AQMcs

Florida Gas Transmission Company

Phase IV Expansion Project

Compressor Station No. 26

Lecanto, Florida

APPLICATION
For
AIR CONSTRUCTION
PERMIT

December 1999

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1.0 INTRODUCTION

Florida Gas Transmission Company (FGT), a Delaware Corporation and ENRON/EL PASO affiliate of Houston, Texas, is proposing to construct a natural gas pipeline facility near Lecanto in Citrus County, Florida (Compressor Station No. 26). 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:

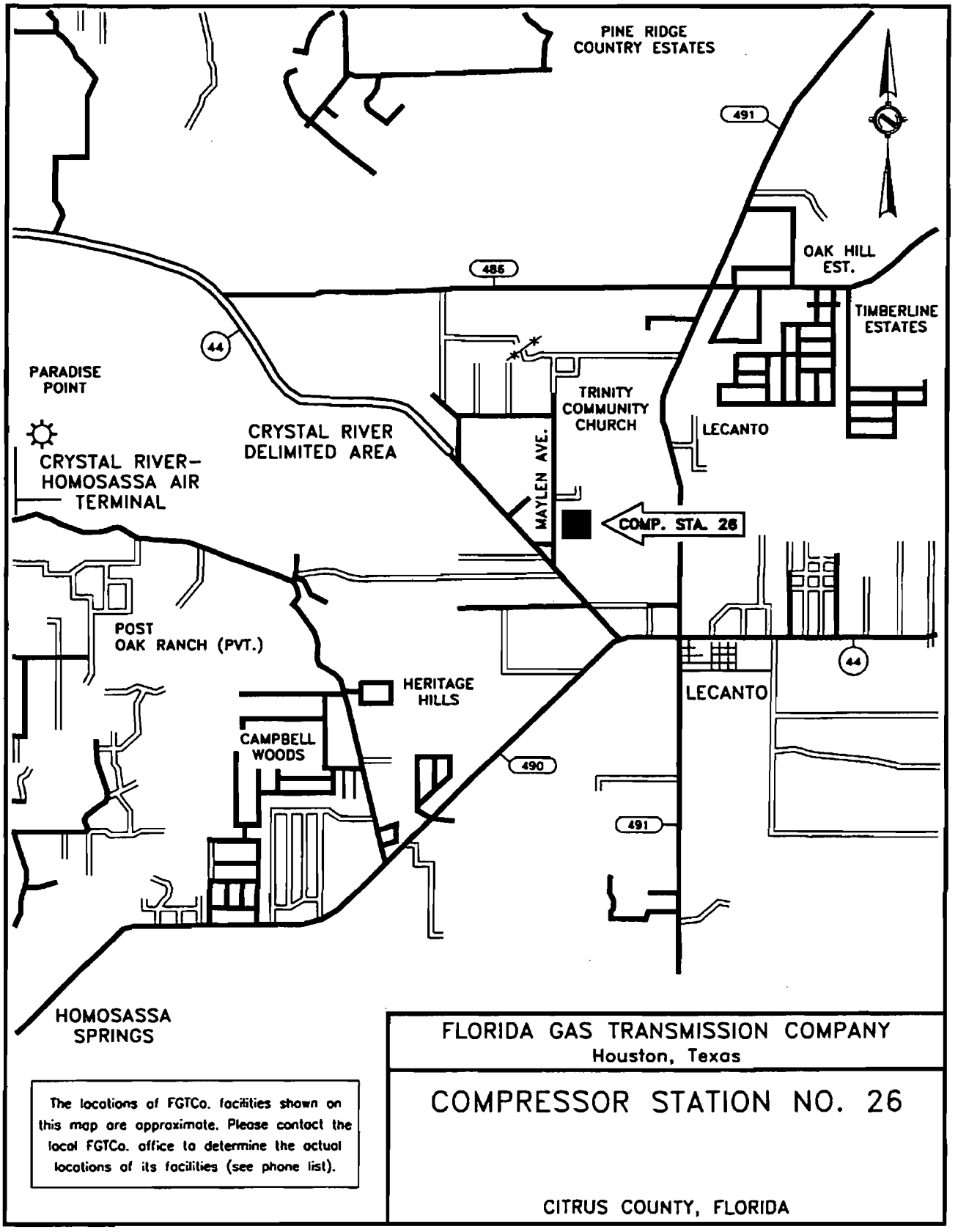
- Mainline loops, additions, and replacements;
- Lateral loops and additions;
- Meter station additions, modifications, and expansions;
- Regulator additions, modifications, and expansions; and
- Compressor station additions and modifications.

Compressor Station No. 26 is located in Citrus County, Florida, northwest of the town of Lecanto on North Maylen Road 0.4 miles north of highway 44. Figure 1-1 shows the location of the existing compressor station.

