800	0.00182700	0.00000000	0.00000000
22.500	0.00151500	0.00833400	0.00913300	0.00182700	0.00011500	0.00000000
45.000	0.00140100	0.00844800	0.01278600	0.00445300	0.00000000	0.00000000
67.500	0.00128800	0.00616500	0.00913300	0.00331100	0.00000000	0.00000000
90.000	0.00223400	0.01267200	0.01198700	0.00251200	0.00000000	0.00000000
112.500	0.00096600	0.00582200	0.00490900	0.00102800	0.00000000	0.00000000
135.000	0.00081400	0.00490900	0.00502300	0.00216900	0.00011500	0.00000000
157.500	0.00062600	0.00296900	0.00285400	0.00068500	0.00000000	0.00000000
180.000	0.00121200	0.00650700	0.00673600	0.00376800	0.00011500	0.00000000
202.500	0.00051200	0.00228400	0.00513700	0.00274000	0.00000000	0.00000000

225.000	0.00045500	0.00274000	0.00627900	0.00353900	0.00011500	0.00000000
247.500	0.00047400	0.00285400	0.00787700	0.00662200	0.00080000	0.00000000
270.000	0.00115500	0.00696400	0.01244300	0.00856200	0.00114200	0.00000000
292.500	0.00145800	0.00879000	0.00901900	0.00490900	0.00011500	0.00011500
315.000	0.00123000	0.00742100	0.00810600	0.00388200	0.00022900	0.00000000
337.500	0.00085300	0.00433800	0.00468100	0.00182700	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS89.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1989 YEAR: 1989

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00000000	0.00639300	0.00570800	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00365300	0.00228400	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00376800	0.00171300	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00365300	0.00148500	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.00696400	0.00342500	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00365300	0.00216900	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00456700	0.00045700	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00296900	0.00057100	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00548000	0.00102800	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00342500	0.00034300	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00285400	0.00159900	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00342500	0.00433800	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00673600	0.00776300	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00650700	0.00319700	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00468100	0.00376800	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00251200	0.00239800	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.01742600	0.01301400	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00744500	0.00422400	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00643000	0.00422400	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00611300	0.00479500	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.01861800	0.01232900	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.01117400	0.00810600	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00908100	0.00639300	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00447700	0.00262600	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00858600	0.00536600	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00430000	0.00331100	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00527600	0.00411000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00736900	0.00582200	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.02149700	0.01655300	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.02251100	0.01655300	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.02560600	0.01701000	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.01371000	0.01038900	0.00000000	0.00000000	0.00000000	0.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00015

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -911.00	-811.00	-711.00	-611.00	-511.00	-411.00	-311.00	-211.00	-111.00
998.00	0.036609	0.035251	0.033658	0.031827	0.029767	0.027499	0.025058	0.025590	0.029910
898.00	0.037162	0.037952	0.036389	0.034552	0.032439	0.030059	0.027437	0.025008	0.029833
798.00	0.037499	0.038550	0.039467	0.037686	0.035579	0.033136	0.030357	0.027261	0.029601
698.00	0.037841	0.038896	0.040155	0.041294	0.039289	0.036865	0.033980	0.030608	0.029131
598.00	0.038199	0.039257	0.040547	0.042158	0.043675	0.041392	0.038536	0.035185	0.030952
498.00	0.038583	0.039644	0.040965	0.042656	0.044826	0.046952	0.044751	0.041689	0.037104
398.00	0.038999	0.040059	0.041407	0.043164	0.045543	0.049187	0.053123	0.050562	0.046244
298.00	0.040652	0.040694	0.041856	0.043663	0.046539	0.050984	0.056854	0.063096	0.060371
198.00	0.046637	0.046230	0.045400	0.044785	0.047435	0.052513	0.059735	0.070164	0.082576
98.00	0.053276	0.053909	0.054340	0.054769	0.055444	0.055572	0.062179	0.075328	0.095512
-2.00	0.060403	0.062254	0.064223	0.066788	0.070248	0.074084	0.079171	0.086545	0.101142
-102.00	0.067782	0.070945	0.074598	0.079347	0.085837	0.093714	0.105230	0.124682	0.151203
-202.00	0.066302	0.069358	0.072960	0.077853	0.084754	0.093694	0.106955	0.128250	0.157128
-302.00	0.058603	0.060546	0.062739	0.065728	0.070229	0.075824	0.083452	0.093859	0.106666
-402.00	0.051054	0.051942	0.052825	0.053891	0.055926	0.059070	0.066346	0.081890	0.104770
-502.00	0.043903	0.043883	0.044025	0.044152	0.048848	0.056176	0.065724	0.078894	0.095643
-602.00	0.037719	0.038326	0.040878	0.044132	0.048565	0.054848	0.063447	0.073207	0.077762
-702.00	0.036296	0.038323	0.040814	0.043925	0.047917	0.053143	0.059289	0.062801	0.065168
-802.00	0.036186	0.038153	0.040528	0.043437	0.047022	0.050783	0.052726	0.054567	0.055758
-902.00	0.035979	0.037861	0.040090	0.042758	0.045356	0.046593	0.047779	0.048752	0.049615
-1002.00	0.035698	0.037480	0.039553	0.041441	0.042330	0.043179	0.043912	0.044474	0.046374
-1102.00	0.035358	0.037036	0.038464	0.039133	0.039777	0.040367	0.040856	0.041310	0.045497
-1202.00	0.034975	0.036094	0.036627	0.037140	0.037619	0.038041	0.038376	0.039068	0.044768

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	-11.00	89.00	189.00	289.00	389.00	489.00	589.00	689.00	789.00
998.00	0.034607	0.039552	0.044575	0.042138	0.037382	0.032774	0.028459	0.025095	0.025261
898.00	0.035164	0.040834	0.046621	0.043943	0.038499	0.033247	0.028380	0.026092	0.026713
798.00	0.035708	0.042316	0.049106	0.046142	0.039810	0.033761	0.028586	0.027864	0.028475
698.00	0.036441	0.044451	0.052694	0.049374	0.041742	0.034400	0.029371	0.030052	0.030634
598.00	0.037499	0.047679	0.058239	0.054295	0.044757	0.035596	0.032689	0.032983	0.033258
498.00	0.038232	0.051601	0.065564	0.060738	0.048333	0.037675	0.037682	0.037299	0.036656
398.00	0.039548	0.056876	0.076344	0.070061	0.052798	0.044171	0.044336	0.043269	0.041781
298.00	0.053695	0.064197	0.093635	0.084555	0.059951	0.055351	0.053645	0.051273	0.049458
198.00	0.078079	0.070918	0.118792	0.104660	0.074375	0.072688	0.067532	0.063102	0.058624
98.00	0.119476	0.100643	0.152863	0.130291	0.106798	0.099263	0.089046	0.077870	0.068900
-2.00	0.137697	0.179058	0.174906	0.150407	0.162729	0.142046	0.115410	0.099418	0.087784
-102.00	0.181057	0.183940	0.146146	0.243157	0.268371	0.213404	0.164433	0.131159	0.109621
-202.00	0.191592	0.205258	0.205166	0.262413	0.274323	0.222206	0.171051	0.135848	0.113237
-302.00	0.144986	0.183992	0.165196	0.467777	0.197304	0.167358	0.138187	0.116861	0.101714
-402.00	0.133206	0.132659	0.159541	0.260005	0.208199	0.133159	0.115536	0.100648	0.090144
-502.00	0.101320	0.103475	0.134785	0.179478	0.190237	0.132539	0.096485	0.087784	0.081200
-602.00	0.080204	0.091222	0.113109	0.138206	0.156935	0.127348	0.096702	0.077310	0.072753
-702.00	0.066594	0.081079	0.097160	0.112773	0.125103	0.119525	0.096332	0.077923	0.066675
-802.00	0.060827	0.073502	0.086064	0.096646	0.105092	0.110313	0.092941	0.078853	0.068691
-902.00	0.057031	0.067257	0.077423	0.084979	0.090984	0.095365	0.089545	0.078322	0.069996
-1002.00	0.054457	0.063052	0.071656	0.077206	0.081696	0.084845	0.085135	0.076320	0.069607
-1102.00	0.052593	0.060066	0.067545	0.071704	0.074687	0.076829	0.078100	0.073429	0.067983
-1202.00	0.051077	0.057657	0.064244	0.067360	0.069303	0.070655	0.071399	0.070037	0.065694

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 889.00	989.00	1089.00	1189.00	1289.00
998.00	0.025821	0.026329	0.026773	0.027144	0.027438
898.00	0.027277	0.027774	0.028196	0.028536	0.028749
798.00	0.029003	0.029448	0.029809	0.030046	0.030538
698.00	0.031060	0.031388	0.031608	0.032146	0.032577
598.00	0.033507	0.033629	0.034162	0.034582	0.034894
498.00	0.036410	0.036862	0.037179	0.037387	0.037504
398.00	0.040944	0.040723	0.040688	0.040567	0.040402
298.00	0.046893	0.045293	0.044594	0.044055	0.043494
198.00	0.053818	0.050440	0.048836	0.049506	0.050034
98.00	0.063477	0.059940	0.058436	0.058109	0.057864
-2.00	0.079624	0.072654	0.069006	0.067411	0.066222
-102.00	0.095990	0.085564	0.079976	0.077036	0.074797
-202.00	0.098964	0.088165	0.082038	0.078655	0.076094
-302.00	0.091234	0.082659	0.077822	0.075022	0.072876
-402.00	0.082555	0.077210	0.073939	0.071721	0.069921
-502.00	0.075447	0.072116	0.070339	0.068806	0.067315
-602.00	0.069592	0.067915	0.066825	0.065864	0.064945
-702.00	0.065471	0.064698	0.064083	0.063375	0.062714
-802.00	0.062823	0.062440	0.061937	0.061451	0.060938
-902.00	0.064200	0.060796	0.060411	0.060007	0.059553
-1002.00	0.064653	0.061254	0.059367	0.058942	0.058482
-1102.00	0.063951	0.061106	0.059203	0.058163	0.057643
-1202.00	0.062441	0.060116	0.058536	0.057539	0.056975

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS)								
	-5311.00	-4811.00	-4311.00	-3811.00	-3311.00	-2811.00	-2311.00	-1811.00	-1311.00
5398.00	0.012799	0.012510	0.012115	0.011588	0.010926	0.010118	0.009160	0.009644	0.011521
4898.00	0.013277	0.013757	0.013404	0.012913	0.012263	0.011434	0.010409	0.009635	0.011783
4398.00	0.013767	0.014299	0.014881	0.014461	0.013856	0.013030	0.011953	0.010611	0.011993
3898.00	0.014260	0.014856	0.015525	0.016266	0.015754	0.014976	0.013877	0.012419	0.012102
3398.00	0.014763	0.015430	0.016188	0.017050	0.018015	0.017356	0.016295	0.014747	0.012678
2898.00	0.015267	0.016011	0.016866	0.017850	0.018984	0.020265	0.019344	0.017777	0.015456
2398.00	0.015760	0.016584	0.017540	0.018655	0.019959	0.021473	0.023195	0.021774	0.019257
1898.00	0.017253	0.017370	0.018189	0.019439	0.020920	0.022669	0.024718	0.027071	0.024517
1398.00	0.019837	0.020289	0.020715	0.021071	0.021826	0.023819	0.026167	0.028864	0.031969
898.00	0.022583	0.023439	0.024366	0.025351	0.026348	0.027216	0.027719	0.030553	0.033910
398.00	0.025405	0.026706	0.028203	0.029935	0.031928	0.034160	0.036403	0.038346	0.038570
-102.00	0.028196	0.029945	0.032024	0.034536	0.037608	0.041405	0.046003	0.051778	0.058950
-602.00	0.025017	0.026266	0.027698	0.029347	0.031235	0.033350	0.035521	0.037510	0.038373
-1102.00	0.021522	0.022212	0.022922	0.023620	0.024227	0.024574	0.024376	0.025971	0.030290
-1602.00	0.018130	0.018314	0.018392	0.018290	0.018110	0.019894	0.022292	0.025273	0.029127
-2102.00	0.014948	0.014716	0.015052	0.016284	0.017760	0.019539	0.021686	0.024350	0.025533
-2602.00	0.013093	0.013949	0.014943	0.016105	0.017472	0.019078	0.020976	0.021863	0.022629
-3102.00	0.013031	0.013851	0.014791	0.015874	0.017122	0.018558	0.019216	0.019818	0.020325
-3602.00	0.012941	0.013720	0.014601	0.015600	0.016730	0.017238	0.017708	0.018131	0.018483
-4102.00	0.012825	0.013559	0.014380	0.015295	0.015700	0.016080	0.016431	0.016741	0.017990
-4602.00	0.012684	0.013374	0.014134	0.014466	0.014782	0.015079	0.015348	0.015582	0.018038
-5102.00	0.012514	0.013167	0.013451	0.013720	0.013975	0.014211	0.014423	0.014836	0.017931
-5602.00	0.012326	0.012582	0.012828	0.013053	0.013263	0.013454	0.013624	0.014985	0.017733

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -811.00	-311.00	189.00	689.00	1189.00	1689.00	2189.00	2689.00	3189.00
5398.00	0.013510	0.015546	0.017551	0.015865	0.014063	0.012299	0.010628	0.009730	0.009798
4898.00	0.014093	0.016481	0.018839	0.016848	0.014722	0.012660	0.010738	0.010491	0.010543
4398.00	0.014706	0.017549	0.020370	0.017975	0.015424	0.012984	0.011274	0.011390	0.011415
3898.00	0.015323	0.018766	0.022212	0.019264	0.016146	0.013223	0.012366	0.012462	0.012440
3398.00	0.015872	0.020115	0.024425	0.020707	0.016818	0.013488	0.013702	0.013756	0.013654
2898.00	0.016239	0.021576	0.027136	0.022298	0.017338	0.015113	0.015354	0.015325	0.015098
2398.00	0.016178	0.022978	0.030411	0.023895	0.017481	0.017241	0.017435	0.017262	0.017258
1898.00	0.020070	0.023980	0.034377	0.025213	0.019224	0.020010	0.020126	0.020174	0.019943
1398.00	0.026872	0.023716	0.039079	0.025525	0.022831	0.023788	0.024180	0.023883	0.023077
898.00	0.037952	0.027437	0.046621	0.026092	0.028536	0.029900	0.029667	0.028457	0.028803
398.00	0.040059	0.053123	0.076344	0.043269	0.040567	0.040610	0.042076	0.041060	0.039152
-102.00	0.070945	0.105230	0.146146	0.131159	0.077036	0.068559	0.061931	0.055497	0.050087
-602.00	0.038326	0.063447	0.113109	0.077310	0.065864	0.061231	0.056647	0.051617	0.047171
-1102.00	0.037036	0.040856	0.067545	0.073429	0.058163	0.055128	0.051121	0.046928	0.043482
-1602.00	0.030859	0.034524	0.055710	0.055012	0.051489	0.051586	0.047604	0.043969	0.040608
-2102.00	0.026446	0.034197	0.048817	0.045271	0.042057	0.043562	0.044644	0.041435	0.038546
-2602.00	0.023399	0.032710	0.043252	0.039568	0.034793	0.036441	0.038168	0.039066	0.036598
-3102.00	0.023383	0.030955	0.038929	0.035584	0.031501	0.030647	0.032611	0.034004	0.034836
-3602.00	0.023108	0.029169	0.035402	0.032471	0.029003	0.026096	0.028095	0.029701	0.030885
-4102.00	0.022563	0.027520	0.032543	0.029987	0.027027	0.024114	0.024480	0.026127	0.027454
-4602.00	0.021940	0.026080	0.030239	0.027991	0.025431	0.022899	0.021574	0.023177	0.024545
-5102.00	0.021300	0.024821	0.028339	0.026346	0.024108	0.021884	0.019765	0.020738	0.022087
-5602.00	0.020674	0.023715	0.026742	0.024963	0.022986	0.021017	0.019123	0.018711	0.020007

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 3689.00	4189.00	4689.00	5189.00	5689.00
5398.00	0.009815	0.009789	0.009723	0.009619	0.009490
4898.00	0.010534	0.010471	0.010366	0.010226	0.010251
4398.00	0.011362	0.011247	0.011085	0.011117	0.011114
3898.00	0.012322	0.012132	0.012157	0.012139	0.012065
3398.00	0.013436	0.013452	0.013406	0.013285	0.013113
2898.00	0.015102	0.015012	0.014818	0.014558	0.014256
2398.00	0.017106	0.016795	0.016395	0.015950	0.015487
1898.00	0.019426	0.018797	0.018121	0.017595	0.017851
1398.00	0.022038	0.021780	0.021941	0.021858	0.021629
898.00	0.028674	0.028064	0.027302	0.026481	0.025659
398.00	0.036978	0.034861	0.032976	0.031300	0.029814
-102.00	0.045523	0.041741	0.038663	0.036101	0.033936
-602.00	0.043262	0.039951	0.037205	0.034888	0.032912
-1102.00	0.040379	0.037670	0.035358	0.033367	0.031639
-1602.00	0.037653	0.035435	0.033529	0.031849	0.030364
-2102.00	0.036007	0.033819	0.031931	0.030389	0.029124
-2602.00	0.034442	0.032538	0.030868	0.029401	0.028107
-3102.00	0.032984	0.031329	0.029853	0.028538	0.027365
-3602.00	0.031646	0.030202	0.028896	0.027718	0.026653
-4102.00	0.028465	0.029161	0.028002	0.026943	0.025977
-4602.00	0.025662	0.026538	0.027172	0.026217	0.025329
-5102.00	0.023241	0.024196	0.024962	0.025527	0.024681
-5602.00	0.021154	0.022141	0.022963	0.023595	0.024060

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2401 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.068908	AT (	289.00,	-102.00)	GC	6.	0.028461	AT (	189.00,	-202.00)	GC
2.	0.043499	AT (	389.00,	-102.00)	GC	7.	0.027577	AT (	89.00,	-202.00)	GC
3.	0.032912	AT (	289.00,	-202.00)	GC	8.	0.026929	AT (	189.00,	-2.00)	GC
4.	0.032425	AT (	89.00,	-102.00)	GC	9.	0.026402	AT (	2189.00,	-102.00)	GC
5.	0.031279	AT (	489.00,	-102.00)	GC	10.	0.026180	AT (	2689.00,	-102.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN01 ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.454326	AT (	289.00,	-302.00)	GC	6.	0.201328	AT (	489.00,	-202.00)	GC
2.	0.250718	AT (	389.00,	-202.00)	GC	7.	0.195959	AT (	389.00,	-402.00)	GC
3.	0.250123	AT (	289.00,	-402.00)	GC	8.	0.182125	AT (	489.00,	-102.00)	GC
4.	0.229501	AT (	289.00,	-202.00)	GC	9.	0.181084	AT (	389.00,	-502.00)	GC
5.	0.224872	AT (	389.00,	-102.00)	GC	10.	0.178302	AT (	389.00,	-302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.467777	AT (	289.00, -302.00)	GC	6.	0.243157	AT (	289.00, -102.00)	GC
2.	0.274323	AT (	389.00, -202.00)	GC	7.	0.222206	AT (	489.00, -202.00)	GC
3.	0.268371	AT (	389.00, -102.00)	GC	8.	0.213404	AT (	489.00, -102.00)	GC
4.	0.262413	AT (	289.00, -202.00)	GC	9.	0.208199	AT (	389.00, -402.00)	GC
5.	0.260005	AT (	289.00, -402.00)	GC	10.	0.205258	AT (	89.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2401 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.013452	AT (	289.00,	-302.00)	GC	6.	0.068908	AT (	289.00,	-102.00)	GC
2.	0.023605	AT (	389.00,	-202.00)	GC	7.	0.020877	AT (	489.00,	-202.00)	GC
3.	0.043499	AT (	389.00,	-102.00)	GC	8.	0.031279	AT (	489.00,	-102.00)	GC
4.	0.032912	AT (	289.00,	-202.00)	GC	9.	0.012240	AT (	389.00,	-402.00)	GC
5.	0.009882	AT (	289.00,	-402.00)	GC	10.	0.027577	AT (	89.00,	-202.00)	GC