The proposed modifications at this location consists of the addition of one 7,170 brake horsepower (bhp), natural-gas-fired, turbine compressor engine, replacement of a gas-fired emergency generator with a single 443 bhp diesel-fired emergency generator and addition of a 1,000 gallon diesel storage tank. The proposed compressor engine will be used solely for transporting natural gas by pipeline for distribution to markets in Florida. The proposed new engine is a Cooper-Rolls 601-KC9 DLE equipped with dry low NO_X (oxides of nitrogen) combustion and rated at 7,170 bhp. Under current federal and state air quality regulations, the proposed modification will constitute a minor modification of an existing minor 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 7,170 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


PINE RIDGE
COUNTRY ESTATES
491
OAK HILL
EST.
486
TIMBERLINE
ESTATES
44
PARADISE
POINT
TRINITY
COMMUNITY
CHURCH
LECANTO
CRYSTAL RIVER
DELIMITED AREA
CRYSTAL RIVER-
HOMOSASSA AIR
TERMINAL
MAYLEN AVE.
COMP. STA. 26
POST
OAK RANCH (PVT.)
HERITAGE
HILLS
LECANTO
44
CAMPBELL
WOODS
490
491
HOMOSASSA
SPRINGS
FLORIDA GAS TRANSMISSION COMPANY
Houston, Texas
COMPRESSOR STATION NO. 26
CITRUS COUNTY, FLORIDA
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).

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. 26, 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 existing Compressor Station No. 24 consists of one 6,500 bhp gas-fired turbine engine. Table 2-1 summarizes engine manufacturer and model for the existing engine. Compressor Station No. 26 was built as a part of the Phase II Expansion Project and was constructed in 1994. The existing engine is not being modified as part of this expansion project.

The existing facility also has supporting equipment including lube oil storage tanks, air compressors and emergency generators.

2.2 Proposed Compressor Station

FGT proposes to increase the horsepower capacity of Compressor Station No. 26, as part of the Phase IV Expansion Project. This will be achieved by adding one new gas turbine driven natural gas compressor (Compressor Engine 2602). The proposed 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. 26. The turbine engine will be a Cooper-Rolls 601-KC9 DLE engine compressor unit rated at 7,170 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	2602
Type	Gas Turbine
Manufacturer	Cooper-Rolls
Model	601-KC9 DLE
Unit Size	7,170 bhp Rated
Specific Heat Input	7,936 Btu/hp-hr
Maximum Fuel Consumption [a]	0.0602 MMscf/hr
Speed	14,585 rpm
Stack Parameters	
Stack Height	58 ft
Stack Diameter	6.0 ft
Exhaust Gas Flow	105,159 acfm
Exhaust Temperature	888 °F
Exhaust Gas Velocity	62.00 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
- Replacement of one emergency generator
- 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 new turbine, has approximate dimensions of 40 feet wide by 60 feet long by 30 feet high.

The new generator will be powered by a diesel-fueled, Caterpillar Model 3406 rated at 300 kW (443 bhp). It will replace a existing 184 bhp natural gas-fired emergency generator. 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. 26 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.

2.2.4 Emissions Summary

The total changes in 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 2-2 Emissions from FGT's Proposed Compressor Engine

Pollutant	Emission Factor	Reference	Compressor Emissions	
			lb/hr	TPY
Nitrogen Oxides	6.83 lb/hr	Manufacturer Data	6.83	29.9
Carbon Monoxide	8.30 lb/hr	Manufacturer Data	8.30	36.35
Volatile Organic Compounds (non methane)	0.475 lb/hr	Manufacturer Data	0.475	2.08
Particulate Matter	5.0 lb/MMscf	AP-42, Table 1.4-2	0.33	1.45
Sulfur Dioxide	10 grains/100 scf	FERC Limit	1.89	8.26

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

Parameter	Design
Compressor Engine	2602
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	0.80	0.15

* based on 500 hours of operation per year
** assumes VOC 10% of total HC

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	93	0.0434606	0.05	0.20
Flanges	Gas	114	0.0037666	0.05	0.02
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:	0.22

*"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
EXISTING FACILITY						
2601	6500 bhp Turbine Engine	39.1	28.3	1.62	7.2	1.3
GEN01 - OLD	184 bhp Recip. Engine	0.4	0.1	0.01	0.0	0.0
	OTHER SOURCES:[b]	0.0	0.0	0.24	0.0	0.0
EXISTING TOTALS:		**39.5**	**28.4**	**1.87**	**7.2**	**1.3**
PROJECT DELETED						
GEN01 - OLD	184 bhp Recip. Engine	0.4	0.1	0.01	0.0	0.0
DELETED TOTALS:		**0.4**	**0.1**	**0.01**	**0.0**	**0.0**
PROJECT ADDED						
2602	7,170 bhp Turbine Engine	35.6	47.0	1.3	2.1	11.7
GEN01 – NEW	443 bhp Recip. Engine	2.2	0.6	0.01	0.15	0.2
FUGITIVE	Fugitive			0.22		
TANK 06	Diesel Tank			0.00		
PROJECT ADDED TOTALS:		**37.8**	**47.6**	**1.53**	**2.25**	**11.9**
POST-PROJECT POTENTIAL TOTALS[c]		76.9	75.9	3.39	9.45	13.2

(a) VOC = NM/NE HC
(b) Other Sources Includes: Ancillary equipment, storage tanks and equipment leaks
(c) POST PROJECT STATION TOTAL = EXISTING - DELETED + PROJECT ADDED

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. 26.

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 operations and proposed modifications at Compressor Station No. 26.

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 Citrus County is listed on Table 3-2 for each criteria pollutant. Citrus 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 Citrus 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. Citrus 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. 26 is a minor modification of an existing minor stationary source. Since Compressor Station No. 26 is not one of the 28 named source categories and emits <250 TPY of at least one regulated pollutant, it is considered a minor source. The increase in emissions resulting from the proposed action will not exceed the PSD major source definition; 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. 26 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. 26 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*

= 7,936 Btu/bhp-hr x 1.055 *Kj/Btu x hp-hr/745.7 watt-hour*

= 11.1

STD = 0.0150 (14.4/11.1) + 0

= 0.0200

= 200 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 200 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. 2602 Gas Turbine	Gas	NO_2	>10 MM Btu/hr	56.90 MMBtu/hr	200 ppm_v	25 ppm_v
GG	60.333(a)	Engine No. 2602 Gas Turbine	Gas	SO_2	>10 MM Btu/hr	56.90 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. 26 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. 26 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. 26 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 Citrus County Compressor Station No. 26 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. 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 1987-1991 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 59 miles east north east of the facility, 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 Lecanto Compressor Station. The upper air data was obtained from Tampa (12842) approximately 62 miles to the south.

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 Tampa, 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 Tampa, 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. 26 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 2602 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.

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 (2602), 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 (2602), 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.

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)
2602	210.37	-70.12	17.68	1.83	748.71	18.90
GEN02	179.88	-54.88	7.62	0.15	830.93	47.89

* Effective diameter

Table 4-3 Modeled Emission Rates

SOURCE NO.	NOX		CO	
	(TONS/YR)	g/sec	(LBS/HR)	g/sec
2602	29.9	0.861	8.30	1.046
GEN02	2.21	0.063	2.42	0.305

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 No. 1	34.0 (10.37)	60.0 (18.29)	30.0 (9.15)
Compressor Building No. 2	38.0 (11.59)	60.0 (18.29)	30.0 (9.15)
Auxiliary Building	19.75 (6.02)	88.0 (26.83)	30.0 (9.15)

4.2 Dispersion Model Results

Modeling was performed for the increases in net emissions of NO_X and CO from Compressor Station No. 26. 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 north 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 Lecanto 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 2602	Annual	0.98	100	1
CO				
SOURCE 2602	1-hr	369.83	40,000	2,000
	8-hr	115.65	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	0.87	0.98	0.74	0.79	0.78
		1987	**1988**	**1989**	**1990**	**1991**
CO	1hour	369.70	369.83	334.80	366.82	367.17
CO	8-hour	95.81	94.17	102.17	112.31	115.65

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). 1995. 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. 26
3. Facility Identification Number:	[X] Unknown
4. Facility Location: Street Address or Other Locator:	245 N. Maylen Road
City: Lecanto	State: FL Zip Code: 34461
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
	Cooper-Rolls 601-KC9 DLE Turbine rated at 7,170 hp, Engine 2602	AC1C	$4,500.00
	New Emergency generator, 443 hp Caterpillar 3406 Reciprocating engine, engine GEN01		
	Fugitive emissions from equipment leaks		
	1000 gallon Diesel Fuel Tank		

Application Processing Fee

Check one: [X] Attached - Amount: $__4,500.00_____ [ ] 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 Cooper-Rolls 601-KC9 DLE compressor turbine rated at 7,170 horsepower ISO.

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

Installation of 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): 353.212	North (km): 3193.987	
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 28/51/58	Longitude (DD/MM/SS): 82/30/18		
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. 26 is a natural gas pipeline compressor station with one existing compressor engine. It is classified as a minor source under New Source Review and Title V definitions.			

Facility Contact

1. Name and Title of Facility Contact: Fred Morrison, Team Environmental Leader			
2. Facility Contact Mailing Address: Organization/Firm: Florida Gas Transmission Company Street Address: 245 N. Maylen Road City: Lecanto	State: FL	Zip Code: 34461	
3. Facility Contact Telephone Numbers: Telephone: (352)527-1898	Fax: (352)527-2034		

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):

7,170 bhp natural gas fired turbine compressor unit

3. Emissions Unit Identification Number:
ID:
[X] No 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 Cooper-Rolls 601-KC9 DLE turbine compressor unit ISO rated at 7,170 bhp at 11,500 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 Information Section __1___ of __4___

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: Cooper-Rolls
   Model Number: 601-KC9-DLE
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: 57 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):

Heat input is 56.90 MM Btu/hr based on vendor specifications of 7,936 Btu/hp-hr and 7,170 bhp.