*** SOURCE GEN01 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.454326	AT (	289.00,	-302.00)	GC	6.	0.174249	AT (	289.00,	-102.00)	GC
2.	0.250718	AT (	389.00,	-202.00)	GC	7.	0.201328	AT (	489.00,	-202.00)	GC
3.	0.224872	AT (	389.00,	-102.00)	GC	8.	0.182125	AT (	489.00,	-102.00)	GC
4.	0.229501	AT (	289.00,	-202.00)	GC	9.	0.195959	AT (	389.00,	-402.00)	GC
5.	0.250123	AT (	289.00,	-402.00)	GC	10.	0.177682	AT (	89.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ISCLT3 NO_X 1990

```
** The results for this run are in file 24LT90A.OUT

CO STARTING
   TITLEONE  FGT CS 24 Turbine 2401 & Emergency Generator 1 1990 Met ISCLT NOx
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2401  POINT   189.02    -102.44

** Parameters     QS    HS    TS      VS       DS
**               -----  ----  -----   -----    ---
SO SRCPARAM 2401  1.109 17.68 718.1   13.85    2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58
SO BUILDWID 2401       13.72   21.65   26.29   26.93   24.69   27.36
SO BUILDWID 2401       25.86   20.43   13.72   21.65   26.29   26.93
SO BUILDWID 2401       24.69   27.36   25.86   20.43

SO LOCATION GEN01  POINT     224.09    -158.54

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.063  6.10  830.93  47.89    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26   11.58    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.15   17.14   15.52   11.53    7.01   12.19
SO BUILDWID GEN01      15.52   20.43   16.15   17.14   15.52   11.53
SO BUILDWID GEN01       7.01   12.19   15.52   16.48

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -911 23 100 -1202 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5311 23 500 -5602 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  GAINS90.STA
   ANEMHGHT  10.
   SURFDATA  12816  1990  GAINESVILLE
   UAIRDATA  12842  1990  TAMPA
   STARDATA  ANNUAL

**                - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -
**
**                   STAB    STAB    STAB    STAB    STAB    STAB
**                   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**                   -----   -----   -----   -----   -----   -----

   AVETEMPS  ANNUAL   299.8   299.8   299.8   293.5   287.2   287.2


**                        - MIXING LAYER HEIGHT (METERS) -
**                  S
**                  T    WS      WS      WS      WS      WS      WS
**            SEAS  A   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**            ----  B   -----   -----   -----   -----   -----   -----

   AVEMIXHT  ANNUAL 1 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04
   AVEMIXHT  ANNUAL 2 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 3 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 4 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
   AVEMIXHT  ANNUAL 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10 INDSRC SRCGRP SOCONT
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.
6. "Upper Bound" Values For Supersquat Buildings.
7. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 1058 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: 24LT90a.IN ; **Output Print File: 24LT90a.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.11090E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.63000E-01	224.1	-158.5	0.0	6.10	830.93	47.89	0.20	YES	

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1990 Met ISCLT NOx *** 12/20/99
*** Building height = 38' *** 12:20:42

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	13.7,	0	2	11.6,	21.6,	0	3	11.6,	26.3,	0	4	11.6,	26.9,	0
5	11.6,	24.7,	0	6	11.6,	27.4,	0	7	11.6,	25.9,	0	8	11.6,	20.4,	0
9	11.6,	13.7,	0	10	11.6,	21.6,	0	11	11.6,	26.3,	0	12	11.6,	26.9,	0
13	11.6,	24.7,	0	14	11.6,	27.4,	0	15	11.6,	25.9,	0	16	11.6,	20.4,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.1,	0	2	5.3,	17.1,	0	3	5.3,	15.5,	0	4	5.3,	11.5,	0
5	5.3,	7.0,	0	6	5.3,	12.2,	0	7	5.3,	15.5,	0	8	11.6,	20.4,	0
9	5.3,	16.1,	0	10	5.3,	17.1,	0	11	5.3,	15.5,	0	12	5.3,	11.5,	0
13	5.3,	7.0,	0	14	5.3,	12.2,	0	15	5.3,	15.5,	0	16	5.3,	16.5,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0, -11.0,
89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0, 989.0,
1089.0, 1189.0, 1289.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0, -302.0,
-202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0, 698.0,
798.0, 898.0, 998.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-5311.0, -4811.0, -4311.0, -3811.0, -3311.0, -2811.0, -2311.0, -1811.0, -1311.0, -811.0,
-311.0, 189.0, 689.0, 1189.0, 1689.0, 2189.0, 2689.0, 3189.0, 3689.0, 4189.0,
4689.0, 5189.0, 5689.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-5602.0, -5102.0, -4602.0, -4102.0, -3602.0, -3102.0, -2602.0, -2102.0, -1602.0, -1102.0,
-602.0, -102.0, 398.0, 898.0, 1398.0, 1898.0, 2398.0, 2898.0, 3398.0, 3898.0,
4398.0, 4898.0, 5398.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44
2401	189.0	-102.0	0.44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	299.8000	299.8000	299.8000	293.5000	287.2000	287.2000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000
STABILITY CATEGORY B	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY C	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY D	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00024600	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00024600	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00048200	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00036000	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00085000	0.00125600	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00036800	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00092000	0.00171300	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00030700	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00030700	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00071900	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00043000	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00078900	0.00114200	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00060500	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00030700	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00030700	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00018400	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00196900	0.00433800	0.00228400	0.00000000	0.00000000	0.00000000
22.500	0.00133500	0.00262600	0.00148500	0.00000000	0.00000000	0.00000000
45.000	0.00094300	0.00331100	0.00148500	0.00000000	0.00000000	0.00000000
67.500	0.00115600	0.00251200	0.00137000	0.00000000	0.00000000	0.00000000
90.000	0.00159400	0.00456700	0.00285400	0.00000000	0.00000000	0.00000000
112.500	0.00170900	0.00342500	0.00148500	0.00000000	0.00000000	0.00000000
135.000	0.00128500	0.00399600	0.00182700	0.00000000	0.00000000	0.00000000
157.500	0.00063500	0.00171300	0.00228400	0.00000000	0.00000000	0.00000000
180.000	0.00105800	0.00216900	0.00194100	0.00000000	0.00000000	0.00000000
202.500	0.00044000	0.00102800	0.00022900	0.00000000	0.00000000	0.00000000

225.000	0.00071600	0.00251200	0.00194100	0.00000000	0.00000000	0.00000000
247.500	0.00068300	0.00239800	0.00137000	0.00000000	0.00000000	0.00000000
270.000	0.00149600	0.00422400	0.00262600	0.00000000	0.00000000	0.00000000
292.500	0.00100900	0.00251200	0.00228400	0.00000000	0.00000000	0.00000000
315.000	0.00092700	0.00274000	0.00194100	0.00000000	0.00000000	0.00000000
337.500	0.00086200	0.00251200	0.00148500	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00070700	0.00319700	0.00468100	0.00011500	0.00000000	0.00000000
22.500	0.00025600	0.00182700	0.00285400	0.00034300	0.00000000	0.00000000
45.000	0.00052700	0.00376800	0.00582200	0.00045700	0.00000000	0.00000000
67.500	0.00039900	0.00285400	0.00730600	0.00102800	0.00000000	0.00000000
90.000	0.00089600	0.00548000	0.01118800	0.00239800	0.00000000	0.00000000
112.500	0.00041500	0.00296900	0.00707800	0.00080000	0.00000000	0.00000000
135.000	0.00051300	0.00274000	0.00776300	0.00125600	0.00000000	0.00000000
157.500	0.00035100	0.00251200	0.00468100	0.00034300	0.00000000	0.00000000
180.000	0.00043100	0.00308300	0.00593700	0.00057100	0.00000000	0.00000000
202.500	0.00020800	0.00148500	0.00262600	0.00034300	0.00000000	0.00000000
225.000	0.00043400	0.00216900	0.00171300	0.00000000	0.00000000	0.00000000
247.500	0.00028800	0.00205500	0.00468100	0.00068500	0.00000000	0.00000000
270.000	0.00047900	0.00342500	0.00799100	0.00114200	0.00000000	0.00000000
292.500	0.00056100	0.00308300	0.00502300	0.00057100	0.00000000	0.00000000
315.000	0.00049700	0.00262600	0.00365300	0.00034300	0.00000000	0.00000000
337.500	0.00035100	0.00251200	0.00388200	0.00022900	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00121100	0.00719200	0.00582200	0.00159900	0.00000000	0.00000000
22.500	0.00054900	0.00365300	0.00525200	0.00045700	0.00000000	0.00011500
45.000	0.00054900	0.00365300	0.00924700	0.00319700	0.00000000	0.00000000
67.500	0.00081700	0.00456700	0.00959000	0.00627900	0.00091400	0.00000000
90.000	0.00125700	0.00662200	0.01552600	0.01187300	0.00000000	0.00000000
112.500	0.00074900	0.00411000	0.00764900	0.00433800	0.00022900	0.00000000
135.000	0.00082800	0.00376800	0.00787700	0.00331100	0.00011500	0.00000000
157.500	0.00062300	0.00239800	0.00559400	0.00353900	0.00057100	0.00000000
180.000	0.00138200	0.00570800	0.01016000	0.00490900	0.00057100	0.00000000
202.500	0.00052600	0.00262600	0.00696400	0.00331100	0.00034300	0.00000000

225.000	0.00048000	0.00319700	0.00662200	0.00411000	0.00011500	0.00000000
247.500	0.00034300	0.00228400	0.00924700	0.00742100	0.00034300	0.00011500
270.000	0.00073100	0.00399600	0.01164400	0.00844800	0.00080000	0.00000000
292.500	0.00046300	0.00308300	0.00593700	0.00411000	0.00034300	0.00000000
315.000	0.00029200	0.00194100	0.00445300	0.00331100	0.00034300	0.00011500
337.500	0.00073700	0.00228400	0.00342500	0.00137000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1990 YEAR: 1990

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00000000	0.00627900	0.00650700	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00274000	0.00388200	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00490900	0.00388200	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00502300	0.00365300	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.00970400	0.00822000	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00468100	0.00399600	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00422400	0.00171300	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00239800	0.00068500	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00376800	0.00137000	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00319700	0.00091400	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00216900	0.00034300	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00137000	0.00490900	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00627900	0.00810600	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00353900	0.00228400	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00319700	0.00194100	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00433800	0.00274000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.01848900	0.01427000	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.01017800	0.00867600	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.01235100	0.01027400	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.01104300	0.00993200	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.02828700	0.02214700	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.01123500	0.00856200	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00891900	0.00616500	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00444500	0.00262600	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00640400	0.00490900	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00411700	0.00342500	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00315200	0.00274000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00400300	0.00353900	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.01418100	0.01221500	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.01609500	0.01312800	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.01998800	0.01324300	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.01924400	0.01210100	0.00000000	0.00000000	0.00000000	0.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00014

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -911.00	-811.00	-711.00	-611.00	-511.00	-411.00	-311.00	-211.00	-111.00
998.00	0.039501	0.038322	0.036920	0.035290	0.033437	0.031379	0.029149	0.029207	0.032234
898.00	0.040437	0.041104	0.039748	0.038130	0.036244	0.034096	0.031706	0.029402	0.032839
798.00	0.041273	0.042107	0.042931	0.041388	0.039530	0.037341	0.034819	0.031991	0.033438
698.00	0.042152	0.042998	0.044049	0.045131	0.043395	0.041247	0.038648	0.035590	0.034101
598.00	0.043082	0.043947	0.045043	0.046453	0.047938	0.045939	0.043536	0.040975	0.037697
498.00	0.044069	0.044964	0.046118	0.047628	0.049559	0.051704	0.050453	0.048582	0.045474
398.00	0.045111	0.046048	0.047275	0.048886	0.051165	0.054936	0.059070	0.057845	0.055573
298.00	0.048146	0.047511	0.048498	0.050254	0.053381	0.058244	0.063923	0.069864	0.069989
198.00	0.057427	0.055871	0.053971	0.052718	0.055640	0.061549	0.069072	0.079315	0.091720
98.00	0.067679	0.067129	0.066374	0.066360	0.067669	0.068155	0.075176	0.089567	0.110982
-2.00	0.078636	0.079316	0.080062	0.082477	0.087555	0.093713	0.102009	0.112554	0.130258
-102.00	0.089925	0.091950	0.094369	0.099201	0.108356	0.120706	0.139605	0.170168	0.215267
-202.00	0.088030	0.090060	0.092573	0.097551	0.106639	0.119314	0.138808	0.170133	0.216644
-302.00	0.077707	0.078586	0.079659	0.082331	0.087956	0.095346	0.105645	0.120324	0.136796
-402.00	0.067755	0.067580	0.067371	0.067644	0.069587	0.073558	0.080658	0.093742	0.110384
-502.00	0.058489	0.057463	0.056724	0.055984	0.059321	0.064877	0.071448	0.079254	0.087132
-602.00	0.050689	0.050399	0.051655	0.053186	0.055451	0.059117	0.063566	0.067083	0.066158
-702.00	0.047833	0.048706	0.049743	0.051009	0.052556	0.054632	0.056207	0.055413	0.052968
-802.00	0.046495	0.047255	0.048133	0.049184	0.050421	0.050637	0.049024	0.047096	0.044188
-902.00	0.045342	0.046031	0.046807	0.047705	0.047664	0.046037	0.044038	0.041658	0.039096
-1002.00	0.044347	0.044998	0.045719	0.045558	0.044094	0.042373	0.040369	0.038081	0.037356
-1102.00	0.043480	0.044117	0.043937	0.042650	0.041149	0.039440	0.037535	0.035606	0.038093
-1202.00	0.042711	0.042552	0.041451	0.040164	0.038699	0.037074	0.035312	0.034100	0.038691

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00	489.00	589.00	689.00	789.00
998.00	0.035514	0.038959	0.042455	0.040136	0.035841	0.031638	0.027660	0.024492	0.023992
898.00	0.036616	0.040621	0.044696	0.042153	0.037229	0.032432	0.027938	0.025510	0.025269
798.00	0.037827	0.042583	0.047435	0.044599	0.038840	0.033293	0.028451	0.027124	0.026800
698.00	0.039874	0.045895	0.051793	0.048416	0.041263	0.034333	0.029338	0.029057	0.028643
598.00	0.043298	0.051107	0.058760	0.054265	0.044866	0.035721	0.032263	0.031607	0.030853
498.00	0.046852	0.057349	0.067665	0.061468	0.048616	0.037648	0.036614	0.035234	0.033717
398.00	0.051747	0.065667	0.080314	0.071374	0.052791	0.043145	0.042133	0.040203	0.038097
298.00	0.067747	0.077320	0.099540	0.085848	0.059066	0.052660	0.049793	0.046893	0.045794
198.00	0.093504	0.091779	0.127850	0.105280	0.071148	0.067278	0.061540	0.058556	0.054937
98.00	0.136095	0.131293	0.169874	0.128919	0.097983	0.090326	0.083197	0.073481	0.065317
-2.00	0.172049	0.220270	0.214642	0.139213	0.146288	0.135527	0.111493	0.094144	0.081643
-102.00	0.275368	0.292735	0.227143	0.219697	0.258843	0.204094	0.154100	0.120851	0.099660
-202.00	0.279470	0.295792	0.216959	0.204941	0.231386	0.193837	0.148793	0.117418	0.097214
-302.00	0.171218	0.189387	0.149681	0.459254	0.144225	0.120946	0.099370	0.087134	0.077316
-402.00	0.125937	0.112120	0.138108	0.255862	0.186092	0.089106	0.077547	0.067336	0.059966
-502.00	0.085237	0.077061	0.110882	0.171586	0.192989	0.109680	0.061257	0.056605	0.052798
-602.00	0.061775	0.068466	0.090444	0.128368	0.166111	0.122159	0.075904	0.048654	0.046534
-702.00	0.048810	0.061350	0.076607	0.102218	0.129638	0.125520	0.088244	0.059426	0.042482
-802.00	0.045487	0.056591	0.068057	0.086486	0.106891	0.122856	0.093645	0.069596	0.051530
-902.00	0.044291	0.053046	0.062187	0.075858	0.091313	0.104353	0.095913	0.075684	0.059766
-1002.00	0.043912	0.051261	0.059000	0.069296	0.081165	0.091346	0.095561	0.078634	0.064810
-1102.00	0.043979	0.050422	0.057175	0.065040	0.073957	0.081785	0.088232	0.079422	0.067435
-1202.00	0.044017	0.049779	0.055766	0.061823	0.068575	0.074576	0.079625	0.078774	0.068459

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 889.00	989.00	1089.00	1189.00	1289.00
998.00	0.023754	0.023476	0.023169	0.022840	0.022495
898.00	0.024963	0.024612	0.024231	0.023830	0.023603
798.00	0.026390	0.025930	0.025442	0.025129	0.025432
698.00	0.028081	0.027460	0.027018	0.027308	0.027492
598.00	0.030084	0.029450	0.029699	0.029798	0.029800
498.00	0.032673	0.032867	0.032812	0.032620	0.032361
398.00	0.037435	0.036899	0.036378	0.035773	0.035162
298.00	0.043450	0.041634	0.040308	0.039197	0.038157
198.00	0.050470	0.046890	0.044555	0.044191	0.043946
98.00	0.059624	0.055237	0.052828	0.051598	0.050708
-2.00	0.073019	0.065806	0.061690	0.059454	0.057798
-102.00	0.086345	0.076298	0.070650	0.067397	0.064937
-202.00	0.084516	0.075024	0.069565	0.066449	0.064102
-302.00	0.070350	0.064482	0.061363	0.059670	0.058360
-402.00	0.056320	0.054466	0.053763	0.053394	0.052989
-502.00	0.049230	0.047438	0.047255	0.047802	0.048162
-602.00	0.045071	0.044548	0.044427	0.044347	0.044228
-702.00	0.042390	0.042500	0.042676	0.042708	0.042726
-802.00	0.040929	0.041246	0.041397	0.041523	0.041592
-902.00	0.047765	0.040448	0.040599	0.040716	0.040769
-1002.00	0.053804	0.045353	0.040166	0.040198	0.040190
-1102.00	0.057643	0.049838	0.043738	0.039892	0.039785
-1202.00	0.059816	0.052728	0.047013	0.042480	0.039505

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -5311.00	-4811.00	-4311.00	-3811.00	-3311.00	-2811.00	-2311.00	-1811.00	-1311.00
5398.00	0.013472	0.013249	0.012929	0.012485	0.011914	0.011208	0.010359	0.010622	0.011953
4898.00	0.014216	0.014492	0.014218	0.013816	0.013267	0.012550	0.011649	0.010911	0.012433
4398.00	0.015019	0.015352	0.015685	0.015360	0.014864	0.014163	0.013225	0.012037	0.012931
3898.00	0.015873	0.016286	0.016714	0.017152	0.016757	0.016115	0.015173	0.013890	0.013430
3398.00	0.016788	0.017301	0.017842	0.018412	0.019000	0.018490	0.017605	0.016259	0.014409
2898.00	0.017757	0.018390	0.019070	0.019798	0.020573	0.021385	0.020661	0.019334	0.017267
2398.00	0.018768	0.019540	0.020385	0.021307	0.022309	0.023382	0.024530	0.023374	0.021169
1898.00	0.021749	0.021173	0.021760	0.022914	0.024193	0.025605	0.027110	0.028745	0.026562
1398.00	0.026877	0.026954	0.026794	0.026257	0.026167	0.027981	0.029936	0.031971	0.034155
898.00	0.032364	0.033245	0.034076	0.034763	0.035149	0.034827	0.033306	0.035514	0.038035
398.00	0.038039	0.039825	0.041808	0.043992	0.046357	0.048679	0.050441	0.050777	0.047340
-102.00	0.043691	0.046403	0.049585	0.053369	0.057932	0.063370	0.069650	0.076910	0.083962
-602.00	0.038856	0.040800	0.042992	0.045459	0.048221	0.051128	0.053790	0.055578	0.054446
-1102.00	0.033509	0.034591	0.035678	0.036701	0.037536	0.037839	0.037108	0.038155	0.041139
-1602.00	0.028319	0.028626	0.028751	0.028571	0.028196	0.030178	0.032548	0.035047	0.037721
-2102.00	0.023450	0.023120	0.023480	0.024915	0.026525	0.028333	0.030289	0.032426	0.031266
-2602.00	0.020378	0.021390	0.022512	0.023753	0.025121	0.026612	0.028260	0.027730	0.026284
-3102.00	0.019707	0.020607	0.021591	0.022663	0.023826	0.025080	0.024759	0.023922	0.022520
-3602.00	0.019063	0.019863	0.020726	0.021654	0.022647	0.022425	0.021850	0.020925	0.019633
-4102.00	0.018450	0.019162	0.019921	0.020728	0.020560	0.020148	0.019501	0.018593	0.018762
-4602.00	0.017866	0.018505	0.019176	0.019043	0.018735	0.018260	0.017598	0.016744	0.018644
-5102.00	0.017297	0.017888	0.017786	0.017548	0.017187	0.016690	0.016047	0.015585	0.018401
-5602.00	0.016756	0.016697	0.016533	0.016256	0.015873	0.015378	0.014769	0.015609	0.018093

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -811.00	-311.00	189.00	689.00	1189.00	1689.00	2189.00	2689.00	3189.00
5398.00	0.013342	0.014743	0.016103	0.014679	0.013179	0.011717	0.010337	0.009425	0.009057
4898.00	0.014043	0.015681	0.017273	0.015573	0.013787	0.012065	0.010467	0.009862	0.009447
4398.00	0.014817	0.016760	0.018657	0.016590	0.014428	0.012375	0.010821	0.010355	0.009882
3898.00	0.015665	0.018008	0.020313	0.017746	0.015081	0.012601	0.011457	0.010918	0.010374
3398.00	0.016563	0.019442	0.022314	0.019044	0.015691	0.012809	0.012200	0.011569	0.010937
2898.00	0.017466	0.021078	0.024767	0.020473	0.016156	0.013791	0.013077	0.012330	0.011592
2398.00	0.018287	0.022878	0.027802	0.021959	0.016309	0.015022	0.014146	0.013246	0.013499
1898.00	0.022536	0.024676	0.031581	0.023278	0.017485	0.016577	0.015532	0.015846	0.015952
1398.00	0.029639	0.026074	0.036439	0.024012	0.019856	0.018694	0.019211	0.019279	0.018860
898.00	0.041104	0.031706	0.044696	0.025510	0.023830	0.024384	0.024292	0.023516	0.023953
398.00	0.046048	0.059070	0.080314	0.040203	0.035773	0.034256	0.035226	0.034474	0.032921
-102.00	0.091950	0.139605	0.227143	0.120851	0.067397	0.058489	0.052467	0.047015	0.042410
-602.00	0.050399	0.063566	0.090444	0.048654	0.044347	0.045236	0.043770	0.040794	0.037757
-1102.00	0.044117	0.037535	0.057175	0.079422	0.039892	0.038885	0.036630	0.034174	0.032577
-1602.00	0.034946	0.032989	0.051949	0.061487	0.047570	0.036716	0.034168	0.031712	0.029335
-2102.00	0.028568	0.033935	0.047387	0.049085	0.045311	0.037160	0.032126	0.029896	0.027832
-2602.00	0.024319	0.032811	0.042572	0.042123	0.040407	0.035330	0.031227	0.028191	0.026425
-3102.00	0.024148	0.031133	0.038504	0.037409	0.035560	0.032710	0.029596	0.027102	0.025152
-3602.00	0.023689	0.029275	0.035015	0.033782	0.032049	0.030099	0.027776	0.025814	0.024183
-4102.00	0.022969	0.027520	0.032125	0.030926	0.029378	0.027711	0.026018	0.024475	0.023145
-4602.00	0.022212	0.025992	0.029783	0.028660	0.027280	0.025824	0.024422	0.023197	0.022113
-5102.00	0.021462	0.024659	0.027848	0.026812	0.025583	0.024304	0.023030	0.022025	0.021134
-5602.00	0.020749	0.023494	0.026225	0.025275	0.024178	0.023045	0.021919	0.020967	0.020228

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 3689.00	4189.00	4689.00	5189.00	5689.00
5398.00	0.008688	0.008326	0.007975	0.007634	0.007310
4898.00	0.009032	0.008629	0.008241	0.007873	0.007955
4398.00	0.009414	0.008961	0.008531	0.008637	0.008706
3898.00	0.009841	0.009331	0.009459	0.009538	0.009544
3398.00	0.010326	0.010481	0.010569	0.010560	0.010479
2898.00	0.011786	0.011881	0.011843	0.011709	0.011511
2398.00	0.013599	0.013504	0.013282	0.012980	0.012633
1898.00	0.015729	0.015350	0.014876	0.014483	0.014701
1398.00	0.018159	0.018037	0.018209	0.018143	0.017936
898.00	0.023945	0.023459	0.022822	0.022109	0.021381
398.00	0.031132	0.029328	0.027703	0.026239	0.024927
-102.00	0.038534	0.035269	0.032594	0.030350	0.028442
-602.00	0.034912	0.032383	0.030235	0.028384	0.026778
-1102.00	0.030817	0.029105	0.027554	0.026156	0.024900
-1602.00	0.027184	0.025998	0.024969	0.023982	0.023052
-2102.00	0.025984	0.024366	0.022954	0.021941	0.021294
-2602.00	0.024852	0.023444	0.022196	0.021089	0.020107
-3102.00	0.023801	0.022578	0.021476	0.020485	0.019595
-3602.00	0.022839	0.021774	0.020801	0.019914	0.019108
-4102.00	0.022005	0.021035	0.020173	0.019378	0.018647
-4602.00	0.021159	0.020323	0.019593	0.018878	0.018208
-5102.00	0.020334	0.019620	0.018981	0.018405	0.017767
-5602.00	0.019553	0.018941	0.018383	0.017846	0.017345

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2401 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.078136	AT (	89.00, -102.00)	GC	6.	0.035661	AT (	-111.00, -102.00)	GC
2.	0.063189	AT (	289.00, -102.00)	GC	7.	0.032954	AT (	-2311.00, -102.00)	GC
3.	0.049688	AT (	-11.00, -102.00)	GC	8.	0.032709	AT (	-1811.00, -102.00)	GC
4.	0.038325	AT (	389.00, -102.00)	GC	9.	0.032424	AT (	-2811.00, -102.00)	GC
5.	0.037951	AT (	189.00, -2.00)	GC	10.	0.031498	AT (	-3311.00, -102.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN01 ***

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.446918	AT (	289.00, -302.00)	GC	6.	0.227143	AT (	189.00, -102.00)	GC
2.	0.267497	AT (	89.00, -202.00)	GC	7.	0.225681	AT (	-11.00, -102.00)	GC
3.	0.254152	AT (	-11.00, -202.00)	GC	8.	0.220518	AT (	389.00, -102.00)	GC
4.	0.245961	AT (	289.00, -402.00)	GC	9.	0.214599	AT (	89.00, -102.00)	GC
5.	0.227143	AT (	189.00, -102.00)	GC	10.	0.212451	AT (	389.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.459254	AT (	289.00,	-302.00)	GC	6.	0.258843	AT (	389.00,	-102.00)	GC
2.	0.295792	AT (	89.00,	-202.00)	GC	7.	0.255862	AT (	289.00,	-402.00)	GC
3.	0.292735	AT (	89.00,	-102.00)	GC	8.	0.231386	AT (	389.00,	-202.00)	GC
4.	0.279470	AT (	-11.00,	-202.00)	GC	9.	0.227143	AT (	189.00,	-102.00)	GC
5.	0.275368	AT (	-11.00,	-102.00)	GC	10.	0.227143	AT (	189.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2401 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.012337	AT (	289.00,	-302.00)	GC	6.	0.038325	AT (	389.00,	-102.00)	GC
2.	0.028295	AT (	89.00,	-202.00)	GC	7.	0.009900	AT (	289.00,	-402.00)	GC
3.	0.078136	AT (	89.00,	-102.00)	GC	8.	0.018936	AT (	389.00,	-202.00)	GC
4.	0.025317	AT (	-11.00,	-202.00)	GC	9.	0.000000	AT (	189.00,	-102.00)	GC
5.	0.049688	AT (	-11.00,	-102.00)	GC	10.	0.000000	AT (	189.00,	-102.00)	GC

*** SOURCE GEN01 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.446918	AT (	289.00,	-302.00)	GC	6.	0.220518	AT (	389.00,	-102.00)	GC
2.	0.267497	AT (	89.00,	-202.00)	GC	7.	0.245961	AT (	289.00,	-402.00)	GC
3.	0.214599	AT (	89.00,	-102.00)	GC	8.	0.212451	AT (	389.00,	-202.00)	GC
4.	0.254152	AT (	-11.00,	-202.00)	GC	9.	0.227143	AT (	189.00,	-102.00)	GC
5.	0.225681	AT (	-11.00,	-102.00)	GC	10.	0.227143	AT (	189.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ISCLT3 NO_X 1991

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** The results for this run are in file 24LT91A.OUT

CO STARTING
   TITLEONE  FGT CS 24 Turbine 2401 & Emergency Generator 1 1991 Met ISCLT NOx
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2401  POINT   189.02    -102.44

** Parameters     QS     HS     TS       VS       DS
**               -----  ----  -----    -----     ---
SO SRCPARAM 2401  1.109 17.68 718.1    13.85     2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58
SO BUILDWID 2401       13.72   21.65   26.29   26.93   24.69   27.36
SO BUILDWID 2401       25.86   20.43   13.72   21.65   26.29   26.93
SO BUILDWID 2401       24.69   27.36   25.86   20.43

SO LOCATION GEN01  POINT     224.09    -158.54

** Parameters      QS     HS     TS       VS       DS
**                -----  ----  -----    -----     ---
SO SRCPARAM GEN01  0.063  6.10  830.93   47.89     0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26   11.58    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.15   17.14   15.52   11.53    7.01   12.19
SO BUILDWID GEN01      15.52   20.43   16.15   17.14   15.52   11.53
SO BUILDWID GEN01       7.01   12.19   15.52   16.48

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -911 23 100 -1202 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5311 23 500 -5602 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

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ME STARTING
   INPUTFIL  GAINS91.STA
   ANEMHGHT  10.
   SURFDATA  12816  1991  GAINESVILLE
   UAIRDATA  12842  1991  TAMPA
   STARDATA  ANNUAL

**                - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -
**
**                   STAB    STAB    STAB    STAB    STAB    STAB
**                   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**                   -----   -----   -----   -----   -----   -----

   AVETEMPS  ANNUAL  299.8   299.8   299.8   293.5   287.2   287.2


**                        - MIXING LAYER HEIGHT (METERS) -
**                 S
**                 T    WS      WS      WS      WS      WS      WS
**            SEAS A   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**            ---- B   -----   -----   -----   -----   -----   -----

   AVEMIXHT  ANNUAL 1 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04
   AVEMIXHT  ANNUAL 2 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 3 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 4 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
   AVEMIXHT  ANNUAL 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10 INDSRC SRCGRP SOCONT
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.
6. "Upper Bound" Values For Supersquat Buildings.
7. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 1058 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: 24LT91a.IN ; **Output Print File: 24LT91a.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.11090E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.63000E-01	224.1	-158.5	0.0	6.10	830.93	47.89	0.20	YES	

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1991 Met ISCLT NOx ***

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	13.7,	0	2	11.6,	21.6,	0	3	11.6,	26.3,	0	4	11.6,	26.9,	0
5	11.6,	24.7,	0	6	11.6,	27.4,	0	7	11.6,	25.9,	0	8	11.6,	20.4,	0
9	11.6,	13.7,	0	10	11.6,	21.6,	0	11	11.6,	26.3,	0	12	11.6,	26.9,	0
13	11.6,	24.7,	0	14	11.6,	27.4,	0	15	11.6,	25.9,	0	16	11.6,	20.4,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.1,	0	2	5.3,	17.1,	0	3	5.3,	15.5,	0	4	5.3,	11.5,	0
5	5.3,	7.0,	0	6	5.3,	12.2,	0	7	5.3,	15.5,	0	8	11.6,	20.4,	0
9	5.3,	16.1,	0	10	5.3,	17.1,	0	11	5.3,	15.5,	0	12	5.3,	11.5,	0
13	5.3,	7.0,	0	14	5.3,	12.2,	0	15	5.3,	15.5,	0	16	5.3,	16.5,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0, -11.0,
89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0, 989.0,
1089.0, 1189.0, 1289.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0, -302.0,
-202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0, 698.0,
798.0, 898.0, 998.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-5311.0, -4811.0, -4311.0, -3811.0, -3311.0, -2811.0, -2311.0, -1811.0, -1311.0, -811.0,
-311.0, 189.0, 689.0, 1189.0, 1689.0, 2189.0, 2689.0, 3189.0, 3689.0, 4189.0,
4689.0, 5189.0, 5689.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-5602.0, -5102.0, -4602.0, -4102.0, -3602.0, -3102.0, -2602.0, -2102.0, -1602.0, -1102.0,
-602.0, -102.0, 398.0, 898.0, 1398.0, 1898.0, 2398.0, 2898.0, 3398.0, 3898.0,
4398.0, 4898.0, 5398.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44
2401	189.0	-102.0	0.44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	299.8000	299.8000	299.8000	293.5000	287.2000	287.2000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000
STABILITY CATEGORY B	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY C	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY D	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00005700	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00028400	0.00091400	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00011400	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00017100	0.00022900	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00036000	0.00137000	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00009500	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00013300	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00017000	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00020800	0.00125600	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00011400	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00007600	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00005700	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00032200	0.00114200	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00043600	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00017000	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00020900	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00087400	0.00296900	0.00148500	0.00000000	0.00000000	0.00000000
22.500	0.00078300	0.00239800	0.00102800	0.00000000	0.00000000	0.00000000
45.000	0.00064600	0.00319700	0.00148500	0.00000000	0.00000000	0.00000000
67.500	0.00092900	0.00331100	0.00171300	0.00000000	0.00000000	0.00000000
90.000	0.00076000	0.00308300	0.00102800	0.00000000	0.00000000	0.00000000
112.500	0.00063200	0.00228400	0.00182700	0.00000000	0.00000000	0.00000000
135.000	0.00119400	0.00331100	0.00148500	0.00000000	0.00000000	0.00000000
157.500	0.00099300	0.00205500	0.00159900	0.00000000	0.00000000	0.00000000
180.000	0.00139600	0.00456700	0.00251200	0.00000000	0.00000000	0.00000000
202.500	0.00055900	0.00182700	0.00159900	0.00000000	0.00000000	0.00000000

225.000	0.00042600	0.00182700	0.00228400	0.00000000	0.00000000	0.00000000
247.500	0.00055900	0.00182700	0.00148500	0.00000000	0.00000000	0.00000000
270.000	0.00127200	0.00296900	0.00182700	0.00000000	0.00000000	0.00000000
292.500	0.00140000	0.00376800	0.00285400	0.00000000	0.00000000	0.00000000
315.000	0.00065000	0.00239800	0.00148500	0.00000000	0.00000000	0.00000000
337.500	0.00040800	0.00171300	0.00057100	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00039600	0.00548000	0.00399600	0.00068500	0.00000000	0.00000000
22.500	0.00025600	0.00353900	0.00319700	0.00034300	0.00000000	0.00000000
45.000	0.00037000	0.00342500	0.00559400	0.00045700	0.00000000	0.00000000
67.500	0.00059800	0.00319700	0.00639300	0.00068500	0.00000000	0.00000000
90.000	0.00028900	0.00399600	0.00376800	0.00057100	0.00000000	0.00000000
112.500	0.00037000	0.00342500	0.00319700	0.00022900	0.00000000	0.00000000
135.000	0.00032000	0.00274000	0.00331100	0.00080000	0.00000000	0.00000000
157.500	0.00032900	0.00285400	0.00342500	0.00057100	0.00000000	0.00000000
180.000	0.00051700	0.00376800	0.00502300	0.00080000	0.00000000	0.00000000
202.500	0.00011600	0.00159900	0.00171300	0.00045700	0.00011500	0.00000000
225.000	0.00010700	0.00148500	0.00274000	0.00022900	0.00000000	0.00000000
247.500	0.00011600	0.00159900	0.00422400	0.00045700	0.00000000	0.00000000
270.000	0.00037800	0.00353900	0.00730600	0.00080000	0.00000000	0.00000000
292.500	0.00047600	0.00319700	0.00479500	0.00171300	0.00000000	0.00000000
315.000	0.00015700	0.00216900	0.00513700	0.00022900	0.00000000	0.00000000
337.500	0.00012400	0.00171300	0.00274000	0.00022900	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00131300	0.00799100	0.01427000	0.00205500	0.00000000	0.00000000
22.500	0.00049500	0.00570800	0.01780900	0.00422400	0.00011500	0.00000000
45.000	0.00114900	0.01038900	0.02260300	0.00696400	0.00068500	0.00000000
67.500	0.00094600	0.00947500	0.01643900	0.00776300	0.00034300	0.00000000
90.000	0.00126800	0.01175800	0.01586800	0.00913300	0.00034300	0.00000000
112.500	0.00100100	0.00582200	0.00981800	0.00570800	0.00022900	0.00000000
135.000	0.00096600	0.00685000	0.00627900	0.00308300	0.00011500	0.00000000
157.500	0.00045100	0.00376800	0.00570800	0.00388200	0.00022900	0.00000000
180.000	0.00045600	0.00525200	0.01050300	0.00742100	0.00057100	0.00000000
202.500	0.00024800	0.00285400	0.00593700	0.00479500	0.00080000	0.00034300

225.000	0.00015900	0.00182700	0.00650700	0.00411000	0.00034300	0.00000000
247.500	0.00015900	0.00182700	0.00993200	0.00570800	0.00057100	0.00011500
270.000	0.00031700	0.00365300	0.00970400	0.00959000	0.00159900	0.00034300
292.500	0.00040200	0.00319700	0.00810600	0.00399600	0.00045700	0.00000000
315.000	0.00071900	0.00399600	0.00513700	0.00331100	0.00011500	0.00011500
337.500	0.00057500	0.00376800	0.00673600	0.00251200	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1991 YEAR: 1991

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00000000	0.00844800	0.00559400	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00342500	0.00342500	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00639300	0.00422400	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00913300	0.00479500	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01050300	0.00490900	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00799100	0.00353900	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00605100	0.00125600	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00582200	0.00125600	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00799100	0.00171300	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00228400	0.00034300	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00239800	0.00137000	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00262600	0.00239800	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00707800	0.00764900	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00502300	0.00274000	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00593700	0.00388200	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00582200	0.00365300	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00988100	0.01666700	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00479800	0.00685000	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00759600	0.01210100	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00953800	0.01461200	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.01262100	0.01872200	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00582500	0.00753500	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00508300	0.00639300	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00217100	0.00365300	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00411200	0.00685000	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00148500	0.00228400	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00165700	0.00296900	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00205700	0.00411000	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00662500	0.01016000	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00953800	0.01529700	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.01119400	0.01655300	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00925200	0.01335700	0.00000000	0.00000000	0.00000000	0.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00016

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -911.00	-811.00	-711.00	-611.00	-511.00	-411.00	-311.00	-211.00	-111.00
998.00	0.033058	0.032888	0.032641	0.032322	0.031940	0.031508	0.031043	0.032572	0.036706
898.00	0.034271	0.034596	0.034410	0.034146	0.033813	0.033420	0.032982	0.032731	0.037354
798.00	0.035575	0.035983	0.036363	0.036193	0.035951	0.035642	0.035272	0.034844	0.038002
698.00	0.037018	0.037503	0.038004	0.038487	0.038398	0.038235	0.037992	0.037621	0.038682
598.00	0.038619	0.039218	0.039848	0.040518	0.041193	0.041250	0.041304	0.041508	0.041514
498.00	0.040390	0.041149	0.041966	0.042854	0.043803	0.044840	0.045802	0.046875	0.047392
398.00	0.042333	0.043302	0.044376	0.045554	0.046968	0.049080	0.051372	0.053129	0.054602
298.00	0.044936	0.045692	0.047062	0.048625	0.050964	0.054388	0.057726	0.061154	0.064527
198.00	0.050608	0.051064	0.051437	0.052227	0.055479	0.060304	0.065529	0.071603	0.078414
98.00	0.056793	0.058044	0.059355	0.061274	0.064549	0.067525	0.074621	0.084899	0.097349
-2.00	0.063327	0.065498	0.067992	0.071642	0.077379	0.083925	0.092350	0.103970	0.121198
-102.00	0.069990	0.073136	0.076894	0.082211	0.090527	0.100836	0.115359	0.138270	0.171166
-202.00	0.072049	0.075473	0.079636	0.085723	0.095223	0.107719	0.125958	0.154724	0.197679
-302.00	0.070356	0.073524	0.077339	0.082862	0.091801	0.103681	0.120799	0.145955	0.182950
-402.00	0.068714	0.071593	0.075022	0.079588	0.086731	0.097541	0.113046	0.136740	0.170590
-502.00	0.067167	0.069763	0.072690	0.076235	0.083006	0.093843	0.107965	0.126838	0.148499
-602.00	0.065320	0.067480	0.070557	0.074554	0.080267	0.088908	0.101052	0.113380	0.115338
-702.00	0.063711	0.066022	0.068903	0.072581	0.077419	0.084022	0.091420	0.093222	0.092038
-802.00	0.062295	0.064466	0.067123	0.070448	0.074642	0.078418	0.078205	0.077295	0.074617
-902.00	0.060854	0.062880	0.065315	0.068294	0.070533	0.069616	0.068177	0.065984	0.062728
-1002.00	0.059421	0.061307	0.063538	0.064920	0.063846	0.062342	0.060298	0.057676	0.055641
-1102.00	0.058015	0.059771	0.060645	0.059558	0.058129	0.056312	0.054060	0.051386	0.052519
-1202.00	0.056648	0.057212	0.056187	0.054876	0.053254	0.051299	0.048997	0.046619	0.050248

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00	489.00	589.00	689.00	789.00
998.00	0.041145	0.045760	0.050390	0.046729	0.040567	0.034540	0.028838	0.024088	0.023137
898.00	0.042387	0.047663	0.052972	0.048930	0.041896	0.035054	0.028655	0.024840	0.024257
798.00	0.043734	0.049873	0.056070	0.051563	0.043404	0.035558	0.028600	0.026269	0.025532
698.00	0.045822	0.053361	0.060852	0.055733	0.045850	0.036213	0.028967	0.027906	0.026989
598.00	0.049066	0.058756	0.068479	0.062297	0.049918	0.037599	0.031955	0.030080	0.028636
498.00	0.051979	0.064863	0.077977	0.070309	0.054258	0.039807	0.036406	0.033333	0.030692
398.00	0.055349	0.072734	0.091571	0.081502	0.059330	0.045389	0.041387	0.037366	0.033661
298.00	0.067339	0.083924	0.113528	0.098718	0.065951	0.054025	0.047501	0.042037	0.039795
198.00	0.085329	0.096217	0.146822	0.122448	0.076820	0.065828	0.055792	0.051581	0.046997
98.00	0.109912	0.122434	0.195965	0.151067	0.100090	0.082288	0.073626	0.063799	0.056215
-2.00	0.146414	0.163760	0.242513	0.160768	0.136656	0.119752	0.097853	0.083552	0.072973
-102.00	0.213753	0.241390	0.185325	0.227877	0.229781	0.185378	0.140551	0.110537	0.091572
-202.00	0.258720	0.319068	0.330580	0.234305	0.254772	0.198746	0.147783	0.114768	0.094336
-302.00	0.242199	0.296408	0.220425	0.474357	0.154850	0.141794	0.117415	0.097538	0.083482
-402.00	0.209392	0.202740	0.196685	0.266441	0.186667	0.096739	0.089369	0.079623	0.071710
-502.00	0.150954	0.143811	0.152800	0.183443	0.184554	0.110847	0.069272	0.066299	0.062655
-602.00	0.112277	0.113693	0.120815	0.139269	0.156470	0.117234	0.079029	0.056910	0.055035
-702.00	0.087287	0.093770	0.099375	0.111832	0.124453	0.115550	0.085844	0.063228	0.049914
-802.00	0.074290	0.080715	0.085548	0.094520	0.103637	0.109248	0.086642	0.068635	0.055225
-902.00	0.065796	0.071130	0.075580	0.082197	0.088886	0.093940	0.085800	0.070869	0.059388
-1002.00	0.060453	0.065177	0.069457	0.074361	0.079354	0.082900	0.082877	0.070795	0.061132
-1102.00	0.056858	0.061228	0.065322	0.068910	0.072231	0.074628	0.076074	0.069323	0.061187
-1202.00	0.054235	0.058250	0.062108	0.064694	0.066839	0.068340	0.069184	0.067047	0.060259

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 889.00	989.00	1089.00	1189.00	1289.00
998.00	0.022697	0.022285	0.021895	0.021522	0.021160
898.00	0.023719	0.023222	0.022760	0.022324	0.021865
798.00	0.024859	0.024248	0.023690	0.023101	0.023086
698.00	0.026131	0.025365	0.024575	0.024536	0.024451
598.00	0.027531	0.026428	0.026332	0.026173	0.025976
498.00	0.028894	0.028693	0.028386	0.028034	0.027670
398.00	0.032271	0.031416	0.030768	0.030131	0.029535
298.00	0.036792	0.034711	0.033429	0.032583	0.032058
198.00	0.042048	0.038954	0.037333	0.037487	0.037550
98.00	0.051256	0.047575	0.045657	0.044718	0.043973
-2.00	0.065343	0.058546	0.054634	0.052430	0.050740
-102.00	0.079334	0.069465	0.063749	0.060273	0.057588
-202.00	0.081428	0.071366	0.065296	0.061582	0.058698
-302.00	0.074040	0.066233	0.061645	0.058728	0.056389
-402.00	0.065574	0.061046	0.058227	0.056099	0.054248
-502.00	0.058493	0.055981	0.054791	0.053740	0.052339
-602.00	0.053236	0.052218	0.051519	0.050839	0.050154
-702.00	0.049619	0.049332	0.049015	0.048559	0.048102
-802.00	0.047244	0.047224	0.046985	0.046718	0.046396
-902.00	0.050887	0.045577	0.045444	0.045250	0.044991
-1002.00	0.053560	0.047855	0.044275	0.044081	0.043832
-1102.00	0.054675	0.049583	0.045672	0.043139	0.042864
-1202.00	0.054691	0.050216	0.046676	0.043924	0.042042

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -5311.00	-4811.00	-4311.00	-3811.00	-3311.00	-2811.00	-2311.00	-1811.00	-1311.00
5398.00	0.011770	0.011820	0.011836	0.011804	0.011725	0.011599	0.011420	0.012206	0.013921
4898.00	0.012512	0.012586	0.012641	0.012651	0.012611	0.012512	0.012346	0.012395	0.014362
4398.00	0.013330	0.013445	0.013533	0.013606	0.013623	0.013569	0.013430	0.013200	0.014773
3898.00	0.014219	0.014398	0.014554	0.014683	0.014783	0.014801	0.014714	0.014502	0.015111
3398.00	0.015191	0.015455	0.015699	0.015921	0.016119	0.016249	0.016252	0.016086	0.015718
2898.00	0.016242	0.016613	0.016975	0.017321	0.017650	0.017960	0.018104	0.018031	0.017673
2398.00	0.017361	0.017864	0.018374	0.018886	0.019395	0.019884	0.020371	0.020480	0.020200
1898.00	0.019279	0.019333	0.019875	0.020598	0.021347	0.022105	0.022857	0.023653	0.023549
1398.00	0.022124	0.022518	0.022837	0.023030	0.023454	0.024580	0.025750	0.026943	0.028144
898.00	0.025160	0.025974	0.026809	0.027639	0.028394	0.028914	0.029078	0.030904	0.032816
398.00	0.028294	0.029583	0.031023	0.032634	0.034421	0.036347	0.038306	0.040054	0.040795
-102.00	0.031413	0.033192	0.035264	0.037720	0.040663	0.044243	0.048640	0.054256	0.061379
-602.00	0.030577	0.032263	0.034222	0.036536	0.039311	0.042671	0.046806	0.052051	0.058596
-1102.00	0.029505	0.031043	0.032819	0.034901	0.037382	0.040338	0.044011	0.047897	0.052730
-1602.00	0.028416	0.029811	0.031408	0.033266	0.035351	0.037739	0.040512	0.043673	0.047508
-2102.00	0.027343	0.028605	0.029961	0.031522	0.033272	0.035245	0.037431	0.040016	0.038144
-2602.00	0.026264	0.027365	0.028571	0.029895	0.031353	0.032948	0.034741	0.033616	0.031242
-3102.00	0.025250	0.026214	0.027256	0.028383	0.029604	0.030929	0.030153	0.028639	0.026326
-3602.00	0.024278	0.025123	0.026027	0.026993	0.028028	0.027453	0.026382	0.024816	0.022731
-4102.00	0.023354	0.024098	0.024887	0.025723	0.025275	0.024483	0.023354	0.021862	0.021287
-4602.00	0.022477	0.023140	0.023833	0.023474	0.022865	0.022014	0.020900	0.019522	0.020794
-5102.00	0.021634	0.022241	0.021951	0.021469	0.020807	0.019947	0.018884	0.017927	0.020257
-5602.00	0.020837	0.020618	0.020248	0.019722	0.019042	0.018202	0.017207	0.017634	0.019709

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -811.00	-311.00	189.00	689.00	1189.00	1689.00	2189.00	2689.00	3189.00
5398.00	0.015729	0.017574	0.019387	0.016856	0.014217	0.011653	0.009244	0.007857	0.007707
4898.00	0.016470	0.018643	0.020786	0.017814	0.014720	0.011746	0.008998	0.008390	0.008202
4398.00	0.017257	0.019855	0.022432	0.018885	0.015205	0.011719	0.009214	0.008997	0.008758
3898.00	0.018071	0.021229	0.024397	0.020079	0.015629	0.011497	0.009972	0.009690	0.009385
3398.00	0.018847	0.022756	0.026739	0.021370	0.015891	0.011215	0.010857	0.010486	0.010092
2898.00	0.019492	0.024440	0.029606	0.022738	0.015852	0.012340	0.011895	0.011399	0.010890
2398.00	0.019856	0.026226	0.033183	0.024089	0.015270	0.013752	0.013121	0.012464	0.012322
1898.00	0.022720	0.027851	0.037640	0.025072	0.016262	0.015480	0.014627	0.014379	0.014088
1398.00	0.027392	0.028851	0.043383	0.025050	0.018796	0.017631	0.017294	0.016808	0.016123
898.00	0.034596	0.032982	0.052972	0.024840	0.022324	0.021641	0.020826	0.019853	0.020285
398.00	0.043302	0.051372	0.091571	0.037366	0.030131	0.029169	0.029992	0.029297	0.027968
-102.00	0.073136	0.115359	0.185325	0.110537	0.060273	0.050581	0.044752	0.040019	0.036090
-602.00	0.067480	0.101052	0.120815	0.056910	0.050839	0.046639	0.042027	0.037851	0.034345
-1102.00	0.059771	0.054060	0.065322	0.069323	0.043139	0.041258	0.038383	0.035131	0.032114
-1602.00	0.044111	0.039327	0.053894	0.052797	0.043273	0.037542	0.035016	0.032476	0.030006
-2102.00	0.033951	0.036791	0.047213	0.043424	0.038345	0.034675	0.032310	0.030212	0.028201
-2602.00	0.027821	0.034380	0.041960	0.038139	0.033539	0.031278	0.029631	0.028231	0.026567
-3102.00	0.026641	0.032149	0.037927	0.034504	0.030583	0.028112	0.027031	0.026039	0.025146
-3602.00	0.025697	0.030127	0.034667	0.031703	0.028385	0.025418	0.024731	0.024068	0.023434
-4102.00	0.024675	0.028319	0.031995	0.029447	0.026633	0.023905	0.022773	0.022326	0.021884
-4602.00	0.023694	0.026748	0.029798	0.027594	0.025183	0.022828	0.021123	0.020821	0.020512
-5102.00	0.022769	0.025373	0.027959	0.026038	0.023953	0.021904	0.019970	0.019524	0.019308
-5602.00	0.021907	0.024161	0.026390	0.024704	0.022885	0.021089	0.019375	0.018403	0.018251

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 3689.00	4189.00	4689.00	5189.00	5689.00
5398.00	0.007543	0.007369	0.007189	0.007001	0.006812
4898.00	0.007999	0.007787	0.007570	0.007352	0.007326
4398.00	0.008505	0.008245	0.007983	0.007954	0.007905
3898.00	0.009067	0.008746	0.008706	0.008642	0.008542
3398.00	0.009690	0.009632	0.009543	0.009408	0.009240
2898.00	0.010802	0.010673	0.010484	0.010254	0.010000
2398.00	0.012132	0.011855	0.011529	0.011176	0.010813
1898.00	0.013658	0.013173	0.012665	0.012323	0.012518
1398.00	0.015358	0.015307	0.015477	0.015431	0.015252
898.00	0.020318	0.019946	0.019412	0.018801	0.018165
398.00	0.026483	0.024969	0.023580	0.022313	0.021165
-102.00	0.032834	0.030059	0.027759	0.025812	0.024142
-602.00	0.031393	0.028876	0.026776	0.024987	0.023446
-1102.00	0.029576	0.027404	0.025566	0.023986	0.022610
-1602.00	0.027753	0.025906	0.024328	0.022956	0.021748
-2102.00	0.026334	0.024668	0.023192	0.021936	0.020887
-2602.00	0.025034	0.023621	0.022341	0.021191	0.020158
-3102.00	0.023863	0.022661	0.021551	0.020534	0.019608
-3602.00	0.022818	0.021789	0.020822	0.019921	0.019089
-4102.00	0.021444	0.021001	0.020153	0.019352	0.018602
-4602.00	0.020196	0.019873	0.019539	0.018823	0.018140
-5102.00	0.019081	0.018843	0.018594	0.018326	0.017684
-5602.00	0.018088	0.017912	0.017724	0.017496	0.017248

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2401 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.070661	AT (	289.00,	-102.00)	GC	6.	0.033644	AT (	189.00,	-202.00)	GC
2.	0.055440	AT (	89.00,	-102.00)	GC	7.	0.030660	AT (	-11.00,	-102.00)	GC
3.	0.050984	AT (	89.00,	-202.00)	GC	8.	0.029350	AT (	-11.00,	-202.00)	GC
4.	0.046098	AT (	189.00,	-2.00)	GC	9.	0.028617	AT (	189.00,	98.00)	GC
5.	0.040036	AT (	389.00,	-102.00)	GC	10.	0.026999	AT (	489.00,	-102.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN01 ***

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.461877	AT (	289.00,	-302.00)	GC	6.	0.231988	AT (	389.00,	-202.00)	GC
2.	0.296936	AT (	189.00,	-202.00)	GC	7.	0.229370	AT (	-11.00,	-202.00)	GC
3.	0.275143	AT (	89.00,	-302.00)	GC	8.	0.218589	AT (	-11.00,	-302.00)	GC
4.	0.268084	AT (	89.00,	-202.00)	GC	9.	0.208833	AT (	289.00,	-202.00)	GC
5.	0.256943	AT (	289.00,	-402.00)	GC	10.	0.199918	AT (	189.00,	-302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.474357	AT (	289.00,	-302.00)	GC	6.	0.258720	AT (	-11.00,	-202.00)	GC
2.	0.330580	AT (	189.00,	-202.00)	GC	7.	0.254772	AT (	389.00,	-202.00)	GC
3.	0.319068	AT (	89.00,	-202.00)	GC	8.	0.242513	AT (	189.00,	-2.00)	GC
4.	0.296408	AT (	89.00,	-302.00)	GC	9.	0.242199	AT (	-11.00,	-302.00)	GC
5.	0.266441	AT (	289.00,	-402.00)	GC	10.	0.241390	AT (	89.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2401 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.012480	AT (	289.00,	-302.00)	GC	6.	0.029350	AT (	-11.00,	-202.00)	GC
2.	0.033644	AT (	189.00,	-202.00)	GC	7.	0.022784	AT (	389.00,	-202.00)	GC
3.	0.050984	AT (	89.00,	-202.00)	GC	8.	0.046098	AT (	189.00,	-2.00)	GC
4.	0.021265	AT (	89.00,	-302.00)	GC	9.	0.023610	AT (	-11.00,	-302.00)	GC
5.	0.009499	AT (	289.00,	-402.00)	GC	10.	0.055440	AT (	89.00,	-102.00)	GC

*** SOURCE GEN01 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.461877	AT (	289.00,	-302.00)	GC	6.	0.229370	AT (	-11.00,	-202.00)	GC
2.	0.296936	AT (	189.00,	-202.00)	GC	7.	0.231988	AT (	389.00,	-202.00)	GC
3.	0.268084	AT (	89.00,	-202.00)	GC	8.	0.196415	AT (	189.00,	-2.00)	GC
4.	0.275143	AT (	89.00,	-302.00)	GC	9.	0.218589	AT (	-11.00,	-302.00)	GC
5.	0.256943	AT (	289.00,	-402.00)	GC	10.	0.185950	AT (	89.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ISCLT3 NO_X 1992

```
** The results for this run are in file 24LT92A.OUT

CO STARTING
   TITLEONE  FGT CS 24 Turbine 2401 & Emergency Generator 1 1992 Met ISCLT NOx
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2401  POINT   189.02    -102.44

** Parameters     QS     HS     TS      VS       DS
**               -----  ----  -----   -----    ---
SO SRCPARAM 2401  1.109 17.68 718.1   13.85    2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58
SO BUILDWID 2401       13.72   21.65   26.29   26.93   24.69   27.36
SO BUILDWID 2401       25.86   20.43   13.72   21.65   26.29   26.93
SO BUILDWID 2401       24.69   27.36   25.86   20.43

SO LOCATION GEN01  POINT     224.09    -158.54

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.063  6.10  830.93  47.89    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26   11.58    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.15   17.14   15.52   11.53    7.01   12.19
SO BUILDWID GEN01      15.52   20.43   16.15   17.14   15.52   11.53
SO BUILDWID GEN01       7.01   12.19   15.52   16.48

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -911 23 100 -1202 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5311 23 500 -5602 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  GAINS92.STA
   ANEMHGHT  10.
   SURFDATA  12816  1992  GAINESVILLE
   UAIRDATA  12842  1992  TAMPA
   STARDATA  ANNUAL

**                - AMBIENT AIR TEMPERATURE (DEGREES KELVIN) -
**
**                   STAB    STAB    STAB    STAB    STAB    STAB
**                   CAT 1   CAT 2   CAT 3   CAT 4   CAT 5   CAT 6
**                   -----   -----   -----   -----   -----   -----

   AVETEMPS  ANNUAL   299.8   299.8   299.8   293.5   287.2   287.2


**                        - MIXING LAYER HEIGHT (METERS) -
**                  S
**                  T    WS       WS       WS       WS       WS       WS
**            SEAS  A   CAT 1    CAT 2    CAT 3    CAT 4    CAT 5    CAT 6
**            ----  B   -----    -----    -----    -----    -----    -----

   AVEMIXHT  ANNUAL 1 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04 .210E+04
   AVEMIXHT  ANNUAL 2 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 3 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 4 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04 .140E+04
   AVEMIXHT  ANNUAL 5 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05
   AVEMIXHT  ANNUAL 6 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05 .100E+05