Emissions Unit Information Section __1___ of __4___

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? 2602	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: 6.0 feet
8. Exit Temperature: 888 °F	9. Actual Volumetric Flow 105,149 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): 353.212 North (km): 3193.897

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): 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: 0.0602	5. Maximum Annual Rate: 527.4	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 56.90 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):		

Emissions Unit Information Section __1___ of __4___

Pollutant Detail Information Page ___1__ of ___6__

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: 6.83 lb/hour 29.90 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 29.90 tpy Reference: Vendor's data		9. Emissions Method Code: 5

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

(29.90 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 6.83 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 ppmv	4. Equivalent Allowable Emissions: 6.8 lb/hour 29.9 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 200 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: 8.30 lb/hour 36.35 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 36.35 tpy Reference: Vendor's data		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (36.35 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 8.30 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: 0.47 lb/hour 2.08 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 2.08 tpy Reference: Vendor's data		9. Emissions Method Code: 5

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

Vendor factor for unburned hydrocarbons (UHC) = 20.806 tpy.
Assume 10% is VOC.
(2.08 tons/year)(2000 lb/ton)(1 yr/8760 hr) = 0.47 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: 1.72 lb/hour 7.53 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)(0.0602 MMscf/hr)(1 lb/7000 gr) = 0.86 lb S/hr
(0.86 lb S/hr)(2 lb SO2/lb S) = 1.72 lb SO2/hr
(1.72 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 7.53 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: 1.72 lb/hour 7.53 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: 0.30 lb/hour . 1.32 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)(0.0602 MMscf/hr) = 0.30 lb/hr
(0.30 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 1.32 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: 0.30 lb/hour 1.32 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)(0.0602 MMscf/hr) = 0.30 lb/hr
(0.30 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 1.32 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 Information Section __2___ of __4___

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 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:
   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 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): 353.212	North (km): 3193.897
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: 0.4	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 __4___

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:
ID:
[X] No 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 Information Section __3___ of __4___

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):

Emissions Unit Information Section __3___ of __4___

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 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): 353.212 North (km): 3193.897

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):		

Emissions Unit Information Section __3___ of __4___

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: 0.0502 lb/hour 0.22 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):

1,000-gallon horizontal diesel fuel storage tank.

3. Emissions Unit Identification Number:
ID:
[X] No 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 Information Section __4___ of __4__

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 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): 353.212 North (km): 3193.897		
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: 1.0
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):		

Emissions Unit Information Section __4___ of __4___

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

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):	

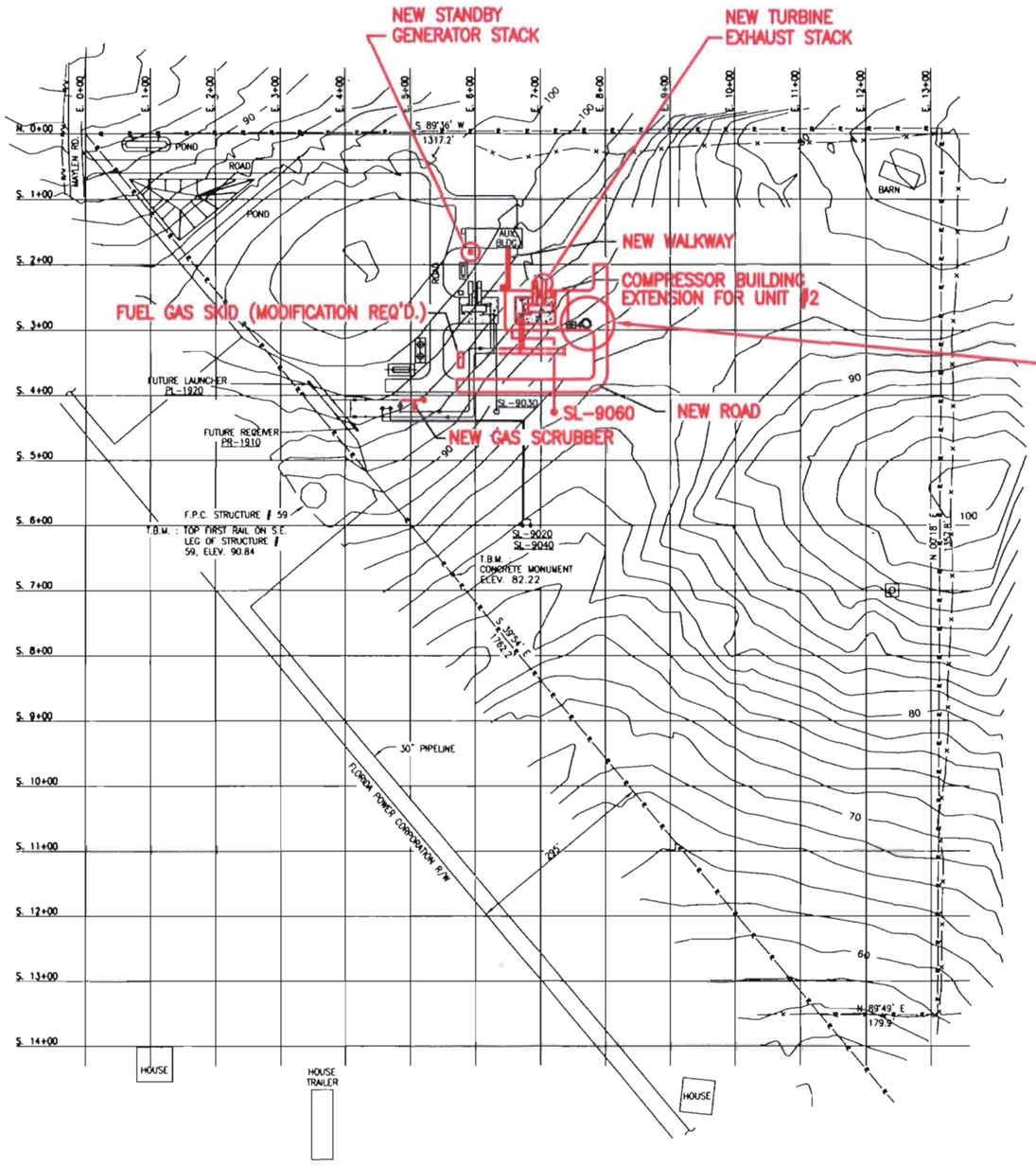
G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

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



NOTE:
PHASE IV CONSTRUCTION IS SHOWN WITH **BOLD** TEXT.

COMPRESSOR STATION COORDINATES
PERMANENT BENCH MARK – (FEET)
S 2+90 E 7+70

POLYCONIC PROJECTION 1927 NORTH AMERICAN DATUM
BASED ON FLORIDA COORDINATE SYSTEM WEST ZONE – (FEET)
X=339,300' Y=1,647,850'

UNIVERSAL TRANSVERSE MECATOR
ZONE 17 – (METERS)
N. 3,194,095 E. 353,123

NOTE
1) PAVED ROADS OR OTHER AREAS
2) GRAVEL AREA
3) FACILITY ELEVATION: 100.00' EQUAL TO CONTOUR LINE XX.XX'. THIS RELATIONSHIP MUST BE CONFIRMED BY SURVEYOR; THAT IS 100 YEAR RETURN HIGH WATER LEVEL SHALL BE EQUAL TO FACILITY ELEVATION 99.00' AND EQUAL TO CONTOUR LINE 17.00'.
4) BUILDING FLOOR LEVEL = EL. 100'-0"

ISSUED FOR BID

100 0 100 200 300 400
FEET

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION – DESCRIPTION	BY	DATE	CHK'D	APP'D
		B	ISSUED FOR BID	GDS	8/20/99		
		A	ISSUE PRELIMINARY	GDS	6/25/99		

DWG. STATUS	CHECKED BY	CHECKED DATE	APPROVED BY	APPROVED DATE	APPROVED BY	APPROVED DATE
PREL'Y						
BID						
CONSTR.						
CADDS	PLOT DATE: 10/14/1999 – 14:15		FILE NAME: 12650710.DWG			

P.L./STA. ACCT. NO.
CONSTRUCTION YR 2000

	BY	DATE
DESIGN		
DRAWN		
ASBUILT		

FILE NO.
SCALE 1"=100'-0" @ 36"x24"

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

COMPRESSOR STATION NO. 26
PHASE IV
MOTOR/ COMPRESSOR LAYOUT
SITE LOCATION PLAN
CITRUS COUNTY, FLORIDA

AFE/WORK ORDER: S99316
ASBUILT DWG. NO.:
CONSTRUCTION DWG. NO.: 126.50.710C
SHEET 1 OF 1
REV. NO.: B

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** The results for this run are in file 26LT90A.OUT

CO STARTING
   TITLEONE  FGT CS 26 Turbine 2602 & Emergency Generator 2 1990 Met ISCLT NOx
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Parameters      QS     HS     TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM 2602  0.860  17.68 748.7   18.90    1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58
SO BUILDWID 2602       18.29   21.56   21.55   18.26   12.19   18.26
SO BUILDWID 2602       21.55   21.56   18.29   21.56   21.55   18.26
SO BUILDWID 2602       12.19   18.26   21.55   21.56


SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters      QS     HS     TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN02  0.063  7.62  830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36    6.02   10.36    6.02    6.02
SO BUILDHGT GEN02       6.02   11.58   11.58   10.36
SO BUILDWID GEN02      18.29   21.56   25.43   18.71    9.14   28.18
SO BUILDWID GEN02      21.55   21.56   26.82   21.56   25.43   18.71
SO BUILDWID GEN02       9.14   18.26   21.55   21.56

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -890 23 100 -1170 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5290 23 500 -5570 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  TAMPA90.STA
   ANEMHGHT  10.
   SURFDATA  12842  1990  TAMPA
   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   300.6   300.6   300.6   295.4   290.1   290.1


**                        - 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 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04
   AVEMIXHT  ANNUAL 2 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 3 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 4 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+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: 26LT90a.IN ; **Output Print File: 26LT90a.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
2602	0	0.86000E+00	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.63000E-01	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

*** ISCLT3 - VERSION 96113 *** *** FGT CS 26 Turbine 2602 & Emergency Generator 2 1990 Met ISCLT NOx *** 11/28/99
*** *** 13:32:05