ME FINISHED

OU STARTING
   RECTABLE  SRCGRP
   MAXTABLE  10 INDSRC SRCGRP SOCONT
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
************************************
```

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses NO plume DEPLETION.

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Default Wind Profile Exponents.
5. Default Vertical Potential Temperature Gradients.
6. "Upper Bound" Values For Supersquat Buildings.
7. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 STAR Average(s) for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**Data File Includes 1 STAR Summaries for the Following Months: 0 0 0 0 0 0 0 0 0 0 0 0
Seasons/Quarters: 0 0 0 0
and Annual: 1

**This Run Includes: 2 Source(s); 1 Source Group(s); and 1058 Receptor(s)

**The Model Assumes A Pollutant Type of: NOX

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Long Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Maximum Long Term Values (MAXTABLE Keyword)

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: 24LT92a.IN ; **Output Print File: 24LT92a.OUT

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.11090E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.63000E-01	224.1	-158.5	0.0	6.10	830.93	47.89	0.20	YES	

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1992 Met ISCLT NOx *** 12/20/99
*** Building height = 38' *** 12:20:44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	13.7,	0	2	11.6,	21.6,	0	3	11.6,	26.3,	0	4	11.6,	26.9,	0
5	11.6,	24.7,	0	6	11.6,	27.4,	0	7	11.6,	25.9,	0	8	11.6,	20.4,	0
9	11.6,	13.7,	0	10	11.6,	21.6,	0	11	11.6,	26.3,	0	12	11.6,	26.9,	0
13	11.6,	24.7,	0	14	11.6,	27.4,	0	15	11.6,	25.9,	0	16	11.6,	20.4,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.1,	0	2	5.3,	17.1,	0	3	5.3,	15.5,	0	4	5.3,	11.5,	0
5	5.3,	7.0,	0	6	5.3,	12.2,	0	7	5.3,	15.5,	0	8	11.6,	20.4,	0
9	5.3,	16.1,	0	10	5.3,	17.1,	0	11	5.3,	15.5,	0	12	5.3,	11.5,	0
13	5.3,	7.0,	0	14	5.3,	12.2,	0	15	5.3,	15.5,	0	16	5.3,	16.5,	0

*** ISCLT3 - VERSION 96113 *** *** FGT CS 24 Turbine 2401 & Emergency Generator 1 1992 Met ISCLT NOx *** 12/20/99
*** Building height = 38' *** 12:20:44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0, -11.0,
89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0, 989.0,
1089.0, 1189.0, 1289.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0, -302.0,
-202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0, 698.0,
798.0, 898.0, 998.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-5311.0, -4811.0, -4311.0, -3811.0, -3311.0, -2811.0, -2311.0, -1811.0, -1311.0, -811.0,
-311.0, 189.0, 689.0, 1189.0, 1689.0, 2189.0, 2689.0, 3189.0, 3689.0, 4189.0,
4689.0, 5189.0, 5689.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-5602.0, -5102.0, -4602.0, -4102.0, -3602.0, -3102.0, -2602.0, -2102.0, -1602.0, -1102.0,
-602.0, -102.0, 398.0, 898.0, 1398.0, 1898.0, 2398.0, 2898.0, 3398.0, 3898.0,
4398.0, 4898.0, 5398.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44
2401	189.0	-102.0	0.44

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE SPEED FOR EACH WIND SPEED CATEGORY ***
(METERS/SEC)

1.50, 2.50, 4.30, 6.80, 9.50, 12.50,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** AVERAGE AMBIENT AIR TEMPERATURE (KELVIN) ***

	STABILITY CATEGORY A	STABILITY CATEGORY B	STABILITY CATEGORY C	STABILITY CATEGORY D	STABILITY CATEGORY E	STABILITY CATEGORY F
ANNUAL	299.8000	299.8000	299.8000	293.5000	287.2000	287.2000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** AVERAGE MIXING LAYER HEIGHT (METERS) ***

ANNUAL

	WIND SPEED CATEGORY 1	WIND SPEED CATEGORY 2	WIND SPEED CATEGORY 3	WIND SPEED CATEGORY 4	WIND SPEED CATEGORY 5	WIND SPEED CATEGORY 6
STABILITY CATEGORY A	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000	2100.0000
STABILITY CATEGORY B	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY C	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY D	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000	1400.0000
STABILITY CATEGORY E	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000
STABILITY CATEGORY F	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000	10000.0000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY A

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00021100	0.00057000	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00016900	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00012700	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00025400	0.00068400	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00045200	0.00079700	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00032500	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00029600	0.00079700	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00021100	0.00057000	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00025400	0.00068400	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00016900	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00012700	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00012700	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00016900	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00033800	0.00091100	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00025400	0.00068400	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00016900	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY B

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00054700	0.00239100	0.00182200	0.00000000	0.00000000	0.00000000
22.500	0.00100200	0.00193600	0.00125300	0.00000000	0.00000000	0.00000000
45.000	0.00044300	0.00193600	0.00091100	0.00000000	0.00000000	0.00000000
67.500	0.00026100	0.00113900	0.00079700	0.00000000	0.00000000	0.00000000
90.000	0.00071200	0.00250500	0.00170800	0.00000000	0.00000000	0.00000000
112.500	0.00105400	0.00216400	0.00170800	0.00000000	0.00000000	0.00000000
135.000	0.00056600	0.00125300	0.00284700	0.00000000	0.00000000	0.00000000
157.500	0.00049500	0.00216400	0.00216400	0.00000000	0.00000000	0.00000000
180.000	0.00090400	0.00273300	0.00159400	0.00000000	0.00000000	0.00000000
202.500	0.00047800	0.00148100	0.00079700	0.00000000	0.00000000	0.00000000

225.000	0.00061800	0.00148100	0.00148100	0.00000000	0.00000000	0.00000000
247.500	0.00039100	0.00170800	0.00125300	0.00000000	0.00000000	0.00000000
270.000	0.00136000	0.00227800	0.00205000	0.00000000	0.00000000	0.00000000
292.500	0.00077400	0.00216400	0.00284700	0.00000000	0.00000000	0.00000000
315.000	0.00033900	0.00148100	0.00170800	0.00000000	0.00000000	0.00000000
337.500	0.00031300	0.00136700	0.00068400	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY C

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00050000	0.00307500	0.00489600	0.00034200	0.00000000	0.00000000
22.500	0.00037000	0.00227800	0.00489600	0.00034200	0.00000000	0.00000000
45.000	0.00029600	0.00182200	0.00523800	0.00091100	0.00000000	0.00000000
67.500	0.00038900	0.00239100	0.00512400	0.00068400	0.00000000	0.00000000
90.000	0.00046300	0.00284700	0.00603500	0.00159400	0.00000000	0.00000000
112.500	0.00031500	0.00193600	0.00398500	0.00034200	0.00000000	0.00000000
135.000	0.00037000	0.00227800	0.00489600	0.00079700	0.00000000	0.00000000
157.500	0.00052100	0.00239100	0.00387200	0.00034200	0.00000000	0.00000000
180.000	0.00070900	0.00273300	0.00478200	0.00102500	0.00000000	0.00000000
202.500	0.00016700	0.00102500	0.00250500	0.00022800	0.00000000	0.00000000
225.000	0.00027800	0.00170800	0.00341600	0.00034200	0.00000000	0.00000000
247.500	0.00020400	0.00125300	0.00455500	0.00148100	0.00000000	0.00000000
270.000	0.00044700	0.00193600	0.00842600	0.00284700	0.00000000	0.00000000
292.500	0.00048100	0.00296100	0.00831200	0.00148100	0.00000000	0.00000000
315.000	0.00025900	0.00159400	0.00569300	0.00113900	0.00000000	0.00000000
337.500	0.00050300	0.00227800	0.00432700	0.00068400	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY D

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00156900	0.00831200	0.01707900	0.00250500	0.00000000	0.00000000
22.500	0.00082600	0.00478200	0.01981100	0.00421300	0.00011400	0.00000000
45.000	0.00142300	0.00592100	0.02618700	0.01081700	0.00011400	0.00011400
67.500	0.00148200	0.00626300	0.00910900	0.00808400	0.00034200	0.00000000
90.000	0.00138800	0.00649000	0.01389100	0.00728700	0.00011400	0.00000000
112.500	0.00113300	0.00501000	0.00751500	0.00353000	0.00000000	0.00000000
135.000	0.00084200	0.00409900	0.00865400	0.00409900	0.00011400	0.00000000
157.500	0.00089300	0.00284700	0.00626300	0.00398500	0.00022800	0.00000000
180.000	0.00086600	0.00501000	0.01286600	0.00569300	0.00022800	0.00000000
202.500	0.00056700	0.00250500	0.00671800	0.00444100	0.00011400	0.00000000

225.000	0.00064900	0.00375800	0.00717300	0.00535200	0.00057000	0.00011400
247.500	0.00068000	0.00239100	0.01013400	0.01332200	0.00022800	0.00000000
270.000	0.00109300	0.00478200	0.01651000	0.01662400	0.00216400	0.00011400
292.500	0.00068900	0.00398500	0.00831200	0.00671800	0.00045600	0.00000000
315.000	0.00072800	0.00421300	0.00865400	0.00660400	0.00000000	0.00000000
337.500	0.00066500	0.00307500	0.00728700	0.00296100	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** FREQUENCY OF OCCURRENCE OF WIND SPEED, DIRECTION AND STABILITY ***

FILE: GAINS92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1992 YEAR: 1992

ANNUAL: STABILITY CATEGORY E

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.00000000	0.00717300	0.00409900	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00489600	0.00523800	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00649000	0.00409900	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.00569300	0.00421300	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01013400	0.00318800	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00466900	0.00307500	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00535200	0.00091100	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00512400	0.00045600	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00671800	0.00125300	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00193600	0.00159400	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00159400	0.00136700	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00273300	0.00512400	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00375800	0.01514300	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00592100	0.00819800	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00375800	0.00444100	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00501000	0.00239100	0.00000000	0.00000000	0.00000000

ANNUAL: STABILITY CATEGORY F

DIRECTION (DEGREES)	WIND SPEED CATEGORY 1 (1.500 M/S)	WIND SPEED CATEGORY 2 (2.500 M/S)	WIND SPEED CATEGORY 3 (4.300 M/S)	WIND SPEED CATEGORY 4 (6.800 M/S)	WIND SPEED CATEGORY 5 (9.500 M/S)	WIND SPEED CATEGORY 6 (12.500 M/S)
0.000	0.01391200	0.01218300	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00746500	0.00717300	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00831400	0.00717300	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00752800	0.00626300	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.01238600	0.00967800	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00760600	0.00512400	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00587200	0.00409900	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00373100	0.00284700	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00512200	0.00421300	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00253600	0.00170800	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00276800	0.00296100	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00371500	0.00307500	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.01273700	0.01229700	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.01453700	0.01389100	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.01546400	0.01275200	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.01283000	0.01093100	0.00000000	0.00000000	0.00000000	0.00000000

SUM OF FREQUENCIES, FTOTAL = 1.00014

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT -

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -911.00	-811.00	-711.00	-611.00	-511.00	-411.00	-311.00	-211.00	-111.00
998.00	0.031833	0.031796	0.031680	0.031481	0.031197	0.030831	0.030393	0.031380	0.034336
898.00	0.032551	0.033433	0.033372	0.033217	0.032961	0.032604	0.032151	0.031761	0.035144
798.00	0.033235	0.034227	0.035280	0.035202	0.035010	0.034696	0.034258	0.033699	0.035954
698.00	0.033936	0.034979	0.036183	0.037478	0.037404	0.037185	0.036802	0.036240	0.036799
598.00	0.034658	0.035757	0.037041	0.038555	0.040200	0.040129	0.040046	0.040194	0.039843
498.00	0.035401	0.036564	0.037940	0.039583	0.041527	0.043804	0.044979	0.046013	0.046086
398.00	0.036165	0.037401	0.038881	0.040652	0.042972	0.046698	0.051360	0.053039	0.054087
298.00	0.037838	0.038402	0.039857	0.041814	0.044931	0.049668	0.055365	0.062146	0.065287
198.00	0.042555	0.042759	0.042866	0.043445	0.046667	0.052115	0.059120	0.068768	0.081236
98.00	0.047720	0.048562	0.049415	0.050939	0.053609	0.056009	0.062710	0.074913	0.092884
-2.00	0.053197	0.054787	0.056580	0.059644	0.064655	0.070492	0.078094	0.087891	0.103163
-102.00	0.058801	0.061190	0.063999	0.068531	0.075998	0.085473	0.099201	0.120460	0.151038
-202.00	0.058703	0.061247	0.064318	0.069253	0.077148	0.087316	0.102171	0.125368	0.160130
-302.00	0.054996	0.057120	0.059658	0.063654	0.070221	0.078257	0.089112	0.105676	0.131385
-402.00	0.051357	0.053051	0.055063	0.057883	0.062472	0.069589	0.082640	0.108828	0.152251
-502.00	0.047902	0.049210	0.051003	0.053200	0.060661	0.072861	0.089568	0.114415	0.146253
-602.00	0.045042	0.047053	0.051087	0.056331	0.063723	0.074786	0.091080	0.109350	0.114780
-702.00	0.045814	0.049168	0.053366	0.058695	0.065630	0.075073	0.086529	0.091087	0.092916
-802.00	0.047419	0.050854	0.055056	0.060261	0.066736	0.073292	0.075100	0.076681	0.076784
-902.00	0.048730	0.052158	0.056260	0.061203	0.065651	0.066363	0.066863	0.066914	0.066051
-1002.00	0.049768	0.053128	0.057063	0.060260	0.060621	0.060792	0.060644	0.060138	0.059667
-1102.00	0.050561	0.053810	0.056205	0.056376	0.056405	0.056249	0.055842	0.055093	0.056269
-1202.00	0.051136	0.052995	0.053072	0.053037	0.052865	0.052528	0.051988	0.051185	0.053682

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00	489.00	589.00	689.00	789.00
998.00	0.037528	0.040870	0.044251	0.041285	0.036172	0.031170	0.026442	0.022603	0.022594
898.00	0.038850	0.042766	0.046740	0.043437	0.037540	0.031799	0.026428	0.023665	0.024155
798.00	0.040285	0.044974	0.049748	0.046037	0.039125	0.032451	0.026612	0.025588	0.026045
698.00	0.042512	0.048501	0.054396	0.050086	0.041590	0.033305	0.027404	0.027962	0.028354
598.00	0.046038	0.053921	0.061701	0.056302	0.045418	0.034732	0.031125	0.031205	0.031183
498.00	0.049577	0.060287	0.070916	0.063937	0.049513	0.037038	0.036776	0.035939	0.034872
398.00	0.054057	0.068657	0.084030	0.074444	0.054182	0.043934	0.043915	0.042489	0.040482
298.00	0.067154	0.080244	0.104202	0.089707	0.060645	0.055398	0.053669	0.051146	0.049531
198.00	0.086969	0.093989	0.134231	0.110069	0.073484	0.072544	0.068268	0.064918	0.060202
98.00	0.116921	0.124942	0.178114	0.135059	0.104726	0.099743	0.093112	0.082574	0.073350
-2.00	0.136117	0.184418	0.221554	0.152914	0.162842	0.153349	0.127688	0.111142	0.097747
-102.00	0.190772	0.207177	0.207978	0.300422	0.321021	0.251556	0.191533	0.151953	0.125509
-202.00	0.211830	0.274519	0.368581	0.307766	0.318177	0.253406	0.192812	0.152956	0.126595
-302.00	0.208401	0.315185	0.236024	0.471233	0.193888	0.164697	0.135195	0.118291	0.104508
-402.00	0.212093	0.211931	0.205518	0.269176	0.203193	0.120699	0.106621	0.093642	0.084173
-502.00	0.153495	0.150297	0.158464	0.187481	0.189735	0.124947	0.084931	0.078907	0.073713
-602.00	0.115729	0.118674	0.124871	0.142791	0.159230	0.124519	0.089187	0.067115	0.063944
-702.00	0.091542	0.097718	0.102403	0.114570	0.127043	0.119624	0.092177	0.070189	0.056590
-802.00	0.078238	0.083769	0.087603	0.096450	0.105913	0.111865	0.090861	0.073527	0.060308
-902.00	0.069089	0.073367	0.076729	0.083357	0.090648	0.096339	0.089017	0.074739	0.063532
-1002.00	0.063263	0.066759	0.069871	0.074887	0.080671	0.085051	0.085803	0.074197	0.064767
-1102.00	0.059336	0.062419	0.065286	0.069055	0.073254	0.076539	0.078836	0.072508	0.064549
-1202.00	0.056409	0.059157	0.061796	0.064611	0.067630	0.070009	0.071698	0.070136	0.063463

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 889.00	989.00	1089.00	1189.00	1289.00
998.00	0.022997	0.023317	0.023556	0.023718	0.023810
898.00	0.024535	0.024812	0.024996	0.025096	0.025241
798.00	0.026358	0.026549	0.026637	0.026742	0.027237
698.00	0.028530	0.028567	0.028588	0.029104	0.029494
598.00	0.031117	0.030980	0.031476	0.031813	0.032029
498.00	0.034248	0.034652	0.034850	0.034896	0.034852
398.00	0.039525	0.039038	0.038737	0.038355	0.037950
298.00	0.046357	0.044239	0.043004	0.042220	0.041596
198.00	0.054335	0.050450	0.048373	0.048908	0.049241
98.00	0.067229	0.062398	0.060005	0.059005	0.058232
-2.00	0.087442	0.077920	0.072587	0.069776	0.067718
-102.00	0.107813	0.093473	0.085412	0.080775	0.077330
-202.00	0.109004	0.094944	0.086569	0.081673	0.078016
-302.00	0.093993	0.084492	0.078921	0.075563	0.072943
-402.00	0.078483	0.074281	0.071771	0.069852	0.068173
-502.00	0.068629	0.065842	0.065113	0.064728	0.063856
-602.00	0.061570	0.060641	0.060275	0.059972	0.059669
-702.00	0.056251	0.056258	0.056377	0.056393	0.056392
-802.00	0.052349	0.052749	0.053032	0.053297	0.053491
-902.00	0.055098	0.049866	0.050285	0.050662	0.050961
-1002.00	0.057286	0.051568	0.048044	0.048436	0.048767
-1102.00	0.058102	0.053001	0.049039	0.046556	0.046865
-1202.00	0.057932	0.053444	0.049859	0.047042	0.045210

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -5311.00	-4811.00	-4311.00	-3811.00	-3311.00	-2811.00	-2311.00	-1811.00	-1311.00
5398.00	0.011198	0.011285	0.011340	0.011350	0.011316	0.011237	0.011109	0.011710	0.013009
4898.00	0.011661	0.012004	0.012097	0.012148	0.012152	0.012101	0.011990	0.012032	0.013511
4398.00	0.012148	0.012530	0.012934	0.013045	0.013104	0.013099	0.013020	0.012860	0.014032
3898.00	0.012655	0.013088	0.013554	0.014053	0.014192	0.014258	0.014233	0.014103	0.014563
3398.00	0.013185	0.013680	0.014218	0.014802	0.015435	0.015609	0.015677	0.015605	0.015374
2898.00	0.013736	0.014303	0.014926	0.015611	0.016363	0.017189	0.017397	0.017429	0.017244
2398.00	0.014303	0.014950	0.015671	0.016475	0.017372	0.018365	0.019469	0.019698	0.019641
1898.00	0.015737	0.015816	0.016442	0.017383	0.018451	0.019660	0.021011	0.022594	0.022741
1398.00	0.018098	0.018481	0.018816	0.019059	0.019573	0.021038	0.022712	0.024617	0.026902
898.00	0.020611	0.021363	0.022151	0.022957	0.023732	0.024351	0.024677	0.026845	0.029609
398.00	0.023197	0.024359	0.025670	0.027152	0.028809	0.030629	0.032502	0.034154	0.034740
-102.00	0.025761	0.027341	0.029189	0.031387	0.034013	0.037224	0.041167	0.046097	0.052059
-602.00	0.024149	0.025476	0.026998	0.028758	0.030796	0.033154	0.035846	0.038832	0.041844
-1102.00	0.022339	0.023376	0.024524	0.025794	0.027186	0.028634	0.030113	0.033766	0.041038
-1602.00	0.020555	0.021327	0.022142	0.022989	0.024045	0.026943	0.030835	0.036032	0.043409
-2102.00	0.018854	0.019399	0.020566	0.022587	0.025056	0.028139	0.031999	0.037110	0.037521
-2602.00	0.018117	0.019590	0.021324	0.023386	0.025864	0.028861	0.032549	0.032908	0.032676
-3102.00	0.018677	0.020176	0.021921	0.023964	0.026370	0.029210	0.029490	0.029404	0.028986
-3602.00	0.019131	0.020627	0.022345	0.024324	0.026606	0.026843	0.026807	0.026564	0.026112
-4102.00	0.019474	0.020941	0.022605	0.024489	0.024698	0.024708	0.024569	0.024274	0.024411
-4602.00	0.019706	0.021129	0.022718	0.022910	0.022953	0.022883	0.022691	0.022383	0.023346
-5102.00	0.019824	0.021200	0.021384	0.021450	0.021429	0.021312	0.021098	0.020919	0.022373
-5602.00	0.019850	0.020041	0.020139	0.020155	0.020092	0.019950	0.019730	0.020195	0.021486

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

***. NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -811.00	-311.00	189.00	689.00	1189.00	1689.00	2189.00	2689.00	3189.00
5398.00	0.014367	0.015741	0.017080	0.015093	0.013021	0.011005	0.009109	0.008091	0.008137
4898.00	0.015079	0.016680	0.018244	0.015918	0.013497	0.011166	0.009011	0.008714	0.008750
4398.00	0.015861	0.017752	0.019607	0.016841	0.013971	0.011250	0.009358	0.009449	0.009464
3898.00	0.016717	0.018984	0.021228	0.017875	0.014416	0.011204	0.010247	0.010325	0.010304
3398.00	0.017620	0.020385	0.023160	0.019010	0.014773	0.011166	0.011338	0.011383	0.011300
2898.00	0.018559	0.022007	0.025540	0.020241	0.014926	0.012513	0.012705	0.012673	0.012487
2398.00	0.019496	0.023869	0.028556	0.021524	0.014709	0.014300	0.014427	0.014273	0.014752
1898.00	0.022349	0.025862	0.032405	0.022597	0.016122	0.016682	0.016699	0.017311	0.017593
1398.00	0.026692	0.027707	0.037591	0.022966	0.019500	0.019982	0.020958	0.021224	0.020939
898.00	0.033433	0.032151	0.046740	0.023665	0.025096	0.026541	0.026721	0.026123	0.026963
398.00	0.037401	0.051360	0.084030	0.042489	0.038355	0.038152	0.039800	0.039198	0.037608
-102.00	0.061190	0.099201	0.207978	0.151953	0.080775	0.068337	0.060518	0.054170	0.048919
-602.00	0.047053	0.091080	0.124871	0.067115	0.059972	0.057768	0.053553	0.049066	0.045027
-1102.00	0.053810	0.055842	0.065286	0.072508	0.046556	0.047238	0.045885	0.043332	0.040497
-1602.00	0.044010	0.043621	0.053026	0.054929	0.046012	0.040144	0.039456	0.038103	0.036324
-2102.00	0.036830	0.039573	0.046190	0.044538	0.040768	0.036946	0.034525	0.033722	0.032636
-2602.00	0.031997	0.036147	0.040865	0.038606	0.035485	0.033264	0.031550	0.030133	0.029444
-3102.00	0.029835	0.033256	0.036791	0.034563	0.031802	0.029800	0.028705	0.027705	0.026825
-3602.00	0.028098	0.030805	0.033541	0.031503	0.029100	0.026843	0.026168	0.025528	0.024916
-4102.00	0.026509	0.028724	0.030927	0.029105	0.027019	0.024922	0.023994	0.023591	0.023188
-4602.00	0.025129	0.026977	0.028798	0.027172	0.025345	0.023510	0.022152	0.021905	0.021649
-5102.00	0.023913	0.025487	0.027030	0.025575	0.023964	0.022347	0.020788	0.020446	0.020290
-5602.00	0.022834	0.024198	0.025531	0.024225	0.022796	0.021360	0.019966	0.019184	0.019096

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 500MGRID ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 3689.00	4189.00	4689.00	5189.00	5689.00
5398.00	0.008141	0.008106	0.008038	0.007938	0.007818
4898.00	0.008732	0.008668	0.008568	0.008438	0.008616
4398.00	0.009413	0.009308	0.009162	0.009380	0.009527
3898.00	0.010202	0.010037	0.010298	0.010468	0.010546
3398.00	0.011119	0.011434	0.011629	0.011703	0.011682
2898.00	0.012874	0.013095	0.013153	0.013087	0.012933
2398.00	0.015002	0.015018	0.014872	0.014617	0.014293
1898.00	0.017494	0.017197	0.016770	0.016440	0.016770
1398.00	0.020324	0.020402	0.020741	0.020766	0.020592
898.00	0.027209	0.026813	0.026202	0.025461	0.024668
398.00	0.035753	0.033774	0.031996	0.030362	0.028871
-102.00	0.044588	0.040848	0.037820	0.035252	0.033044
-602.00	0.041502	0.038367	0.035770	0.033532	0.031584
-1102.00	0.037885	0.035451	0.033370	0.031530	0.029894
-1602.00	0.034397	0.032631	0.031014	0.029543	0.028203
-2102.00	0.031345	0.030061	0.028812	0.027643	0.026567
-2602.00	0.028642	0.027752	0.026836	0.025928	0.025048
-3102.00	0.026311	0.025705	0.025043	0.024356	0.023667
-3602.00	0.024329	0.023917	0.023442	0.022927	0.022391
-4102.00	0.022780	0.022370	0.022028	0.021643	0.021227
-4602.00	0.021377	0.021088	0.020786	0.020495	0.020167
-5102.00	0.020116	0.019921	0.019705	0.019467	0.019185
-5602.00	0.018990	0.018863	0.018714	0.018516	0.018294

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2401 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.113997	AT (	289.00,	-102.00)	GC	6.	0.040327	AT (	189.00,	-2.00)	GC
2.	0.063612	AT (	389.00,	-102.00)	GC	7.	0.038671	AT (	289.00,	-202.00)	GC
3.	0.061103	AT (	89.00,	-202.00)	GC	8.	0.036023	AT (	189.00,	-202.00)	GC
4.	0.050120	AT (	89.00,	-102.00)	GC	9.	0.032773	AT (	589.00,	-102.00)	GC
5.	0.042071	AT (	489.00,	-102.00)	GC	10.	0.031323	AT (	-11.00,	-102.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN01 ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.454804	AT (	289.00,	-302.00)	GC	6.	0.257409	AT (	389.00,	-102.00)	GC
2.	0.332558	AT (	189.00,	-202.00)	GC	7.	0.257309	AT (	289.00,	-402.00)	GC
3.	0.290253	AT (	89.00,	-302.00)	GC	8.	0.226003	AT (	489.00,	-202.00)	GC
4.	0.287580	AT (	389.00,	-202.00)	GC	9.	0.213671	AT (	189.00,	-302.00)	GC
5.	0.269095	AT (	289.00,	-202.00)	GC	10.	0.213416	AT (	89.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.471233	AT (	289.00, -302.00)	GC	6.	0.307766	AT (	289.00, -202.00)	GC
2.	0.368581	AT (	189.00, -202.00)	GC	7.	0.300422	AT (	289.00, -102.00)	GC
3.	0.321021	AT (	389.00, -102.00)	GC	8.	0.274519	AT (	89.00, -202.00)	GC
4.	0.318177	AT (	389.00, -202.00)	GC	9.	0.269176	AT (	289.00, -402.00)	GC
5.	0.315185	AT (	89.00, -302.00)	GC	10.	0.253406	AT (	489.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2401 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

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

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.016429	AT (	289.00,	-302.00)	GC	6.	0.038671	AT (	289.00,	-202.00)	GC
2.	0.036023	AT (	189.00,	-202.00)	GC	7.	0.113997	AT (	289.00,	-102.00)	GC
3.	0.063612	AT (	389.00,	-102.00)	GC	8.	0.061103	AT (	89.00,	-202.00)	GC
4.	0.030597	AT (	389.00,	-202.00)	GC	9.	0.011867	AT (	289.00,	-402.00)	GC
5.	0.024933	AT (	89.00,	-302.00)	GC	10.	0.027403	AT (	489.00,	-202.00)	GC

*** SOURCE GEN01 CONTRIBUTIONS TO THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR GROUP: ALL ***

RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.454804	AT (	289.00,	-302.00)	GC	6.	0.269095	AT (	289.00,	-202.00)	GC
2.	0.332558	AT (	189.00,	-202.00)	GC	7.	0.186425	AT (	289.00,	-102.00)	GC
3.	0.257409	AT (	389.00,	-102.00)	GC	8.	0.213416	AT (	89.00,	-202.00)	GC
4.	0.287580	AT (	389.00,	-202.00)	GC	9.	0.257309	AT (	289.00,	-402.00)	GC
5.	0.290253	AT (	89.00,	-302.00)	GC	10.	0.226003	AT (	489.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary : ISCLT3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 0 Informational Message(s)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCLT3 Finishes Successfully ***
****

ISCST3 CO 1987

```
** The results for this run are in file 24ST87A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1987 Met CO
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  24ERRA87.OUT
CO FINISHED

SO STARTING
   LOCATION  2401  POINT  189.02    -102.44

** Point Source       QS     HS     TS     VS     DS
** Parameters:       ----   ----   ----   ----   ---
   SRCPARAM  2401    1.351  17.68  718.1 13.85  2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72

SO LOCATION GEN01  POINT    224.09    -158.54

** Parameters      QS     HS     TS      VS      DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.305  6.10  830.93  45.49    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26   11.58   11.58    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   22.64   19.61   15.93   16.15
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   16.44   16.43   15.93   16.15
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -1011 25 100 -1302  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  24RAM87.ASC
   ANEMHGHT  10
   SURFDATA  12816  1987  GAINESVILLE
   UAIRDATA  12842  1987  TAMPA
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST
   MAXTABLE  ALLAVE  50
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

**MODELOPTs: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 625 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: 24st87a.IN
**Output Print File: 24st87a.OUT
**Detailed Error/Message File: 24ERRA87.OUT

**MODELOPTs: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.13510E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.30500E+00	224.1	-158.5	0.0	6.10	830.93	45.49	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	17.6,	0	2	11.6,	20.9,	0	3	11.6,	23.6,	0	4	11.6,	25.6,	0	5	11.6,	26.8,	0	6	11.6,	27.2,	0
7	11.6,	26.8,	0	8	11.6,	25.5,	0	9	11.6,	24.7,	0	10	11.6,	26.4,	0	11	11.6,	27.3,	0	12	11.6,	27.3,	0
13	11.6,	26.5,	0	14	11.6,	25.0,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	11.6,	16.0,	0	18	11.6,	13.7,	0
19	11.6,	17.6,	0	20	11.6,	20.9,	0	21	11.6,	23.6,	0	22	11.6,	25.6,	0	23	11.6,	26.8,	0	24	11.6,	27.2,	0
25	11.6,	26.8,	0	26	11.6,	25.5,	0	27	11.6,	24.7,	0	28	11.6,	26.4,	0	29	11.6,	27.3,	0	30	11.6,	27.3,	0
31	11.6,	26.5,	0	32	11.6,	25.0,	0	33	11.6,	22.6,	0	34	11.6,	19.6,	0	35	11.6,	16.0,	0	36	11.6,	13.7,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.9,	0	2	5.3,	17.2,	0	3	5.3,	16.9,	0	4	5.3,	16.1,	0	5	5.3,	14.8,	0	6	5.3,	13.1,	0
7	5.3,	11.0,	0	8	0.0,	0.0,	0	9	5.3,	7.0,	0	10	5.3,	9.5,	0	11	5.3,	11.7,	0	12	5.3,	13.5,	0
13	5.3,	15.0,	0	14	5.3,	15.9,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	5.3,	15.9,	0	18	5.3,	16.1,	0
19	5.3,	16.9,	0	20	5.3,	17.2,	0	21	5.3,	16.9,	0	22	5.3,	16.1,	0	23	5.3,	14.8,	0	24	5.3,	13.1,	0
25	5.3,	11.0,	0	26	0.0,	0.0,	0	27	5.3,	7.0,	0	28	5.3,	9.5,	0	29	5.3,	11.7,	0	30	5.3,	13.5,	0
31	5.3,	15.0,	0	32	5.3,	15.9,	0	33	5.3,	16.4,	0	34	5.3,	16.4,	0	35	5.3,	15.9,	0	36	5.3,	16.1,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-1011.0, -911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0,
-11.0, 89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0,
989.0, 1089.0, 1189.0, 1289.0, 1389.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1302.0, -1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0,
-302.0, -202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0,
698.0, 798.0, 898.0, 998.0, 1098.0,

**MODELOPTs: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44

**MODELOPTs: CONC   RURAL FLAT   DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: 24RAM87.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1987 YEAR: 1987

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
87	1	1	1	311.0	4.63	292.0	4	601.5	601.5	0.0000	0.0	0.0000	0	0.00
87	1	1	2	348.0	5.14	292.6	4	654.3	654.3	0.0000	0.0	0.0000	0	0.00
87	1	1	3	344.0	6.17	292.6	4	707.2	707.2	0.0000	0.0	0.0000	0	0.00
87	1	1	4	33.0	3.60	293.2	4	760.0	760.0	0.0000	0.0	0.0000	0	0.00
87	1	1	5	33.0	4.12	292.0	4	812.8	812.8	0.0000	0.0	0.0000	0	0.00
87	1	1	6	142.0	4.12	285.4	4	865.6	865.6	0.0000	0.0	0.0000	0	0.00
87	1	1	7	125.0	7.72	283.2	4	918.4	918.4	0.0000	0.0	0.0000	0	0.00
87	1	1	8	123.0	5.14	282.0	4	971.2	971.2	0.0000	0.0	0.0000	0	0.00
87	1	1	9	107.0	6.17	281.5	4	1024.0	1024.0	0.0000	0.0	0.0000	0	0.00
87	1	1	10	101.0	6.17	281.5	4	1076.8	1076.8	0.0000	0.0	0.0000	0	0.00
87	1	1	11	114.0	7.20	282.0	4	1129.6	1129.6	0.0000	0.0	0.0000	0	0.00
87	1	1	12	126.0	6.17	282.6	4	1182.4	1182.4	0.0000	0.0	0.0000	0	0.00
87	1	1	13	153.0	5.14	282.6	4	1235.2	1235.2	0.0000	0.0	0.0000	0	0.00
87	1	1	14	139.0	6.17	282.6	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	15	132.0	7.20	284.3	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	16	134.0	6.17	284.8	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	17	121.0	4.12	285.4	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	18	127.0	2.57	284.3	5	1286.0	1225.6	0.0000	0.0	0.0000	0	0.00
87	1	1	19	104.0	2.57	281.5	6	1280.8	1068.2	0.0000	0.0	0.0000	0	0.00
87	1	1	20	117.0	2.57	282.6	6	1275.7	910.8	0.0000	0.0	0.0000	0	0.00
87	1	1	21	140.0	7.20	283.7	5	1270.5	753.3	0.0000	0.0	0.0000	0	0.00
87	1	1	22	142.0	2.57	282.0	6	1265.4	595.9	0.0000	0.0	0.0000	0	0.00
87	1	1	23	140.0	0.00	279.8	7	1260.2	438.4	0.0000	0.0	0.0000	0	0.00
87	1	1	24	110.0	2.06	278.7	6	1255.1	281.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	12.25943 (87122007)	12.68257 (87051301)	12.32509 (87081907)	11.62799 (87051122)	11.88529 (87081601)
998.0	12.47199 (87061302)	12.29335 (87111702)	12.80939 (87051301)	12.83253 (87081907)	12.19486 (87060223)