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	18.3,	0	2	11.6,	21.6,	0	3	11.6,	21.5,	0	4	11.6,	18.3,	0
5	11.6,	12.2,	0	6	11.6,	18.3,	0	7	11.6,	21.5,	0	8	11.6,	21.6,	0
9	11.6,	18.3,	0	10	11.6,	21.6,	0	11	11.6,	21.5,	0	12	11.6,	18.3,	0
13	11.6,	12.2,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	11.6,	21.6,	0

SOURCE ID: GEN02

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.4,	18.3,	0	2	10.4,	21.6,	0	3	6.0,	25.4,	0	4	6.0,	18.7,	0
5	6.0,	9.1,	0	6	10.4,	28.2,	0	7	10.4,	21.5,	0	8	10.4,	21.6,	0
9	6.0,	26.8,	0	10	10.4,	21.6,	0	11	6.0,	25.4,	0	12	6.0,	18.7,	0
13	6.0,	9.1,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	10.4,	21.6,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0, 10.0,
110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0, 1010.0,
1110.0, 1210.0, 1310.0,

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

-1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0, -270.0,
-170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0, 730.0,
830.0, 930.0, 1030.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-5290.0, -4790.0, -4290.0, -3790.0, -3290.0, -2790.0, -2290.0, -1790.0, -1290.0, -790.0,
-290.0, 210.0, 710.0, 1210.0, 1710.0, 2210.0, 2710.0, 3210.0, 3710.0, 4210.0,
4710.0, 5210.0, 5710.0,

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

-5570.0, -5070.0, -4570.0, -4070.0, -3570.0, -3070.0, -2570.0, -2070.0, -1570.0, -1070.0,
-570.0, -70.0, 430.0, 930.0, 1430.0, 1930.0, 2430.0, 2930.0, 3430.0, 3930.0,
4430.0, 4930.0, 5430.0,

*** 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)
2602	210.0	-70.0	0.39
2602	210.0	-70.0	0.39

*** 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	300.6000	300.6000	300.6000	295.4000	290.1000	290.1000

*** 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	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999
STABILITY CATEGORY B	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY C	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY D	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
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: TAMPA90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00022500	0.00068500	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00007900	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00032300	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00027200	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00087000	0.00159900	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00011100	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00017800	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00006300	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00006300	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00038600	0.00091400	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00037100	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00014200	0.00102800	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00024100	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00004800	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00020900	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00030800	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	0.00057400	0.00353900	0.00182700	0.00000000	0.00000000	0.00000000
22.500	0.00094900	0.00171300	0.00125600	0.00000000	0.00000000	0.00000000
45.000	0.00067500	0.00319700	0.00331100	0.00000000	0.00000000	0.00000000
67.500	0.00128000	0.00319700	0.00388200	0.00000000	0.00000000	0.00000000
90.000	0.00145500	0.00411000	0.00342500	0.00000000	0.00000000	0.00000000
112.500	0.00101000	0.00274000	0.00262600	0.00000000	0.00000000	0.00000000
135.000	0.00102400	0.00296900	0.00274000	0.00000000	0.00000000	0.00000000
157.500	0.00079600	0.00319700	0.00182700	0.00000000	0.00000000	0.00000000
180.000	0.00071400	0.00182700	0.00274000	0.00000000	0.00000000	0.00000000
202.500	0.00037200	0.00216900	0.00296900	0.00000000	0.00000000	0.00000000