898.0	12.14769 (87060201)	12.26709 (87061302)	12.27880 (87111702)	12.43544 (87051301)	11.93951 (87081907)
798.0	9.53175 (87091224)	12.68233 (87082821)	11.69079 (87061302)	12.10265 (87073118)	12.62344 (87121420)
698.0	13.14139 (87111704)	11.07697 (87051801)	12.28654 (87082821)	12.84085 (87093003)	13.48190 (87073118)
598.0	11.56658 (87051105)	13.23105 (87060123)	12.57059 (87051801)	10.50646 (87082119)	14.17303 (87093003)
498.0	13.73113 (87010320)	12.64344 (87070801)	11.81415 (87012111)	13.45524 (87111704)	12.09212 (87011622)
398.0	12.53322 (87072422)	12.58084 (87051705)	13.73945 (87010320)	13.79826 (87092218)	14.36391 (87062819)
298.0	13.33839 (87092520)	12.79658 (87012902)	12.84049 (87031509)	13.90696 (87022207)	15.98372 (87090121)
198.0	12.55513 (87042020)	13.72322 (87062220)	13.67022 (87112822)	14.73101 (87011620)	16.71202 (87031509)
98.0	12.41964 (87111820)	11.98386 (87051023)	12.97874 (87042220)	15.53207 (87061908)	17.60309 (87062220)
-2.0	13.73109 (87010324)	13.43484 (87031421)	14.34138 (87051308)	15.97026 (87051308)	17.75266 (87032721)
-102.0	12.98489 (87092720)	13.09205 (87092720)	14.50281 (87012016)	16.14114 (87051408)	18.25245 (87051408)
-202.0	13.21189 (87082522)	13.04763 (87021017)	14.42219 (87021017)	15.98490 (87021017)	17.60786 (87021017)
-302.0	11.16007 (87072519)	12.29793 (87072519)	13.49667 (87032405)	15.03929 (87072022)	16.44025 (87072022)
-402.0	11.01084 (87112701)	12.10254 (87112517)	13.19497 (87121309)	14.32780 (87032722)	16.37478 (87021804)
-502.0	12.86348 (87121322)	13.24309 (87100920)	12.75379 (87053021)	13.83618 (87111812)	15.54827 (87111817)
-602.0	13.45527 (87030223)	13.04211 (87052622)	13.20664 (87112320)	14.42272 (87022422)	15.67571 (87090708)
-702.0	12.55740 (87052921)	12.46584 (87121820)	13.07732 (87052202)	13.84569 (87112519)	14.66413 (87032605)
-802.0	12.87373 (87052202)	12.58593 (87030505)	12.54039 (87030420)	13.07616 (87072408)	14.18374 (87111808)
-902.0	13.01550 (87030224)	13.19967 (87111902)	12.49713 (87102323)	12.24011 (87111808)	13.13310 (87020614)
-1002.0	12.73667 (87102920)	13.04313 (87103019)	12.67981 (87051001)	13.37673 (87103020)	13.16102 (87101624)
-1102.0	12.62163 (87103019)	13.17086 (87030401)	13.00372 (87103020)	13.21149 (87101624)	12.44026 (87123102)
-1202.0	12.85570 (87030501)	12.77317 (87030504)	13.03105 (87101624)	13.06155 (87123102)	13.03710 (87060603)
-1302.0	12.80005 (87030504)	12.80482 (87032007)	13.04634 (87123102)	13.01425 (87060603)	13.34640 (87032303)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	12.61519 (87081605)	12.31222 (87082624)	14.18476 (87071508)	12.58234 (87073021)	12.62923 (87093004)
998.0	10.18275 (87081605)	10.77372 (87122715)	15.19209 (87071508)	13.07324 (87121505)	13.02610 (87093004)
898.0	13.53679 (87060223)	13.62994 (87081605)	12.59320 (87071508)	15.68858 (87071508)	13.39062 (87112902)
798.0	10.70278 (87010916)	12.85135 (87112903)	13.44070 (87122716)	18.28941 (87071508)	14.90294 (87051320)
698.0	13.02916 (87122504)	13.05270 (87093002)	13.20878 (87070408)	15.38527 (87122410)	16.44549 (87071508)
598.0	15.03776 (87073118)	15.34751 (87122504)	16.48488 (87093002)	17.58992 (87122716)	22.30648 (87071508)
498.0	15.45403 (87093003)	16.63218 (87073118)	17.64043 (87122504)	19.07282 (87112903)	19.89952 (87122715)
398.0	15.84995 (87011622)	16.98853 (87012202)	19.36018 (87082109)	20.30418 (87010916)	23.02788 (87070408)
298.0	17.43937 (87012111)	19.31273 (87062819)	21.06369 (87082119)	23.72899 (87091014)	26.00735 (87061919)
198.0	18.02740 (87022207)	20.55789 (87090121)	23.24609 (87092913)	25.83663 (87011602)	29.35068 (87032506)
98.0	19.40087 (87112822)	21.76473 (87090507)	24.43159 (87022709)	28.61936 (87011723)	34.18143 (87061920)
-2.0	18.99526 (87051707)	22.07829 (87021723)	26.33805 (87061019)	31.09230 (87033003)	38.75209 (87122419)
-102.0	20.28126 (87051408)	22.60100 (87020421)	27.35036 (87110917)	32.93066 (87051619)	42.10550 (87060919)
-202.0	20.03845 (87091209)	23.49560 (87090313)	26.84506 (87030707)	30.34311 (87121310)	30.94160 (87032016)
-302.0	18.34878 (87112701)	19.83085 (87121309)	26.34664 (87022414)	31.61807 (87110409)	39.00452 (87031721)
-402.0	18.97071 (87052319)	21.75045 (87021718)	24.71731 (87022807)	28.40917 (87022004)	34.71355 (87022524)
-502.0	18.60998 (87022422)	20.46413 (87060508)	22.83241 (87012008)	26.34405 (87110123)	30.44824 (87052809)
-602.0	17.82759 (87072507)	19.67818 (87072408)	21.19464 (87042608)	23.61648 (87050601)	26.25059 (87112804)
-702.0	15.65107 (87072408)	18.12113 (87020614)	19.15544 (87050601)	21.10192 (87110503)	23.12485 (87020622)
-802.0	15.50039 (87020614)	15.62131 (87050601)	18.21454 (87032805)	18.95695 (87020615)	20.73826 (87072219)
-902.0	12.95293 (87050601)	15.44181 (87061108)	16.36092 (87020615)	16.83307 (87072518)	18.52129 (87021018)
-1002.0	13.36865 (87061108)	13.79606 (87060509)	13.69861 (87020622)	16.15772 (87072219)	15.60225 (87092808)
-1102.0	13.39904 (87102523)	13.34169 (87101905)	13.72169 (87072518)	14.40879 (87111911)	14.86514 (87022806)
-1202.0	13.66550 (87010603)	13.10833 (87071821)	13.82484 (87121806)	13.25732 (87110624)	13.36695 (87110505)
-1302.0	12.61416 (87101522)	11.88555 (87100501)	13.64136 (87102305)	11.04273 (87100320)	13.65549 (87010606)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	12.38215 (87121503)	12.74813 (87012410)	11.85849 (87080405)	12.38322 (87082901)	10.69874 (87062108)
998.0	12.46426 (87091223)	13.58014 (87012410)	12.85540 (87093017)	11.87321 (87082901)	12.43089 (87062108)
898.0	13.77938 (87032524)	14.10400 (87012410)	14.29495 (87093017)	13.21652 (87032702)	14.13076 (87062108)
798.0	15.50813 (87093004)	15.83525 (87070608)	15.97744 (87093017)	15.23756 (87032702)	15.45500 (87062108)
698.0	17.32409 (87093004)	17.23556 (87070608)	17.86403 (87093017)	17.52893 (87032702)	17.41292 (87010415)
598.0	18.78364 (87112902)	19.28175 (87091223)	19.79883 (87093017)	19.85518 (87032702)	19.48086 (87031907)
498.0	21.34479 (87073108)	21.58553 (87091223)	22.12041 (87080507)	22.57184 (87061421)	22.06577 (87062319)
398.0	26.34274 (87071508)	25.28542 (87032518)	26.29701 (87092911)	26.13240 (87080407)	25.32912 (87080308)
298.0	27.65787 (87051410)	30.54820 (87051409)	31.80292 (87092911)	31.23155 (87032701)	29.97017 (87030809)
198.0	33.75125 (87032915)	37.67736 (87122510)	40.11876 (87122512)	39.20972 (87070305)	43.48883 (87030907)
98.0	40.98665 (87010411)	48.65172 (87063018)	54.74412 (87083109)	51.03474 (87051820)	46.23417 (87010105)
-2.0	49.29912 (87021517)	67.29141 (87120811)	81.71449 (87080416)	73.53681 (87090817)	60.35601 (87062705)
-102.0	57.41411 (87051217)	85.61939 (87032310)	158.69765 (87031824)	125.06277 (87030817)	75.23554 (87121218)
-202.0	34.37852 (87102516)	89.46173 (87071817)	181.33038 (87052815)	139.35287 (87041718)	76.78211 (87040511)
-302.0	50.29461 (87020508)	67.72534 (87030415)	85.37622 (87100815)	207.61212 (87030406)	63.24771 (87121114)
-402.0	42.27378 (87110201)	49.93815 (87101617)	56.47648 (87101222)	159.83209 (87092307)	83.42151 (87092424)
-502.0	34.42152 (87101024)	38.54193 (87101021)	40.67761 (87111915)	55.60064 (87092307)	93.95712 (87010806)
-602.0	28.94629 (87021810)	31.07928 (87022424)	32.34150 (87092317)	32.12611 (87101213)	82.43208 (87120703)
-702.0	24.63342 (87102009)	25.96817 (87111909)	26.91405 (87062809)	26.64218 (87052117)	89.11755 (87092307)
-802.0	21.75583 (87072405)	22.07651 (87032713)	23.00672 (87102507)	27.94576 (87092308)	64.70826 (87092307)
-902.0	19.24282 (87110505)	19.88427 (87062018)	19.85822 (87020618)	27.34348 (87092308)	39.23133 (87092307)
-1002.0	17.37615 (87081221)	18.04201 (87082519)	17.98865 (87020618)	25.60154 (87092308)	22.29850 (87092307)
-1102.0	15.85787 (87060523)	16.46395 (87082519)	16.11056 (87020618)	23.50595 (87092308)	15.77744 (87021819)
-1202.0	15.11420 (87060523)	14.27828 (87082519)	14.41593 (87020618)	21.42194 (87092308)	13.68671 (87021819)
-1302.0	13.89944 (87112207)	12.86870 (87110508)	13.64672 (87010524)	19.50982 (87092308)	13.70271 (87010521)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	11.91406 (87031907)	11.50902 (87061323)	12.74665 (87030821)	17.19151 (87030907)	12.77209 (87030907)
998.0	12.50123 (87031907)	12.07762 (87061422)	13.87173 (87030907)	18.02026 (87030907)	11.61653 (87012519)
898.0	12.37686 (87062319)	11.80181 (87122711)	19.58561 (87030907)	14.31785 (87030907)	13.14222 (87071523)
798.0	14.23324 (87061422)	14.77392 (87122711)	21.61931 (87030907)	13.04627 (87012519)	13.77145 (87052108)
698.0	17.12375 (87061422)	22.25916 (87030907)	16.17476 (87030907)	15.56911 (87052108)	13.48864 (87011603)
598.0	17.97565 (87122016)	27.02792 (87030907)	16.00976 (87122017)	16.05564 (87011603)	15.03309 (87071518)
498.0	24.04121 (87030907)	18.88181 (87012512)	19.00311 (87071419)	17.71513 (87071518)	14.23653 (87061210)
398.0	35.31103 (87030907)	21.97034 (87122110)	20.45798 (87062707)	17.39984 (87061210)	15.12004 (87121517)
298.0	26.79377 (87121014)	25.12046 (87061709)	21.43650 (87061210)	18.69112 (87093015)	18.03667 (87061519)
198.0	32.26939 (87062703)	27.81080 (87111008)	24.74233 (87093015)	22.33098 (87091816)	19.23572 (87022718)
98.0	38.84105 (87111008)	31.92404 (87081615)	27.30429 (87022718)	22.42339 (87102704)	20.86399 (87072319)
-2.0	45.90400 (87072719)	35.75546 (87031909)	29.03544 (87121018)	24.78773 (87011021)	19.75335 (87062308)
-102.0	39.37226 (87100619)	27.18808 (87011914)	24.69467 (87122113)	23.78483 (87062608)	21.89319 (87062608)
-202.0	52.03586 (87072717)	38.94616 (87010715)	31.31379 (87081919)	25.75235 (87102710)	22.29849 (87102710)
-302.0	45.54650 (87041716)	36.65478 (87071513)	48.98388 (87010408)	30.10512 (87010408)	20.10609 (87090718)
-402.0	39.88791 (87080922)	31.78416 (87041007)	27.99221 (87050419)	23.48392 (87011517)	34.62000 (87010408)
-502.0	36.42574 (87030218)	29.39912 (87091318)	25.34620 (87070720)	22.34764 (87030213)	20.06109 (87121117)
-602.0	79.52867 (87021002)	25.68194 (87091410)	23.17991 (87090215)	21.12816 (87080819)	18.83759 (87012022)
-702.0	59.70411 (87081004)	60.44104 (87092424)	20.48225 (87112002)	19.59786 (87073018)	17.54534 (87093022)
-802.0	61.51062 (87112201)	57.78306 (87123002)	35.23267 (87092424)	17.65425 (87081319)	16.64833 (87073018)
-902.0	55.37714 (87092307)	47.58741 (87081004)	51.68960 (87030220)	16.01207 (87020617)	15.22866 (87081319)
-1002.0	60.58759 (87092307)	47.97994 (87123003)	46.75887 (87021024)	46.31050 (87092424)	13.94608 (87020617)
-1102.0	52.87548 (87092307)	46.45404 (87041821)	39.10927 (87081004)	41.48768 (87021002)	35.19847 (87092424)
-1202.0	40.60812 (87092307)	42.69751 (87092307)	39.54241 (87100721)	37.65310 (87021104)	39.11496 (87041704)
-1302.0	29.04073 (87092307)	45.92421 (87092307)	37.06828 (87112201)	32.90008 (87081004)	38.62709 (87031401)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	12.99615 (87012519)	12.50367 (87121222)	12.67697 (87120403)	11.63574 (87111101)	12.57828 (87030123)
998.0	12.93140 (87120322)	13.28899 (87013003)	11.77135 (87012921)	12.83491 (87030123)	11.78988 (87062602)
898.0	11.67703 (87013003)	13.17519 (87012921)	12.96638 (87013002)	11.85138 (87121221)	11.22850 (87121224)
798.0	13.28811 (87012921)	13.45764 (87013002)	11.84544 (87121221)	11.62411 (87122303)	12.46260 (87080505)
698.0	13.35014 (87013002)	11.58056 (87121221)	12.30660 (87122303)	12.55434 (87080505)	12.77033 (87120320)
598.0	11.88476 (87061210)	12.33139 (87122303)	13.50423 (87013007)	12.12164 (87120320)	13.13302 (87061622)
498.0	12.82188 (87102709)	12.10329 (87013007)	11.10791 (87061519)	13.23080 (87021423)	11.68385 (87012223)
398.0	14.38088 (87061519)	13.07209 (87091816)	13.42707 (87011614)	11.90913 (87021424)	12.04995 (87071403)
298.0	16.81607 (87011614)	13.59204 (87022718)	12.44908 (87120110)	11.89979 (87062505)	12.09345 (87090821)
198.0	16.52777 (87120110)	14.83468 (87102704)	13.27021 (87112817)	12.30687 (87071514)	12.06179 (87071514)
98.0	17.55568 (87071514)	16.83169 (87071514)	15.24087 (87062308)	12.80278 (87062308)	10.35327 (87081819)
-2.0	17.03103 (87081819)	13.67301 (87081819)	12.63936 (87091709)	11.75145 (87091709)	10.96140 (87052019)
-102.0	19.22317 (87062608)	16.58772 (87062608)	14.66276 (87012717)	13.47387 (87012717)	12.85763 (87012721)
-202.0	19.55696 (87012513)	17.54408 (87012513)	15.57547 (87012513)	13.84317 (87012513)	12.89388 (87040401)
-302.0	18.03126 (87081120)	17.41578 (87081120)	15.47647 (87081120)	13.22898 (87081120)	13.73952 (87011222)
-402.0	35.54897 (87010408)	27.31633 (87010408)	18.16045 (87010408)	13.68325 (87121619)	13.66863 (87011219)
-502.0	15.89977 (87071319)	20.28046 (87010408)	26.36927 (87010408)	26.43077 (87010408)	22.57303 (87010408)
-602.0	16.17426 (87071307)	16.39334 (87042109)	13.04949 (87043021)	13.44692 (87040902)	18.21204 (87010408)
-702.0	16.25644 (87080719)	14.47050 (87093021)	13.26892 (87010204)	14.11782 (87121707)	13.55965 (87043021)
-802.0	15.17804 (87093022)	13.87175 (87080719)	13.64570 (87040903)	14.07574 (87012706)	13.21178 (87010207)
-902.0	14.18470 (87073018)	13.50722 (87032123)	13.90278 (87011201)	13.90666 (87013107)	13.50908 (87121604)
-1002.0	13.79787 (87113005)	13.01590 (87112019)	13.71047 (87032123)	13.71419 (87011201)	12.53770 (87021101)
-1102.0	14.16507 (87011123)	13.56901 (87011307)	13.13583 (87112019)	13.39794 (87113002)	13.15199 (87112021)
-1202.0	19.36738 (87092424)	13.62681 (87013005)	13.74069 (87011307)	13.01449 (87112019)	13.39565 (87113002)
-1302.0	36.74837 (87092424)	13.39959 (87120506)	13.57093 (87013005)	13.52280 (87011307)	12.74339 (87112019)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	2.89769 (87111708)	3.48397 (87122508)	3.24508 (87122508)	2.46958c(87081308)	3.70639c(87081608)
998.0	3.24378 (87111624)	3.10956 (87032508)	3.84248 (87122508)	3.32380 (87122508)	2.79514c(87121416)
898.0	3.01803 (87111624)	3.53940 (87111624)	3.55461 (87032508)	4.24217 (87122508)	3.34806 (87122508)
798.0	2.16611 (87111708)	3.10166 (87111624)	3.88081 (87111624)	4.12011 (87032508)	4.67399 (87122508)
698.0	3.56083 (87111708)	2.67059 (87032416)	3.13806 (87111624)	4.27585 (87111624)	4.85428 (87032508)
598.0	2.90184c(87090124)	3.56370 (87111708)	3.31938 (87111708)	3.10050 (87111624)	4.72573 (87111624)
498.0	4.06139c(87010324)	3.30046c(87090124)	3.50525 (87110916)	4.06909 (87032416)	3.26493 (87111616)
398.0	3.25676 (87051724)	3.25936 (87051724)	3.73652c(87010324)	4.25070c(87090124)	4.78882 (87032416)
298.0	2.98115 (87060124)	2.85915 (87051724)	3.66406 (87051724)	3.74610 (87051724)	4.46071c(87090124)
198.0	3.66188c(87090224)	3.56206c(87090224)	3.94076 (87060124)	3.56776 (87060124)	4.07871 (87051724)
98.0	3.63735 (87051024)	4.12173 (87051024)	4.19828c(87090224)	4.85071c(87090224)	4.89735c(87090224)
-2.0	4.73348 (87051108)	4.55598 (87051108)	4.22129 (87051108)	3.93366c(87051316)	4.26522 (87110924)
-102.0	3.90919c(87060824)	4.03521c(87122208)	4.42757c(87122208)	4.86209c(87122208)	5.60913 (87112624)
-202.0	5.73657 (87122324)	5.76268 (87122324)	5.73194 (87122324)	5.60908 (87122324)	6.10021 (87012124)
-302.0	4.45969c(87032408)	4.80635c(87032408)	5.19159c(87032408)	5.64280c(87032408)	6.16763c(87032408)
-402.0	4.93602 (87120808)	4.75053 (87051608)	4.54232 (87110408)	5.06653 (87110408)	5.68800 (87052324)
-502.0	3.98284c(87010624)	5.19263c(87010624)	6.11357c(87010624)	5.51567c(87010624)	5.27750c(87121324)
-602.0	5.36016c(87010624)	4.42236c(87121324)	4.89853c(87051308)	3.90254c(87051308)	5.09952 (87020508)
-702.0	4.34108c(87051308)	3.32633c(87051308)	3.64050 (87020508)	4.80649 (87020508)	6.31468c(87022708)
-802.0	2.83634c(87052208)	3.62109 (87020508)	4.12553c(87022708)	6.14804c(87022708)	7.23841c(87022708)
-902.0	3.19326 (87020508)	4.25902c(87022708)	5.63651c(87022708)	5.93386c(87022708)	4.90889 (87110124)
-1002.0	4.17609c(87022708)	4.99575c(87022708)	4.88207c(87022708)	4.27440c(87030508)	3.10010 (87101624)
-1102.0	4.35655c(87022708)	4.05653c(87022708)	4.38276c(87030508)	3.05776 (87101624)	3.28588c(87012108)
-1202.0	3.41122c(87022708)	4.35454c(87030508)	2.97463 (87101624)	2.79963c(87012108)	3.58175 (87102524)
-1302.0	4.23944c(87030508)	2.87003 (87101624)	2.82339c(87123108)	3.14162 (87053008)	4.45896 (87102524)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	3.57433c(87081608)	2.79900c(87122716)	3.88322c(87122524)	3.35824c(87020124)	3.14891c(87112908)
998.0	4.29342c(87081608)	3.53610c(87122716)	3.21891c(87070224)	2.90279c(87070224)	3.55878c(87112908)
898.0	3.23420c(87121416)	4.37171c(87081608)	3.49758c(87122716)	3.70607c(87070224)	3.98395c(87020124)
798.0	3.32476 (87122508)	4.06230c(87081608)	4.41513c(87122716)	4.26232c(87070224)	3.65722c(87020124)
698.0	5.11264 (87122508)	3.88480c(87121416)	4.92612c(87081608)	4.50593c(87122716)	4.74483c(87070224)
598.0	5.83221 (87032508)	5.50413 (87122508)	5.01069c(87121416)	5.54429c(87122716)	6.03483c(87070224)
498.0	5.22077 (87111624)	7.24664 (87032508)	5.72275 (87122508)	6.30382c(87121416)	5.91632c(87122716)
398.0	4.55462 (87032416)	5.81313 (87032508)	9.34324 (87032508)	6.60219c(87031816)	7.53150 (87122508)
298.0	5.72924 (87110916)	6.85979 (87032416)	7.04741 (87032508)	12.47433 (87032508)	10.60306c(87121416)
198.0	4.37080c(87021516)	6.35218c(87090124)	9.62278 (87032416)	8.50606 (87032508)	17.20760 (87032508)
98.0	5.27592 (87060124)	5.16700 (87092716)	6.57838c(87021516)	11.47559 (87110916)	15.03572 (87032416)
-2.0	5.23833c(87053124)	6.80674c(87053124)	8.48251c(87073124)	8.56102 (87052516)	11.27588 (87092716)
-102.0	6.48069 (87112624)	7.70899c(87051316)	10.47125c(87051316)	14.36932c(87051316)	18.67733c(87051316)
-202.0	7.21506 (87012124)	8.58714 (87012124)	10.20911 (87012124)	11.93349 (87012124)	14.15564 (87090416)
-302.0	7.14424 (87110408)	8.91833 (87110408)	10.59574 (87110408)	12.10111 (87110316)	16.17806 (87022016)
-402.0	6.52610 (87052324)	7.32468 (87111816)	8.97950 (87022016)	14.01240 (87020508)	16.37535 (87110124)
-502.0	5.56197 (87022016)	7.98205 (87020508)	10.35750c(87022708)	14.03513c(87022708)	10.71532 (87030616)
-602.0	6.76602 (87020508)	10.13402c(87022708)	10.71317c(87022708)	7.11391 (87030616)	9.89036 (87022024)
-702.0	8.77597c(87022708)	8.06859c(87022708)	5.34450c(87012108)	6.86637 (87030616)	10.51719 (87110208)
-802.0	6.17215c(87022708)	4.34512c(87012108)	5.75370c(87012108)	7.00383 (87110208)	8.56510 (87031216)
-902.0	3.58650c(87012108)	4.70834c(87012108)	4.88731 (87012116)	6.86467 (87110708)	5.51958 (87031216)
-1002.0	3.90735c(87012108)	4.36451 (87102524)	5.29049 (87110208)	5.84939 (87031216)	3.78176c(87111924)
-1102.0	4.16697 (87102524)	4.03584 (87030608)	5.89048 (87110708)	4.12365 (87031216)	3.64074 (87101116)
-1202.0	3.79507 (87102524)	4.64111 (87110708)	4.40966 (87110708)	3.59044c(87022508)	3.16125c(87121308)
-1302.0	3.38829 (87110208)	4.94325 (87110708)	3.25740 (87031216)	3.23766c(87052808)	3.23256c(87110508)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	3.93223 (87022824)	3.33483 (87080424)	3.01762 (87041508)	3.17870c(87022216)	2.71442c(87061308)
998.0	3.92338c(87032524)	3.42784 (87080424)	3.38186 (87041508)	3.53140c(87022216)	2.66418c(87061308)
898.0	4.57569c(87032524)	3.30937 (87080424)	3.82905 (87041508)	3.94630c(87022216)	3.01821c(87081624)
798.0	4.97822c(87032524)	3.36729 (87041508)	4.40325 (87041508)	4.44316c(87022216)	3.23256c(87081624)
698.0	4.98133c(87112908)	4.08901c(87032524)	5.19489 (87041508)	5.08405c(87022216)	3.42961c(87081624)
598.0	5.41036c(87112908)	5.78821c(87032524)	6.23305 (87041508)	5.79433c(87022216)	4.23815c(87081624)
498.0	6.21791c(87070224)	7.81391c(87032524)	7.61396 (87041508)	6.47673c(87022216)	6.18806c(87081624)
398.0	9.05576c(87070224)	9.09793c(87032524)	9.49294 (87041508)	6.89100c(87022216)	8.11722c(87081624)
298.0	9.01271c(87063024)	9.25944 (87032616)	12.09011 (87041508)	8.84483 (87033024)	9.23761c(87121016)
198.0	16.16654c(87121416)	13.60125c(87070224)	15.60061 (87041508)	10.77429 (87033016)	15.79252c(87121016)
98.0	23.68803 (87032508)	17.32553c(87063024)	18.99327 (87041508)	13.47370 (87042316)	17.30249c(87122116)
-2.0	31.82339 (87032416)	35.76683c(87031816)	26.69783c(87041316)	23.77896 (87042316)	19.16260c(87061416)
-102.0	26.26498c(87053124)	33.85069 (87032316)	60.11834c(87121416)	21.19766c(87031616)	27.10556 (87041524)
-202.0	20.52137 (87031716)	49.27785 (87030516)	93.35011 (87030616)	56.15322 (87033116)	35.21094 (87012616)
-302.0	25.13852 (87020508)	35.78265 (87030616)	23.58154 (87052216)	88.22401 (87100108)	23.76928 (87012716)
-402.0	17.96452 (87030616)	25.24793 (87030608)	30.07155 (87031224)	34.70760c(87092308)	24.20259c(87041708)
-502.0	16.63452 (87110208)	14.45961 (87101116)	21.03792 (87031224)	14.20351 (87010508)	33.87889 (87100108)
-602.0	13.31106 (87031216)	10.60702 (87101116)	13.27312 (87031224)	10.70715 (87020724)	36.60337 (87102908)
-702.0	7.92620 (87050524)	9.25592 (87031224)	9.53473 (87102508)	8.30358 (87020724)	20.20804c(87092308)
-802.0	6.37665 (87101116)	10.16886 (87031224)	8.66830 (87102508)	6.14412 (87020724)	16.10670c(87092308)
-902.0	5.06438 (87101116)	9.54515 (87031224)	7.74029 (87102508)	5.47982 (87021816)	10.59561c(87092308)
-1002.0	5.17244c(87110508)	8.45758c(87110508)	6.87708 (87102508)	4.79942 (87021816)	6.69590c(87092308)
-1102.0	5.47294c(87110508)	7.18384c(87110508)	6.11356 (87102508)	4.17238 (87021816)	4.56230 (87101708)
-1202.0	5.53632c(87110508)	5.99628c(87110508)	5.67475c(87100908)	3.67112c(87101908)	3.89632 (87101408)
-1302.0	5.41658c(87110508)	4.98608c(87110508)	5.27685c(87100908)	4.04622c(87110524)	3.78886 (87101508)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	2.34665c(87081624)	3.28633c(87061324)	2.87681c(87011616)	4.33454 (87011908)	3.24666 (87011908)
998.0	2.61370c(87081624)	3.36555c(87061324)	3.49202 (87011908)	4.43692 (87011908)	2.99509c(87121016)
898.0	3.23865c(87081624)	2.99896c(87011616)	4.76513 (87011908)	3.77707c(87121016)	3.17185c(87122116)
798.0	4.01107c(87081624)	4.27664c(87011616)	5.09708 (87011908)	3.70348c(87121016)	3.50581c(87122116)
698.0	4.47850c(87081624)	5.03952c(87121016)	5.04085c(87121016)	4.29609c(87122116)	3.31812 (87012924)
598.0	4.80559c(87121016)	6.41549c(87121016)	4.75480c(87122116)	3.77137c(87122116)	3.86246c(87071524)
498.0	6.93857c(87121016)	7.33020c(87121016)	5.62302c(87122116)	4.58193c(87071524)	2.84437 (87121224)
398.0	9.83028c(87121016)	7.81649c(87122116)	5.25269c(87071524)	3.37814c(87061416)	3.35545 (87012524)
298.0	11.28789c(87121016)	6.52201 (87062708)	4.64638c(87061416)	4.16803c(87061416)	4.17895c(87061524)
198.0	10.53828c(87122116)	6.84835c(87061416)	5.70018c(87061416)	5.20056c(87061524)	5.01665 (87062716)
98.0	11.04147c(87061416)	8.55094c(87061416)	8.06332 (87062716)	5.88716 (87062716)	4.12936 (87011024)
-2.0	13.68939 (87062716)	10.12732 (87061316)	7.52332 (87122824)	6.96218 (87122824)	7.10408c(87100624)
-102.0	18.45909 (87042816)	11.08610 (87042816)	7.78810 (87041024)	5.87317 (87041024)	5.08138c(87040624)
-202.0	16.07973 (87040516)	11.58716 (87040924)	9.79856 (87040924)	8.31009 (87040924)	6.98253 (87040924)
-302.0	19.72747 (87033116)	11.62040c(87090816)	11.61439c(87090816)	7.49135 (87012616)	5.34544 (87012616)
-402.0	15.25510c(87020708)	10.85575c(87041724)	8.33901 (87033116)	5.60257 (87012608)	6.30110c(87090816)
-502.0	10.79902 (87122916)	12.40468c(87020708)	8.44389 (87121108)	6.78665 (87093024)	5.70869 (87093024)
-602.0	26.42925c(87081724)	8.25675 (87081424)	9.48170c(87020708)	7.00746c(87020708)	6.22617 (87013108)
-702.0	19.90372 (87100108)	14.35112c(87041708)	6.71420 (87112008)	7.31839c(87020708)	6.28709c(87020708)
-802.0	23.24351 (87102908)	19.27212c(87081724)	9.10500c(87092424)	6.32759 (87112008)	5.76939c(87020708)
-902.0	18.35120 (87102908)	14.30838c(87081008)	12.58702c(87092508)	5.35513c(87020808)	5.80828 (87112008)
-1002.0	13.84448c(87092308)	15.29693 (87102608)	14.21294c(87081724)	10.00922c(87041708)	7.00969c(87020808)
-1102.0	13.16621c(87092308)	17.69747 (87102908)	11.09441c(87081008)	11.63144c(87081724)	7.62025c(87092424)
-1202.0	10.79869c(87092308)	11.37549 (87102908)	13.00551 (87100108)	11.51600c(87081008)	9.32254c(87092508)
-1302.0	8.13249c(87092308)	10.35152c(87092308)	13.17767 (87102908)	8.97276c(87081008)	10.08399c(87081724)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	2.71491c(87071524)	2.58825c(87071224)	2.84845 (87121224)	3.16076 (87012924)	3.18489 (87013008)
998.0	2.91384c(87122116)	2.85972 (87121224)	3.46371 (87012924)	3.36522 (87013008)	3.21259 (87121224)
898.0	2.76364 (87121224)	3.68311 (87012924)	3.51866 (87013008)	3.27408 (87121224)	3.60198 (87121224)
798.0	3.68995 (87012924)	3.61387 (87013008)	3.29675 (87121224)	3.41139 (87121224)	2.41451 (87011824)
698.0	3.59992 (87013008)	3.25854 (87121224)	3.11522 (87121224)	2.21749 (87012524)	2.85379c(87040224)
598.0	3.12947 (87121224)	2.85499 (87011824)	2.48805 (87042408)	3.19428c(87040224)	3.02271 (87021424)
498.0	2.90741 (87011824)	3.09352c(87040224)	3.25580c(87040224)	3.70960 (87021424)	3.20814 (87021424)
398.0	3.77534c(87040224)	3.42375 (87021424)	3.55635 (87021424)	2.99522 (87021424)	2.27095 (87062716)
298.0	3.79179 (87021424)	3.44107 (87062716)	2.88205 (87062716)	2.77069 (87062424)	2.31196c(87090824)
198.0	3.93437 (87062716)	2.75830 (87062424)	2.51531 (87030124)	2.67136c(87021624)	2.94519c(87021624)
98.0	3.65713 (87011024)	3.60129 (87122824)	4.04081c(87100624)	4.63887c(87100624)	4.94630c(87100624)
-2.0	6.62749c(87100624)	5.63114c(87100624)	4.62892c(87100624)	3.84627c(87100624)	3.49962c(87081824)
-102.0	4.46022c(87040624)	4.52963 (87012724)	5.04679c(87090724)	5.42015c(87090724)	5.60067c(87090724)
-202.0	5.85577 (87040924)	4.94494 (87040924)	4.22939 (87040924)	3.75333c(87090924)	3.56263c(87090924)
-302.0	4.28120 (87011224)	5.07527 (87040924)	5.45396 (87040924)	5.52403 (87040924)	5.39524 (87040924)
-402.0	6.05280c(87090816)	4.82130c(87090816)	4.69142c(87040724)	4.74720c(87040724)	3.95288c(87040724)
-502.0	3.74810 (87012608)	3.41257c(87090816)	4.39488c(87010408)	4.40513c(87010408)	3.84449c(87020308)
-602.0	4.99465 (87093024)	5.77659 (87010208)	4.00855 (87010208)	3.13970 (87012708)	3.82178c(87041108)
-702.0	5.47028 (87013108)	5.36241 (87013108)	5.77921 (87010208)	6.10440 (87010208)	4.41436 (87010208)
-802.0	5.39638c(87020708)	4.57146 (87040808)	5.52954 (87013108)	5.32096c(87040908)	6.06788 (87010208)
-902.0	4.98358 (87011308)	4.81911 (87011308)	4.76830 (87040808)	5.03467 (87013108)	5.08819c(87040908)
-1002.0	5.27854 (87112008)	4.67737 (87011308)	4.67628 (87011308)	4.41978 (87040808)	4.11536 (87013108)
-1102.0	7.62690c(87020808)	5.15884c(87011124)	4.37415 (87011308)	4.45712 (87011308)	4.19117c(87021208)
-1202.0	5.19356c(87020808)	7.40627c(87020808)	5.11071c(87011124)	4.08892 (87011308)	4.20955 (87011308)
-1302.0	7.58204c(87041708)	6.39186c(87020808)	6.71651c(87020808)	5.26365c(87080624)	4.03972c(87080624)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	207.61212	(87030406)	AT (	289.00,	-302.00)	GC	26.	159.67783	(87120206)	AT (	289.00,	-302.00)	GC
2.	205.89862	(87102603)	AT (	289.00,	-302.00)	GC	27.	158.69765	(87031824)	AT (	189.00,	-102.00)	GC
3.	205.66786	(87031624)	AT (	289.00,	-302.00)	GC	28.	158.62772	(87101612)	AT (	189.00,	-202.00)	GC
4.	205.24660	(87100106)	AT (	289.00,	-302.00)	GC	29.	154.83746	(87110617)	AT (	189.00,	-202.00)	GC
5.	205.24660	(87102322)	AT (	289.00,	-302.00)	GC	30.	154.08035	(87121412)	AT (	189.00,	-102.00)	GC
6.	204.63800	(87100103)	AT (	289.00,	-302.00)	GC	31.	151.83241	(87030607)	AT (	189.00,	-202.00)	GC
7.	200.77312	(87010806)	AT (	289.00,	-302.00)	GC	32.	151.78427	(87101315)	AT (	189.00,	-202.00)	GC
8.	200.54613	(87102821)	AT (	289.00,	-302.00)	GC	33.	151.72408	(87100411)	AT (	189.00,	-202.00)	GC
9.	200.35748	(87100722)	AT (	289.00,	-302.00)	GC	34.	150.80247	(87110224)	AT (	189.00,	-202.00)	GC
10.	198.09369	(87100102)	AT (	289.00,	-302.00)	GC	35.	150.15456	(87110112)	AT (	189.00,	-202.00)	GC
11.	196.46825	(87092121)	AT (	289.00,	-302.00)	GC	36.	149.96158	(87092103)	AT (	289.00,	-302.00)	GC
12.	181.93965	(87100721)	AT (	289.00,	-302.00)	GC	37.	148.84901	(87092023)	AT (	289.00,	-302.00)	GC
13.	181.93965	(87110801)	AT (	289.00,	-302.00)	GC	38.	148.60915	(87081723)	AT (	289.00,	-302.00)	GC
14.	181.33038	(87052815)	AT (	189.00,	-202.00)	GC	39.	146.61107	(87120813)	AT (	189.00,	-102.00)	GC
15.	180.33507	(87030616)	AT (	189.00,	-202.00)	GC	40.	143.28041	(87050518)	AT (	189.00,	-202.00)	GC
16.	178.14476	(87030611)	AT (	189.00,	-202.00)	GC	41.	143.11841	(87110613)	AT (	189.00,	-202.00)	GC
17.	177.96931	(87010516)	AT (	189.00,	-202.00)	GC	42.	142.55008	(87052910)	AT (	189.00,	-202.00)	GC
18.	176.70836	(87092101)	AT (	289.00,	-302.00)	GC	43.	140.80032	(87100801)	AT (	289.00,	-402.00)	GC
19.	174.95482	(87122223)	AT (	289.00,	-302.00)	GC	44.	140.31441	(87100723)	AT (	289.00,	-402.00)	GC
20.	169.24164	(87030609)	AT (	189.00,	-202.00)	GC	45.	140.01009	(87011711)	AT (	289.00,	-302.00)	GC
21.	167.82375	(87010514)	AT (	189.00,	-202.00)	GC	46.	139.35287	(87041718)	AT (	289.00,	-202.00)	GC
22.	167.38078	(87050517)	AT (	189.00,	-202.00)	GC	47.	137.59000	(87010107)	AT (	289.00,	-202.00)	GC
23.	164.87318	(87030617)	AT (	189.00,	-202.00)	GC	48.	136.31799	(87120412)	AT (	289.00,	-202.00)	GC
24.	160.54839	(87123003)	AT (	289.00,	-302.00)	GC	49.	134.00456	(87050603)	AT (	289.00,	-302.00)	GC
25.	159.83209	(87092307)	AT (	289.00,	-402.00)	GC	50.	133.93784	(87032913)	AT (	189.00,	-102.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	93.35011	(87030616)	AT (	189.00, -202.00)	GC	26.	41.38384c	(87120208)	AT (	289.00, -302.00)	GC
2.	88.22401	(87100108)	AT (	289.00, -302.00)	GC	27.	41.29935	(87070116)	AT (	189.00, -102.00)	GC
3.	65.57746	(87102608)	AT (	289.00, -302.00)	GC	28.	40.95765	(87040816)	AT (	289.00, -202.00)	GC
4.	63.45029c	(87081008)	AT (	289.00, -302.00)	GC	29.	40.93661	(87110316)	AT (	89.00, -202.00)	GC
5.	60.77214	(87102908)	AT (	289.00, -302.00)	GC	30.	40.55948	(87101716)	AT (	189.00, -202.00)	GC
6.	60.11834c	(87121416)	AT (	189.00, -102.00)	GC	31.	39.77330	(87052916)	AT (	189.00, -202.00)	GC
7.	56.15322	(87033116)	AT (	289.00, -202.00)	GC	32.	38.76925	(87100116)	AT (	189.00, -202.00)	GC
8.	56.06536c	(87081724)	AT (	289.00, -302.00)	GC	33.	38.75321	(87110116)	AT (	189.00, -202.00)	GC
9.	55.59081	(87030624)	AT (	189.00, -202.00)	GC	34.	38.19607c	(87083124)	AT (	289.00, -302.00)	GC
10.	55.27500c	(87092124)	AT (	289.00, -302.00)	GC	35.	37.76802c	(87110424)	AT (	289.00, -302.00)	GC
11.	53.57001	(87010516)	AT (	189.00, -202.00)	GC	36.	37.07659c	(87041724)	AT (	289.00, -202.00)	GC
12.	53.06488	(87102824)	AT (	289.00, -302.00)	GC	37.	36.60337	(87102908)	AT (	389.00, -602.00)	GC
13.	50.86347	(87050524)	AT (	189.00, -202.00)	GC	38.	36.39664	(87060716)	AT (	89.00, -202.00)	GC
14.	50.17309	(87110616)	AT (	189.00, -202.00)	GC	39.	36.18502	(87102124)	AT (	289.00, -302.00)	GC
15.	49.27785	(87030516)	AT (	89.00, -202.00)	GC	40.	35.88020	(87051716)	AT (	189.00, -102.00)	GC
16.	49.15059	(87120416)	AT (	289.00, -202.00)	GC	41.	35.78265	(87030616)	AT (	89.00, -302.00)	GC
17.	48.99436	(87122224)	AT (	289.00, -302.00)	GC	42.	35.76683c	(87031816)	AT (	89.00, -2.00)	GC
18.	48.79087	(87092108)	AT (	289.00, -302.00)	GC	43.	35.73590	(87030608)	AT (	189.00, -202.00)	GC
19.	48.45577	(87100416)	AT (	189.00, -202.00)	GC	44.	35.21094	(87012616)	AT (	389.00, -202.00)	GC
20.	48.32157c	(87110808)	AT (	289.00, -302.00)	GC	45.	35.11064	(87100808)	AT (	289.00, -302.00)	GC
21.	47.87339	(87032916)	AT (	189.00, -102.00)	GC	46.	35.07993	(87031824)	AT (	189.00, -102.00)	GC
22.	47.79332	(87100724)	AT (	289.00, -302.00)	GC	47.	34.85432	(87122316)	AT (	89.00, -202.00)	GC
23.	42.71163	(87012316)	AT (	289.00, -202.00)	GC	48.	34.70760c	(87092308)	AT (	289.00, -402.00)	GC
24.	41.92483	(87102416)	AT (	189.00, -202.00)	GC	49.	34.65191	(87101416)	AT (	189.00, -202.00)	GC
25.	41.53648	(87080816)	AT (	289.00, -302.00)	GC	50.	34.60428c	(87030408)	AT (	289.00, -302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 207.61212	ON 87030406:	AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 93.35011	ON 87030616:	AT (189.00, -202.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 2099 Informational Message(s)

A Total of 2099 Calm Hours Identified

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1988

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** The results for this run are in file 24ST88A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1988 Met CO
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  24ERRA88.OUT
CO FINISHED

SO STARTING
   LOCATION  2401  POINT  189.02    -102.44

** Point Source       QS      HS      TS     VS     DS
** Parameters:       ----    ----    ----   ----   ---
   SRCPARAM  2401    1.351  17.68  718.1 13.85  2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72

SO LOCATION GEN01  POINT    224.09    -158.54

** Parameters      QS     HS     TS      VS      DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.305  6.10  830.93  45.49    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26   11.58   11.58    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   22.64   19.61   15.93   16.15
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   16.44   16.43   15.93   16.15
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SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -1011 25 100 -1302  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  24RAM88.ASC
   ANEMHGHT  10
   SURFDATA  12816  1988  GAINESVILLE
   UAIRDATA  12842  1988  TAMPA
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST
   MAXTABLE  ALLAVE  50
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
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**MODELOPTs: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 625 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =   0.0000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          24st88a.IN
**Output Print File:             24st88a.OUT
**Detailed Error/Message File:   24ERRA88.OUT
```


**MODELOPTs: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.13510E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.30500E+00	224.1	-158.5	0.0	6.10	830.93	45.49	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	17.6,	0	2	11.6,	20.9,	0	3	11.6,	23.6,	0	4	11.6,	25.6,	0	5	11.6,	26.8,	0	6	11.6,	27.2,	0
7	11.6,	26.8,	0	8	11.6,	25.5,	0	9	11.6,	24.7,	0	10	11.6,	26.4,	0	11	11.6,	27.3,	0	12	11.6,	27.3,	0
13	11.6,	26.5,	0	14	11.6,	25.0,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	11.6,	16.0,	0	18	11.6,	13.7,	0
19	11.6,	17.6,	0	20	11.6,	20.9,	0	21	11.6,	23.6,	0	22	11.6,	25.6,	0	23	11.6,	26.8,	0	24	11.6,	27.2,	0
25	11.6,	26.8,	0	26	11.6,	25.5,	0	27	11.6,	24.7,	0	28	11.6,	26.4,	0	29	11.6,	27.3,	0	30	11.6,	27.3,	0
31	11.6,	26.5,	0	32	11.6,	25.0,	0	33	11.6,	22.6,	0	34	11.6,	19.6,	0	35	11.6,	16.0,	0	36	11.6,	13.7,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.9,	0	2	5.3,	17.2,	0	3	5.3,	16.9,	0	4	5.3,	16.1,	0	5	5.3,	14.8,	0	6	5.3,	13.1,	0
7	5.3,	11.0,	0	8	0.0,	0.0,	0	9	5.3,	7.0,	0	10	5.3,	9.5,	0	11	5.3,	11.7,	0	12	5.3,	13.5,	0
13	5.3,	15.0,	0	14	5.3,	15.9,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	5.3,	15.9,	0	18	5.3,	16.1,	0
19	5.3,	16.9,	0	20	5.3,	17.2,	0	21	5.3,	16.9,	0	22	5.3,	16.1,	0	23	5.3,	14.8,	0	24	5.3,	13.1,	0
25	5.3,	11.0,	0	26	0.0,	0.0,	0	27	5.3,	7.0,	0	28	5.3,	9.5,	0	29	5.3,	11.7,	0	30	5.3,	13.5,	0
31	5.3,	15.0,	0	32	5.3,	15.9,	0	33	5.3,	16.4,	0	34	5.3,	16.4,	0	35	5.3,	15.9,	0	36	5.3,	16.1,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-1011.0, -911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0,
-11.0, 89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0,
989.0, 1089.0, 1189.0, 1289.0, 1389.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1302.0, -1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0,
-302.0, -202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0,
698.0, 798.0, 898.0, 998.0, 1098.0,

**MODELOPTs: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44

**MODELOPTs: CONC   RURAL FLAT   DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: 24RAM88.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1988 YEAR: 1988

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
88	1	1	1	321.0	3.09	285.9	6	1716.6	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	2	278.0	2.57	284.8	6	1722.1	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	3	284.0	0.00	284.3	7	1727.6	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	4	283.0	0.00	282.6	7	1733.1	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	5	283.0	0.00	282.0	7	1738.6	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	6	282.0	0.00	281.5	7	1744.1	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	7	285.0	0.00	282.6	7	1749.6	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	8	283.0	0.00	282.6	6	143.1	353.8	0.0000	0.0	0.0000	0	0.00
88	1	1	9	277.0	0.00	285.4	5	417.3	592.8	0.0000	0.0	0.0000	0	0.00
88	1	1	10	341.0	3.09	288.7	4	691.4	831.9	0.0000	0.0	0.0000	0	0.00
88	1	1	11	344.0	2.57	292.0	3	965.6	1070.9	0.0000	0.0	0.0000	0	0.00
88	1	1	12	316.0	5.14	294.3	3	1239.7	1309.9	0.0000	0.0	0.0000	0	0.00
88	1	1	13	343.0	3.60	294.8	2	1513.9	1549.0	0.0000	0.0	0.0000	0	0.00
88	1	1	14	9.0	3.60	295.9	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	15	42.0	2.57	296.5	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	16	334.0	2.57	296.5	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	17	301.0	2.57	295.4	4	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	18	137.0	1.54	292.6	5	1789.5	1681.9	0.0000	0.0	0.0000	0	0.00
88	1	1	19	144.0	0.00	290.4	6	1793.3	1413.9	0.0000	0.0	0.0000	0	0.00
88	1	1	20	137.0	0.00	288.7	6	1797.2	1145.9	0.0000	0.0	0.0000	0	0.00
88	1	1	21	140.0	0.00	287.6	7	1801.0	877.9	0.0000	0.0	0.0000	0	0.00
88	1	1	22	142.0	0.00	286.5	7	1804.8	610.0	0.0000	0.0	0.0000	0	0.00
88	1	1	23	140.0	0.00	286.5	7	1808.6	342.0	0.0000	0.0	0.0000	0	0.00
88	1	1	24	140.0	0.00	285.9	7	1812.5	74.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	12.21443 (88052004)	12.79592 (88050405)	12.73411 (88010101)	12.64135 (88052101)	14.89020 (88090513)
998.0	12.74754 (88040301)	12.71738 (88052004)	12.93816 (88050405)	13.55863 (88010101)	12.82833 (88112007)
898.0	12.64929 (88050322)	12.92963 (88040301)	13.16101 (88052004)	12.97395 (88060721)	12.98969 (88010101)
798.0	13.08787 (88122724)	13.38142 (88112620)	12.80875 (88040301)	13.48468 (88052004)	13.56455 (88060721)
698.0	13.39462 (88022822)	13.12904 (88031803)	13.28435 (88040304)	12.22570 (88040301)	13.59338 (88052004)
598.0	13.13663 (88122021)	12.79505 (88112422)	13.72863 (88030306)	13.56372 (88102108)	13.79043 (88040405)
498.0	13.43451 (88102720)	13.57458 (88050822)	13.38358 (88032422)	13.82683 (88022822)	14.84138 (88102108)
398.0	15.91010 (88043010)	13.65165 (88122022)	13.63189 (88040406)	14.62693 (88052208)	15.02539 (88041710)
298.0	17.58525 (88043010)	20.73562 (88043010)	19.89766 (88043010)	14.86773 (88123108)	16.48864 (88040406)
198.0	13.63738 (88120701)	13.06490 (88091124)	16.91525 (88043010)	23.50811 (88043010)	25.21961 (88043010)
98.0	13.22806 (88032420)	13.10242 (88102819)	14.13174 (88090805)	15.61580 (88090807)	17.50170 (88060707)
-2.0	18.59845 (88080208)	19.59109 (88080208)	19.99413 (88080208)	19.34725 (88080208)	17.09485 (88080208)
-102.0	13.18460 (88071907)	14.34051 (88071907)	15.54739 (88071907)	16.67866 (88071907)	19.23569 (88080208)
-202.0	13.30205 (88091502)	13.14764 (88062808)	14.54639 (88062808)	16.28935 (88081105)	18.33504 (88081105)
-302.0	12.23042 (88030719)	12.73272 (88030719)	12.82664 (88030719)	13.73860 (88080918)	15.94103 (88081107)
-402.0	11.05266 (88081107)	12.11813 (88111417)	13.72943 (88010402)	15.76067 (88062810)	16.85466 (88062810)
-502.0	11.95099 (88080321)	12.16407 (88102024)	13.73954 (88083009)	14.56100 (88081705)	16.89093 (88090803)
-602.0	13.22897 (88072601)	12.21248 (88013120)	13.12532 (88022018)	14.42644 (88050102)	16.04235 (88111408)
-702.0	13.19973 (88070703)	13.06155 (88053123)	12.58248 (88111408)	13.54029 (88090702)	13.79483 (88021814)
-802.0	12.25729 (88090220)	12.20991 (88091324)	13.36449 (88061203)	13.06477 (88110917)	14.22035 (88080907)
-902.0	12.10466 (88120704)	12.52561 (88091206)	12.35464 (88093002)	12.85583 (88093001)	13.19830 (88121119)
-1002.0	12.54174 (88091404)	12.03000 (88091401)	13.17584 (88093001)	13.33898 (88092802)	13.07861 (88100420)
-1102.0	12.38857 (88010623)	12.96796 (88010703)	12.97182 (88092802)	13.14029 (88100420)	12.58755 (88011607)
-1202.0	12.87890 (88010703)	12.47758 (88061322)	12.96959 (88100420)	13.19516 (88011607)	12.46446 (88092820)
-1302.0	12.55337 (88102402)	12.65832 (88100420)	13.16341 (88011607)	12.67695 (88092820)	13.19027 (88081305)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	15.27821 (88090513)	11.79220 (88040101)	13.54411 (88071723)	10.88734 (88061708)	12.58400 (88090405)
998.0	17.68052 (88090513)	12.87425 (88090513)	13.47966 (88072823)	10.90242 (88061708)	12.29155 (88071108)
898.0	14.32936 (88090513)	18.95789 (88090513)	12.18388 (88051309)	12.89605 (88071318)	13.51966 (88092018)
798.0	11.87561 (88052101)	19.22611 (88090513)	16.87594 (88090513)	14.18248 (88040407)	14.93047 (88061708)
698.0	13.21230 (88060721)	14.03695 (88080808)	23.49636 (88090513)	15.42295 (88090815)	15.32197 (88013115)
598.0	14.22896 (88030421)	14.94135 (88071018)	17.97891 (88090513)	23.30147 (88090513)	18.05885 (88071318)
498.0	15.84808 (88040405)	16.67399 (88030421)	18.12075 (88072808)	27.28280 (88090513)	20.04325 (88022818)
398.0	16.60335 (88082923)	18.06443 (88051315)	19.54507 (88102107)	21.14404 (88091711)	33.55593 (88090513)
298.0	17.09661 (88080819)	19.00182 (88111308)	20.98408 (88123017)	22.81775 (88073119)	25.78144 (88111709)
198.0	18.26756 (88090813)	20.52225 (88060607)	23.23388 (88051618)	26.06190 (88091018)	29.51773 (88073119)
98.0	22.52221 (88043010)	29.87876 (88043010)	24.84514 (88083023)	28.93118 (88081109)	34.22145 (88071223)
-2.0	19.86982 (88030523)	22.13729 (88090805)	26.17471 (88090120)	30.59775 (88060502)	39.05069 (88091618)
-102.0	23.31102 (88080208)	28.05176 (88080208)	32.58825 (88080208)	34.13288 (88080208)	42.26993 (88092614)
-202.0	20.38432 (88081105)	22.65742 (88071915)	27.09744 (88071915)	30.46531 (88050219)	30.28983 (88050219)
-302.0	18.48726 (88081107)	19.83413 (88111417)	26.23696 (88010716)	31.35351 (88013011)	39.11657 (88111801)
-402.0	19.63190 (88083009)	21.89336 (88090701)	25.05139 (88081016)	28.96618 (88111217)	34.45014 (88070318)
-502.0	18.65788 (88050102)	20.48409 (88111408)	23.18601 (88021814)	26.13970 (88122905)	30.27051 (88050119)
-602.0	17.80628 (88090702)	19.64779 (88110917)	20.24146 (88090706)	23.67764 (88120815)	26.09666 (88020918)
-702.0	16.47866 (88030601)	17.23741 (88090706)	19.57805 (88041015)	21.30755 (88090801)	23.33043 (88092818)
-802.0	15.07287 (88121119)	16.66418 (88041015)	17.02931 (88090801)	19.74735 (88092613)	20.37190 (88122309)
-902.0	14.17993 (88041015)	14.49583 (88081008)	16.70768 (88092608)	17.21922 (88010808)	17.79690 (88122904)
-1002.0	12.99821 (88081008)	13.43957 (88092608)	15.76292 (88060107)	15.74615 (88122309)	16.86764 (88050101)
-1102.0	12.32513 (88111806)	13.86022 (88060107)	13.52328 (88010921)	13.79017 (88090703)	14.87162 (88051404)
-1202.0	12.81030 (88092608)	13.56462 (88031106)	13.81012 (88011603)	14.10041 (88050101)	13.36174 (88121002)
-1302.0	13.29342 (88100820)	12.69586 (88061301)	12.22447 (88011406)	13.33134 (88051404)	13.66942 (88011122)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	11.35006 (88072401)	12.44964 (88092103)	13.45148 (88090517)	23.92897 (88090519)	14.40791 (88090521)
998.0	12.45994 (88072401)	11.86905 (88090406)	14.69935 (88090517)	25.74018 (88090519)	13.70288 (88090521)
898.0	13.75689 (88081605)	12.85661 (88071320)	16.17760 (88090517)	27.68873 (88090519)	14.33948 (88090514)
798.0	14.00770 (88030921)	15.33728 (88071320)	17.94577 (88090517)	29.67495 (88090519)	17.33375 (88090514)
698.0	17.09112 (88071108)	17.70799 (88071320)	20.07480 (88090517)	31.41987 (88090519)	20.02798 (88090514)
598.0	19.08458 (88092018)	19.89696 (88081909)	22.64326 (88090517)	32.37570 (88090519)	21.14448 (88090514)
498.0	21.06538 (88102617)	22.20231 (88080719)	25.70547 (88090517)	31.48837 (88090519)	23.81507 (88090520)
398.0	24.65133 (88072119)	25.45923 (88090617)	29.19817 (88090517)	27.15816 (88090519)	23.84562 (88081719)
298.0	28.18736 (88032518)	30.45091 (88090823)	32.63375 (88090517)	30.46109 (88030419)	29.55238 (88011817)
198.0	41.15073 (88090513)	37.55739 (88052505)	39.69740 (88030912)	40.18823 (88090514)	34.81030 (88090614)
98.0	41.17555 (88122805)	48.82865 (88122810)	52.23875 (88092119)	52.55563 (88110504)	46.07026 (88041017)
-2.0	50.46790 (88091510)	67.46548 (88040113)	75.28259 (88071208)	76.26880 (88031313)	60.53909 (88060919)
-102.0	57.43975 (88060118)	87.32358 (88070716)	157.52448 (88030905)	107.43739 (88052317)	76.28242 (88060917)
-202.0	34.32778 (88061023)	87.85481 (88011417)	184.92430 (88031114)	170.24222 (88112806)	76.88673 (88042609)
-302.0	50.04382 (88060419)	67.07100 (88011515)	82.41368 (88042809)	205.66786 (88120922)	63.55427 (88071518)
-402.0	41.90900 (88010708)	49.34995 (88121110)	56.63741 (88073123)	139.46582 (88101220)	123.78823 (88120524)
-502.0	34.32071 (88010310)	38.30140 (88010313)	40.86930 (88092707)	40.69242 (88103015)	96.19570 (88052603)
-602.0	29.16367 (88112111)	31.27193 (88042707)	32.26093 (88081519)	32.12524 (88102517)	82.17200 (88102303)
-702.0	24.59166 (88122904)	26.10104 (88112109)	26.48278 (88011106)	26.52136 (88100907)	72.19827 (88102206)
-802.0	21.67843 (88103122)	22.57765 (88111302)	23.09523 (88051310)	22.72507 (88070119)	59.93972 (88080322)
-902.0	18.65883 (88111413)	19.75134 (88080601)	19.90491 (88042708)	20.24471 (88092909)	25.64873 (88080322)
-1002.0	16.27178 (88092908)	16.96539 (88040518)	18.02302 (88042708)	17.92058 (88092909)	17.70582 (88030516)
-1102.0	14.19718 (88010824)	14.63821 (88090623)	16.13628 (88042708)	15.97171 (88030413)	15.22668 (88030516)
-1202.0	13.35404 (88011402)	13.35379 (88010520)	14.43581 (88042708)	14.34388 (88030413)	13.95396 (88020705)
-1302.0	13.58334 (88020622)	13.64650 (88010520)	13.38362 (88100921)	13.70127 (88101406)	13.93013 (88010524)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	13.71443 (88090514)	12.37882 (88072204)	11.81044 (88080922)	11.45027 (88082522)	11.76418 (88030404)
998.0	13.93146 (88090520)	12.78616 (88072204)	11.01270 (88080922)	11.99271 (88030404)	11.77445 (88110420)
898.0	15.67352 (88090520)	11.59135 (88030502)	11.21100 (88032623)	12.39750 (88060219)	13.57184 (88022823)
798.0	15.86997 (88090520)	13.39165 (88071008)	12.71758 (88031307)	12.37748 (88030323)	12.75486 (88071319)
698.0	15.59300 (88081719)	13.20272 (88071008)	15.60767 (88060219)	14.57547 (88042406)	12.42027 (88042407)
598.0	17.89221 (88030502)	17.16103 (88031307)	14.57250 (88072208)	14.67812 (88071319)	16.18236 (88090518)
498.0	20.44724 (88071008)	19.98801 (88030323)	18.96402 (88071319)	17.55981 (88032704)	20.65082 (88090518)
398.0	23.78648 (88031307)	21.55519 (88042406)	19.75164 (88032704)	23.71424 (88090518)	16.62742 (88071508)
298.0	26.68521 (88030920)	24.96449 (88042407)	27.52525 (88090518)	20.43127 (88082507)	18.78792 (88051119)
198.0	32.31226 (88081407)	31.81470 (88090518)	25.18671 (88081418)	22.29973 (88062221)	18.99285 (88041507)
98.0	38.90406 (88081410)	32.63080 (88071619)	26.82215 (88012510)	23.75481 (88072214)	20.44716 (88051815)
-2.0	45.96321 (88082019)	35.74279 (88021918)	29.59885 (88100317)	24.83045 (88041505)	19.73523 (88041505)
-102.0	40.99443 (88082614)	28.10011 (88060323)	24.62166 (88072519)	23.39306 (88032108)	21.61851 (88073019)
-202.0	51.88342 (88122414)	39.26795 (88082118)	30.76209 (88081324)	25.47843 (88022112)	21.20411 (88022112)
-302.0	46.37874 (88121717)	36.73026 (88042319)	30.12486 (88062707)	25.22309 (88051905)	19.75801 (88051905)
-402.0	39.51284 (88031905)	32.44331 (88101208)	28.01785 (88111713)	24.16598 (88092509)	21.10853 (88070101)
-502.0	36.65076 (88090621)	29.15261 (88120816)	25.21229 (88113015)	22.14746 (88110117)	20.30337 (88071616)
-602.0	81.36414 (88090509)	25.66572 (88092318)	23.05445 (88112108)	20.71493 (88082810)	18.79787 (88121617)
-702.0	64.65404 (88052603)	60.58527 (88120524)	20.61440 (88121518)	19.43195 (88052108)	17.34293 (88022024)
-802.0	61.36050 (88012721)	57.02337 (88090509)	32.67179 (88120524)	17.76142 (88121518)	16.54106 (88052108)
-902.0	54.36632 (88102303)	48.48798 (88112507)	50.67194 (88090509)	16.33802 (88030319)	14.83483 (88121518)
-1002.0	48.80951 (88102206)	46.96128 (88012807)	48.09961 (88110819)	40.63421 (88110703)	14.32461 (88031502)
-1102.0	45.05538 (88101001)	40.74276 (88012721)	39.70081 (88112507)	42.94207 (88090509)	28.68091 (88120524)
-1202.0	38.42232 (88080322)	40.89040 (88012722)	40.16184 (88012807)	39.77336 (88110819)	36.12858 (88090509)
-1302.0	22.74655 (88080322)	37.44484 (88120523)	37.01445 (88012721)	33.31055 (88112507)	37.99808 (88031324)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	12.72870 (88022823)	9.51229 (88110419)	11.64972 (88062701)	12.56260 (88110521)	12.05464 (88090518)
998.0	11.23145 (88082424)	11.68547 (88062701)	12.81717 (88110521)	12.81846 (88090518)	12.49608 (88090518)
898.0	12.53041 (88110419)	11.99670 (88110521)	13.64667 (88090518)	13.55062 (88090518)	12.66741 (88112805)
798.0	10.45793 (88042407)	14.52353 (88090518)	14.81068 (88090518)	12.74200 (88112805)	12.17301 (88072722)
698.0	15.40461 (88090518)	16.34296 (88090518)	12.24409 (88112805)	10.67368 (88072722)	12.62925 (88050423)
598.0	18.24449 (88090518)	12.69954 (88071519)	12.03496 (88071016)	12.26985 (88071921)	13.18825 (88060904)
498.0	14.19704 (88071519)	13.59324 (88071016)	13.09844 (88061004)	11.76233 (88050421)	11.98703 (88060903)
398.0	15.60460 (88051119)	13.30688 (88072219)	13.47207 (88080608)	12.09484 (88041507)	12.36103 (88102305)
298.0	17.21227 (88072219)	15.12496 (88041507)	13.35310 (88071520)	12.59116 (88071520)	13.11844 (88041621)
198.0	17.66160 (88071520)	16.25090 (88051823)	13.33823 (88051823)	12.60920 (88061003)	13.37335 (88110524)
98.0	16.56665 (88100317)	14.59947 (88041505)	13.75687 (88041505)	11.43215 (88022315)	10.33254 (88091809)
-2.0	16.97073 (88091809)	14.69442 (88051903)	13.19265 (88070104)	11.61122 (88070104)	10.45860 (88072519)
-102.0	19.90540 (88073019)	17.76172 (88073019)	15.63435 (88073019)	13.76078 (88073019)	13.29643 (88110602)
-202.0	18.83764 (88080101)	17.26027 (88080101)	15.59517 (88080101)	14.07018 (88080101)	12.72904 (88080101)
-302.0	19.04270 (88012315)	17.32419 (88030321)	15.40781 (88030321)	13.30656 (88031922)	13.70833 (88041224)
-402.0	18.12225 (88110717)	16.77689 (88083019)	14.91750 (88083019)	13.36250 (88021120)	13.33638 (88112022)
-502.0	18.33102 (88062722)	16.15971 (88040505)	14.72408 (88070101)	13.36681 (88111021)	13.32725 (88041223)
-602.0	15.63108 (88082309)	15.74922 (88071616)	14.14434 (88051824)	13.46343 (88041201)	12.52477 (88012303)
-702.0	16.18929 (88042718)	14.75405 (88022007)	13.47387 (88121320)	14.00374 (88121704)	13.43438 (88082021)
-802.0	15.46712 (88042108)	13.82466 (88042718)	13.91620 (88120204)	13.77578 (88120420)	13.91881 (88121320)
-902.0	14.11022 (88052108)	14.16871 (88042108)	13.74891 (88031424)	14.16451 (88121307)	12.94869 (88052002)
-1002.0	12.78585 (88121017)	12.71256 (88120403)	14.12161 (88012704)	13.58209 (88031424)	13.55567 (88101020)
-1102.0	13.06822 (88012706)	13.31626 (88103104)	12.96976 (88120403)	13.36779 (88012704)	13.46083 (88101022)
-1202.0	15.60118 (88090509)	13.49156 (88103103)	13.51667 (88103104)	12.93367 (88120403)	13.35489 (88101202)
-1302.0	30.40428 (88110703)	13.90602 (88121323)	13.45213 (88103103)	13.32700 (88103104)	12.71008 (88120403)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	3.95865 (88112624)	3.53960c(88061724)	4.99061c(88061724)	3.57729c(88012508)	4.05245c(88011724)
998.0	4.09610 (88112624)	4.12170 (88112624)	4.01966c(88061724)	4.45439c(88061724)	4.34825c(88012508)
898.0	4.29944 (88112624)	4.30137 (88112624)	4.27495 (88112624)	4.51459c(88061724)	3.50586c(88061724)
798.0	5.00910 (88112008)	4.69985 (88112708)	4.52391 (88112624)	4.40843 (88112624)	4.94468c(88061724)
698.0	3.93976 (88091008)	4.67731 (88112008)	5.24764 (88112708)	5.03377 (88112708)	4.50176 (88112624)
598.0	3.81491 (88102724)	4.37393 (88102724)	4.44308 (88112708)	5.84055 (88112708)	5.79474 (88112708)
498.0	4.95118 (88123008)	4.60131 (88123008)	4.67883 (88123016)	4.21754 (88123016)	6.41190 (88112708)
398.0	5.53316 (88123008)	6.13733 (88123008)	6.13959 (88123008)	5.50173 (88123008)	5.66224 (88123016)
298.0	4.40055c(88122308)	5.29515 (88123008)	6.84703 (88123008)	7.87787 (88123008)	7.82097 (88123008)
198.0	4.80293c(88090808)	5.18096c(88090808)	5.19112c(88090808)	5.96749 (88123008)	8.59325 (88123008)
98.0	5.25787 (88111908)	5.51281 (88111908)	5.70519 (88111908)	6.61218c(88090808)	7.55042c(88090808)
-2.0	5.56891 (88091624)	6.09367 (88111908)	7.13919 (88111908)	8.28965 (88111908)	9.40685 (88111908)
-102.0	5.41516 (88090816)	6.13083 (88090816)	6.97973 (88090816)	8.00295 (88090816)	9.16842 (88090816)
-202.0	4.81040c(88061524)	5.07732c(88061524)	5.30668c(88061524)	5.55929c(88081108)	6.38437c(88081108)
-302.0	3.79820c(88081108)	4.01688c(88081108)	4.21182c(88081108)	4.60090 (88013124)	5.05513 (88013124)
-402.0	4.11581c(88101624)	4.40093c(88011224)	4.92651c(88011224)	4.65135c(88011224)	4.79121 (88010624)
-502.0	3.43287c(88011224)	4.45777 (88093024)	4.17408 (88093024)	3.83576 (88060508)	4.36342 (88111808)
-602.0	3.38878 (88013024)	3.30671 (88060508)	3.41440 (88111808)	3.94731 (88053124)	3.61165 (88061516)
-702.0	3.25078 (88053124)	4.25568 (88053124)	2.74985 (88061516)	3.09922 (88061516)	3.71540 (88010224)
-802.0	2.60290 (88053124)	3.05063 (88091324)	3.10123 (88093008)	3.75347 (88020724)	4.37814 (88020724)
-902.0	2.71348 (88091324)	3.63083 (88093008)	3.81124 (88091408)	4.04910 (88091408)	4.66651 (88111224)
-1002.0	3.54400 (88093008)	4.19133 (88091408)	3.68119 (88091408)	4.35120 (88111224)	3.80235 (88111224)
-1102.0	4.26928 (88091408)	3.16991 (88091408)	4.00101 (88111224)	3.41177 (88111224)	3.40601c(88081008)
-1202.0	3.09762 (88091308)	3.65972 (88111224)	3.08665 (88111224)	3.44051c(88081008)	3.15836 (88061308)
-1302.0	3.34357 (88111224)	2.81277 (88111224)	3.40189c(88081008)	2.87543 (88061308)	2.90136c(88092824)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	4.71475 (88090908)	4.39530 (88090908)	2.65875 (88071724)	3.18002 (88090824)	3.80364c(88072408)
998.0	5.27418c(88011724)	5.34771 (88090908)	3.79934 (88090908)	3.20973 (88090824)	3.79547 (88021508)
898.0	5.09327c(88012508)	5.50098c(88011724)	5.32231 (88090908)	3.07735 (88072224)	4.18082 (88090824)
798.0	4.46317c(88012508)	5.53879c(88012508)	6.58340 (88090908)	4.34572 (88090908)	4.60763 (88090824)
698.0	5.14898c(88061724)	5.92370c(88012508)	6.35542c(88011724)	6.62768 (88090908)	4.48496 (88090824)
598.0	4.52273 (88112624)	4.86057c(88061724)	7.55958c(88012508)	8.27126 (88090908)	4.89493 (88090908)
498.0	6.75004 (88112708)	4.98274 (88123016)	5.16678c(88123116)	8.49285c(88012508)	8.51219 (88090908)
398.0	6.79037 (88112708)	7.93678 (88112708)	6.01273 (88123016)	7.77035c(88012508)	10.26104 (88090908)
298.0	7.47785 (88123016)	6.73421 (88123016)	9.35353 (88112708)	7.28874 (88123016)	11.28186c(88012508)
198.0	10.52254 (88123008)	10.08993 (88123008)	9.79275 (88123016)	11.15047 (88112616)	9.60214 (88112616)
98.0	7.54468c(88090808)	10.35962 (88123008)	13.97788 (88123008)	12.50658 (88123016)	14.38891 (88112616)
-2.0	10.19494 (88111908)	10.27258 (88111908)	11.46967 (88021824)	11.15915 (88021824)	23.18847 (88122716)
-102.0	10.38106 (88090816)	11.39091 (88090816)	12.63833 (88111908)	16.90014 (88111908)	19.01665 (88111908)
-202.0	7.29298c(88081108)	8.18033c(88081108)	8.75047c(88081108)	9.74239 (88012916)	12.58290 (88012916)
-302.0	5.46982 (88013124)	6.01644 (88090724)	7.02840 (88010624)	9.61723 (88010624)	12.86971c(88010216)
-402.0	5.49403 (88010624)	5.23460 (88030524)	6.87965 (88030524)	8.63793 (88061516)	16.98080 (88010224)
-502.0	4.52338 (88030524)	5.27093 (88061516)	7.13895 (88010224)	10.85960 (88010224)	8.55287c(88050124)
-602.0	4.13496 (88061516)	6.75407 (88020724)	6.99990 (88010224)	6.62119c(88050124)	6.30505 (88020924)
-702.0	5.60695 (88020724)	5.37652 (88061108)	5.56420 (88111224)	5.27042 (88061308)	7.25884 (88050108)
-802.0	4.86360 (88111224)	4.86313 (88111224)	4.69594 (88061308)	5.53620c(88030608)	11.70503 (88010908)
-902.0	4.27549 (88111224)	3.96599 (88061308)	4.19821c(88030608)	5.78586 (88010908)	10.22207 (88010908)
-1002.0	3.34769 (88082724)	3.47370 (88061308)	4.23711 (88050108)	8.16004 (88010908)	6.14434 (88010908)
-1102.0	3.38699 (88061308)	3.69762 (88101324)	4.87673 (88010908)	7.42503 (88010908)	4.91416 (88011008)
-1202.0	3.01554 (88101324)	3.87432 (88100824)	6.11556 (88010908)	5.24348 (88010908)	4.58248 (88011008)
-1302.0	3.71319 (88100824)	4.10872 (88010908)	5.73185 (88010908)	4.58009 (88101424)	4.18225 (88011008)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	4.06351c(88072408)	3.58403c(88072324)	5.20472 (88090524)	7.22860 (88090524)	4.37071 (88090524)
998.0	4.65454c(88072408)	3.72849c(88072324)	5.50823 (88090524)	7.72988 (88090524)	4.26678 (88090524)
898.0	5.12289c(88072408)	4.13099c(88071324)	5.83642 (88090524)	8.26551 (88090524)	4.16850 (88090524)
798.0	5.24982c(88072408)	4.51072c(88071324)	6.32638c(88072324)	8.80441 (88090524)	4.14066 (88090524)
698.0	5.48862 (88090824)	5.24307c(88072408)	7.04317c(88072324)	9.27448 (88090524)	4.29341 (88090524)
598.0	6.68167 (88090824)	6.60608c(88072408)	7.94618c(88072324)	9.57761 (88090524)	4.71220 (88090524)
498.0	7.48569 (88090824)	7.53463c(88072408)	9.12508c(88072324)	9.54069 (88090524)	6.71187 (88110416)
398.0	6.43438 (88030316)	9.04946 (88090824)	10.66756c(88072324)	8.98411 (88090524)	10.68089 (88110416)
298.0	11.29686 (88090908)	11.61066 (88090824)	12.48793c(88072324)	9.69485 (88012008)	12.28986 (88110416)
198.0	12.11077 (88030908)	11.57905 (88090824)	13.71302 (88011716)	12.13516 (88090424)	10.89170 (88090616)
98.0	14.32185 (88112616)	18.64925 (88030908)	17.57997 (88011716)	22.63293 (88110416)	21.32778 (88041908)
-2.0	19.61596c(88122016)	23.53393 (88050316)	20.41164 (88111616)	26.52274 (88110416)	15.74387 (88021208)
-102.0	27.74857 (88061216)	42.88220 (88122716)	45.42379 (88030908)	35.66022 (88041816)	34.27268 (88060916)
-202.0	13.27511 (88012916)	24.78645 (88070516)	47.20595 (88050716)	90.73301 (88021608)	33.48439 (88031916)
-302.0	17.59551 (88010224)	20.48259 (88050716)	30.63243 (88011516)	58.51348 (88012808)	30.74435 (88112316)
-402.0	11.03011 (88090716)	21.59544 (88010908)	14.09119 (88011516)	42.63663 (88101224)	23.32135c(88030124)
-502.0	9.25599 (88010616)	18.09832 (88010908)	12.92024c(88030616)	14.00031c(88010424)	23.54004 (88012808)
-602.0	17.58541 (88010908)	13.45432 (88011008)	12.86391c(88030616)	9.81549 (88020808)	24.77063 (88011324)
-702.0	14.50266 (88010908)	10.50556 (88011008)	11.23831c(88030616)	7.09355 (88020616)	21.29535 (88101224)
-802.0	8.20727 (88011008)	7.36164 (88011008)	9.44567c(88030616)	6.29040 (88020616)	15.80000 (88101224)
-902.0	7.47019 (88011008)	5.53783 (88020624)	7.88412c(88030616)	5.53475 (88020616)	7.24461c(88010424)
-1002.0	6.44055 (88011008)	5.10403 (88020624)	6.61511c(88030616)	5.79448c(88092808)	6.09241c(88010424)
-1102.0	5.26966 (88011008)	4.59586 (88020624)	5.60708c(88030616)	5.99755c(88092808)	5.05246 (88100908)
-1202.0	4.72514 (88020624)	5.32434c(88011208)	4.83015c(88030616)	5.99010c(88092808)	4.53712 (88100908)
-1302.0	5.07777 (88020624)	5.66821c(88011208)	4.22622c(88030616)	5.85073c(88092808)	4.11648 (88100908)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	2.72707 (88090524)	3.20017 (88110416)	2.67908c(88080924)	2.93241 (88031308)	3.40434 (88041908)
998.0	2.92536 (88090524)	3.64490 (88110416)	3.07709 (88031308)	3.04376 (88041908)	3.69873 (88041908)
898.0	3.23779 (88110416)	3.76888 (88110416)	3.60193 (88031308)	4.24129 (88041908)	3.20382 (88041908)
798.0	4.40818 (88110416)	3.34351 (88110416)	3.76485 (88041908)	4.46699 (88041908)	3.21070 (88041824)
698.0	5.59095 (88110416)	4.43890 (88031308)	5.55197 (88041908)	3.56490 (88041824)	3.41051 (88042408)
598.0	6.08497 (88110416)	4.96784 (88041908)	5.53549 (88041908)	4.07876 (88042408)	3.85552 (88031008)
498.0	5.24082 (88031308)	8.00539 (88041908)	4.69699 (88042408)	4.84169 (88031008)	3.17187 (88021208)
398.0	7.05739 (88041908)	6.96678 (88041908)	6.07071 (88031008)	4.08251 (88021208)	5.67005 (88052324)
298.0	12.58321 (88041908)	7.24233 (88031008)	5.45578 (88021208)	7.23953 (88052324)	4.87592 (88052324)
198.0	8.98487 (88090616)	7.62214 (88021208)	9.04258 (88052324)	4.85569c(88062224)	11.12089c(88041508)
98.0	11.12807 (88021208)	10.64428 (88052324)	11.99102c(88041508)	10.84210c(88041508)	6.13000 (88051824)
-2.0	14.68618 (88060816)	11.27311c(88041508)	10.09607 (88063016)	7.21059c(88052224)	6.11260c(88052224)
-102.0	16.64752c(88052224)	12.81432 (88042508)	10.78256 (88042508)	8.73978 (88042508)	7.11035 (88042508)
-202.0	19.08148 (88031016)	14.71835 (88031016)	10.67133 (88031016)	8.64413 (88022924)	7.60725 (88022924)
-302.0	24.68673 (88121716)	15.40423 (88021216)	10.47913 (88030108)	7.08663 (88030108)	4.90767 (88030108)
-402.0	24.45929 (88112324)	20.43114 (88112816)	10.56220 (88122516)	8.42328 (88021216)	6.31558 (88030108)
-502.0	12.91446c(88051408)	17.51139 (88112324)	14.59416 (88112324)	9.06211 (88112816)	6.61032 (88122516)
-602.0	21.39922 (88070508)	9.81055c(88051408)	12.66774 (88112324)	12.57318 (88112324)	8.19125 (88112816)
-702.0	12.98588 (88012808)	12.64019 (88110708)	7.14530c(88051408)	9.48950 (88112324)	10.15557 (88112324)
-802.0	20.17491 (88012808)	14.70805 (88101008)	6.10637c(88051408)	5.26425c(88051408)	7.35350 (88112324)
-902.0	15.12021c(88102308)	9.85139c(88112508)	11.94721 (88110708)	5.52515c(88051408)	3.97262c(88051408)
-1002.0	12.95498 (88101224)	16.38194 (88012808)	10.53367 (88101008)	8.67118 (88110708)	4.75785c(88051408)
-1102.0	13.29597 (88101224)	12.03678 (88012724)	7.91784c(88112508)	10.25381 (88070508)	5.08755c(88122524)
-1202.0	9.95047 (88101224)	11.18349c(88102308)	12.53206 (88012808)	8.19891c(88101708)	8.88938 (88110708)
-1302.0	6.20683 (88101224)	8.96831 (88101224)	11.50785 (88012808)	6.55519c(88112508)	7.98585 (88070508)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	2.88621 (88041908)	2.65971 (88041824)	2.04445 (88042408)	2.10706c(88052408)	3.12352c(88052408)
998.0	2.89903 (88041824)	2.32654 (88042408)	2.11645 (88031008)	3.23516c(88052408)	2.29512c(88052408)
898.0	2.63279 (88041824)	2.36598 (88042408)	3.30916c(88052408)	2.38769c(88052408)	2.48720 (88112808)
798.0	2.83676 (88042408)	3.31542c(88052408)	2.46376c(88052408)	2.48631 (88112808)	3.47072 (88052324)
698.0	3.20970c(88052408)	2.50685c(88052408)	2.95053 (88052324)	3.92100 (88052324)	3.20105 (88052324)
598.0	2.59545c(88042308)	3.59851 (88052324)	4.38072 (88052324)	3.13104 (88052324)	2.79864 (88060908)
498.0	4.47413 (88052324)	4.77170 (88052324)	2.91708 (88052324)	3.36419 (88060908)	5.98427c(88041508)
398.0	4.97236 (88052324)	2.94972 (88060908)	6.04745c(88041508)	8.75358c(88041508)	7.29981c(88041508)
298.0	5.75659c(88041508)	9.90992c(88041508)	8.25170c(88041508)	4.59582c(88041508)	3.86282 (88050424)
198.0	9.44712c(88041508)	4.83761c(88041508)	3.90629 (88051824)	3.34555 (88051824)	2.89873 (88060824)
98.0	4.90712 (88051824)	4.02814 (88063016)	3.56384 (88060824)	3.05485c(88052224)	2.69413c(88052224)
-2.0	4.80900c(88052224)	4.06439 (88042508)	3.83340 (88042508)	3.54348 (88042508)	3.24239 (88042508)
-102.0	5.85502 (88042508)	4.89671 (88042508)	4.47115 (88022924)	4.66704 (88040724)	4.84000 (88040724)
-202.0	6.69601 (88022924)	5.93477 (88022924)	5.31983 (88022924)	4.85368 (88022924)	4.46169 (88022924)
-302.0	4.90293 (88012524)	5.24676 (88012524)	4.82174 (88012524)	4.32076c(88060308)	3.72938c(88060308)
-402.0	5.20039 (88030108)	4.04033 (88030108)	3.72288 (88020424)	3.12851 (88012524)	4.10649 (88012524)
-502.0	5.17418 (88021216)	4.50549c(88123124)	3.96955c(88110608)	3.51021c(88123124)	3.78766 (88041224)
-602.0	5.87034c(88121624)	6.30795 (88121708)	5.01245c(88122424)	5.26146c(88123124)	4.08483c(88123124)
-702.0	6.38932 (88112324)	5.70171c(88121624)	6.92162c(88120324)	6.13143 (88121724)	5.09605c(88122424)
-802.0	8.15571 (88112324)	6.19872 (88112324)	4.98141 (88121724)	6.44461c(88121808)	6.92639c(88120324)
-902.0	5.91026 (88112324)	6.72487 (88112324)	5.69850 (88112324)	4.72461 (88121308)	4.85299c(88121624)
-1002.0	3.40040 (88103108)	4.90600 (88112324)	5.78043 (88101208)	5.77735c(88110208)	4.57556c(88031024)
-1102.0	4.03490c(88051408)	3.22202 (88103108)	4.15421 (88112324)	5.61235 (88101208)	5.39171c(88110208)
-1202.0	4.72803c(88122524)	3.40518c(88051408)	3.07716c(88120308)	3.73042c(88120408)	5.35933 (88101208)
-1302.0	6.46050 (88110708)	3.71116c(88122524)	3.23794 (88120924)	3.01173c(88120308)	3.68567c(88120408)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	205.66786	(88120922)	AT (	289.00,	-302.00)	GC	26.	138.86670	(88101923)	AT (	289.00,	-402.00)	GC
2.	204.82767	(88101219)	AT (	289.00,	-302.00)	GC	27.	138.35789	(88121315)	AT (	289.00,	-202.00)	GC
3.	201.52367	(88081823)	AT (	289.00,	-302.00)	GC	28.	138.35730	(88121714)	AT (	289.00,	-202.00)	GC
4.	199.94411	(88121021)	AT (	289.00,	-302.00)	GC	29.	137.92557	(88021219)	AT (	289.00,	-202.00)	GC
5.	198.90210	(88101721)	AT (	289.00,	-302.00)	GC	30.	137.57947	(88021601)	AT (	289.00,	-202.00)	GC
6.	192.82144	(88012807)	AT (	289.00,	-302.00)	GC	31.	137.55896	(88021607)	AT (	289.00,	-202.00)	GC
7.	190.26305	(88010606)	AT (	289.00,	-302.00)	GC	32.	136.32396	(88032618)	AT (	289.00,	-202.00)	GC
8.	188.84366	(88012720)	AT (	289.00,	-302.00)	GC	33.	135.90143	(88090323)	AT (	289.00,	-302.00)	GC
9.	184.92430	(88031114)	AT (	189.00,	-202.00)	GC	34.	135.64020	(88100310)	AT (	189.00,	-102.00)	GC
10.	180.91974	(88052622)	AT (	289.00,	-302.00)	GC	35.	133.75638	(88112713)	AT (	189.00,	-102.00)	GC
11.	176.62491	(88101316)	AT (	189.00,	-202.00)	GC	36.	132.01039	(88031211)	AT (	189.00,	-102.00)	GC
12.	172.97791	(88101924)	AT (	289.00,	-302.00)	GC	37.	131.28494	(88122310)	AT (	289.00,	-302.00)	GC
13.	171.40514	(88072424)	AT (	289.00,	-302.00)	GC	38.	129.62500	(88102503)	AT (	289.00,	-302.00)	GC
14.	171.20805	(88090711)	AT (	189.00,	-202.00)	GC	39.	129.11105	(88020907)	AT (	289.00,	-302.00)	GC
15.	170.24222	(88112806)	AT (	289.00,	-202.00)	GC	40.	128.78229	(88031412)	AT (	289.00,	-202.00)	GC
16.	168.27017	(88052613)	AT (	189.00,	-202.00)	GC	41.	128.66023	(88052423)	AT (	289.00,	-202.00)	GC
17.	157.68385	(88052603)	AT (	289.00,	-302.00)	GC	42.	128.65895	(88012514)	AT (	289.00,	-202.00)	GC
18.	157.52448	(88030905)	AT (	189.00,	-102.00)	GC	43.	128.18723	(88080322)	AT (	289.00,	-402.00)	GC
19.	151.72408	(88101413)	AT (	189.00,	-202.00)	GC	44.	127.97232	(88080119)	AT (	189.00,	-102.00)	GC
20.	150.20538	(88080202)	AT (	289.00,	-302.00)	GC	45.	127.80251	(88021211)	AT (	289.00,	-202.00)	GC
21.	141.75816	(88021815)	AT (	189.00,	-202.00)	GC	46.	127.66124	(88031417)	AT (	289.00,	-202.00)	GC
22.	141.43509	(88112808)	AT (	289.00,	-202.00)	GC	47.	127.03447	(88032911)	AT (	189.00,	-102.00)	GC
23.	141.40034	(88021604)	AT (	289.00,	-202.00)	GC	48.	125.78454	(88021019)	AT (	189.00,	-202.00)	GC
24.	139.46582	(88101220)	AT (	289.00,	-402.00)	GC	49.	125.51330	(88030115)	AT (	289.00,	-202.00)	GC
25.	139.31952	(88112809)	AT (	289.00,	-202.00)	GC	50.	125.47145	(88031909)	AT (	289.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	90.73301	(88021608)	AT (	289.00, -202.00)	GC	26.	37.39954c	(88010508)	AT (	289.00, -302.00)	GC
2.	79.17667	(88112816)	AT (	289.00, -202.00)	GC	27.	37.05593	(88110108)	AT (	289.00, -302.00)	GC
3.	77.31117	(88121716)	AT (	289.00, -202.00)	GC	28.	36.93218	(88070616)	AT (	89.00, -102.00)	GC
4.	58.51348	(88012808)	AT (	289.00, -302.00)	GC	29.	36.48942	(88090916)	AT (	189.00, -102.00)	GC
5.	55.52142	(88012724)	AT (	289.00, -302.00)	GC	30.	35.90463	(88080916)	AT (	189.00, -102.00)	GC
6.	53.51202c	(88101924)	AT (	289.00, -302.00)	GC	31.	35.66022	(88041816)	AT (	289.00, -102.00)	GC
7.	51.81553	(88112808)	AT (	289.00, -202.00)	GC	32.	35.16833	(88010608)	AT (	289.00, -302.00)	GC
8.	51.79601	(88031416)	AT (	289.00, -202.00)	GC	33.	35.11531	(88112716)	AT (	189.00, -102.00)	GC
9.	50.91615	(88021308)	AT (	289.00, -202.00)	GC	34.	34.99222	(88022116)	AT (	289.00, -302.00)	GC
10.	47.68546	(88021108)	AT (	289.00, -302.00)	GC	35.	34.27268	(88060916)	AT (	389.00, -102.00)	GC
11.	47.20595	(88050716)	AT (	189.00, -202.00)	GC	36.	33.82314	(88031916)	AT (	289.00, -202.00)	GC
12.	46.65868	(88031516)	AT (	289.00, -202.00)	GC	37.	33.58728c	(88081824)	AT (	289.00, -302.00)	GC
13.	45.54393	(88021224)	AT (	289.00, -202.00)	GC	38.	33.48439	(88031916)	AT (	389.00, -202.00)	GC
14.	45.42379	(88030908)	AT (	189.00, -102.00)	GC	39.	33.15035c	(88101724)	AT (	289.00, -302.00)	GC
15.	45.02497	(88100916)	AT (	289.00, -302.00)	GC	40.	32.11435	(88102508)	AT (	289.00, -302.00)	GC
16.	42.88220	(88122716)	AT (	89.00, -102.00)	GC	41.	31.84230	(88102208)	AT (	289.00, -302.00)	GC
17.	42.63663	(88101224)	AT (	289.00, -402.00)	GC	42.	31.79817	(88031424)	AT (	289.00, -202.00)	GC
18.	42.09273	(88121316)	AT (	289.00, -202.00)	GC	43.	31.60990	(88050816)	AT (	89.00, -102.00)	GC
19.	40.33817	(88101316)	AT (	189.00, -202.00)	GC	44.	31.06826	(88101416)	AT (	189.00, -202.00)	GC
20.	40.27797	(88021216)	AT (	289.00, -202.00)	GC	45.	30.97601	(88101224)	AT (	289.00, -302.00)	GC
21.	39.06919	(88010824)	AT (	289.00, -302.00)	GC	46.	30.75355c	(88102416)	AT (	289.00, -202.00)	GC
22.	38.22829c	(88030116)	AT (	289.00, -202.00)	GC	47.	30.74435	(88112316)	AT (	389.00, -302.00)	GC
23.	38.04401	(88070916)	AT (	189.00, -102.00)	GC	48.	30.63243	(88011516)	AT (	189.00, -302.00)	GC
24.	37.63951c	(88092224)	AT (	289.00, -302.00)	GC	49.	30.45657	(88012516)	AT (	289.00, -202.00)	GC
25.	37.55987	(88021316)	AT (	289.00, -202.00)	GC	50.	29.64007	(88100416)	AT (	289.00, -302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 205.66786	ON 88120922:	AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 90.73301	ON 88021608:	AT (289.00, -202.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1843 Informational Message(s)

A Total of 1843 Calm Hours Identified

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1989

```
** The results for this run are in file 24ST89A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1989 Met CO
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  24ERRA89.OUT
CO FINISHED

SO STARTING
   LOCATION  2401  POINT  189.02    -102.44

** Point Source       QS     HS     TS     VS     DS
** Parameters:       ----   ----   ----   ----   ---
   SRCPARAM  2401    1.351  17.68  718.1 13.85  2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72

SO LOCATION GEN01  POINT    224.09    -158.54

** Parameters      QS     HS     TS      VS      DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.305  6.10  830.93  45.49    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26   11.58   11.58    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   22.64   19.61   15.93   16.15
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   16.44   16.43   15.93   16.15
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -1011 25 100 -1302  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  24RAM89.ASC
   ANEMHGHT  10
   SURFDATA  12816  1989  GAINESVILLE
   UAIRDATA  12842  1989  TAMPA
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST
   MAXTABLE  ALLAVE  50
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

**MODELOPTs: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 625 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: 24st89a.IN
**Output Print File: 24st89a.OUT
**Detailed Error/Message File: 24ERRA89.OUT

**MODELOPTs: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.13510E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.30500E+00	224.1	-158.5	0.0	6.10	830.93	45.49	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	17.6,	0	2	11.6,	20.9,	0	3	11.6,	23.6,	0	4	11.6,	25.6,	0	5	11.6,	26.8,	0	6	11.6,	27.2,	0
7	11.6,	26.8,	0	8	11.6,	25.5,	0	9	11.6,	24.7,	0	10	11.6,	26.4,	0	11	11.6,	27.3,	0	12	11.6,	27.3,	0
13	11.6,	26.5,	0	14	11.6,	25.0,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	11.6,	16.0,	0	18	11.6,	13.7,	0
19	11.6,	17.6,	0	20	11.6,	20.9,	0	21	11.6,	23.6,	0	22	11.6,	25.6,	0	23	11.6,	26.8,	0	24	11.6,	27.2,	0
25	11.6,	26.8,	0	26	11.6,	25.5,	0	27	11.6,	24.7,	0	28	11.6,	26.4,	0	29	11.6,	27.3,	0	30	11.6,	27.3,	0
31	11.6,	26.5,	0	32	11.6,	25.0,	0	33	11.6,	22.6,	0	34	11.6,	19.6,	0	35	11.6,	16.0,	0	36	11.6,	13.7,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.9,	0	2	5.3,	17.2,	0	3	5.3,	16.9,	0	4	5.3,	16.1,	0	5	5.3,	14.8,	0	6	5.3,	13.1,	0
7	5.3,	11.0,	0	8	0.0,	0.0,	0	9	5.3,	7.0,	0	10	5.3,	9.5,	0	11	5.3,	11.7,	0	12	5.3,	13.5,	0
13	5.3,	15.0,	0	14	5.3,	15.9,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	5.3,	15.9,	0	18	5.3,	16.1,	0
19	5.3,	16.9,	0	20	5.3,	17.2,	0	21	5.3,	16.9,	0	22	5.3,	16.1,	0	23	5.3,	14.8,	0	24	5.3,	13.1,	0
25	5.3,	11.0,	0	26	0.0,	0.0,	0	27	5.3,	7.0,	0	28	5.3,	9.5,	0	29	5.3,	11.7,	0	30	5.3,	13.5,	0
31	5.3,	15.0,	0	32	5.3,	15.9,	0	33	5.3,	16.4,	0	34	5.3,	16.4,	0	35	5.3,	15.9,	0	36	5.3,	16.1,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-1011.0, -911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0,
-11.0, 89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0,
989.0, 1089.0, 1189.0, 1289.0, 1389.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1302.0, -1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0,
-302.0, -202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0,
698.0, 798.0, 898.0, 998.0, 1098.0,

**MODELOPTs: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44

**MODELOPTs: CONC   RURAL FLAT   DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: 24RAM89.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1989 YEAR: 1989