225.000	0.00064100	0.00262600	0.00342500	0.00000000	0.00000000	0.00000000
247.500	0.00111200	0.00445300	0.00490900	0.00000000	0.00000000	0.00000000
270.000	0.00048000	0.00399600	0.00867600	0.00000000	0.00000000	0.00000000
292.500	0.00050600	0.00239800	0.00171300	0.00000000	0.00000000	0.00000000
315.000	0.00052500	0.00068500	0.00125600	0.00000000	0.00000000	0.00000000
337.500	0.00079400	0.00114200	0.00091400	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00071100	0.00239800	0.00468100	0.00045700	0.00000000	0.00000000
22.500	0.00040200	0.00091400	0.00342500	0.00022900	0.00000000	0.00000000
45.000	0.00037400	0.00285400	0.00650700	0.00022900	0.00000000	0.00000000
67.500	0.00052400	0.00605100	0.01221500	0.00228400	0.00000000	0.00000000
90.000	0.00075700	0.00593700	0.01278600	0.00228400	0.00011500	0.00000000
112.500	0.00015100	0.00319700	0.00856200	0.00091400	0.00000000	0.00000000
135.000	0.00034700	0.00228400	0.00753500	0.00148500	0.00000000	0.00000000
157.500	0.00006500	0.00137000	0.00605100	0.00080000	0.00000000	0.00000000
180.000	0.00059700	0.00251200	0.00570800	0.00080000	0.00000000	0.00000000
202.500	0.00004900	0.00102800	0.00422400	0.00022900	0.00000000	0.00000000
225.000	0.00008100	0.00171300	0.00331100	0.00034300	0.00000000	0.00000000
247.500	0.00010800	0.00228400	0.00833400	0.00080000	0.00000000	0.00000000
270.000	0.00046600	0.00228400	0.01621100	0.00662200	0.00000000	0.00000000
292.500	0.00005900	0.00125600	0.00479500	0.00114200	0.00000000	0.00000000
315.000	0.00039700	0.00080000	0.00285400	0.00057100	0.00000000	0.00000000
337.500	0.00028800	0.00102800	0.00205500	0.00080000	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	0.00038500	0.00216900	0.00639300	0.00616500	0.00022900	0.00000000
22.500	0.00008200	0.00125600	0.00216900	0.00411000	0.00011500	0.00000000
45.000	0.00062800	0.00216900	0.00593700	0.00433800	0.00000000	0.00000000
67.500	0.00056300	0.00490900	0.01392700	0.00742100	0.00011500	0.00000000
90.000	0.00044100	0.00490900	0.01586800	0.01095900	0.00022900	0.00000000
112.500	0.00030000	0.00274000	0.01118800	0.00456700	0.00011500	0.00000000
135.000	0.00077900	0.00262600	0.00890500	0.00468100	0.00011500	0.00000000
157.500	0.00034500	0.00342500	0.00559400	0.00194100	0.00011500	0.00000000
180.000	0.00101900	0.00445300	0.01050300	0.00650700	0.00034300	0.00000000
202.500	0.00036200	0.00182700	0.00490900	0.00228400	0.00022900	0.00000000

225.000	0.00008200	0.00125600	0.00365300	0.00102800	0.00000000	0.00000000
247.500	0.00010400	0.00159900	0.00411000	0.00102800	0.00011500	0.00000000
270.000	0.00024100	0.00182700	0.00947500	0.00970400	0.00011500	0.00000000
292.500	0.00009000	0.00137000	0.00445300	0.00548000	0.00045700	0.00000000
315.000	0.00003000	0.00045700	0.00696400	0.00890500	0.00022900	0.00011500
337.500	0.00003800	0.00057100	0.00411000	0.00513700	0.00011500	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA90.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00411000	0.00627900	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00262600	0.00468100	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00879000	0.00890500	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.01518300	0.01484100	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01221500	0.01723800	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.00913300	0.00742100	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00536600	0.00525200	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00479500	0.00479500	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00650700	0.00251200	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00262600	0.00080000	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00159900	0.00045700	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00171300	0.00148500	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00319700	0.00456700	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00331100	0.00365300	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00582200	0.00582200	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00274000	0.00376800	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	0.00653700	0.01061700	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00436300	0.00753500	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.01200800	0.02077700	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.02123400	0.03299100	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.02282300	0.02808300	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00952400	0.01427000	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00333200	0.00593700	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00295200	0.00479500	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00377800	0.00673600	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00151400	0.00388200	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00201200	0.00296900	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00156600	0.00216900	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00263400	0.00525200	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00460400	0.00867600	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00434400	0.01267200	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00271700	0.00433800	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -890.00	-790.00	-690.00	-590.00	-490.00	-390.00	-290.00	-190.00	-90.00
1030.00	0.051152	0.051329	0.051279	0.050980	0.050355	0.049359	0.047989	0.050171	0.053945
930.00	0.055627	0.055020	0.055168	0.055040	0.054531	0.053573	0.052107	0.052221	0.056680
830.00	0.060926	0.060358	0.059653	0.059743	0.059452	0.058626	0.057159	0.055299	0.059670
730.00	0.066913	0.066790	0.066160	0.065295	0.065311	0.064784	0.063476	0.061019	0.062527
630.00	0.073593	0.074105	0.074127	0.073481	0.072434	0.072347	0.071205	0.068795	0.066793
530.00	0.080969	0.082344	0.083320	0.083688	0.083174	0.081846	0.081200	0.080861	0.078225
430.00	0.088994	0.091488	0.093777	0.095654	0.096736	0.095988	0.096185	0.098297	0.097354
330.00	0.094620	0.099850	0.105393	0.109364	0.112225	0.116637	0.120924	0.123683	0.126636
230.00	0.099078	0.103927	0.110410	0.119198	0.130655	0.141392	0.153330	0.164672	0.173818
130.00	0.103454	0.107870	0.113789	0.121864	0.134256	0.154527	0.185650	0.218864	0.253469
30.00	0.107586	0.111447	0.116549	0.123252	0.135880	0.156612	0.188153	0.239199	0.327754
-70.00	0.110908	0.114095	0.118219	0.123645	0.134285	0.152794	0.182043	0.230599	0.311966
-170.00	0.108142	0.110802	0.114070	0.118334	0.127581	0.142703	0.166140	0.202443	0.254025
-270.00	0.105929	0.108204	0.110769	0.113974	0.120089	0.131701	0.144160	0.152155	0.150251
-370.00	0.104274	0.106209	0.108405	0.110763	0.109257	0.109259	0.107290	0.101525	0.099437
-470.00	0.103156	0.103986	0.101532	0.097224	0.091798	0.086336	0.079899	0.076170	0.080086
-570.00	0.096625	0.093440	0.089412	0.084229	0.077711	0.069857	0.065405	0.066363	0.067163
-670.00	0.087320	0.083571	0.078972	0.073473	0.066689	0.061684	0.059441	0.058570	0.058278
-770.00	0.078972	0.074937	0.070146	0.064573	0.060258	0.057448	0.054820	0.052532	0.051060
-870.00	0.071572	0.067469	0.062749	0.058869	0.056102	0.053287	0.050499	0.048157	0.047492
-970.00	0.065062	0.061050	0.057622	0.054970	0.052129	0.049230	0.046469	0.044121	0.044898
-1070.00	0.059356	0.056332	0.053886	0.051202	0.048357	0.045477	0.042732	0.041265	0.042867
-1170.00	0.054979	0.052761	0.050293	0.047620	0.044818	0.042002	0.039327	0.039607	0.041252