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
89	1	1	1	291.0	0.00	290.9	4	999.5	999.5	0.0000	0.0	0.0000	0	0.00
89	1	1	2	88.0	3.09	292.6	4	999.1	999.1	0.0000	0.0	0.0000	0	0.00
89	1	1	3	94.0	2.57	293.2	4	998.8	998.8	0.0000	0.0	0.0000	0	0.00
89	1	1	4	93.0	2.57	293.2	4	998.4	998.4	0.0000	0.0	0.0000	0	0.00
89	1	1	5	63.0	2.57	293.7	4	998.1	998.1	0.0000	0.0	0.0000	0	0.00
89	1	1	6	2.0	2.57	293.7	4	997.7	997.7	0.0000	0.0	0.0000	0	0.00
89	1	1	7	45.0	2.57	293.7	4	997.4	997.4	0.0000	0.0	0.0000	0	0.00
89	1	1	8	13.0	3.09	293.7	4	997.1	997.1	0.0000	0.0	0.0000	0	0.00
89	1	1	9	17.0	3.60	294.3	4	996.7	996.7	0.0000	0.0	0.0000	0	0.00
89	1	1	10	81.0	4.12	295.9	4	996.4	996.4	0.0000	0.0	0.0000	0	0.00
89	1	1	11	84.0	4.12	295.9	4	996.0	996.0	0.0000	0.0	0.0000	0	0.00
89	1	1	12	86.0	6.17	298.2	4	995.7	995.7	0.0000	0.0	0.0000	0	0.00
89	1	1	13	93.0	5.14	299.3	4	995.3	995.3	0.0000	0.0	0.0000	0	0.00
89	1	1	14	99.0	7.72	299.8	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	15	112.0	7.72	299.8	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	16	94.0	5.14	298.2	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	17	111.0	7.20	296.5	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	18	87.0	3.60	295.9	4	993.6	993.6	0.0000	0.0	0.0000	0	0.00
89	1	1	19	64.0	2.57	294.3	5	990.2	979.7	0.0000	0.0	0.0000	0	0.00
89	1	1	20	107.0	2.57	294.8	5	986.8	968.8	0.0000	0.0	0.0000	0	0.00
89	1	1	21	100.0	2.57	294.8	5	983.3	957.8	0.0000	0.0	0.0000	0	0.00
89	1	1	22	102.0	2.57	294.3	5	979.9	946.9	0.0000	0.0	0.0000	0	0.00
89	1	1	23	100.0	2.06	294.3	5	976.5	935.9	0.0000	0.0	0.0000	0	0.00
89	1	1	24	100.0	2.57	294.3	4	973.0	973.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	12.21990 (89072023)	12.66268 (89061704)	12.48237 (89042403)	13.18709 (89123108)	11.24573 (89123108)
998.0	12.74754 (89021501)	12.55078 (89072023)	12.78679 (89061704)	13.01772 (89042403)	14.29968 (89123108)
898.0	12.47704 (89060121)	12.92963 (89021501)	12.78581 (89072023)	12.41046 (89061704)	12.63957 (89032824)
798.0	13.08787 (89021423)	13.26919 (89060121)	12.80875 (89021501)	12.86082 (89072023)	11.30958 (89061704)
698.0	13.27261 (89121506)	11.97528 (89032904)	13.15304 (89060121)	12.22570 (89021501)	12.68189 (89072023)
598.0	13.07268 (89012519)	13.33418 (89021522)	12.61561 (89030601)	12.47947 (89120722)	12.72642 (89090518)
498.0	12.74264 (89090323)	13.61302 (89012520)	12.68841 (89082922)	13.50059 (89022021)	14.06791 (89030220)
398.0	12.66884 (89021621)	13.53230 (89022023)	14.29905 (89072206)	14.02076 (89072206)	15.12524 (89083009)
298.0	12.75505 (89110320)	12.67764 (89040121)	13.18994 (89062208)	14.00255 (89032808)	17.28331 (89072206)
198.0	13.47981 (89041621)	13.24214 (89012821)	13.70569 (89042219)	14.58677 (89032618)	16.73231 (89011103)
98.0	13.38233 (89012420)	12.77258 (89082516)	14.05009 (89020409)	15.67883 (89051315)	17.56460 (89062309)
-2.0	12.34239 (89050421)	12.66632 (89043003)	14.42454 (89072719)	16.07723 (89072719)	17.98792 (89082808)
-102.0	13.03541 (89032821)	13.14904 (89032821)	14.57524 (89101603)	16.22532 (89071020)	18.36719 (89071020)
-202.0	15.70158 (89072306)	16.51655 (89072306)	17.33091 (89072306)	17.96017 (89072306)	18.39368 (89090617)
-302.0	10.52908 (89090321)	12.06659 (89090321)	13.58725 (89090321)	14.82493 (89090321)	15.91163 (89110118)
-402.0	11.04048 (89110118)	12.00646 (89022001)	13.11280 (89092512)	14.60544 (89092512)	17.05987 (89112707)
-502.0	13.18379 (89021704)	13.69704 (89112707)	13.90962 (89112707)	13.58902 (89041004)	16.96941 (89043014)
-602.0	12.41750 (89072601)	12.55827 (89090723)	14.46763 (89043014)	14.60781 (89090414)	15.38729 (89021910)
-702.0	12.65401 (89110521)	13.13749 (89102420)	13.10488 (89051322)	13.74499 (89021807)	13.85153 (89092806)
-802.0	12.89520 (89051322)	12.91401 (89090820)	11.93850 (89101406)	12.24201 (89101604)	13.44409 (89111217)
-902.0	13.17249 (89101406)	12.56657 (89092021)	12.27853 (89091320)	12.80392 (89072022)	13.34644 (89051319)
-1002.0	12.36463 (89113020)	12.80055 (89111823)	13.12986 (89072022)	12.48012 (89050321)	13.33494 (89112423)
-1102.0	12.72463 (89111823)	12.60224 (89072423)	12.52820 (89050321)	13.36167 (89112423)	12.53860 (89121623)
-1202.0	12.55727 (89072423)	12.12083 (89050321)	13.16061 (89112423)	11.93604 (89121623)	13.11955 (89102520)
-1302.0	11.46872 (89050321)	12.82361 (89112423)	11.59368 (89102419)	13.08628 (89102520)	11.97237 (89051103)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	11.80768 (89072003)	13.03165 (89010604)	11.55767 (89082323)	12.67827 (89061406)	13.58823 (89060608)
998.0	11.32653 (89071303)	11.71511 (89062002)	12.86056 (89010603)	12.07920 (89022805)	13.90945 (89060608)
898.0	14.62160 (89123108)	11.94800 (89080921)	12.53193 (89010604)	13.11054 (89082323)	14.47029 (89041507)
798.0	14.71809 (89123108)	13.49331 (89123108)	12.98960 (89032308)	14.18248 (89040511)	14.84805 (89120904)
698.0	13.05022 (89052008)	16.92781 (89123108)	14.56560 (89080921)	15.23775 (89032308)	16.45848 (89061709)
598.0	12.74721 (89123010)	15.37697 (89052008)	17.81712 (89123108)	16.94441 (89080921)	17.70539 (89040511)
498.0	15.21712 (89090518)	15.05366 (89112521)	18.03565 (89081121)	18.54883 (89090318)	20.10026 (89072107)
398.0	16.06799 (89030220)	18.23355 (89090518)	18.27603 (89112521)	21.28156 (89091518)	22.34542 (89092518)
298.0	17.47533 (89090218)	19.44568 (89030313)	21.16554 (89090518)	22.82480 (89040318)	25.82311 (89010717)
198.0	18.19715 (89032808)	21.02137 (89072206)	23.21151 (89093018)	26.04061 (89101617)	29.79017 (89122914)
98.0	19.48545 (89042219)	21.72694 (89043019)	24.85751 (89030412)	28.66412 (89030217)	34.23885 (89022018)
-2.0	20.19226 (89062708)	22.74927 (89021610)	26.25556 (89021418)	31.32058 (89112519)	38.83823 (89051919)
-102.0	20.43721 (89071020)	22.87085 (89070919)	27.42252 (89062519)	32.86821 (89062619)	41.92217 (89041819)
-202.0	20.46403 (89090617)	23.08238 (89121013)	27.03674 (89081219)	30.63054 (89092816)	30.52201 (89092816)
-302.0	18.44688 (89110118)	19.90623 (89051917)	25.89454 (89121807)	31.65886 (89090815)	39.45447 (89091111)
-402.0	19.42274 (89120117)	22.00386 (89081115)	24.57042 (89031707)	29.00015 (89122006)	35.13371 (89101515)
-502.0	18.96168 (89090414)	20.35674 (89112708)	23.38074 (89092806)	26.35562 (89090507)	30.38398 (89101208)
-602.0	16.93216 (89021807)	18.92881 (89101604)	21.34078 (89101607)	23.89095 (89101514)	26.35476 (89080920)
-702.0	16.62821 (89101604)	18.21287 (89081918)	19.63524 (89103017)	21.16200 (89030121)	23.13711 (89111916)
-802.0	15.56096 (89081918)	16.70107 (89103017)	18.06242 (89030204)	19.74568 (89072406)	20.52301 (89101605)
-902.0	14.20517 (89103017)	15.45000 (89062117)	17.15129 (89072406)	17.75102 (89090606)	18.74414 (89103114)
-1002.0	13.37458 (89062117)	13.85192 (89052901)	15.06991 (89101006)	16.04894 (89101605)	16.69981 (89111918)
-1102.0	13.32781 (89102519)	13.81200 (89072406)	13.77370 (89090606)	14.52575 (89090605)	15.05692 (89101517)
-1202.0	12.89333 (89072406)	11.97975 (89070207)	12.64917 (89101605)	13.17871 (89102306)	14.82315 (89092304)
-1302.0	11.86397 (89101403)	12.04953 (89121622)	13.61391 (89102305)	12.50552 (89102406)	12.51754 (89092304)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	11.35373 (89060808)	11.49581 (89112208)	13.14509 (89092605)	12.59133 (89040324)	12.89893 (89082404)
998.0	12.46436 (89060808)	12.65158 (89031507)	13.22737 (89092605)	13.84537 (89091618)	12.74375 (89060509)
898.0	13.09022 (89060608)	14.02910 (89031507)	13.68187 (89042908)	15.20127 (89091618)	13.96945 (89042007)
798.0	16.57067 (89060608)	15.32208 (89062318)	15.49071 (89042908)	16.55825 (89091618)	15.61701 (89032307)
698.0	18.86649 (89060608)	17.68700 (89062318)	17.59646 (89060807)	17.71425 (89020709)	17.32029 (89121910)
598.0	18.80942 (89020707)	19.28175 (89060808)	19.88234 (89060807)	19.88429 (89020510)	18.89109 (89120902)
498.0	20.80382 (89120904)	21.58553 (89060808)	22.69942 (89061507)	22.39259 (89100118)	20.44420 (89032209)
398.0	24.25675 (89121921)	25.53854 (89043001)	26.28550 (89082309)	25.83430 (89040409)	25.02020 (89031506)
298.0	27.80579 (89072107)	30.59580 (89092209)	31.73041 (89073120)	31.65725 (89081819)	29.56896 (89050120)
198.0	33.79620 (89092601)	37.21696 (89100107)	40.15501 (89010814)	39.60232 (89100709)	36.04993 (89051408)
98.0	40.57225 (89062017)	48.97688 (89022111)	54.17843 (89120820)	49.23174 (89100110)	46.36284 (89111524)
-2.0	49.12011 (89032718)	66.40523 (89030515)	81.68192 (89100116)	77.46003 (89031413)	60.57249 (89020612)
-102.0	57.30637 (89090416)	86.23771 (89062316)	136.84375 (89021312)	124.85260 (89050116)	75.53485 (89020715)
-202.0	34.36060 (89102516)	89.16044 (89052819)	154.95280 (89031013)	141.44373 (89101912)	76.09570 (89010310)
-302.0	50.12444 (89052817)	65.35258 (89092711)	79.80632 (89102315)	207.61212 (89111006)	62.80536 (89022516)
-402.0	42.39555 (89090418)	49.92035 (89092818)	56.45491 (89032217)	138.50710 (89051701)	121.34116 (89100221)
-502.0	34.78349 (89052909)	38.58505 (89090320)	41.28954 (89041101)	40.95652 (89101002)	97.06204 (89111005)
-602.0	29.39378 (89080818)	31.43102 (89083118)	32.24343 (89080915)	32.14247 (89081007)	83.65459 (89010504)
-702.0	24.87435 (89101601)	25.90704 (89122001)	26.87825 (89080923)	26.55612 (89092309)	67.33752 (89122703)
-802.0	21.71772 (89101207)	22.69439 (89090608)	23.06299 (89103015)	23.02044 (89090706)	59.13089 (89020922)
-902.0	19.32686 (89081003)	19.97206 (89052906)	20.26130 (89090708)	19.84676 (89021824)	26.16900 (89020922)
-1002.0	17.44566 (89050319)	17.95942 (89072319)	18.07767 (89090604)	18.07889 (89081510)	17.73866 (89101103)
-1102.0	15.63632 (89103018)	16.04136 (89070101)	16.17715 (89090604)	16.18954 (89081510)	15.26211 (89101103)
-1202.0	14.07959 (89091318)	14.18709 (89070101)	14.46739 (89090604)	14.38404 (89081510)	13.31335 (89092006)
-1302.0	12.50613 (89101307)	12.68868 (89102521)	13.74672 (89120323)	13.25988 (89090804)	13.89722 (89120103)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	12.48025 (89082204)	12.52774 (89022724)	13.33791 (89121523)	12.73285 (89042223)	12.87874 (89022723)
998.0	12.09894 (89071801)	12.95709 (89022724)	12.54221 (89010621)	13.23199 (89080723)	10.37203 (89110905)
898.0	10.91162 (89031506)	13.39038 (89091617)	12.79194 (89031505)	12.36246 (89022723)	11.66609 (89040907)
798.0	13.75299 (89031506)	13.17093 (89091617)	12.82340 (89080723)	13.36458 (89110905)	13.58487 (89121606)
698.0	15.49684 (89031504)	15.85712 (89031505)	14.13187 (89120823)	15.31437 (89121606)	12.17917 (89032918)
598.0	19.00071 (89091617)	16.92968 (89071707)	17.05836 (89040907)	14.87745 (89032918)	13.60741 (89031411)
498.0	19.29177 (89061808)	18.95401 (89120823)	18.21255 (89082418)	16.55946 (89031411)	16.32975 (89071408)
398.0	23.98780 (89071707)	22.43761 (89060819)	19.66759 (89031411)	19.17035 (89071408)	17.14154 (89090311)
298.0	27.17797 (89041510)	23.68530 (89061308)	22.64416 (89010107)	20.48868 (89090118)	18.67448 (89112610)
198.0	32.31276 (89062419)	28.83003 (89071910)	25.10227 (89072008)	21.61010 (89052608)	19.44243 (89031501)
98.0	38.79786 (89061817)	32.31714 (89051018)	27.21329 (89052408)	23.68230 (89110709)	20.94176 (89030416)
-2.0	46.16649 (89060919)	35.97852 (89060909)	28.84150 (89032320)	25.16800 (89061409)	19.94494 (89061409)
-102.0	37.67994 (89051219)	28.52187 (89010110)	24.29368 (89020418)	23.89983 (89061019)	21.97482 (89061019)
-202.0	51.43111 (89121302)	39.15554 (89051619)	31.27918 (89081610)	25.78121 (89081619)	22.27821 (89010103)
-302.0	46.54902 (89120220)	36.78614 (89083109)	30.20458 (89100718)	25.36837 (89052609)	21.94901 (89061118)
-402.0	39.74023 (89100317)	60.97939 (89112908)	28.02951 (89070417)	24.06387 (89063002)	20.78516 (89022208)
-502.0	33.26570 (89052319)	29.10832 (89032412)	41.51391 (89112908)	35.34926 (89112908)	20.16553 (89071318)
-602.0	74.87426 (89011719)	25.45220 (89090208)	23.09903 (89071317)	24.15342 (89112908)	37.06321 (89112908)
-702.0	69.06256 (89111005)	61.70837 (89111207)	21.27697 (89031007)	19.57057 (89070418)	17.80165 (89011817)
-802.0	59.55212 (89072502)	56.56950 (89051703)	35.85244 (89111207)	18.10399 (89031007)	16.63070 (89070418)
-902.0	55.02517 (89010504)	52.98621 (89111005)	50.98839 (89010424)	15.91035 (89013108)	15.45208 (89031007)
-1002.0	48.48159 (89102203)	47.97994 (89010503)	46.08477 (89050721)	46.95111 (89111207)	13.86113 (89013108)
-1102.0	45.79694 (89020922)	45.83753 (89063021)	42.53821 (89111005)	36.51219 (89051703)	35.62503 (89111207)
-1202.0	42.22581 (89020922)	40.51021 (89031606)	39.52176 (89011621)	37.61293 (89121323)	35.67065 (89010424)
-1302.0	25.39875 (89020922)	37.53482 (89102203)	36.36655 (89072502)	36.35677 (89090324)	34.04203 (89051703)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	11.73335 (89062421)	12.52692 (89022722)	12.27776 (89071723)	12.43970 (89061002)	12.66839 (89121519)
998.0	12.27214 (89092203)	13.04171 (89073122)	12.67571 (89061002)	12.69517 (89121519)	12.73710 (89022623)
898.0	13.25008 (89071701)	13.03562 (89111520)	12.77242 (89122801)	13.04356 (89022621)	12.62375 (89071401)
798.0	13.12590 (89111520)	12.89323 (89122801)	13.27396 (89022621)	12.69202 (89071401)	12.25579 (89050922)
698.0	12.32762 (89122801)	13.29869 (89022621)	12.18865 (89071401)	11.53034 (89040904)	10.13902 (89031322)
598.0	13.96392 (89071408)	12.99487 (89090311)	10.98363 (89022704)	12.46516 (89031322)	13.48051 (89122723)
498.0	15.03990 (89090311)	13.28568 (89042718)	12.43782 (89112610)	12.47208 (89022701)	13.03379 (89050622)
398.0	16.28012 (89042718)	14.70960 (89052608)	13.47953 (89080802)	12.84371 (89031323)	12.81986 (89101819)
298.0	16.90256 (89061208)	14.12818 (89031501)	14.10519 (89090319)	12.53691 (89020208)	13.14400 (89051221)
198.0	18.24006 (89090319)	15.00188 (89020208)	14.72527 (89081609)	12.40306 (89081609)	12.20935 (89071522)
98.0	17.94234 (89031408)	15.63832 (89112811)	13.83683 (89061409)	12.88099 (89070518)	11.69355 (89070518)
-2.0	16.98071 (89070518)	16.26601 (89052519)	14.37147 (89052519)	12.11963 (89052519)	10.21185 (89110123)
-102.0	19.28096 (89061019)	16.62840 (89061019)	14.27355 (89061019)	12.35534 (89061019)	12.58120 (89112105)
-202.0	19.83192 (89080919)	17.74550 (89080919)	15.72546 (89080919)	13.95950 (89080919)	13.11759 (89080702)
-302.0	19.42684 (89112810)	16.46377 (89052509)	15.54966 (89052509)	13.99462 (89052509)	12.27698 (89052509)
-402.0	18.79631 (89020406)	16.98520 (89060407)	15.26303 (89112617)	13.68727 (89051021)	13.39114 (89020320)
-502.0	18.34137 (89081809)	16.24938 (89092318)	14.67260 (89100618)	13.95525 (89101904)	12.45594 (89022522)
-602.0	20.83068 (89112908)	15.67919 (89071318)	14.22503 (89071815)	12.13420 (89081809)	12.50591 (89041522)
-702.0	30.15386 (89112908)	26.53412 (89112908)	13.57073 (89112908)	13.79915 (89012707)	13.36765 (89122422)
-802.0	15.23517 (89110216)	22.42225 (89112908)	26.38630 (89112908)	18.80245 (89112908)	12.78533 (89041924)
-902.0	14.17247 (89070418)	13.63233 (89010405)	16.24983 (89112908)	23.19318 (89112908)	20.97274 (89112908)
-1002.0	13.60734 (89100206)	13.86551 (89011704)	13.81958 (89010405)	13.31314 (89112823)	19.16775 (89112908)
-1102.0	12.67671 (89122504)	12.67887 (89112406)	13.70013 (89011704)	13.77286 (89122401)	13.63692 (89012402)
-1202.0	19.57531 (89111207)	14.05952 (89122504)	13.16193 (89121319)	13.33424 (89011704)	13.72822 (89122401)
-1302.0	37.11769 (89111207)	13.22329 (89102124)	13.95090 (89122504)	13.22047 (89121319)	13.00953 (89022505)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	4.18134 (89022108)	3.46823 (89032908)	3.27369 (89032908)	2.31215 (89030308)	2.69464c(89082208)
998.0	4.61481 (89022108)	4.44675 (89022108)	3.57720 (89032908)	2.88505c(89041508)	2.45847 (89030308)
898.0	4.20979 (89022108)	4.91321 (89022108)	4.73189 (89022108)	3.60742c(89110808)	3.16835c(89041508)
798.0	4.83105c(89030608)	4.38694 (89022108)	5.22818 (89022108)	5.03323 (89022108)	3.53328c(89110808)
698.0	5.65778c(89022024)	5.44815c(89022024)	4.52011 (89022108)	5.54768 (89022108)	5.33830 (89022108)
598.0	3.25027 (89030416)	4.58091c(89021524)	6.27875c(89022024)	4.64982c(89030608)	5.84342 (89022108)
498.0	3.75782 (89030416)	4.10281 (89030416)	3.78600 (89030416)	6.22200c(89022024)	4.78232c(89022024)
398.0	3.92158c(89011424)	3.76801 (89030416)	4.85432 (89030416)	5.17310 (89030416)	5.42215c(89021524)
298.0	5.91472c(89012824)	4.83735c(89012824)	4.66020c(89112524)	4.92153 (89030416)	6.60888 (89030416)
198.0	4.83692 (89021424)	6.12424 (89021424)	6.69738c(89012824)	6.36795c(89012824)	6.06468c(89112524)
98.0	4.13858 (89011024)	4.57295c(89030108)	5.30082c(89030108)	5.58510c(89030108)	6.71533 (89021424)
-2.0	4.81167 (89021924)	5.48274 (89021924)	6.15526 (89021924)	6.76324 (89021924)	7.17671 (89021924)
-102.0	5.13447c(89053024)	4.96770c(89053024)	4.70343c(89053024)	4.87019 (89021824)	5.72597 (89021824)
-202.0	4.17650 (89030208)	4.59287 (89030208)	5.06206 (89030208)	5.59384 (89030208)	6.14376 (89030208)
-302.0	5.98333c(89053108)	6.01970c(89053108)	5.58160c(89053108)	5.73445 (89031924)	6.32268 (89031924)
-402.0	3.71733 (89031924)	3.55415c(89110124)	3.73605 (89052924)	4.18941 (89011124)	4.59534 (89011124)
-502.0	3.16978c(89021708)	3.20956 (89051808)	3.21911 (89051808)	3.78671 (89051324)	4.51611 (89021908)
-602.0	3.14785 (89051324)	3.80557 (89051324)	3.56936 (89021908)	3.63265 (89021908)	5.15330 (89021916)
-702.0	2.85163c(89110524)	2.87647 (89051324)	3.88351 (89021916)	4.18120 (89021916)	4.29518 (89121816)
-802.0	3.17751 (89051324)	3.42407 (89021916)	3.07563 (89041216)	4.17916 (89121816)	5.06374 (89121816)
-902.0	2.59855 (89021916)	2.80795 (89121816)	3.82100 (89121816)	4.05061 (89121816)	4.14477 (89101224)
-1002.0	2.76845 (89121816)	3.37436 (89121816)	3.25430 (89121816)	3.59677 (89101224)	3.81866 (89090424)
-1102.0	3.55864c(89062208)	3.75156c(89072624)	3.15454 (89101224)	3.32570 (89090424)	3.64210 (89081008)
-1202.0	3.99325c(89072624)	2.79308 (89101224)	3.16741c(89101424)	3.42997c(89101424)	3.95803 (89102524)
-1302.0	2.53809 (89090424)	3.05608c(89101424)	3.32518c(89101424)	3.78076 (89102524)	3.48355c(89090908)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	2.72516 (89092524)	3.55268c(89010608)	2.06929 (89100108)	2.93384c(89101808)	2.68271c(89043008)
998.0	2.92394 (89092524)	2.63256 (89092524)	3.26034c(89010608)	2.05283c(89022808)	3.16477c(89071908)
898.0	2.65237 (89092524)	3.28418 (89092524)	3.40125c(89010608)	2.33790 (89100108)	3.49571c(89101808)
798.0	3.36589c(89041508)	3.30538 (89092524)	3.28044 (89092524)	2.71208c(89010608)	2.67582c(89060616)
698.0	3.95217c(89041508)	3.35875c(89041508)	3.97024 (89092524)	3.05594c(89072224)	2.76423c(89060524)
598.0	5.62229 (89022108)	4.80522c(89041508)	3.80564 (89092524)	4.16422 (89092524)	3.34833c(89072224)
498.0	6.04822 (89022108)	5.77871 (89022108)	5.77792c(89041508)	4.77195 (89092524)	4.37919c(89072224)
398.0	5.80519c(89022024)	5.91932 (89022108)	6.04974c(89123016)	6.49350c(89041508)	5.25536 (89092524)
298.0	6.66134 (89030416)	6.65472 (89032308)	6.82914 (89030516)	7.66110c(89123016)	6.72139 (89092524)
198.0	6.84901 (89030416)	9.62775 (89030416)	8.23985 (89030416)	9.58633 (89030516)	9.96430c(89123016)
98.0	7.46622c(89012824)	7.87278c(89112524)	10.08433 (89030416)	14.59928 (89030416)	13.06481 (89030516)
-2.0	8.08432 (89011024)	9.72040c(89030108)	9.56065c(89030108)	10.56848c(89012516)	14.48916 (89030416)
-102.0	6.76409 (89021824)	8.52737 (89021924)	11.31395 (89021924)	14.37225 (89021924)	15.78968 (89021924)
-202.0	6.64168 (89030208)	6.94050 (89030208)	6.92990 (89031924)	9.99092 (89031924)	13.85963 (89031924)
-302.0	6.46213 (89031924)	6.01394 (89011124)	8.09755 (89011124)	10.16502 (89121824)	11.11013 (89101316)
-402.0	5.05014 (89121824)	5.32180 (89021908)	6.15029 (89021908)	10.25651 (89021724)	18.06979 (89121816)
-502.0	4.81973 (89021908)	7.11974 (89021916)	8.27609 (89041216)	12.32405 (89121816)	11.19290 (89090424)
-602.0	5.02580 (89021916)	7.60593 (89121816)	8.06693 (89121816)	8.38277 (89090424)	10.51313 (89122024)
-702.0	6.32385 (89121816)	5.79727 (89101224)	6.57451 (89090424)	7.95028 (89122024)	11.94976 (89041124)
-802.0	4.84209 (89101224)	5.33539 (89090424)	5.94476 (89122024)	7.94811 (89041124)	8.57461 (89041124)
-902.0	4.45461 (89090424)	4.89365 (89081008)	5.37295 (89122024)	7.80190 (89041124)	5.98535 (89042108)
-1002.0	4.21628 (89081008)	4.44169 (89122024)	6.00774 (89041124)	5.59627 (89041124)	4.69900c(89103116)
-1102.0	3.72515 (89122024)	4.52775 (89041124)	5.45263 (89041124)	4.51559 (89042108)	3.86229c(89122008)
-1202.0	3.45068c(89090908)	4.65308 (89041124)	4.09407 (89042108)	3.66769c(89103116)	3.77653c(89122008)
-1302.0	3.78988 (89041124)	4.08328 (89041124)	3.55041 (89042108)	2.99140c(89103116)	3.77937 (89041208)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	3.67270c(89041508)	4.71196c(89041508)	3.99722c(89070624)	4.59842c(89033008)	3.23609c(89032108)
998.0	3.65713c(89041508)	5.34859c(89041508)	4.17144c(89070624)	4.67872c(89033008)	3.51711c(89062024)
898.0	4.07166c(89043008)	6.02561c(89041508)	4.33574c(89070624)	4.77168c(89033008)	3.85549c(89062024)
798.0	4.32664c(89043008)	6.70136c(89041508)	4.46052c(89070624)	4.88831c(89033008)	3.97194c(89062024)
698.0	4.09322c(89043008)	7.26251c(89041508)	4.64697 (89060908)	5.04340c(89033008)	3.97558 (89092616)
598.0	4.49066c(89070624)	7.46876c(89041508)	5.62492c(89080224)	5.19915c(89033008)	4.22700c(89111516)
498.0	4.46644c(89060616)	8.07289c(89010816)	6.91600c(89080224)	5.25228c(89033008)	6.48913c(89111516)
398.0	4.54439c(89060524)	7.98282c(89010816)	8.63635c(89041508)	6.48806 (89120816)	9.54419 (89031508)
298.0	6.65991c(89072224)	8.24513c(89070624)	10.87480c(89041508)	8.38727 (89040416)	9.68701 (89031508)
198.0	8.37248 (89022116)	9.34399 (89093016)	16.28724c(89010816)	11.12004 (89040416)	12.39417 (89112224)
98.0	15.11252 (89032816)	11.78478 (89030616)	26.52229c(89010816)	16.58152c(89111516)	17.06586 (89123124)
-2.0	17.55412 (89030416)	26.40627 (89030516)	31.50815c(89010816)	29.88508 (89112224)	23.01995 (89033108)
-102.0	20.25508c(89011408)	34.73908c(89012516)	34.29666 (89021316)	40.06644 (89033108)	25.12766 (89051016)
-202.0	21.10427 (89051816)	28.19536 (89051816)	66.36350 (89102716)	55.66537 (89121316)	31.33548 (89010316)
-302.0	23.98701 (89041216)	30.10993 (89102716)	26.67620 (89122316)	68.83632c(89111008)	27.93950 (89010416)
-402.0	15.59339 (89090424)	26.16717 (89041124)	18.49779 (89122316)	27.44585 (89122324)	38.62396c(89100224)
-502.0	17.71614 (89041124)	14.00312 (89012208)	15.56261 (89041208)	20.75906 (89122324)	33.85813c(89111008)
-602.0	14.58078 (89041124)	10.82000 (89041208)	13.30733c(89090708)	13.00651 (89122108)	19.35131c(89112008)
-702.0	8.24573 (89012208)	12.15503 (89041208)	13.29478c(89090708)	10.05960 (89122108)	14.92815 (89020924)
-802.0	6.10346c(89122008)	12.21055 (89041208)	12.37677c(89090708)	7.50420 (89122108)	13.73649 (89020924)
-902.0	6.05713 (89041208)	11.05781 (89041208)	11.20745c(89090708)	5.61503 (89122108)	10.03881 (89122324)
-1002.0	6.25705 (89041208)	9.44995 (89041208)	10.03766c(89090708)	4.77018 (89041108)	8.02732 (89122324)
-1102.0	6.35950 (89041208)	7.87005 (89041208)	8.95165c(89090708)	4.15793 (89041108)	6.05796 (89122324)
-1202.0	6.28791 (89041208)	6.53959 (89041208)	7.99453c(89090708)	3.64411 (89041108)	5.56721 (89113008)
-1302.0	6.01657 (89041208)	5.46755 (89041208)	7.17970c(89090708)	3.77150 (89112408)	5.43489 (89113008)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	2.85156c(89062024)	3.40798 (89031508)	3.40970 (89121524)	2.72502c(89032108)	3.19775c(89071708)
998.0	2.44113c(89111516)	3.90440 (89031508)	3.22770c(89071708)	2.99449c(89122808)	2.67548c(89071808)
898.0	3.43729 (89031508)	4.12515 (89031508)	3.10460c(89032108)	3.33343c(89071708)	3.09080c(89060308)
798.0	4.68388 (89031508)	3.97228 (89031508)	3.21533c(89071708)	3.18876c(89071808)	3.25327 (89123124)
698.0	5.85120 (89031508)	3.47379 (89031508)	3.47257c(89060624)	3.72507 (89123124)	4.15336c(89111524)
598.0	6.28889 (89031508)	3.68577 (89112224)	4.21481 (89123124)	3.96612c(89111524)	4.24900 (89031416)
498.0	5.51279 (89031508)	4.56648c(89060624)	5.24326 (89123124)	5.08589 (89031416)	4.23216 (89031416)
398.0	6.17367 (89112224)	6.80384 (89123124)	6.03681 (89031416)	5.39641 (89031416)	3.65235 (89032116)
298.0	8.12256 (89123124)	6.74350 (89031416)	7.15366 (89031416)	4.72647 (89032116)	5.11923 (89051008)
198.0	9.89189 (89123124)	9.87515 (89031416)	6.48410 (89051008)	6.12497c(89052608)	7.40914 (89031408)
98.0	14.15353 (89031416)	8.42082 (89032116)	7.75889 (89031408)	10.18304 (89031408)	7.09448 (89031408)
-2.0	14.50808 (89052416)	12.21911 (89031408)	7.01352 (89032324)	6.13405 (89110916)	6.50473 (89110916)
-102.0	16.34835 (89110916)	13.60321 (89110916)	9.00111 (89110916)	6.80391c(89081524)	5.49152c(89081524)
-202.0	32.22399 (89010316)	20.21815 (89010316)	13.46517 (89013024)	12.05671 (89013024)	10.36587 (89013024)
-302.0	21.10991 (89030716)	18.31914 (89011608)	17.29677 (89011608)	10.08883c(89010208)	7.09904 (89010316)
-402.0	17.40388 (89010416)	21.22406 (89022216)	14.65221 (89030716)	10.70021 (89011608)	12.72490 (89011608)
-502.0	20.79119 (89030824)	11.65183 (89030924)	14.74567 (89022216)	12.18633 (89022216)	9.43599 (89030716)
-602.0	21.60736 (89031008)	15.46148 (89030824)	9.84494 (89030924)	9.21800 (89022216)	10.95581 (89022216)
-702.0	22.09494c(89111008)	19.41670c(89100224)	11.13019 (89030824)	8.10684 (89030924)	8.65380 (89012308)
-802.0	12.96293c(89010508)	15.25242 (89031008)	9.84008c(89100224)	8.20819 (89030824)	6.68692 (89030924)
-902.0	11.23627c(89010508)	16.15255c(89111008)	14.37520c(89121408)	7.76055 (89030824)	6.72260 (89030924)
-1002.0	10.22650c(89102208)	12.44499c(89111008)	10.50286c(89121324)	12.76672c(89100224)	6.55266 (89030824)
-1102.0	10.93749 (89020924)	10.33573c(89112008)	12.55854c(89111008)	10.77542 (89031008)	8.94006c(89100224)
-1202.0	9.07468 (89020924)	7.88929c(89102208)	11.72482c(89111008)	8.62112c(89121324)	10.64749c(89121408)
-1302.0	5.78849 (89111724)	7.73356c(89102208)	7.71438c(89112008)	10.16272c(89111008)	9.05724 (89031008)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	2.75346c(89060308)	2.95502c(89092208)	3.25838c(89111524)	3.00856c(89111524)	3.83163 (89121524)
998.0	3.34128c(89092208)	3.21610 (89040824)	3.44531c(89111524)	3.74529 (89121524)	3.65440 (89121524)
898.0	3.11694 (89022724)	3.85089c(89111524)	3.56380c(89122624)	3.74247 (89121524)	3.21742c(89071408)
798.0	4.12369c(89111524)	3.58970c(89122624)	3.78900 (89121524)	3.30758c(89071408)	3.47961 (89050924)
698.0	3.60930 (89031416)	3.76835 (89121524)	3.29803c(89071408)	3.22762 (89050924)	2.96546 (89033024)
598.0	3.64368 (89121524)	3.41389 (89050924)	2.84652 (89050924)	3.53744 (89033024)	3.93357c(89022708)
498.0	3.57443 (89050924)	3.47352 (89051008)	4.04615 (89033024)	3.70471 (89033024)	4.15638 (89031408)
398.0	4.36961 (89051008)	4.25597 (89033024)	4.49996 (89031408)	5.30913 (89031408)	4.92819 (89031408)
298.0	4.47769 (89031408)	6.34899 (89031408)	6.08387 (89031408)	4.87813 (89031408)	3.69422 (89050608)
198.0	7.78943 (89031408)	5.93588 (89031408)	4.04273 (89031408)	4.07734 (89042824)	3.72922 (89052308)
98.0	4.32555 (89042824)	3.81975 (89031324)	3.67146 (89052308)	3.37136 (89052308)	3.70195c(89122524)
-2.0	6.09556 (89110916)	5.29324 (89110916)	4.60736 (89020124)	4.19984 (89020124)	3.72217 (89020124)
-102.0	4.69567 (89080624)	4.64554 (89080624)	4.95467 (89031308)	5.67021 (89031308)	6.17762 (89031308)
-202.0	8.81606 (89013024)	7.51022 (89013024)	6.44281 (89013024)	5.62662 (89013024)	4.96797 (89013024)
-302.0	6.74794 (89010316)	6.00944 (89010316)	5.20986 (89010316)	4.50585 (89010316)	4.09400 (89112024)
-402.0	10.96658 (89011608)	8.23738c(89010208)	5.91676c(89010208)	5.65172c(89020324)	5.52466c(89020324)
-502.0	6.54587 (89011608)	8.18853 (89011608)	8.45378 (89011608)	7.44474 (89011608)	6.03595c(89010208)
-602.0	7.34404 (89030716)	6.46858 (89030716)	4.93485c(89041524)	5.52637c(89041524)	6.15909 (89011608)
-702.0	8.57541 (89022216)	7.21984 (89022216)	5.51298 (89030716)	5.31341c(89012624)	5.61977c(89122424)
-802.0	7.65482 (89012308)	6.41920 (89022216)	6.57424 (89022216)	4.99519 (89022216)	5.28433c(89042508)
-902.0	5.60495 (89030924)	6.56229 (89012308)	5.61188 (89012308)	5.59925 (89022216)	4.89783 (89022216)
-1002.0	5.77707 (89030924)	5.53686c(89022508)	5.57411 (89012308)	5.66730 (89012308)	4.60843 (89022216)
-1102.0	5.51590 (89030824)	5.02080c(89050724)	5.77938c(89022508)	4.84432 (89122408)	5.72304c(89122508)
-1202.0	6.04082c(89100224)	4.65486 (89030824)	4.77144c(89012408)	5.87391c(89022508)	4.72538 (89122408)
-1302.0	9.58082c(89100224)	4.21564c(89100224)	4.46321c(89100308)	4.67920c(89012408)	5.86525c(89022508)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	207.61212	(89111006)	AT (	289.00, -302.00)	GC	26.	129.16689	(89102914)	AT (	189.00, -202.00)	GC
2.	202.26495	(89110407)	AT (	289.00, -302.00)	GC	27.	128.07062	(89051024)	AT (	289.00, -302.00)	GC
3.	201.38168	(89102302)	AT (	289.00, -302.00)	GC	28.	127.76283	(89111612)	AT (	289.00, -202.00)	GC
4.	181.57849	(89011621)	AT (	289.00, -302.00)	GC	29.	125.01884	(89122119)	AT (	289.00, -402.00)	GC
5.	177.77396	(89051104)	AT (	289.00, -302.00)	GC	30.	124.85260	(89050116)	AT (	289.00, -102.00)	GC
6.	171.73912	(89051623)	AT (	289.00, -302.00)	GC	31.	124.09616	(89083122)	AT (	289.00, -302.00)	GC
7.	160.54839	(89010503)	AT (	289.00, -302.00)	GC	32.	121.34116	(89100221)	AT (	389.00, -402.00)	GC
8.	158.76117	(89122123)	AT (	289.00, -302.00)	GC	33.	121.06152	(89122703)	AT (	289.00, -402.00)	GC
9.	154.95280	(89031013)	AT (	189.00, -202.00)	GC	34.	120.90160	(89072706)	AT (	289.00, -302.00)	GC
10.	151.77946	(89012115)	AT (	189.00, -202.00)	GC	35.	120.48721	(89021103)	AT (	289.00, -402.00)	GC
11.	150.75183	(89052816)	AT (	189.00, -202.00)	GC	36.	120.40439	(89052723)	AT (	389.00, -402.00)	GC
12.	142.69720	(89102712)	AT (	189.00, -202.00)	GC	37.	120.33207	(89092104)	AT (	289.00, -302.00)	GC
13.	142.53088	(89020910)	AT (	189.00, -202.00)	GC	38.	120.30432	(89021903)	AT (	289.00, -302.00)	GC
14.	142.51073	(89052719)	AT (	289.00, -302.00)	GC	39.	120.30432	(89030924)	AT (	289.00, -302.00)	GC
15.	141.94661	(89111005)	AT (	289.00, -302.00)	GC	40.	120.11828	(89010502)	AT (	289.00, -402.00)	GC
16.	141.44373	(89101912)	AT (	289.00, -202.00)	GC	41.	119.96641	(89041124)	AT (	189.00, -202.00)	GC
17.	141.42986	(89102014)	AT (	289.00, -202.00)	GC	42.	119.55222	(89021203)	AT (	289.00, -402.00)	GC
18.	139.11566	(89072707)	AT (	289.00, -302.00)	GC	43.	119.05322	(89022317)	AT (	289.00, -202.00)	GC
19.	138.82570	(89120308)	AT (	289.00, -202.00)	GC	44.	118.89890	(89120918)	AT (	289.00, -202.00)	GC
20.	138.61357	(89042106)	AT (	289.00, -302.00)	GC	45.	117.19461	(89032415)	AT (	289.00, -302.00)	GC
21.	138.50710	(89051701)	AT (	289.00, -402.00)	GC	46.	116.70139	(89110306)	AT (	289.00, -402.00)	GC
22.	136.84375	(89021312)	AT (	189.00, -102.00)	GC	47.	116.38789	(89111602)	AT (	289.00, -102.00)	GC
23.	133.07324	(89042107)	AT (	289.00, -302.00)	GC	48.	115.87420	(89011809)	AT (	289.00, -302.00)	GC
24.	132.09073	(89052905)	AT (	289.00, -302.00)	GC	49.	115.60828	(89022223)	AT (	289.00, -202.00)	GC
25.	130.25900	(89081403)	AT (	289.00, -302.00)	GC	50.	115.56812	(89121314)	AT (	289.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	68.83632c	(89111008)	AT (	289.00, -302.00)	GC	26.	31.39748	(89032716)	AT (	189.00, -102.00)	GC
2.	66.36350	(89102716)	AT (	189.00, -202.00)	GC	27.	31.33548	(89010316)	AT (	389.00, -202.00)	GC
3.	55.66537	(89121316)	AT (	289.00, -202.00)	GC	28.	30.96072	(89012716)	AT (	289.00, -202.00)	GC
4.	43.33621c	(89072708)	AT (	289.00, -302.00)	GC	29.	30.86584	(89102508)	AT (	289.00, -302.00)	GC
5.	42.69324	(89111616)	AT (	289.00, -202.00)	GC	30.	30.50065	(89050916)	AT (	289.00, -102.00)	GC
6.	42.10528	(89120924)	AT (	289.00, -202.00)	GC	31.	30.33012c	(89071116)	AT (	289.00, -202.00)	GC
7.	40.08358c	(89011816)	AT (	289.00, -302.00)	GC	32.	30.28925c	(89051024)	AT (	289.00, -302.00)	GC
8.	40.06644	(89033108)	AT (	289.00, -102.00)	GC	33.	30.10993	(89102716)	AT (	89.00, -302.00)	GC
9.	38.62396c	(89100224)	AT (	389.00, -402.00)	GC	34.	29.88508	(89112224)	AT (	289.00, -2.00)	GC
10.	37.24284	(89052816)	AT (	189.00, -202.00)	GC	35.	29.53976	(89102916)	AT (	189.00, -202.00)	GC
11.	36.32995	(89050216)	AT (	289.00, -202.00)	GC	36.	29.35112	(89091816)	AT (	189.00, -202.00)	GC
12.	35.77579	(89101916)	AT (	289.00, -202.00)	GC	37.	29.22786	(89050716)	AT (	289.00, -202.00)	GC
13.	35.16498	(89092416)	AT (	189.00, -202.00)	GC	38.	29.21195	(89011516)	AT (	389.00, -202.00)	GC
14.	34.73908c	(89012516)	AT (	89.00, -102.00)	GC	39.	29.19497	(89022224)	AT (	289.00, -202.00)	GC
15.	34.66071	(89022716)	AT (	289.00, -102.00)	GC	40.	28.82683	(89102016)	AT (	289.00, -202.00)	GC
16.	34.29666	(89021316)	AT (	189.00, -102.00)	GC	41.	28.76911c	(89102308)	AT (	289.00, -302.00)	GC
17.	34.00422	(89122116)	AT (	289.00, -302.00)	GC	42.	28.46717	(89102516)	AT (	189.00, -202.00)	GC
18.	33.96085	(89042108)	AT (	289.00, -302.00)	GC	43.	28.31723	(89031008)	AT (	289.00, -302.00)	GC
19.	33.85813c	(89111008)	AT (	389.00, -502.00)	GC	44.	28.19536	(89051816)	AT (	89.00, -202.00)	GC
20.	33.71096c	(89110408)	AT (	289.00, -302.00)	GC	45.	28.19327	(89032116)	AT (	289.00, -102.00)	GC
21.	32.45030	(89020824)	AT (	289.00, -302.00)	GC	46.	28.19250	(89040216)	AT (	189.00, -102.00)	GC
22.	32.25270	(89022516)	AT (	289.00, -302.00)	GC	47.	28.14132	(89021908)	AT (	289.00, -302.00)	GC
23.	32.22399	(89010316)	AT (	489.00, -202.00)	GC	48.	28.06742	(89100116)	AT (	289.00, -2.00)	GC
24.	32.12114c	(89102208)	AT (	289.00, -302.00)	GC	49.	27.93950	(89010416)	AT (	389.00, -302.00)	GC
25.	31.50815c	(89010816)	AT (	189.00, -2.00)	GC	50.	27.44585	(89122324)	AT (	289.00, -402.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	207.61212	ON 89111006: AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	68.83632c	ON 89111008: AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1956 Informational Message(s)

A Total of 1956 Calm Hours Identified

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1990

```
** The results for this run are in file 24ST90A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1990 Met CO
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  24ERRA90.OUT
CO FINISHED

SO STARTING
   LOCATION  2401  POINT  189.02    -102.44

** Point Source       QS     HS     TS     VS     DS
** Parameters:       ----   ----   ----   ----   ---
   SRCPARAM  2401    1.351  17.68  718.1 13.85  2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72

SO LOCATION GEN01  POINT    224.09    -158.54

** Parameters      QS     HS    TS      VS      DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN01  0.305  6.10  830.93  45.49    0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26   11.58   11.58    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   22.64   19.61   15.93   16.15
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   16.44   16.43   15.93   16.15
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -1011 25 100 -1302  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  24RAM90.ASC
   ANEMHGHT  10
   SURFDATA  12816  1990  GAINESVILLE
   UAIRDATA  12842  1990  TAMPA
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST
   MAXTABLE  ALLAVE  50
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

**MODELOPTs: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 625 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: 24st90a.IN
**Output Print File: 24st90a.OUT
**Detailed Error/Message File: 24ERRA90.OUT

**MODELOPTs: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.13510E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.30500E+00	224.1	-158.5	0.0	6.10	830.93	45.49	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	17.6,	0	2	11.6,	20.9,	0	3	11.6,	23.6,	0	4	11.6,	25.6,	0	5	11.6,	26.8,	0	6	11.6,	27.2,	0
7	11.6,	26.8,	0	8	11.6,	25.5,	0	9	11.6,	24.7,	0	10	11.6,	26.4,	0	11	11.6,	27.3,	0	12	11.6,	27.3,	0
13	11.6,	26.5,	0	14	11.6,	25.0,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	11.6,	16.0,	0	18	11.6,	13.7,	0
19	11.6,	17.6,	0	20	11.6,	20.9,	0	21	11.6,	23.6,	0	22	11.6,	25.6,	0	23	11.6,	26.8,	0	24	11.6,	27.2,	0
25	11.6,	26.8,	0	26	11.6,	25.5,	0	27	11.6,	24.7,	0	28	11.6,	26.4,	0	29	11.6,	27.3,	0	30	11.6,	27.3,	0
31	11.6,	26.5,	0	32	11.6,	25.0,	0	33	11.6,	22.6,	0	34	11.6,	19.6,	0	35	11.6,	16.0,	0	36	11.6,	13.7,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.9,	0	2	5.3,	17.2,	0	3	5.3,	16.9,	0	4	5.3,	16.1,	0	5	5.3,	14.8,	0	6	5.3,	13.1,	0
7	5.3,	11.0,	0	8	0.0,	0.0,	0	9	5.3,	7.0,	0	10	5.3,	9.5,	0	11	5.3,	11.7,	0	12	5.3,	13.5,	0
13	5.3,	15.0,	0	14	5.3,	15.9,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	5.3,	15.9,	0	18	5.3,	16.1,	0
19	5.3,	16.9,	0	20	5.3,	17.2,	0	21	5.3,	16.9,	0	22	5.3,	16.1,	0	23	5.3,	14.8,	0	24	5.3,	13.1,	0
25	5.3,	11.0,	0	26	0.0,	0.0,	0	27	5.3,	7.0,	0	28	5.3,	9.5,	0	29	5.3,	11.7,	0	30	5.3,	13.5,	0
31	5.3,	15.0,	0	32	5.3,	15.9,	0	33	5.3,	16.4,	0	34	5.3,	16.4,	0	35	5.3,	15.9,	0	36	5.3,	16.1,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-1011.0, -911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0,
-11.0, 89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0,
989.0, 1089.0, 1189.0, 1289.0, 1389.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1302.0, -1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0,
-302.0, -202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0,
698.0, 798.0, 898.0, 998.0, 1098.0,

*** ISCST3 - VERSION 98356 *** *** FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1990 Met CO *** 11/26/99
*** Building height = 38' *** 14:19:24
PAGE 6

**MODELOPTs: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44

**MODELOPTs: CONC RURAL FLAT DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: 24RAM90.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1990 YEAR: 1990

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
90	1	1	1	31.0	5.14	293.2	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	2	68.0	3.60	292.6	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	3	84.0	6.69	292.6	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	4	53.0	4.12	292.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	5	83.0	5.66	291.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	6	112.0	4.63	291.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	7	115.0	5.14	290.4	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	8	123.0	6.69	287.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	9	127.0	6.17	286.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	10	151.0	6.17	285.9	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	11	164.0	6.17	285.4	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	12	176.0	6.17	285.9	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	13	173.0	6.69	286.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	14	169.0	6.17	286.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	15	172.0	4.12	286.5	3	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	16	154.0	5.14	286.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	17	201.0	3.60	285.4	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	18	197.0	3.09	283.7	5	25.4	16.5	0.0000	0.0	0.0000	0	0.00
90	1	1	19	204.0	2.06	282.6	6	89.6	58.1	0.0000	0.0	0.0000	0	0.00
90	1	1	20	177.0	2.57	280.9	6	153.8	99.6	0.0000	0.0	0.0000	0	0.00
90	1	1	21	170.0	2.57	279.8	6	218.0	141.2	0.0000	0.0	0.0000	0	0.00
90	1	1	22	162.0	2.06	279.3	6	282.1	182.8	0.0000	0.0	0.0000	0	0.00
90	1	1	23	170.0	2.06	277.6	6	346.3	224.4	0.0000	0.0	0.0000	0	0.00
90	1	1	24	190.0	2.06	277.6	6	410.5	266.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	13.41235 (90062521)	12.88217 (90031504)	12.58167 (90051303)	12.95404 (90090923)	13.07677 (90051304)
998.0	12.54755 (90020206)	12.90202 (90062521)	13.25868 (90031504)	12.83253 (90071005)	13.52670 (90021524)
898.0	12.66707 (90021507)	12.35106 (90020206)	13.04695 (90031522)	13.18715 (90031504)	11.93951 (90071005)
798.0	13.07742 (90031503)	12.92232 (90042303)	11.78238 (90020206)	13.35171 (90031522)	12.87764 (90120402)
698.0	13.18151 (90031122)	13.40965 (90052623)	12.90481 (90052622)	11.10735 (90040703)	13.43841 (90031522)
598.0	12.88858 (90031501)	13.23105 (90101101)	12.65853 (90031506)	13.48215 (90052622)	12.67985 (90112216)
498.0	13.35686 (90061821)	15.07325 (90071307)	13.41038 (90031501)	14.19124 (90031209)	14.12044 (90012008)
398.0	13.35137 (90100222)	13.58662 (90040922)	15.01216 (90071307)	17.42806 (90071307)	14.98319 (90010708)
298.0	12.65138 (90042422)	13.40793 (90051222)	13.18610 (90100222)	14.56812 (90062719)	18.77478 (90071307)
198.0	12.67478 (90040923)	13.19938 (90021420)	13.26646 (90093019)	15.14435 (90070907)	14.60147 (90070907)
98.0	13.15162 (90062522)	12.71781 (90112017)	14.14892 (90112617)	14.85576 (90112617)	17.08696 (90093019)
-2.0	13.38407 (90031423)	13.31462 (90030420)	14.21750 (90123105)	14.93034 (90123105)	17.82796 (90122006)
-102.0	13.07848 (90092924)	14.00381 (90092924)	14.90952 (90092924)	16.23451 (90090418)	18.37972 (90090418)
-202.0	13.29034 (90101520)	14.33298 (90010511)	15.46086 (90010511)	16.52987 (90010511)	18.23053 (90123003)
-302.0	12.72584 (90071906)	13.68538 (90071906)	14.38384 (90071906)	15.11287 (90090518)	16.58341 (90122208)
-402.0	10.70241 (90042601)	12.49880 (90071806)	13.87737 (90071806)	14.54250 (90062607)	17.16429 (90013124)
-502.0	12.75177 (90110120)	13.54254 (90060106)	13.66774 (90081007)	14.91079 (90090408)	16.86164 (90010513)
-602.0	12.82658 (90022521)	13.34927 (90020521)	13.21719 (90060906)	13.12446 (90083108)	14.31056 (90122904)
-702.0	12.53067 (90070321)	13.11196 (90111419)	13.14795 (90110820)	13.88214 (90060617)	16.02423 (90060807)
-802.0	12.92875 (90110820)	12.93912 (90101619)	12.84990 (90110323)	13.25767 (90110323)	14.11789 (90092824)
-902.0	13.21557 (90042003)	13.24676 (90030524)	12.49713 (90042006)	12.93540 (90092422)	18.62801 (90030707)
-1002.0	12.86374 (90022522)	13.05498 (90103019)	13.24628 (90092422)	17.59214 (90030707)	19.98246 (90030707)
-1102.0	12.63177 (90103019)	13.09579 (90102003)	16.53802 (90030707)	18.07038 (90030707)	12.34536 (90122520)
-1202.0	12.74041 (90030624)	15.53331 (90030707)	16.50255 (90030707)	11.77688 (90122520)	13.15409 (90103021)
-1302.0	14.60295 (90030707)	15.19452 (90030707)	11.64580 (90111505)	13.11646 (90103021)	13.22351 (90102101)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	12.14299 (90122303)	13.54384 (90122202)	12.87634 (90122305)	12.65092 (90081023)	13.60582 (90032922)
998.0	13.05961 (90122222)	12.77228 (90012106)	11.41800 (90120324)	11.94271 (90122304)	13.61639 (90080908)
898.0	12.69788 (90020922)	12.55045 (90122303)	13.65230 (90122202)	13.35121 (90122224)	13.52278 (90080908)
798.0	13.00168 (90090923)	13.23613 (90051304)	13.69626 (90090118)	14.17678 (90120324)	13.53207 (90071108)
698.0	14.34323 (90120402)	14.00601 (90011917)	14.90105 (90121602)	15.48896 (90070808)	15.30476 (90123009)
598.0	13.15090 (90031522)	15.61151 (90120402)	16.37329 (90012109)	17.57876 (90070309)	17.69509 (90120324)
498.0	15.15095 (90112216)	15.53084 (90123012)	17.25214 (90021716)	18.44054 (90020208)	19.84998 (90070808)
398.0	16.12235 (90012008)	18.13160 (90112216)	19.05929 (90123012)	21.04721 (90081408)	22.94973 (90112809)
298.0	19.23891 (90071307)	18.72625 (90072015)	21.00751 (90112216)	23.51562 (90123012)	26.02413 (90070719)
198.0	18.78942 (90062719)	23.89892 (90071307)	23.23388 (90073019)	25.93508 (90013012)	29.26271 (90071308)
98.0	18.83730 (90060519)	20.95282 (90070907)	24.78403 (90062718)	29.23385 (90071307)	34.03696 (90051301)
-2.0	20.11608 (90071803)	22.24196 (90112617)	26.19201 (90062608)	31.46134 (90051920)	38.98304 (90051420)
-102.0	20.45425 (90090418)	23.32186 (90042909)	27.52133 (90071015)	32.95980 (90101718)	42.04667 (90081220)
-202.0	20.24234 (90123003)	23.32179 (90050907)	26.56507 (90050907)	30.70009 (90090318)	31.06088 (90110412)
-302.0	17.74262 (90122208)	20.10070 (90071806)	25.73404 (90041815)	31.23779 (90011615)	39.52360 (90101715)
-402.0	19.52392 (90081007)	21.66457 (90090408)	25.02354 (90062508)	28.82022 (90110408)	33.85107 (90030806)
-502.0	17.96602 (90083108)	20.25453 (90122904)	22.97090 (90110809)	26.31007 (90040909)	34.80209 (90030707)
-602.0	17.90903 (90021817)	19.59496 (90071607)	21.18990 (90080508)	32.73021 (90030707)	26.29066 (90100708)
-702.0	16.66587 (90060920)	19.71424 (90030707)	28.92953 (90030707)	21.32669 (90092818)	22.91843 (90122903)
-802.0	19.47913 (90030707)	25.32898 (90030707)	17.27549 (90121517)	19.25858 (90061618)	19.06243 (90050609)
-902.0	22.35785 (90030707)	15.34361 (90013121)	16.68055 (90111616)	16.44409 (90122903)	18.24630 (90110709)
-1002.0	13.29741 (90013121)	14.31155 (90080920)	14.93296 (90012208)	13.96326 (90061807)	16.87737 (90070317)
-1102.0	13.32781 (90111522)	14.32095 (90092608)	12.79607 (90111321)	14.39593 (90110709)	14.98683 (90042305)
-1202.0	13.45954 (90041123)	12.60807 (90111322)	13.22294 (90090423)	13.17944 (90093013)	13.64244 (90111117)
-1302.0	12.64905 (90111322)	13.51321 (90111321)	12.65235 (90102924)	13.81206 (90120504)	13.70058 (90030704)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	12.04452 (90042821)	13.00645 (90072018)	12.34870 (90071407)	18.60780 (90071407)	10.61602 (90022222)
998.0	13.12829 (90021323)	13.88085 (90072018)	12.95331 (90071407)	19.70259 (90071407)	12.32477 (90022222)
898.0	13.00674 (90062416)	14.44984 (90072018)	14.31992 (90090909)	20.82846 (90071407)	13.99616 (90022222)
798.0	15.49720 (90062416)	14.42135 (90072018)	16.00955 (90090909)	21.92221 (90071407)	15.28714 (90022222)
698.0	17.18930 (90080908)	15.47751 (90112803)	17.90714 (90090909)	22.85762 (90071407)	15.76062 (90041508)
598.0	18.50142 (90060219)	19.26917 (90112803)	19.85691 (90090909)	23.39221 (90071407)	18.86900 (90041508)
498.0	21.07509 (90071108)	21.56800 (90112803)	22.76405 (90082109)	23.07586 (90071407)	21.29971 (90082209)
398.0	24.19779 (90052616)	24.18980 (90030918)	26.10133 (90082109)	26.06788 (90071418)	25.34482 (90062413)
298.0	28.03746 (90011710)	28.98505 (90071119)	31.41340 (90020318)	30.49873 (90071418)	30.01814 (90120407)
198.0	33.17694 (90042807)	37.61910 (90123008)	40.11876 (90071520)	39.49247 (90071215)	44.07295 (90082309)
98.0	41.33139 (90050917)	48.65284 (90050924)	54.42360 (90060216)	53.46701 (90051916)	46.90815 (90082115)
-2.0	49.93649 (90122113)	67.37747 (90031117)	81.20731 (90021513)	77.56771 (90021613)	60.51128 (90020914)
-102.0	57.49762 (90091318)	85.56641 (90072517)	160.61563 (90110912)	115.79227 (90012917)	75.07142 (90052818)
-202.0	33.95680 (90120114)	88.61456 (90061216)	154.95280 (90041821)	138.35999 (90032014)	76.68189 (90102315)
-302.0	50.24155 (90081118)	68.08412 (90041823)	84.37003 (90012610)	204.82767 (90041121)	62.12241 (90092311)
-402.0	42.09060 (90111501)	48.51817 (90092822)	55.31836 (90021717)	141.42639 (90012222)	121.10362 (90111903)
-502.0	34.57025 (90081519)	36.74184 (90101020)	40.56002 (90012617)	40.88065 (90032018)	96.32662 (90102323)
-602.0	29.10392 (90010510)	31.23707 (90013106)	31.07920 (90012617)	32.18120 (90112913)	82.00491 (90103105)
-702.0	25.09689 (90051418)	26.03181 (90021719)	26.64365 (90062223)	26.81906 (90102311)	68.26799 (90083102)
-802.0	21.35767 (90042305)	22.54526 (90040106)	22.98467 (90021723)	22.82422 (90090715)	58.60997 (90102624)
-902.0	19.31356 (90111117)	19.86830 (90092318)	19.74435 (90021723)	20.16979 (90110605)	25.96494 (90102624)
-1002.0	17.31389 (90093009)	18.00283 (90102111)	17.16535 (90061617)	18.58065 (90050706)	17.41026 (90071619)
-1102.0	15.14219 (90093009)	16.26740 (90081508)	16.00043 (90101508)	17.54906 (90050706)	15.92304 (90102817)
-1202.0	13.13431 (90040722)	14.23698 (90051419)	15.00934 (90101508)	16.40896 (90050706)	14.29336 (90072118)
-1302.0	13.54616 (90022601)	13.76161 (90012707)	13.97433 (90101508)	15.28064 (90050706)	13.88235 (90022604)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	12.18080 (90121609)	12.45737 (90082223)	13.16730 (90050605)	13.81042 (90082309)	13.25336 (90082309)
998.0	13.69151 (90121609)	11.87928 (90060323)	11.95584 (90062204)	16.42000 (90082309)	13.54762 (90082310)
898.0	14.23595 (90121609)	13.41220 (90062420)	15.30198 (90082309)	15.03237 (90082309)	16.74265 (90082310)
798.0	15.19802 (90010515)	13.54468 (90062204)	19.53314 (90082309)	17.39839 (90082310)	13.70180 (90082310)
698.0	15.92048 (90062413)	16.73022 (90082309)	17.28272 (90082309)	18.76300 (90082310)	13.62835 (90072219)
598.0	19.05171 (90062420)	24.18044 (90082309)	22.63777 (90082310)	16.25797 (90072219)	14.29658 (90081609)
498.0	20.43702 (90060308)	20.07387 (90082310)	18.79883 (90010506)	17.52473 (90081609)	19.59771 (90082407)
398.0	31.75516 (90082309)	27.50931 (90082310)	20.84469 (90081609)	22.39360 (90082407)	17.54425 (90012524)
298.0	30.33572 (90082310)	25.19466 (90051308)	25.61304 (90082407)	20.25994 (90010911)	17.71315 (90083018)
198.0	32.14457 (90051006)	28.86931 (90082407)	25.05892 (90062310)	21.56782 (90083018)	17.64872 (90040208)
98.0	38.97120 (90070314)	31.99470 (90080715)	26.58481 (90040210)	23.89966 (90062107)	20.40663 (90010619)
-2.0	45.73711 (90051007)	36.64307 (90082218)	28.88521 (90112314)	24.99499 (90040211)	19.81370 (90050104)
-102.0	41.51558 (90070120)	28.60758 (90020716)	24.76598 (90061919)	22.37063 (90040304)	19.29656 (90040304)
-202.0	51.08205 (90040216)	39.08759 (90083008)	30.48230 (90121919)	25.96617 (90091610)	22.44117 (90091610)
-302.0	44.31731 (90031721)	36.94102 (90072317)	30.10824 (90102417)	24.59231 (90010614)	21.81222 (90021104)
-402.0	39.49220 (90102617)	33.05371 (90092209)	27.71357 (90061608)	23.01124 (90090216)	20.55504 (90123017)
-502.0	36.98163 (90060215)	27.92271 (90081809)	25.23527 (90122409)	22.50368 (90031918)	19.76057 (90080108)
-602.0	78.58319 (90120422)	25.61984 (90041618)	23.17834 (90081809)	22.19670 (90122409)	18.91482 (90040704)
-702.0	67.67891 (90070705)	65.44614 (90111903)	19.55655 (90082909)	18.86607 (90080219)	17.93194 (90122409)
-802.0	59.56732 (90011321)	56.93584 (90110504)	36.04858 (90111903)	16.63845 (90082909)	16.18522 (90080219)
-902.0	54.29201 (90103105)	52.16860 (90070705)	49.82426 (90072722)	14.88308 (90100417)	13.85466 (90082909)
-1002.0	50.89556 (90032101)	49.95198 (90032103)	46.11290 (90102401)	46.13469 (90033122)	13.74145 (90120902)
-1102.0	45.51543 (90102624)	44.29273 (90120621)	42.72684 (90111823)	44.32161 (90050804)	35.08137 (90033122)
-1202.0	41.98958 (90102624)	43.34970 (90020301)	43.05542 (90042104)	37.61293 (90011405)	39.52618 (90120423)
-1302.0	25.26874 (90102624)	39.19164 (90032101)	41.02522 (90011321)	37.22962 (90111823)	38.16932 (90121701)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	14.21428 (90082310)	11.12378 (90082310)	12.23742 (90060324)	9.86013 (90110524)	11.13128 (90091605)
998.0	14.12229 (90082310)	13.08437 (90060324)	11.69871 (90110524)	11.45694 (90091605)	12.52499 (90082402)
898.0	13.34653 (90122321)	13.08273 (90110524)	11.47312 (90091605)	12.85116 (90082402)	13.22252 (90082407)
798.0	13.18063 (90110524)	11.00079 (90091605)	13.87945 (90082407)	14.14627 (90082407)	12.43809 (90070202)
698.0	11.73043 (90081609)	15.39790 (90082407)	15.10611 (90082407)	12.52604 (90070202)	12.15215 (90070221)
598.0	17.27467 (90082407)	16.02452 (90082407)	12.34271 (90050502)	10.96384 (90120320)	11.64810 (90052122)
498.0	16.72611 (90082407)	13.17902 (90120320)	12.10952 (90083018)	12.94644 (90052122)	12.54619 (90050124)
398.0	16.12199 (90120320)	14.69511 (90083018)	13.07685 (90050124)	11.98179 (90012420)	12.73209 (90070124)
298.0	17.25288 (90081708)	14.10415 (90081615)	14.01534 (90081615)	12.84017 (90060419)	13.06795 (90021622)
198.0	17.80249 (90081615)	16.24165 (90010619)	14.51770 (90010909)	13.18031 (90062318)	12.31555 (90043023)
98.0	18.80636 (90062318)	15.63832 (90040211)	13.78683 (90050104)	11.47869 (90073119)	10.41960 (90020601)
-2.0	17.03103 (90063019)	16.22723 (90070419)	14.34213 (90070419)	12.09770 (90070419)	10.52113 (90102307)
-102.0	16.76463 (90010501)	15.47999 (90010501)	13.98752 (90010501)	13.28397 (90022424)	13.41452 (90022424)
-202.0	19.19955 (90123113)	17.18794 (90112324)	15.54031 (90112324)	14.02697 (90112324)	13.46293 (90010820)
-302.0	18.84064 (90082723)	16.22475 (90112322)	14.12282 (90121017)	12.90538 (90052023)	13.19988 (90080122)
-402.0	19.06769 (90020217)	15.59167 (90070418)	15.31421 (90070418)	13.74601 (90020718)	13.45832 (90061606)
-502.0	18.21876 (90101308)	16.46686 (90072308)	15.36096 (90111209)	13.81824 (90111209)	12.42258 (90121022)
-602.0	17.36007 (90073008)	14.33639 (90080108)	13.93869 (90101308)	12.79856 (90072308)	12.75627 (90040502)
-702.0	16.20607 (90082518)	13.49668 (90121104)	13.42085 (90120401)	12.53202 (90111301)	13.74358 (90011021)
-802.0	14.27221 (90122409)	14.42789 (90122409)	13.76985 (90121023)	13.76298 (90030323)	13.74686 (90111705)
-902.0	13.89418 (90080219)	13.07672 (90121103)	13.64537 (90122409)	13.78494 (90121322)	13.40998 (90010821)
-1002.0	13.73469 (90040323)	13.42148 (90072723)	12.48521 (90101303)	13.42543 (90012307)	12.23099 (90050806)
-1102.0	14.13381 (90120904)	13.44580 (90040323)	13.31927 (90072723)	13.18370 (90101303)	13.77756 (90012307)
-1202.0	19.31029 (90033122)	13.27210 (90120904)	13.56211 (90102502)	13.03564 (90030402)	13.20549 (90101303)
-1302.0	36.64694 (90033122)	13.12465 (90040324)	13.11005 (90111722)	13.36672 (90102502)	12.76189 (90030402)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	3.64044 (90031524)	3.37522c(90010524)	4.10171c(90010524)	3.51830c(90050924)	3.30950c(90051308)
998.0	3.14887 (90031524)	3.77179 (90031524)	3.93381c(90010524)	4.56255c(90010524)	3.75569c(90051308)
898.0	3.38392 (90021508)	3.20786 (90021508)	3.88512 (90031524)	4.63351c(90010524)	5.01339c(90010524)
798.0	3.84133 (90123008)	3.55523 (90123008)	3.45697 (90021508)	3.96385 (90031524)	5.51556c(90010524)
698.0	4.03647c(90091024)	3.90860 (90123008)	4.05496 (90123008)	3.69087 (90021508)	3.98230 (90031524)
598.0	2.65323 (90010708)	3.62072c(90091024)	3.58138 (90123008)	4.59100 (90123008)	4.01448 (90123008)
498.0	4.35146c(90092024)	3.16521c(90092024)	3.34152 (90010708)	3.62938c(90091024)	5.02921 (90123008)
398.0	5.32483c(90062724)	5.37999c(90062724)	4.15314c(90092024)	3.80828 (90010708)	4.09122 (90010708)
298.0	4.25554c(90031124)	3.90690c(90061224)	5.90821c(90062724)	6.40326c(90062724)	4.05901c(90062724)
198.0	4.69124c(90061324)	5.37573c(90061324)	4.64423c(90061324)	4.55704c(90031124)	6.54619c(90062724)
98.0	4.56438c(90122008)	4.42412c(90102124)	4.15804 (90031324)	5.24662c(90061324)	6.34379c(90061324)
-2.0	5.14593c(90030924)	5.30442c(90030424)	5.76073c(90030424)	5.60456c(90030424)	4.99312 (90071808)
-102.0	4.74833c(90012824)	4.53248c(90012824)	4.25844 (90071724)	4.32510 (90071724)	4.44126 (90122024)
-202.0	4.87888c(90012824)	4.83229c(90012824)	4.73685c(90012824)	4.57721c(90012824)	4.93092 (90110416)
-302.0	4.40711c(90071908)	4.32163c(90071908)	4.10537c(90071908)	3.89446 (90110416)	4.00308 (90071824)
-402.0	3.74306c(90072924)	3.81570c(90072924)	4.36750c(90032908)	4.94096c(90032908)	4.99744c(90032908)
-502.0	3.48844 (90091124)	3.33856 (90071824)	3.30677 (90120224)	3.67833 (90122108)	4.50017 (90122108)
-602.0	2.94102c(90033008)	3.37692c(90110424)	4.36811c(90110424)	4.00471 (90052508)	4.60852 (90122908)
-702.0	4.97793c(90110424)	4.46699 (90052508)	4.46068 (90052508)	4.24039 (90122908)	4.40748 (90020108)
-802.0	4.80130 (90052508)	3.53228 (90020108)	5.20532 (90020108)	3.70258c(90092924)	4.87842 (90122708)
-902.0	4.90786 (90020108)	4.37938 (90020108)	3.59688 (90110324)	4.52653 (90122708)	4.98774c(90091808)
-1002.0	3.21400 (90030524)	4.07681c(90020808)	4.20360c(90091808)	4.71125 (90102024)	5.15072 (90022624)
-1102.0	4.67429c(90020808)	4.31726c(90091808)	4.99785 (90102024)	4.85811 (90022624)	5.61690 (90032808)
-1202.0	4.26040c(90091808)	5.09511 (90102024)	4.58079 (90022624)	5.25344 (90032808)	3.84986 (90032808)
-1302.0	5.06231 (90102024)	4.32139 (90022624)	4.83980 (90032808)	4.25709 (90032808)	3.82889c(90102108)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	2.74450c(90011916)	3.29614c(90070908)	2.96666 (90031608)	3.83463 (90031608)	3.47320c(90070308)
998.0	2.87576c(90020208)	3.15950c(90011916)	2.61303 (90022208)	4.26123 (90031608)	3.47949c(90033108)
898.0	4.09595c(90051308)	3.24334c(90011916)	3.37087c(90070908)	4.08086 (90031608)	4.39167 (90031608)
798.0	5.37133c(90010524)	3.83586c(90051308)	3.98376c(90011916)	3.33504 (90022208)	5.49626 (90031608)
698.0	6.62659c(90010524)	5.47680c(90010524)	3.87274c(90011916)	4.17228c(90011916)	5.95609 (90031608)
598.0	4.43611c(90010524)	8.00754c(90010524)	5.09845c(90010524)	5.31556c(90011916)	4.89970 (90031608)
498.0	4.77117 (90123008)	5.55589c(90010524)	9.69180c(90010524)	4.75886c(90011916)	6.00774 (90022208)
398.0	5.04080 (90123008)	5.71804 (90123008)	7.15165c(90010524)	11.23443c(90010524)	7.49044c(90011916)
298.0	5.26800 (90010708)	5.54675c(90072016)	6.77500 (90123008)	9.43456c(90010524)	11.31921c(90010524)
198.0	7.88510c(90062724)	5.88079 (90010708)	6.87196 (90010708)	7.64420 (90123008)	12.55969c(90010524)
98.0	5.70480 (90022124)	7.26129 (90022124)	10.03022c(90062724)	8.93334 (90010708)	11.14660c(90072016)
-2.0	5.23354 (90071808)	6.30106c(90061324)	8.70669c(90061324)	11.82183 (90022124)	13.72393 (90022124)
-102.0	5.02719 (90101116)	6.05533 (90101116)	7.28996 (90101116)	8.54595 (90101116)	11.18079 (90042416)
-202.0	5.97161 (90110416)	7.26116 (90110416)	8.72367 (90110416)	9.92717 (90110416)	10.07035 (90110216)
-302.0	5.59284c(90032908)	7.57451c(90032908)	8.72143c(90032908)	11.88261 (90122624)	12.98819 (90122108)
-402.0	5.43044 (90122624)	6.57274 (90122108)	7.21501 (90122108)	11.30890 (90122816)	11.18492 (90022024)
-502.0	4.45405 (90122824)	6.79269 (90122816)	7.63508 (90122908)	9.87463 (90122708)	10.86608 (90041908)
-602.0	5.70546 (90122908)	5.47843 (90122908)	7.93656 (90122708)	7.52855 (90041908)	9.94866 (90122808)
-702.0	4.92816 (90110324)	6.12083 (90122708)	5.82944 (90022624)	7.43933 (90122808)	5.36807 (90113008)
-802.0	5.32509c(90091808)	5.70859 (90022624)	5.42684 (90122808)	5.13417 (90122708)	5.24534 (90110308)
-902.0	5.44713 (90022624)	5.71508 (90032808)	4.46910 (90122808)	4.16587 (90113008)	5.35302 (90030808)
-1002.0	5.82935 (90032808)	3.97139 (90122808)	3.98750 (90113008)	4.84899 (90110308)	4.51030 (90122608)
-1102.0	3.40466 (90122808)	4.01933c(90103124)	3.93173 (90110308)	3.66921 (90030808)	4.35093 (90122608)
-1202.0	3.98240c(90103124)	3.78903c(90092608)	4.32784 (90110308)	3.26106 (90030808)	3.94597 (90093016)
-1302.0	3.31175c(90092608)	3.83556 (90110308)	3.71479c(90041308)	3.34717c(90110208)	3.70045 (90093016)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	5.27677 (90021608)	5.55989 (90021608)	4.65871 (90071408)	5.12878 (90071408)	4.09982 (90071424)
998.0	4.97727 (90021608)	6.08491 (90021608)	5.05082 (90071408)	5.53835 (90071408)	4.31660 (90071424)
898.0	4.41965 (90021608)	6.61758 (90021608)	5.50824 (90071408)	5.99582 (90071408)	4.40749 (90071424)
798.0	5.21721c(90033108)	7.13316 (90021608)	6.05801 (90071408)	6.50870 (90071408)	4.29192 (90071424)
698.0	5.84200c(90033108)	7.46434 (90021608)	6.73718 (90071408)	7.33907 (90071424)	4.47171 (90121908)
598.0	7.00155 (90031608)	7.40485 (90021608)	7.54927 (90071408)	8.96548 (90071424)	5.19599 (90121908)
498.0	9.32683 (90031608)	8.32021c(90033108)	8.56061 (90071408)	10.92874 (90071424)	6.59081 (90062308)
398.0	8.70998 (90031608)	12.04984c(90033108)	9.86189 (90071408)	12.97157 (90071424)	8.73787 (90062308)
298.0	10.23546 (90022208)	13.76569 (90031608)	11.63853 (90071408)	14.04081 (90071424)	9.31869 (90062308)
198.0	10.71250c(90011916)	19.15292 (90031608)	14.19547c(90121416)	15.91860 (90121908)	18.16212c(90082424)
98.0	15.77429c(90010524)	20.40077 (90022208)	19.50183c(90121416)	21.07709 (90121908)	14.48267 (90091616)
-2.0	14.09459 (90122116)	24.58464 (90122916)	42.72444c(90033108)	27.58206 (90012516)	24.91671 (90020916)
-102.0	18.04482c(90061324)	32.84290 (90022124)	62.99158 (90110916)	44.59812 (90021016)	23.57856 (90043024)
-202.0	14.68839 (90030716)	34.83835 (90122624)	61.59874 (90041824)	53.09269 (90102516)	36.96691 (90052216)
-302.0	18.83441 (90122816)	28.65876 (90041824)	19.99098 (90012616)	56.89932c(90030508)	23.58906 (90120816)
-402.0	16.67434 (90041908)	13.58630 (90030808)	14.40191 (90122516)	33.08465c(90012224)	37.12276c(90052924)
-502.0	10.88889 (90122808)	13.65271 (90030808)	10.24778 (90022008)	16.01557 (90120808)	19.34783c(90090508)
-602.0	8.41683 (90030808)	10.83698 (90122608)	8.48869 (90021116)	12.37670 (90120808)	28.30382 (90102624)
-702.0	8.49439 (90030808)	9.02920 (90122608)	7.20808 (90021116)	8.95269 (90120808)	21.58240 (90102624)
-802.0	7.11108 (90122608)	7.88936 (90022008)	5.98012 (90021116)	7.78619 (90110608)	14.24901c(90012224)
-902.0	6.30790 (90122608)	6.75219 (90022008)	4.96130 (90021116)	7.20098 (90110608)	7.12021c(90012224)
-1002.0	5.43758 (90093016)	5.52000 (90022008)	4.15781 (90021116)	6.44844 (90110608)	5.85928 (90120808)
-1102.0	4.48291 (90122608)	4.52276 (90122608)	3.84493c(90050624)	5.70440 (90110608)	5.27152 (90040808)
-1202.0	4.08716 (90022608)	4.59841 (90122424)	3.92943c(90050624)	5.04577 (90110608)	4.74909c(90110724)
-1302.0	4.22420 (90022608)	4.62659 (90122424)	3.91606c(90050624)	4.48751 (90110608)	4.26738c(90110724)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	2.46654 (90121908)	2.96488c(90021908)	3.80030 (90050608)	3.17234c(90082424)	3.16236 (90122324)
998.0	2.62008 (90062308)	3.40570 (90050608)	3.13403c(90050508)	3.72228c(90101324)	3.92498c(90021908)
898.0	3.25431 (90062308)	3.77064 (90050608)	3.94420c(90082424)	3.59735 (90122324)	3.40453c(90010508)
798.0	3.97906 (90062308)	3.66300 (90071324)	4.56234c(90082424)	3.84653c(90021908)	3.62133c(90010508)
698.0	4.70826 (90062308)	5.02963c(90082424)	4.30894 (90082316)	3.94552c(90010508)	3.33198c(90010508)
598.0	5.10221 (90062308)	6.53470c(90082424)	4.92559 (90091616)	3.77070c(90010508)	3.27525c(90041108)
498.0	6.47501 (90071324)	5.55278 (90082316)	4.22100c(90010508)	3.91301c(90041108)	3.96307 (90082408)
398.0	10.34394c(90082424)	6.63860 (90091616)	4.53043 (90120324)	4.09658 (90082408)	5.31773 (90021016)
298.0	9.22093 (90091616)	6.12173 (90121824)	5.65749 (90020916)	7.26175 (90021016)	4.61242 (90021016)
198.0	7.68228 (90121824)	8.39689 (90020916)	9.88300 (90021016)	5.83933 (90121916)	5.11077 (90010724)
98.0	13.68839 (90020916)	12.55512 (90021016)	8.75638 (90121916)	6.32517c(90050124)	9.49769c(90050124)
-2.0	19.15288 (90121916)	10.00715c(90121216)	10.52614c(90050124)	6.63140c(90050108)	6.03294c(90062024)
-102.0	14.77591 (90051724)	9.69750 (90051724)	8.47577 (90012124)	7.89169 (90012124)	6.87750 (90012124)
-202.0	22.26540 (90111016)	16.10382 (90111016)	11.15674 (90111016)	7.96447 (90111016)	5.95762 (90010924)
-302.0	16.46220 (90102316)	13.08570 (90102316)	9.93862 (90052216)	8.68468 (90052216)	6.67435 (90052216)
-402.0	16.91403 (90120816)	8.63857 (90022416)	9.43525 (90102316)	7.70075 (90102316)	5.16896 (90102316)
-502.0	10.36222 (90020508)	11.28230 (90120816)	8.18288 (90120816)	5.21914 (90022416)	5.75134 (90102316)
-602.0	19.44773 (90120424)	7.18580 (90020508)	7.87768 (90120816)	6.76112 (90120816)	3.75649 (90102508)
-702.0	12.23071c(90082808)	19.31538c(90052924)	5.87424 (90020508)	5.77690 (90120816)	5.38981 (90120816)
-802.0	22.27353c(90030508)	13.60689c(90082808)	9.96271c(90052924)	5.05871 (90020508)	4.47018 (90012608)
-902.0	18.86101 (90102624)	9.55275c(90082808)	13.84143 (90120424)	6.79870 (90120908)	4.46810 (90020508)
-1002.0	15.46111 (90102624)	17.22963c(90030508)	11.65396c(90082808)	12.91493c(90052924)	5.88683c(90021208)
-1102.0	11.47828 (90102624)	12.05994c(90030508)	7.69490c(90082808)	10.32110 (90120424)	8.62775c(90052924)
-1202.0	8.22534c(90012224)	13.52470 (90102624)	12.42898c(90030508)	9.60578c(90082808)	9.89712 (90120424)
-1302.0	5.08964c(90012224)	11.62134 (90102624)	12.67948c(90030508)	6.36603c(90082808)	7.22432 (90120424)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	2.90659c(90021908)	3.00874c(90010508)	2.72199 (90110524)	2.23630c(90041108)	2.10443c(90021008)
998.0	3.35124c(90010508)	2.81493c(90010508)	2.45746c(90041108)	2.12499c(90021008)	3.02721 (90082408)
898.0	3.17449c(90010508)	2.77575 (90110524)	2.22817 (90021624)	3.19995 (90082408)	2.20493 (90082408)
798.0	2.96971c(90010508)	2.49527 (90021624)	3.38345 (90082408)	2.24526 (90082408)	2.53685 (90021016)
698.0	2.79736 (90021624)	3.57548 (90082408)	2.65066 (90021016)	2.89012 (90021016)	2.38225 (90021016)
598.0	3.77189 (90082408)	3.23353 (90021016)	3.30060 (90021016)	2.48506 (90021016)	3.31790 (90052124)
498.0	4.05456 (90021016)	3.74778 (90021016)	2.77406 (90052124)	3.74772 (90052124)	2.59755 (90052208)
398.0	4.18929 (90021016)	3.95093 (90052124)	3.10911 (90052124)	3.58098 (90070124)	4.05731 (90070124)
298.0	4.06495 (90121916)	3.69237 (90070124)	4.31278 (90070124)	6.45601c(90050124)	6.86157c(90050124)
198.0	4.81564c(90050124)	7.89980c(90050124)	7.48545c(90050124)	5.62638c(90050124)	4.63793 (90043024)
98.0	7.68011c(90050124)	5.20993c(90050108)	4.08668 (90043024)	3.52555c(90062024)	3.44582 (90011208)
-2.0	5.10632c(90062024)	3.91505c(90062024)	4.23730 (90062008)	4.20779 (90062008)	3.79636 (90062008)
-102.0	5.86869 (90012124)	4.99899 (90012124)	4.29067 (90012124)	4.16054 (90051324)	4.32244 (90051324)
-202.0	5.93293 (90010924)	5.62961 (90010924)	5.20237 (90010924)	4.72704 (90010924)	4.35266 (90072224)
-302.0	6.20339c(90041724)	5.83571c(90041724)	5.27523c(90041724)	4.54680c(90041724)	3.87220 (90010924)
-402.0	4.79012 (90052224)	4.48674c(90102424)	4.60575c(90020724)	4.26827c(90020724)	4.02564c(90020724)
-502.0	4.95064 (90102316)	3.73982 (90102316)	4.71657c(90072324)	3.96660c(90020224)	3.35128c(90020224)
-602.0	4.51804c(90111224)	5.83893c(90111224)	4.06622c(90102424)	3.59214c(90102424)	4.06204c(90072324)
-702.0	3.64324 (90120816)	3.91054 (90010824)	6.31398c(90111224)	6.20986c(90111224)	3.71063c(90080208)
-802.0	4.48591c(90012308)	4.09746 (90102608)	3.84516 (90010824)	4.37655c(90111224)	7.04864c(90111224)
-902.0	3.91465 (90012608)	4.03935c(90012308)	4.43221c(90012308)	2.93001c(90102324)	3.93923 (90010824)
-1002.0	3.98567 (90020508)	3.47875 (90012608)	3.44299c(90012308)	5.14238c(90012308)	2.99463 (90102608)
-1102.0	6.43516c(90021208)	3.75884 (90040324)	3.45684 (90021124)	2.91610 (90120908)	5.37684c(90012308)
-1202.0	6.66509 (90120908)	6.36825c(90021208)	3.54872 (90040324)	3.42389 (90021124)	3.06404 (90120908)
-1302.0	9.57499c(90052924)	5.66853 (90120908)	5.96902c(90021208)	3.29857 (90040324)	3.36509 (90021124)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	204.82767	(90041121)	AT (	289.00, -302.00)	GC	26.	140.91151	(90102905)	AT (	289.00, -402.00)	GC
2.	201.61113	(90121222)	AT (	289.00, -302.00)	GC	27.	139.10106	(90110619)	AT (	289.00, -402.00)	GC
3.	197.47519	(90052923)	AT (	289.00, -302.00)	GC	28.	138.35999	(90032014)	AT (	289.00, -202.00)	GC
4.	196.68279	(90090502)	AT (	289.00, -302.00)	GC	29.	138.02095	(90102516)	AT (	289.00, -202.00)	GC
5.	180.26505	(90122004)	AT (	289.00, -302.00)	GC	30.	137.65681	(90102514)	AT (	289.00, -202.00)	GC
6.	179.61438	(90041120)	AT (	289.00, -302.00)	GC	31.	137.55757	(90122410)	AT (	289.00, -202.00)	GC
7.	179.08450	(90012903)	AT (	289.00, -302.00)	GC	32.	137.01056	(90110911)	AT (	189.00, -102.00)	GC
8.	176.78935	(90012220)	AT (	289.00, -302.00)	GC	33.	136.87175	(90042802)	AT (	189.00, -102.00)	GC
9.	176.62054	(90030506)	AT (	289.00, -302.00)	GC	34.	136.10065	(90042610)	AT (	189.00, -102.00)	GC
10.	175.48340	(90041404)	AT (	289.00, -302.00)	GC	35.	136.00385	(90031613)	AT (	189.00, -102.00)	GC
11.	172.35437	(90061804)	AT (	289.00, -302.00)	GC	36.	135.83842	(90070705)	AT (	289.00, -302.00)	GC
12.	160.61563	(90110912)	AT (	189.00, -102.00)	GC	37.	132.17429	(90012714)	AT (	189.00, -102.00)	GC
13.	158.43967	(90121304)	AT (	289.00, -302.00)	GC	38.	130.56596	(90101218)	AT (	289.00, -302.00)	GC
14.	158.00410	(90102323)	AT (	289.00, -302.00)	GC	39.	124.22661	(90093012)	AT (	289.00, -302.00)	GC
15.	157.36540	(90101902)	AT (	289.00, -302.00)	GC	40.	121.47027	(90021415)	AT (	189.00, -102.00)	GC
16.	155.43634	(90101122)	AT (	189.00, -102.00)	GC	41.	121.45630	(90111719)	AT (	289.00, -302.00)	GC
17.	154.95280	(90041821)	AT (	189.00, -202.00)	GC	42.	121.13798	(90060824)	AT (	289.00, -302.00)	GC
18.	154.88983	(90041820)	AT (	189.00, -202.00)	GC	43.	121.11770	(90030712)	AT (	189.00, -202.00)	GC
19.	154.40793	(90121319)	AT (	289.00, -302.00)	GC	44.	121.10362	(90111903)	AT (	389.00, -402.00)	GC
20.	152.70148	(90113010)	AT (	189.00, -202.00)	GC	45.	118.97793	(90011217)	AT (	289.00, -202.00)	GC
21.	151.58383	(90100207)	AT (	289.00, -302.00)	GC	46.	118.58692	(90061510)	AT (	289.00, -202.00)	GC
22.	146.58917	(90050811)	AT (	189.00, -102.00)	GC	47.	118.23201	(90091718)	AT (	289.00, -302.00)	GC
23.	146.02168	(90081416)	AT (	189.00, -102.00)	GC	48.	117.92525	(90022218)	AT (	289.00, -202.00)	GC
24.	141.42639	(90012222)	AT (	289.00, -402.00)	GC	49.	117.10833	(90041422)	AT (	389.00, -402.00)	GC
25.	141.42639	(90111802)	AT (	289.00, -402.00)	GC	50.	117.00936	(90041816)	AT (	189.00, -202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)		RECEPTOR (XR,YR)			RANK	CONC	(YYMMDDHH)		RECEPTOR (XR,YR)		
1.	62.99158	(90110916)	AT (	189.00,	-102.00)	GC	26.	33.08465c	(90012224)	AT (	289.00,	-402.00)	GC
2.	61.59874	(90041824)	AT (	189.00,	-202.00)	GC	27.	32.84290	(90022124)	AT (	89.00,	-102.00)	GC
3.	56.89932c	(90030508)	AT (	289.00,	-302.00)	GC	28.	32.77127	(90052016)	AT (	289.00,	-102.00)	GC
4.	53.11978	(90050816)	AT (	189.00,	-102.00)	GC	29.	32.40109	(90011216)	AT (	289.00,	-202.00)	GC
5.	53.09269	(90102516)	AT (	289.00,	-202.00)	GC	30.	32.07753	(90020916)	AT (	289.00,	-102.00)	GC
6.	52.75285	(90041124)	AT (	289.00,	-302.00)	GC	31.	31.96630	(90042516)	AT (	89.00,	-102.00)	GC
7.	44.59812	(90021016)	AT (	289.00,	-102.00)	GC	32.	31.90910	(90110716)	AT (	289.00,	-302.00)	GC
8.	44.33533	(90022416)	AT (	289.00,	-202.00)	GC	33.	30.95758	(90032016)	AT (	289.00,	-202.00)	GC
9.	44.19041c	(90012224)	AT (	289.00,	-302.00)	GC	34.	30.80455	(90111808)	AT (	289.00,	-302.00)	GC
10.	42.72444c	(90033108)	AT (	189.00,	-2.00)	GC	35.	30.70778c	(90011916)	AT (	189.00,	-102.00)	GC
11.	42.19337c	(90090508)	AT (	289.00,	-302.00)	GC	36.	30.64001	(90040316)	AT (	289.00,	-302.00)	GC
12.	41.29222	(90031616)	AT (	189.00,	-102.00)	GC	37.	30.42282	(90031416)	AT (	189.00,	-2.00)	GC
13.	40.93057	(90072708)	AT (	289.00,	-302.00)	GC	38.	30.05119	(90030816)	AT (	89.00,	-102.00)	GC
14.	40.12818	(90020416)	AT (	289.00,	-102.00)	GC	39.	29.84742c	(90012908)	AT (	289.00,	-302.00)	GC
15.	38.89079	(90040316)	AT (	289.00,	-202.00)	GC	40.	29.82675c	(90090616)	AT (	189.00,	-202.00)	GC
16.	38.74990	(90111108)	AT (	289.00,	-302.00)	GC	41.	29.33779	(90122416)	AT (	289.00,	-202.00)	GC
17.	37.12276c	(90052924)	AT (	389.00,	-402.00)	GC	42.	29.26532c	(90122008)	AT (	289.00,	-302.00)	GC
18.	36.96691	(90052216)	AT (	389.00,	-202.00)	GC	43.	29.25786	(90051216)	AT (	189.00,	-102.00)	GC
19.	36.31728	(90021516)	AT (	189.00,	-2.00)	GC	44.	29.24809c	(90041408)	AT (	289.00,	-302.00)	GC
20.	35.28145	(90072916)	AT (	189.00,	-202.00)	GC	45.	29.20613c	(90080616)	AT (	289.00,	-202.00)	GC
21.	35.06511	(90101124)	AT (	189.00,	-102.00)	GC	46.	29.14149	(90061516)	AT (	289.00,	-202.00)	GC
22.	34.83835	(90122624)	AT (	89.00,	-202.00)	GC	47.	28.72573c	(90061808)	AT (	289.00,	-302.00)	GC
23.	33.77999	(90042616)	AT (	189.00,	-102.00)	GC	48.	28.65876	(90041824)	AT (	89.00,	-302.00)	GC
24.	33.15713c	(90112916)	AT (	289.00,	-302.00)	GC	49.	28.50344c	(90052924)	AT (	289.00,	-302.00)	GC
25.	33.15261	(90042808)	AT (	189.00,	-102.00)	GC	50.	28.37608	(90020516)	AT (	189.00,	-202.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	204.82767	ON 90041121:	AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	62.99158	ON 90110916:	AT (189.00, -102.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 1876 Informational Message(s)

A Total of 1859 Calm Hours Identified

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1991

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** The results for this run are in file 24ST91A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 24 ISCST Turbine 2401 & Emergency Generator 1 1991 Met CO
   TITLETWO  Building height = 38'
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  24ERRA91.OUT
CO FINISHED

SO STARTING
   LOCATION  2401  POINT  189.02    -102.44

** Point Source       QS      HS      TS     VS     DS
** Parameters:       ----    ----    ----   ----   ---
   SRCPARAM  2401    1.351   17.68   718.1 13.85  2.66

SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2401       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72
SO BUILDWID 2401       17.58   20.92   23.61   25.59   26.80   27.18
SO BUILDWID 2401       26.75   25.49   24.69   26.38   27.27   27.32
SO BUILDWID 2401       26.55   24.98   22.64   19.61   15.99   13.72

SO LOCATION GEN01  POINT    224.09    -158.54

** Parameters      QS     HS     TS       VS       DS
**                -----  ----  -----    -----     ---
SO SRCPARAM GEN01  0.305  6.10  830.93   45.49     0.2

SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26   11.58   11.58    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26     .00    5.26    5.26    5.26    5.26
SO BUILDHGT GEN01       5.26    5.26    5.26    5.26    5.26    5.26
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   22.64   19.61   15.93   16.15
SO BUILDWID GEN01      16.91   17.16   16.89   16.10   14.82   13.09
SO BUILDWID GEN01      10.97     .00    7.01    9.50   11.70   13.54
SO BUILDWID GEN01      14.97   15.95   16.44   16.43   15.93   16.15
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -1011 25 100 -1302  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  24RAM91.ASC
   ANEMHGHT  10
   SURFDATA  12816  1991  GAINESVILLE
   UAIRDATA  12842  1991  TAMPA
ME FINISHED

OU STARTING
   RECTABLE  ALLAVE  FIRST
   MAXTABLE  ALLAVE  50
OU FINISHED

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

**MODELOPTs: CONC RURAL FLAT DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for RURAL Mode

**Model Assumes Receptors on FLAT Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 8-HR

**This Run Includes: 2 Source(s); 1 Source Group(s); and 625 Receptor(s)

**The Model Assumes A Pollutant Type of: CO

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.2 MB of RAM.

**Input Runstream File: 24st91a.IN
**Output Print File: 24st91a.OUT
**Detailed Error/Message File: 24ERRA91.OUT

**MODELOPTs: CONC RURAL FLAT DFAULT

*** 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	EMISSION RATE SCALAR VARY BY
2401	0	0.13510E+01	189.0	-102.4	0.0	17.68	718.10	13.85	2.66	YES	
GEN01	0	0.30500E+00	224.1	-158.5	0.0	6.10	830.93	45.49	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2401 , GEN01 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2401

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	17.6,	0	2	11.6,	20.9,	0	3	11.6,	23.6,	0	4	11.6,	25.6,	0	5	11.6,	26.8,	0	6	11.6,	27.2,	0
7	11.6,	26.8,	0	8	11.6,	25.5,	0	9	11.6,	24.7,	0	10	11.6,	26.4,	0	11	11.6,	27.3,	0	12	11.6,	27.3,	0
13	11.6,	26.5,	0	14	11.6,	25.0,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	11.6,	16.0,	0	18	11.6,	13.7,	0
19	11.6,	17.6,	0	20	11.6,	20.9,	0	21	11.6,	23.6,	0	22	11.6,	25.6,	0	23	11.6,	26.8,	0	24	11.6,	27.2,	0
25	11.6,	26.8,	0	26	11.6,	25.5,	0	27	11.6,	24.7,	0	28	11.6,	26.4,	0	29	11.6,	27.3,	0	30	11.6,	27.3,	0
31	11.6,	26.5,	0	32	11.6,	25.0,	0	33	11.6,	22.6,	0	34	11.6,	19.6,	0	35	11.6,	16.0,	0	36	11.6,	13.7,	0

SOURCE ID: GEN01

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	5.3,	16.9,	0	2	5.3,	17.2,	0	3	5.3,	16.9,	0	4	5.3,	16.1,	0	5	5.3,	14.8,	0	6	5.3,	13.1,	0
7	5.3,	11.0,	0	8	0.0,	0.0,	0	9	5.3,	7.0,	0	10	5.3,	9.5,	0	11	5.3,	11.7,	0	12	5.3,	13.5,	0
13	5.3,	15.0,	0	14	5.3,	15.9,	0	15	11.6,	22.6,	0	16	11.6,	19.6,	0	17	5.3,	15.9,	0	18	5.3,	16.1,	0
19	5.3,	16.9,	0	20	5.3,	17.2,	0	21	5.3,	16.9,	0	22	5.3,	16.1,	0	23	5.3,	14.8,	0	24	5.3,	13.1,	0
25	5.3,	11.0,	0	26	0.0,	0.0,	0	27	5.3,	7.0,	0	28	5.3,	9.5,	0	29	5.3,	11.7,	0	30	5.3,	13.5,	0
31	5.3,	15.0,	0	32	5.3,	15.9,	0	33	5.3,	16.4,	0	34	5.3,	16.4,	0	35	5.3,	15.9,	0	36	5.3,	16.1,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

-1011.0, -911.0, -811.0, -711.0, -611.0, -511.0, -411.0, -311.0, -211.0, -111.0,
-11.0, 89.0, 189.0, 289.0, 389.0, 489.0, 589.0, 689.0, 789.0, 889.0,
989.0, 1089.0, 1189.0, 1289.0, 1389.0,

*** Y-COORDINATES OF GRID ***
(METERS)

-1302.0, -1202.0, -1102.0, -1002.0, -902.0, -802.0, -702.0, -602.0, -502.0, -402.0,
-302.0, -202.0, -102.0, -2.0, 98.0, 198.0, 298.0, 398.0, 498.0, 598.0,
698.0, 798.0, 898.0, 998.0, 1098.0,

**MODELOPTs: CONC RURAL FLAT DFAULT

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER OR 3*ZLB IN DISTANCE, OR WITHIN OPEN PIT SOURCE

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
2401	189.0	-102.0	0.44

**MODELOPTs: CONC   RURAL FLAT   DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
B	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01	.70000E-01
C	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00	.10000E+00
D	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
E	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00	.35000E+00
F	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00	.55000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: 24RAM91.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12816 UPPER AIR STATION NO.: 12842
NAME: GAINESVILLE NAME: TAMPA
YEAR: 1991 YEAR: 1991

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
91	1	1	1	221.0	3.09	292.6	4	1598.5	1598.5	0.0000	0.0	0.0000	0	0.00
91	1	1	2	258.0	2.57	292.6	4	1613.3	1613.3	0.0000	0.0	0.0000	0	0.00
91	1	1	3	224.0	3.60	292.0	4	1628.1	1628.1	0.0000	0.0	0.0000	0	0.00
91	1	1	4	223.0	2.06	291.5	4	1642.9	1642.9	0.0000	0.0	0.0000	0	0.00
91	1	1	5	223.0	3.60	290.9	4	1657.7	1657.7	0.0000	0.0	0.0000	0	0.00
91	1	1	6	232.0	2.57	290.4	5	1672.5	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	7	235.0	3.09	289.8	4	1687.4	1687.4	0.0000	0.0	0.0000	0	0.00
91	1	1	8	233.0	3.09	289.3	4	1702.2	1702.2	0.0000	0.0	0.0000	0	0.00
91	1	1	9	227.0	3.09	290.4	4	1717.0	1717.0	0.0000	0.0	0.0000	0	0.00
91	1	1	10	231.0	3.09	290.9	4	1731.8	1731.8	0.0000	0.0	0.0000	0	0.00
91	1	1	11	274.0	3.60	291.5	4	1746.6	1746.6	0.0000	0.0	0.0000	0	0.00
91	1	1	12	226.0	3.09	292.6	4	1761.4	1761.4	0.0000	0.0	0.0000	0	0.00
91	1	1	13	253.0	4.12	294.3	3	1776.2	1776.2	0.0000	0.0	0.0000	0	0.00
91	1	1	14	299.0	6.17	295.4	4	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	15	282.0	3.09	294.8	4	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	16	244.0	3.60	295.4	3	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	17	231.0	4.63	293.2	4	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	18	217.0	3.60	291.5	4	1786.6	1786.6	0.0000	0.0	0.0000	0	0.00
91	1	1	19	224.0	3.60	290.4	4	1775.3	1775.3	0.0000	0.0	0.0000	0	0.00
91	1	1	20	247.0	5.14	289.8	4	1764.1	1764.1	0.0000	0.0	0.0000	0	0.00
91	1	1	21	280.0	3.60	289.3	4	1752.9	1752.9	0.0000	0.0	0.0000	0	0.00
91	1	1	22	262.0	4.63	288.7	4	1741.6	1741.6	0.0000	0.0	0.0000	0	0.00
91	1	1	23	280.0	4.12	288.2	4	1730.4	1730.4	0.0000	0.0	0.0000	0	0.00
91	1	1	24	270.0	3.09	288.2	4	1719.2	1719.2	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	12.26655 (91022207)	12.88170 (91012624)	12.54768 (91081905)	12.74380 (91033120)	12.67344 (91112123)
998.0	12.68019 (91020602)	12.54152 (91071623)	12.92523 (91021903)	12.79602 (91081223)	12.25335 (91050904)
898.0	12.33913 (91061502)	12.83521 (91040722)	12.77522 (91071623)	13.11485 (91021902)	12.65462 (91061205)
798.0	13.21252 (91050406)	12.81169 (91091023)	12.70225 (91040722)	12.84868 (91071623)	13.73361 (91021902)
698.0	12.76403 (91060105)	14.67744 (91050406)	12.43046 (91091023)	12.22836 (91032824)	12.90172 (91012901)
598.0	12.44882 (91032522)	12.14285 (91032024)	15.72742 (91050406)	14.94491 (91050406)	13.31013 (91101417)
498.0	12.92984 (91032022)	13.51239 (91050101)	12.29022 (91032522)	15.75608 (91050406)	18.16584 (91050406)
398.0	13.46790 (91040504)	12.67176 (91032023)	12.55860 (91010701)	13.53102 (91050308)	14.32991 (91081619)
298.0	17.94606 (91070106)	16.67893 (91070106)	14.31755 (91012906)	13.98322 (91010704)	16.12408 (91091317)
198.0	17.04209 (91011509)	18.65878 (91011509)	19.47628 (91070106)	20.50879 (91070106)	16.98311 (91012907)
98.0	12.31630 (91052523)	13.17284 (91050903)	15.11754 (91011509)	20.54991 (91011509)	24.46451 (91011509)
-2.0	11.74792 (91071418)	12.68128 (91071418)	14.31598 (91060501)	16.08374 (91082507)	17.94430 (91051707)
-102.0	13.05376 (91010314)	13.97432 (91010314)	14.87421 (91010314)	16.10596 (91041810)	18.20456 (91041810)
-202.0	14.51613 (91071212)	15.80835 (91071212)	17.29566 (91071212)	18.97781 (91071212)	20.83662 (91071212)
-302.0	11.09512 (91021801)	11.14167 (91090118)	13.14820 (91090118)	15.15417 (91090118)	16.68808 (91082408)
-402.0	11.09453 (91062504)	12.06223 (91010609)	13.31796 (91100318)	15.68288 (91101019)	17.62285 (91071819)
-502.0	12.40618 (91022501)	12.50048 (91090508)	13.71650 (91082502)	15.21163 (91042508)	15.82664 (91020608)
-602.0	13.21594 (91060822)	13.00425 (91102720)	14.05760 (91010205)	14.51624 (91010205)	16.15922 (91082308)
-702.0	13.25900 (91040220)	13.04795 (91090905)	12.96651 (91102507)	13.43977 (91021618)	16.92346 (91050806)
-802.0	12.71413 (91103019)	13.02017 (91102403)	13.47573 (91020406)	15.41029 (91050806)	14.17754 (91102109)
-902.0	13.09786 (91091701)	13.30783 (91020407)	12.74191 (91050806)	14.87848 (91071211)	19.23611 (91071211)
-1002.0	13.00843 (91012621)	12.58477 (91102904)	14.85778 (91071211)	16.91659 (91071211)	12.27806 (91020404)
-1102.0	12.53560 (91102904)	14.38520 (91071211)	14.98229 (91071211)	12.72463 (91020404)	13.19765 (91120520)
-1202.0	13.68975 (91071211)	13.37566 (91071211)	12.85493 (91020404)	13.33458 (91121104)	14.89059 (91102907)
-1302.0	12.71995 (91123006)	12.77180 (91020404)	13.09300 (91121104)	13.62545 (91102907)	12.74759 (91102603)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	12.15386 (91032901)	11.76799 (91032703)	13.51439 (91092506)	12.79265 (91032705)	12.55617 (91070323)
998.0	13.19694 (91061924)	13.53472 (91071705)	12.89009 (91072808)	13.20649 (91082108)	13.60704 (91100508)
898.0	13.61104 (91050904)	12.93432 (91062008)	12.33818 (91072808)	13.41397 (91082108)	13.51245 (91100508)
798.0	12.59858 (91010313)	13.09358 (91031209)	14.65337 (91062008)	15.29916 (91072808)	14.44739 (91082108)
698.0	13.40459 (91021902)	13.98349 (91012909)	14.47613 (91010707)	15.35543 (91012908)	16.95325 (91082108)
598.0	14.57038 (91012901)	15.57443 (91010313)	16.53686 (91031209)	17.69879 (91062008)	18.02322 (91080207)
498.0	15.48522 (91101417)	16.35769 (91012901)	17.65981 (91010313)	18.56771 (91090510)	20.13787 (91072019)
398.0	21.38563 (91050406)	18.00753 (91010212)	19.10802 (91082309)	20.51522 (91061808)	22.15426 (91021809)
298.0	17.51120 (91022509)	22.96810 (91050406)	21.04346 (91061918)	23.59854 (91082309)	25.79321 (91112023)
198.0	18.17177 (91010704)	20.83632 (91091317)	22.98749 (91082918)	26.09039 (91100414)	29.47105 (91120815)
98.0	22.78306 (91011509)	21.68925 (91042505)	24.99658 (91061319)	28.10106 (91052408)	33.77873 (91032518)
-2.0	20.26858 (91062518)	22.86766 (91083009)	31.23540 (91011509)	31.23661 (91052421)	39.01684 (91090314)
-102.0	20.21622 (91041810)	23.39017 (91100313)	27.14625 (91012713)	32.76516 (91052420)	41.88210 (91040508)
-202.0	22.81260 (91071212)	24.69584 (91071212)	27.13221 (91091018)	30.51938 (91052024)	30.86616 (91042522)
-302.0	18.34878 (91010213)	20.10655 (91100318)	26.53889 (91052106)	31.51027 (91052303)	39.27951 (91090406)
-402.0	19.57636 (91082502)	21.33693 (91020608)	24.90025 (91091707)	29.60230 (91091615)	34.77940 (91101709)
-502.0	18.68638 (91121209)	20.82947 (91091316)	23.52910 (91050806)	26.49663 (91081516)	30.56258 (91060515)
-602.0	17.58233 (91021618)	20.82763 (91050806)	26.68577 (91071211)	23.97742 (91091218)	26.45127 (91083018)
-702.0	16.55685 (91102308)	24.74282 (91071211)	19.52095 (91120711)	25.06954 (91102907)	23.30769 (91090608)
-802.0	21.94205 (91071211)	16.62731 (91120711)	21.78109 (91102907)	19.60606 (91062923)	20.40414 (91041809)
-902.0	14.15469 (91120711)	18.22766 (91102907)	16.90393 (91090709)	17.56616 (91100515)	18.75399 (91063007)
-1002.0	15.15449 (91102907)	16.06791 (91102907)	14.92626 (91121207)	15.76227 (91041809)	18.86893 (91071210)
-1102.0	15.86403 (91102907)	13.92837 (91090709)	12.94089 (91100515)	14.72238 (91061107)	24.62974 (91071210)
-1202.0	12.92018 (91090709)	13.17362 (91090404)	13.30793 (91061107)	14.30357 (91080420)	24.52615 (91071210)
-1302.0	11.85016 (91092202)	13.52713 (91020223)	13.57195 (91011819)	16.92827 (91071210)	20.72516 (91071210)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	12.26518 (91061401)	13.48042 (91061923)	13.07140 (91061821)	11.75288 (91050502)	12.91199 (91080122)
998.0	12.51777 (91072119)	13.23287 (91120223)	13.14464 (91061821)	12.89934 (91062219)	12.00243 (91071405)
898.0	13.83451 (91072119)	13.09353 (91120223)	13.90404 (91062420)	14.21519 (91062219)	12.66160 (91072518)
798.0	15.43649 (91082420)	15.39809 (91062009)	15.49811 (91072607)	15.87362 (91051307)	14.98279 (91082621)
698.0	17.17114 (91100508)	17.79206 (91062009)	17.61757 (91072607)	17.76014 (91051307)	17.60042 (91082621)
598.0	18.97854 (91100416)	19.63940 (91010709)	19.91151 (91072607)	20.01082 (91072408)	19.02821 (91062010)
498.0	21.27280 (91052620)	22.02051 (91072719)	22.62025 (91071213)	21.88134 (91072408)	22.71278 (91073107)
398.0	23.96333 (91052621)	25.44982 (91032208)	26.38019 (91071213)	26.17122 (91053106)	25.01774 (91071715)
298.0	27.88643 (91072019)	30.43256 (91010710)	31.45805 (91071416)	31.33471 (91082006)	29.60416 (91080110)
198.0	33.79620 (91052623)	37.21887 (91080102)	39.95475 (91022209)	37.86677 (91092509)	36.83620 (91080112)
98.0	41.39191 (91052409)	48.30677 (91012406)	54.29485 (91042313)	52.88022 (91030310)	44.93908 (91022217)
-2.0	49.47617 (91052217)	67.49723 (91041211)	79.32909 (91052023)	77.19875 (91011117)	59.45913 (91071315)
-102.0	57.27838 (91052208)	86.37177 (91052113)	160.64952 (91053023)	127.90785 (91021316)	73.60544 (91120319)
-202.0	34.51052 (91102716)	88.51244 (91090815)	177.00302 (91092817)	140.42531 (91021517)	77.33795 (91022314)
-302.0	50.88845 (91060519)	67.81374 (91100213)	85.41875 (91100616)	202.54669 (91043001)	60.89214 (91033007)
-402.0	42.41776 (91092019)	50.49910 (91102918)	55.39652 (91031708)	140.07338 (91122419)	123.78823 (91031021)
-502.0	34.69955 (91093018)	38.52263 (91100218)	40.98665 (91060317)	41.32308 (91082620)	97.48863 (91032001)
-602.0	29.19229 (91100224)	41.87060 (91071210)	32.18523 (91010807)	32.06870 (91020616)	83.38407 (91121523)
-702.0	24.53020 (91011809)	27.43331 (91100107)	26.76288 (91050219)	26.62404 (91062917)	73.52631 (91021207)
-802.0	32.11037 (91071210)	37.47865 (91100107)	23.13281 (91100612)	22.99845 (91100517)	61.77284 (91011805)
-902.0	32.92269 (91071210)	38.27964 (91100107)	19.82890 (91100612)	22.38115 (91110607)	26.34728 (91011805)
-1002.0	24.87847 (91071210)	34.14555 (91100107)	17.64753 (91122814)	21.43954 (91110607)	17.25925 (91062422)
-1102.0	18.69500 (91100107)	28.61930 (91100107)	16.62907 (91122814)	20.13248 (91110607)	15.39105 (91110321)
-1202.0	22.70917 (91100107)	23.36085 (91100107)	15.41453 (91122814)	18.74301 (91110607)	14.19654 (91110321)
-1302.0	24.45871 (91100107)	18.91755 (91100107)	14.20693 (91122814)	17.40453 (91110607)	12.95607 (91123104)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	13.42918 (91120222)	14.59271 (91073107)	12.59963 (91062001)	12.60001 (91070701)	11.99562 (91082016)
998.0	14.30066 (91073107)	13.16705 (91073107)	12.52547 (91030801)	11.50802 (91082016)	12.55535 (91070403)
898.0	17.24043 (91073107)	13.39534 (91082102)	12.69196 (91072718)	14.01401 (91082016)	11.36570 (91051302)
798.0	18.85972 (91073107)	14.22248 (91100417)	13.54892 (91082016)	13.30447 (91022514)	15.34934 (91030807)
698.0	17.39617 (91073107)	16.49579 (91072718)	16.79254 (91082016)	13.17386 (91041002)	23.06704 (91030807)
598.0	19.01229 (91082102)	17.24451 (91041918)	15.93752 (91041913)	24.82985 (91030807)	17.22100 (91030807)
498.0	21.12882 (91100417)	20.72316 (91082016)	23.75682 (91030807)	22.24973 (91030807)	15.02600 (91081919)
398.0	23.97421 (91041918)	21.97034 (91041002)	28.97790 (91030807)	18.39887 (91081919)	23.88458 (91082017)
298.0	27.35901 (91071008)	36.12615 (91030807)	22.73156 (91081919)	30.72825 (91082017)	31.29416 (91082018)
198.0	36.20491 (91030807)	28.28081 (91042005)	37.83364 (91082017)	38.99361 (91082018)	19.78190 (91072919)
98.0	38.88434 (91082007)	46.75656 (91082018)	29.04317 (91082018)	39.74147 (91082019)	33.50290 (91082019)
-2.0	46.82401 (91082018)	55.36871 (91082019)	29.56700 (91122908)	25.04041 (91081519)	19.86574 (91081519)
-102.0	40.99443 (91081418)	35.13263 (91111007)	35.49335 (91111007)	29.92173 (91111007)	24.03946 (91111007)
-202.0	51.65112 (91122912)	38.77836 (91031423)	30.78705 (91060205)	25.78121 (91081008)	21.48998 (91101209)
-302.0	46.62906 (91122409)	36.80602 (91050118)	29.36369 (91122407)	25.02072 (91070208)	21.94901 (91070618)
-402.0	38.56940 (91022619)	33.05371 (91031816)	35.71262 (91071308)	23.82240 (91071119)	20.66190 (91080508)
-502.0	36.63195 (91091507)	29.22313 (91041718)	25.26660 (91041911)	22.37756 (91081718)	30.22760 (91071308)
-602.0	79.28580 (91121601)	25.35059 (91092409)	23.16880 (91081808)	20.20986 (91041711)	19.24080 (91062319)
-702.0	69.11607 (91022105)	64.80060 (91122923)	20.76475 (91071006)	19.41753 (91100610)	17.71629 (91121817)
-802.0	61.21162 (91012705)	58.04398 (91121701)	35.74545 (91122923)	17.95352 (91071006)	16.51540 (91100610)
-902.0	54.90501 (91121523)	53.01783 (91022105)	50.53311 (91031921)	16.14067 (91070808)	15.19273 (91071006)
-1002.0	49.43053 (91021207)	49.89201 (91031202)	46.90036 (91112507)	44.14369 (91122923)	14.01926 (91082717)
-1102.0	45.74538 (91123103)	46.05576 (91081305)	44.61000 (91090706)	44.73310 (91121723)	32.60295 (91122923)
-1202.0	42.18255 (91123103)	40.67518 (91011723)	43.71148 (91121803)	37.53988 (91021206)	39.59038 (91123101)
-1302.0	25.37495 (91123103)	38.20821 (91081306)	36.97533 (91031202)	38.53686 (91090706)	38.71796 (91031204)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	10.39135 (91062403)	12.68176 (91062203)	16.23921 (91030807)	13.11836 (91030807)	12.43133 (91061524)
998.0	12.28705 (91051302)	16.92202 (91030807)	15.21835 (91030807)	12.66756 (91061524)	12.55083 (91051402)
898.0	16.80129 (91030807)	17.66881 (91030807)	12.60246 (91061524)	12.88099 (91051402)	12.75899 (91030802)
798.0	20.39079 (91030807)	12.49910 (91071102)	13.08561 (91051402)	12.84687 (91030802)	15.18676 (91082017)
698.0	13.99963 (91081909)	13.08046 (91051402)	12.36050 (91030802)	17.37114 (91082017)	15.30859 (91082017)
598.0	12.74024 (91051402)	14.83214 (91082017)	19.60766 (91082017)	17.75430 (91082018)	20.42844 (91082018)
498.0	18.65834 (91082017)	21.45071 (91082017)	22.74535 (91082018)	21.12688 (91082018)	13.54112 (91082018)
398.0	21.93655 (91082017)	26.80641 (91082018)	18.40512 (91082018)	12.09120 (91030805)	17.51733 (91082019)
298.0	26.33210 (91082018)	14.93812 (91072919)	21.72391 (91082019)	24.06003 (91082019)	20.59357 (91082019)
198.0	28.35745 (91082019)	28.94483 (91082019)	21.05222 (91082019)	17.55854 (91122908)	13.33160 (91032723)
98.0	23.14734 (91122908)	15.78924 (91060107)	13.95468 (91081219)	12.88059 (91081219)	10.96066 (91053108)
-2.0	17.72129 (91053108)	15.88509 (91053108)	16.76762 (91111007)	16.94500 (91111007)	16.39498 (91111007)
-102.0	19.26680 (91111007)	16.57239 (91070919)	14.23299 (91070919)	12.91632 (91062201)	13.08438 (91062201)
-202.0	19.71497 (91101209)	17.65990 (91101209)	15.66174 (91101209)	14.03361 (91022321)	13.52316 (91011624)
-302.0	19.42684 (91042406)	17.43778 (91103117)	15.49295 (91103117)	14.96718 (91051608)	14.02141 (91051608)
-402.0	19.09331 (91080620)	16.97135 (91110207)	15.26303 (91070117)	13.19826 (91070117)	13.30936 (91062202)
-502.0	21.60752 (91071308)	16.85938 (91070206)	13.90042 (91080508)	13.42134 (91080620)	12.91959 (91052924)
-602.0	19.55491 (91071308)	24.53687 (91071308)	19.00878 (91071308)	14.02568 (91070206)	13.84091 (91111101)
-702.0	16.55713 (91042404)	14.79775 (91112315)	18.07670 (91071308)	20.40299 (91071308)	16.68795 (91071308)
-802.0	15.47978 (91012904)	14.82978 (91042404)	13.32321 (91041520)	13.92256 (91021007)	16.32079 (91071308)
-902.0	14.07950 (91100610)	14.18522 (91012904)	13.56065 (91121403)	13.79690 (91031901)	13.35003 (91042103)
-1002.0	13.78341 (91011702)	13.99185 (91021524)	13.88942 (91020924)	13.42031 (91121403)	13.23624 (91112421)
-1102.0	14.00869 (91020905)	13.48677 (91011702)	13.80837 (91021524)	13.45753 (91021104)	13.73060 (91112502)
-1202.0	17.52840 (91122923)	13.71669 (91123002)	13.35017 (91042922)	13.42706 (91021524)	13.44853 (91021104)
-1302.0	34.49112 (91123101)	13.22329 (91021107)	13.64987 (91123002)	13.23434 (91031022)	12.93915 (91021524)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1011.00	-911.00	-811.00	-711.00	-611.00
1098.0	3.54603c(91101424)	2.95509 (91021908)	2.80758c(91080308)	2.39049 (91010708)	2.71363 (91051708)
998.0	4.95538c(91101424)	3.67365c(91101424)	3.17412 (91072508)	2.64286c(91080308)	2.82430 (91010708)
898.0	3.85665c(91101424)	5.16327c(91101424)	3.78470c(91101424)	3.45012 (91072508)	2.43907 (91071708)
798.0	3.92830c(91013008)	4.20260c(91013008)	5.33213c(91101424)	3.86564c(91101424)	3.71165 (91072508)
698.0	3.05742c(91013008)	4.21250c(91013008)	4.78735c(91013008)	5.42974c(91101424)	3.89742c(91101424)
598.0	2.96009 (91061224)	2.62623c(91013008)	4.33653c(91013008)	5.42616c(91013008)	5.41245c(91101424)
498.0	4.58048 (91061224)	3.77121 (91061224)	2.63255 (91111816)	4.11028c(91013008)	6.03646c(91013008)
398.0	5.00649 (91012908)	5.29541 (91091824)	4.72279 (91061224)	3.63943 (91061224)	3.30253c(91013008)
298.0	4.91874 (91061124)	5.12814 (91012908)	6.06430 (91012908)	5.90536 (91073124)	5.84147 (91073124)
198.0	4.65992 (91111908)	4.76735 (91111908)	5.56707 (91061124)	5.42039 (91012908)	7.20913 (91012908)
98.0	4.31054 (91011908)	4.40163 (91011908)	4.38355 (91052524)	4.81371 (91111908)	4.96882 (91111908)
-2.0	5.46857 (91052608)	5.96005 (91052608)	6.13756 (91052608)	5.72356 (91052608)	5.04872 (91011908)
-102.0	4.24035 (91052508)	4.22611 (91052508)	4.08863 (91052424)	4.53224 (91052424)	5.07360 (91052124)
-202.0	4.12641c(91090108)	3.94884c(91090108)	4.45460 (91052408)	5.27568 (91052408)	6.31188 (91052408)
-302.0	5.18465 (91052408)	5.58228 (91052408)	5.87059 (91052408)	5.94802 (91052408)	6.10563 (91052208)
-402.0	3.48335 (91090724)	3.91402 (91090724)	3.82554 (91090724)	4.09495c(91122716)	5.54941c(91122716)
-502.0	3.40601 (91090624)	3.96520 (91022824)	4.52480c(91122716)	4.98583 (91010516)	6.92309 (91121224)
-602.0	4.87200 (91042708)	6.17955 (91121224)	6.94524 (91121224)	6.91932 (91102224)	7.34003 (91122724)
-702.0	6.29449 (91121224)	6.57841 (91102224)	6.33269 (91102308)	6.38796 (91122724)	7.90717 (91102208)
-802.0	5.71901 (91102224)	5.55633c(91102408)	5.71618 (91102208)	6.73634 (91102208)	6.77366c(91102124)
-902.0	4.68815c(91102408)	5.16569 (91102208)	6.93412c(91102124)	6.05976c(91102124)	4.73870c(91112908)
-1002.0	5.62047c(91102124)	7.03381c(91102124)	5.06624c(91102124)	4.20870 (91102908)	4.43100 (91010108)
-1102.0	6.74833c(91102124)	4.46148 (91061008)	4.32990c(91083008)	3.78800 (91010108)	4.19967 (91010108)
-1202.0	4.40841 (91061008)	4.33395c(91083008)	3.76452c(91040208)	3.72554 (91010108)	6.03049c(91102708)
-1302.0	4.24396c(91083008)	3.93364c(91040208)	3.93160c(91121108)	5.97312c(91102708)	4.31424c(91102608)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -511.00	-411.00	-311.00	-211.00	-111.00
1098.0	2.99458 (91071524)	3.38244 (91071524)	3.79214c(91092508)	4.03888c(91112208)	3.71824c(91112208)
998.0	2.86006 (91052708)	3.91119 (91071524)	3.11021 (91072908)	3.89491c(91073008)	4.59280c(91112208)
898.0	3.25919 (91010708)	3.13248 (91071524)	4.02547 (91071524)	4.01712c(91073008)	5.14738c(91112208)
798.0	3.10410 (91010708)	3.59941 (91010708)	4.53385 (91071524)	3.49118c(91092508)	4.70576c(91112208)
698.0	3.91258 (91072508)	3.95093 (91010708)	3.73335 (91052624)	4.85718 (91071524)	5.06536 (91052624)
598.0	3.93968c(91013008)	3.96745 (91072508)	4.88809 (91010708)	5.11229 (91071524)	4.86609 (91031808)
498.0	6.46996c(91013008)	4.64019c(91013008)	4.17057 (91120108)	5.58656 (91052624)	5.77273 (91071524)
398.0	6.37669c(91013008)	7.81110c(91013008)	5.48575c(91013008)	5.41899 (91052416)	6.63999 (91052624)
298.0	4.58215 (91111816)	5.85272c(91013008)	9.22565c(91013008)	6.39749c(91013008)	7.93517 (91052624)
198.0	8.20939 (91073124)	7.85993 (91073124)	6.22851 (91111816)	9.97688c(91013008)	8.72538 (91113016)
98.0	6.05117 (91061124)	7.46282 (91012908)	12.04830 (91073124)	11.22001 (91111816)	12.49459 (91012408)
-2.0	5.56349 (91111824)	7.18411 (91040708)	9.10419 (91052224)	10.55806 (91040708)	17.00892 (91073124)
-102.0	6.15006 (91052124)	7.54445 (91052124)	9.29607 (91052124)	11.16868 (91052124)	14.08706 (91052024)
-202.0	7.59962 (91052408)	9.14208 (91052408)	10.77669 (91052408)	12.71351 (91052208)	16.71812 (91052208)
-302.0	6.79538 (91052208)	6.86075 (91052208)	8.24269 (91052308)	11.32390 (91010516)	17.73891 (91010516)
-402.0	6.93486c(91122716)	9.10695 (91010516)	9.20282 (91122724)	19.50718 (91122724)	21.29958 (91122808)
-502.0	6.72972 (91102308)	11.35263 (91122724)	14.35576 (91122808)	13.70873 (91102208)	13.43081 (91010108)
-602.0	8.95091 (91102208)	11.33564 (91102208)	8.78014 (91102208)	10.37378 (91010108)	12.83754 (91122708)
-702.0	8.61891 (91102208)	6.96270c(91112908)	8.09467 (91010108)	9.53769 (91122708)	9.13890 (91123116)
-802.0	5.68602c(91112908)	6.45323 (91010108)	6.90940 (91122708)	7.88043 (91122708)	7.37836 (91100916)
-902.0	5.27157 (91010108)	5.28887 (91010108)	7.14572 (91122708)	5.20370 (91100916)	5.65679 (91100916)
-1002.0	4.73002 (91010108)	5.95231 (91122708)	5.04148 (91123116)	5.03481 (91020308)	5.22284c(91122108)
-1102.0	5.32721c(91102708)	4.71000 (91122708)	3.86192 (91100916)	4.27781 (91020308)	5.90264c(91122108)
-1202.0	4.45690 (91122708)	3.44648 (91123116)	4.84925 (91020308)	5.51439 (91090408)	5.98839c(91122108)
-1302.0	3.40657 (91123116)	3.64536 (91092224)	4.28980 (91020308)	4.15932c(91122108)	5.32432c(91122108)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -11.00	89.00	189.00	289.00	389.00
1098.0	2.99865 (91061408)	3.51193 (91061924)	4.30516c(91073108)	3.44196 (91072524)	3.52717 (91080124)
998.0	2.65395 (91042316)	3.23134 (91061924)	4.47444c(91073108)	3.72017 (91072524)	3.39771 (91080124)
898.0	3.15911c(91112208)	3.34052 (91042316)	4.62251c(91073108)	4.02139 (91072524)	3.76089 (91030208)
798.0	4.33869c(91112208)	3.97188 (91042316)	5.05356 (91031308)	4.33037 (91072524)	4.41822c(91032308)
698.0	5.74220c(91112208)	4.77214 (91042316)	5.97825 (91031308)	4.63120 (91072524)	5.29787c(91032308)
598.0	6.54982c(91112208)	5.59571 (91042316)	7.17034 (91031308)	5.52370 (91030208)	5.82555c(91032308)
498.0	7.71101 (91080108)	6.09562 (91042316)	8.70612 (91031308)	6.94938 (91030208)	5.47526 (91030208)
398.0	7.77617 (91080108)	8.43755c(91112208)	10.65700 (91031308)	8.86777 (91030208)	10.15721 (91080116)
298.0	9.37484 (91031808)	12.91997 (91011108)	12.96227 (91031308)	11.35259 (91030208)	17.22264 (91080116)
198.0	11.90084 (91052624)	17.88914 (91080108)	14.94859 (91031308)	14.48258 (91030208)	20.43686 (91080116)
98.0	14.12947 (91052416)	18.68687 (91031808)	24.60947 (91042316)	18.07754 (91120308)	13.73312 (91022224)
-2.0	19.47873 (91111816)	26.21942 (91052416)	31.62440 (91011524)	36.32193 (91032916)	27.17840 (91031324)
-102.0	26.44832 (91052224)	40.44834 (91052116)	50.04092 (91011516)	46.32697 (91021408)	32.54937 (91070416)
-202.0	16.67794 (91052208)	28.72468 (91011016)	62.61135 (91060616)	51.05112 (91021524)	37.68176 (91042116)
-302.0	33.58761 (91122724)	32.33704 (91020116)	20.53176 (91092816)	55.67146 (91122424)	23.01763c(91041616)
-402.0	19.83622 (91122024)	24.58011 (91100916)	12.40500 (91110416)	33.79043 (91112524)	39.70692 (91031024)
-502.0	17.40715 (91010416)	13.90280 (91092916)	9.94752 (91033024)	13.64219 (91110924)	27.14000 (91112508)
-602.0	12.69158 (91100916)	10.21954 (91100724)	8.98434 (91033024)	7.74266 (91121016)	20.60336 (91121524)
-702.0	8.74721 (91100916)	7.51704 (91101008)	7.58923 (91033024)	7.44050 (91110608)	17.54903 (91112524)
-802.0	7.91195c(91122108)	7.23911 (91100108)	6.33995 (91033024)	7.21699 (91110508)	16.32797 (91112524)
-902.0	7.65309c(91122108)	6.74495 (91100108)	5.76012 (91110508)	6.76017 (91110508)	10.18285 (91112524)
-1002.0	6.33639c(91122108)	6.29520c(91062624)	5.22467 (91110508)	6.19580 (91110508)	5.96122 (91112524)
-1102.0	5.33009 (91101008)	5.69796c(91062624)	4.70465 (91110508)	5.61902 (91110508)	5.26746 (91121508)
-1202.0	5.05513 (91100108)	5.05033c(91062624)	4.25097 (91110508)	5.09997 (91110508)	5.27576 (91110608)
-1302.0	5.06111 (91100108)	4.41178c(91062624)	3.99202 (91111308)	4.65049 (91110508)	5.32745 (91110608)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 489.00	589.00	689.00	789.00	889.00
1098.0	3.24392c(91070524)	2.98461 (91080116)	4.07367 (91080116)	3.68551 (91080116)	2.88969 (91082016)
998.0	3.19513c(91032308)	3.87902 (91080116)	4.59553 (91080116)	3.42605 (91080116)	2.83264 (91082016)
898.0	2.97375c(91032308)	4.93038 (91080116)	4.87241 (91080116)	3.39324 (91082016)	2.50696 (91030624)
798.0	3.91659 (91080116)	6.02093 (91080116)	4.59209 (91080116)	3.19681 (91082016)	3.65141 (91030808)
698.0	5.76431 (91080116)	6.87057 (91080116)	4.11663 (91082016)	3.25100 (91030624)	5.02758 (91030808)
598.0	8.19379 (91080116)	6.71625 (91080116)	3.63429 (91082016)	5.45667 (91030808)	4.36014 (91030808)
498.0	10.63010 (91080116)	5.55312 (91082016)	4.90783 (91030808)	5.21620 (91030808)	4.28393 (91031324)
398.0	10.96024 (91080116)	4.74430 (91022224)	6.37411 (91030808)	5.42759 (91031324)	4.07075 (91031324)
298.0	8.27121 (91032716)	7.64219 (91030808)	7.17533 (91031324)	5.37649 (91082024)	6.39831 (91082024)
198.0	9.28193 (91022224)	10.03022 (91031324)	7.77041 (91082024)	6.77285 (91082024)	8.13643 (91121008)
98.0	15.27779 (91031324)	10.53949 (91082024)	11.14861 (91121008)	11.29104 (91121008)	6.88888 (91032408)
-2.0	15.75417 (91020716)	17.18102 (91121008)	9.65023 (91081916)	7.43225 (91081916)	4.26289 (91081916)
-102.0	11.70374 (91060416)	8.35312 (91031416)	7.36307 (91031416)	5.90206 (91031416)	4.89028 (91021416)
-202.0	20.43979 (91022316)	15.82624 (91031424)	11.54676 (91031424)	9.51063 (91031224)	7.97630 (91060208)
-302.0	16.13187 (91041716)	12.26418 (91042116)	9.73786 (91122916)	8.22773 (91022324)	6.41340 (91022324)
-402.0	13.42556 (91041716)	13.89064 (91041716)	7.77000 (91122416)	5.45442 (91021516)	5.28236 (91042116)
-502.0	11.66117 (91011316)	8.27413 (91041716)	10.10266 (91041716)	7.09805 (91031816)	4.66523 (91122416)
-602.0	25.81275 (91021208)	7.81481 (91120408)	5.52215 (91041716)	7.44380 (91041716)	8.28122c(91041524)
-702.0	18.43157 (91112508)	19.55571 (91031024)	5.56135 (91120408)	5.07869 (91021524)	6.82044 (91041624)
-802.0	17.22353c(91121808)	23.24506 (91021208)	9.16125 (91031024)	4.34824 (91031008)	5.12041c(91121824)
-902.0	12.34083 (91121524)	13.62940 (91112508)	15.27777 (91031024)	5.19976c(91070808)	4.47647 (91111224)
-1002.0	11.00943 (91110308)	16.15215c(91121808)	18.67241 (91021208)	12.56394 (91031024)	3.95740c(91070808)
-1102.0	12.34783 (91112524)	10.28582 (91121524)	10.61671 (91112508)	13.95677 (91021208)	7.64335 (91031024)
-1202.0	10.97509 (91112524)	8.25472 (91121524)	13.13455c(91121808)	14.82945 (91021208)	11.11159 (91031024)
-1302.0	8.32565 (91112524)	7.74810 (91110308)	9.80840c(91121808)	8.57346 (91112508)	13.09703 (91021208)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

*** NETWORK ID: 100METER ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 989.00	1089.00	1189.00	1289.00	1389.00
1098.0	2.38915 (91070408)	2.86985 (91030808)	3.85406 (91030808)	2.92080 (91030808)	2.48597 (91061524)
998.0	2.52449 (91030624)	4.22372 (91030808)	3.29305 (91030808)	2.65453 (91061524)	2.59041 (91070424)
898.0	4.25925 (91030808)	3.76809 (91030808)	2.88344 (91030808)	2.62739 (91070424)	2.68902 (91070708)
798.0	4.36425 (91030808)	3.25452 (91030808)	2.66098 (91031324)	2.62194 (91070708)	2.45614 (91082024)
698.0	3.73032 (91030808)	3.04541 (91031324)	2.89157 (91031324)	2.97290 (91082024)	3.58940 (91082024)
598.0	3.55780 (91031324)	3.23314 (91031324)	3.63253 (91082024)	4.06366 (91082024)	3.54549 (91082024)
498.0	3.62355 (91031324)	4.46057 (91082024)	4.47228 (91082024)	3.45946 (91082024)	3.71662 (91031408)
398.0	5.44034 (91082024)	4.65290 (91082024)	3.83002 (91031408)	5.09327 (91031408)	5.07241 (91121008)
298.0	4.44055 (91082024)	6.17287 (91121008)	6.27355 (91121008)	4.86004 (91121008)	3.67930 (91032408)
198.0	8.14275 (91121008)	5.64349 (91121008)	4.24980 (91032408)	3.18134 (91032724)	4.06150 (91032724)
98.0	4.76541 (91081916)	4.22799 (91081916)	3.45091 (91070224)	3.01175 (91070224)	2.36587 (91070224)
-2.0	2.81732c(91070824)	3.50990c(91070924)	4.08125c(91070924)	4.25727c(91070924)	4.20067c(91070924)
-102.0	4.49855 (91042124)	4.45154 (91042124)	4.38011 (91011624)	4.21242 (91011624)	4.01679 (91011624)
-202.0	7.31422 (91060208)	6.72179 (91060208)	6.18560 (91060208)	5.71772 (91060208)	5.31137 (91060208)
-302.0	4.97064 (91022324)	4.92371 (91111024)	5.89700 (91111024)	6.62785 (91111024)	7.04436 (91111024)
-402.0	4.76410 (91060324)	4.38871 (91022324)	4.79601 (91060224)	4.13670 (91060224)	4.09841 (91021024)
-502.0	3.94774 (91020724)	6.08779 (91111108)	4.56400 (91111108)	3.92560 (91053008)	3.64891 (91052924)
-602.0	5.41433 (91020808)	4.09533c(91111124)	4.33989 (91020724)	5.58932 (91111108)	6.20391 (91111108)
-702.0	7.86444c(91041524)	6.89445c(91041524)	4.59316 (91011308)	4.48191c(91111124)	4.14819 (91020724)
-802.0	5.80913 (91041624)	6.82876 (91041624)	8.49745c(91041524)	5.28743 (91020808)	4.62978 (91011308)
-902.0	5.44037c(91121824)	4.79136 (91041624)	7.18052 (91041624)	8.16269c(91041524)	6.93827c(91041524)
-1002.0	4.54242 (91111224)	5.54327c(91121824)	3.98124 (91041624)	6.68784 (91041624)	6.45607c(91041524)
-1102.0	3.39607 (91020908)	4.41611 (91111224)	5.52481c(91121824)	4.06107c(91101308)	5.82451 (91041624)
-1202.0	5.15689c(91070808)	4.12669c(91123008)	4.47781 (91030924)	5.42623c(91121824)	4.02262c(91101308)
-1302.0	9.06545 (91031024)	4.31649 (91011708)	4.54520c(91123008)	4.48781 (91030924)	5.27829c(91121824)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	202.54669	(91043001)	AT (	289.00,	-302.00)	GC	26.	151.43498	(91060618)	AT (	189.00,	-202.00)	GC
2.	202.03358	(91031122)	AT (	289.00,	-302.00)	GC	27.	151.32303	(91093014)	AT (	189.00,	-202.00)	GC
3.	201.19096	(91122422)	AT (	289.00,	-302.00)	GC	28.	150.33617	(91071619)	AT (	189.00,	-102.00)	GC
4.	186.05573	(91040303)	AT (	289.00,	-302.00)	GC	29.	148.19690	(91121913)	AT (	189.00,	-202.00)	GC
5.	186.01024	(91121624)	AT (	289.00,	-302.00)	GC	30.	148.11201	(91092214)	AT (	189.00,	-202.00)	GC
6.	184.23866	(91112506)	AT (	289.00,	-302.00)	GC	31.	147.89410	(91011512)	AT (	189.00,	-102.00)	GC
7.	177.00302	(91092817)	AT (	189.00,	-202.00)	GC	32.	146.05440	(91021916)	AT (	189.00,	-102.00)	GC
8.	176.70836	(91071422)	AT (	289.00,	-302.00)	GC	33.	143.47688	(91060614)	AT (	189.00,	-202.00)	GC
9.	176.25055	(91011720)	AT (	289.00,	-302.00)	GC	34.	143.28041	(91112712)	AT (	189.00,	-202.00)	GC
10.	175.48340	(91042204)	AT (	289.00,	-302.00)	GC	35.	142.69720	(91060809)	AT (	189.00,	-202.00)	GC
11.	174.95482	(91110721)	AT (	289.00,	-302.00)	GC	36.	142.18356	(91022105)	AT (	289.00,	-302.00)	GC
12.	174.83585	(91080622)	AT (	289.00,	-302.00)	GC	37.	140.42531	(91021517)	AT (	289.00,	-202.00)	GC
13.	169.61740	(91121909)	AT (	189.00,	-202.00)	GC	38.	140.07338	(91122419)	AT (	289.00,	-402.00)	GC
14.	169.46338	(91123114)	AT (	189.00,	-202.00)	GC	39.	138.63365	(91091006)	AT (	289.00,	-402.00)	GC
15.	167.93687	(91030821)	AT (	189.00,	-202.00)	GC	40.	136.11520	(91020514)	AT (	189.00,	-102.00)	GC
16.	160.87682	(91121806)	AT (	289.00,	-302.00)	GC	41.	136.08327	(91021816)	AT (	189.00,	-102.00)	GC
17.	160.84489	(91032001)	AT (	289.00,	-302.00)	GC	42.	135.74405	(91011805)	AT (	289.00,	-402.00)	GC
18.	160.64952	(91053023)	AT (	189.00,	-102.00)	GC	43.	135.09335	(91071920)	AT (	289.00,	-302.00)	GC
19.	158.17958	(91092606)	AT (	289.00,	-302.00)	GC	44.	134.60895	(91123115)	AT (	189.00,	-202.00)	GC
20.	157.63823	(91030112)	AT (	189.00,	-102.00)	GC	45.	134.15665	(91030301)	AT (	189.00,	-102.00)	GC
21.	156.95673	(91100710)	AT (	189.00,	-202.00)	GC	46.	133.41203	(91070109)	AT (	289.00,	-302.00)	GC
22.	156.59113	(91060613)	AT (	189.00,	-202.00)	GC	47.	130.88431	(91030305)	AT (	189.00,	-102.00)	GC
23.	156.53987	(91030224)	AT (	189.00,	-102.00)	GC	48.	129.90118	(91092206)	AT (	289.00,	-402.00)	GC
24.	152.75444	(91123124)	AT (	189.00,	-202.00)	GC	49.	129.87715	(91100623)	AT (	289.00,	-302.00)	GC
25.	152.14177	(91020122)	AT (	189.00,	-202.00)	GC	50.	129.79491	(91122418)	AT (	289.00,	-302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2401 , GEN01 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)	OF TYPE
1.	62.61135	(91060616)	AT (	189.00, -202.00)	GC	26.	37.66034	(91100216)	AT (	189.00, -202.00)	GC
2.	55.86633	(91121916)	AT (	189.00, -202.00)	GC	27.	37.58496	(91020124)	AT (	189.00, -202.00)	GC
3.	55.67146	(91122424)	AT (	289.00, -302.00)	GC	28.	37.36240	(91021916)	AT (	189.00, -102.00)	GC
4.	51.98230	(91020116)	AT (	189.00, -202.00)	GC	29.	36.63446	(91123124)	AT (	189.00, -202.00)	GC
5.	51.47374c	(91121808)	AT (	289.00, -302.00)	GC	30.	36.32193	(91032916)	AT (	289.00, -2.00)	GC
6.	51.05112	(91021524)	AT (	289.00, -202.00)	GC	31.	35.54403	(91020824)	AT (	289.00, -302.00)	GC
7.	50.04092	(91011516)	AT (	189.00, -102.00)	GC	32.	35.37191	(91021316)	AT (	289.00, -102.00)	GC
8.	48.98528	(91020908)	AT (	289.00, -302.00)	GC	33.	34.20680	(91022316)	AT (	389.00, -202.00)	GC
9.	48.10373	(91100716)	AT (	189.00, -202.00)	GC	34.	33.95266	(91120316)	AT (	289.00, -102.00)	GC
10.	47.88788	(91030308)	AT (	189.00, -102.00)	GC	35.	33.86378c	(91043008)	AT (	289.00, -302.00)	GC
11.	46.51178	(91112508)	AT (	289.00, -302.00)	GC	36.	33.79043	(91112524)	AT (	289.00, -402.00)	GC
12.	46.32697	(91021408)	AT (	289.00, -102.00)	GC	37.	33.77881	(91122424)	AT (	289.00, -402.00)	GC
13.	43.40163	(91123116)	AT (	189.00, -202.00)	GC	38.	33.58761	(91122724)	AT (	-11.00, -302.00)	GC
14.	42.40919	(91012016)	AT (	289.00, -202.00)	GC	39.	33.18285	(91080116)	AT (	289.00, -2.00)	GC
15.	41.44875	(91121608)	AT (	289.00, -302.00)	GC	40.	33.09878	(91060116)	AT (	289.00, -202.00)	GC
16.	40.44834	(91052116)	AT (	89.00, -102.00)	GC	41.	32.78306	(91030116)	AT (	189.00, -102.00)	GC
17.	39.70692	(91031024)	AT (	389.00, -402.00)	GC	42.	32.75838	(91112716)	AT (	189.00, -202.00)	GC
18.	39.33459	(91020216)	AT (	189.00, -202.00)	GC	43.	32.54937	(91070416)	AT (	389.00, -102.00)	GC
19.	39.27258	(91031324)	AT (	289.00, -102.00)	GC	44.	32.42053	(91110724)	AT (	289.00, -302.00)	GC
20.	39.17702	(91022616)	AT (	289.00, -202.00)	GC	45.	32.33704	(91020116)	AT (	89.00, -302.00)	GC
21.	38.09893	(91031108)	AT (	289.00, -302.00)	GC	46.	32.30863	(91052016)	AT (	89.00, -102.00)	GC
22.	37.98293	(91052716)	AT (	189.00, -102.00)	GC	47.	31.95530	(91112808)	AT (	189.00, -202.00)	GC
23.	37.93003	(91092216)	AT (	189.00, -202.00)	GC	48.	31.87383c	(91041616)	AT (	289.00, -202.00)	GC
24.	37.80618	(91011724)	AT (	289.00, -302.00)	GC	49.	31.62440	(91011524)	AT (	189.00, -2.00)	GC
25.	37.68176	(91042116)	AT (	389.00, -202.00)	GC	50.	31.42016	(91122808)	AT (	-11.00, -302.00)	GC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	202.54669	ON 91043001:	AT (289.00, -302.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

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

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	62.61135	ON 91060616:	AT (189.00, -202.00, 0.00, 0.00)	GC	100METER

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

**MODELOPTs: CONC RURAL FLAT DFAULT

*** Message Summary : ISCST3 Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 952 Informational Message(s)

A Total of 952 Calm Hours Identified

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST3 Finishes Successfully ***
****