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00	510.00	610.00	710.00	810.00
1030.00	0.057827	0.061690	0.062897	0.055836	0.048747	0.041889	0.035471	0.031765	0.029359
930.00	0.061345	0.066016	0.067409	0.059015	0.050646	0.042656	0.035770	0.032637	0.029908
830.00	0.065234	0.071001	0.072593	0.062475	0.052500	0.043106	0.036923	0.033360	0.030267
730.00	0.069474	0.076658	0.078499	0.066005	0.053830	0.042995	0.037909	0.033842	0.030354
630.00	0.076614	0.086715	0.089191	0.072601	0.056279	0.044149	0.038459	0.033946	0.030058
530.00	0.086045	0.100400	0.104057	0.080917	0.058787	0.047176	0.039475	0.033535	0.030780
430.00	0.098424	0.119800	0.125386	0.091127	0.062235	0.050150	0.040485	0.035094	0.035685
330.00	0.121647	0.148513	0.157913	0.103319	0.069817	0.053065	0.043987	0.043761	0.042346
230.00	0.175505	0.194327	0.211093	0.113933	0.078801	0.061299	0.058880	0.054936	0.050907
130.00	0.288026	0.298667	0.315163	0.140056	0.098031	0.090452	0.079010	0.073773	0.070267
30.00	0.511619	0.744266	0.568200	0.170324	0.175779	0.156782	0.132876	0.111981	0.096664
-70.00	0.411264	0.418244	2.446395	0.520325	0.367306	0.254016	0.189100	0.147933	0.121400
-170.00	0.265065	0.275343	0.295815	0.340665	0.191830	0.146517	0.130818	0.113587	0.099127
-270.00	0.150060	0.164528	0.179270	0.169817	0.170801	0.126580	0.098859	0.081689	0.077178
-370.00	0.105831	0.115367	0.125104	0.101644	0.115820	0.118586	0.096774	0.080608	0.069177
-470.00	0.082005	0.089497	0.093936	0.078590	0.081916	0.090598	0.092550	0.079302	0.068739
-570.00	0.068403	0.072970	0.075127	0.066054	0.061033	0.069838	0.075315	0.076696	0.067693
-670.00	0.059570	0.062309	0.063754	0.057440	0.050753	0.055642	0.061341	0.064860	0.067327
-770.00	0.053259	0.055165	0.056327	0.051490	0.046164	0.044982	0.051080	0.055952	0.059181
-870.00	0.048974	0.050470	0.051712	0.047501	0.043418	0.039726	0.044222	0.048558	0.051916
-970.00	0.046498	0.048064	0.049366	0.045552	0.041677	0.037963	0.038600	0.042629	0.045915
-1070.00	0.044517	0.046157	0.047494	0.043929	0.040313	0.036807	0.034395	0.037824	0.040951
-1170.00	0.042938	0.044620	0.045969	0.042617	0.039212	0.035888	0.032756	0.033900	0.036823

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 910.00	1010.00	1110.00	1210.00	1310.00
1030.00	0.027206	0.025292	0.023594	0.022090	0.021083
930.00	0.027514	0.025427	0.023612	0.022455	0.023016
830.00	0.027619	0.025366	0.024009	0.024678	0.025190
730.00	0.027455	0.025811	0.026596	0.027204	0.027613
630.00	0.027990	0.028886	0.029578	0.030046	0.030299
530.00	0.031767	0.032496	0.032974	0.033218	0.033245
430.00	0.036319	0.036671	0.036793	0.036709	0.036436
330.00	0.041657	0.041410	0.041018	0.042015	0.043049
230.00	0.048891	0.050192	0.051116	0.051620	0.051699
130.00	0.065790	0.063877	0.063070	0.062124	0.060991
30.00	0.084983	0.078774	0.075823	0.073177	0.070652
-70.00	0.102993	0.093349	0.088366	0.084056	0.080153
-170.00	0.087720	0.081172	0.078053	0.075127	0.072359
-270.00	0.072149	0.069378	0.067826	0.066223	0.064543
-370.00	0.060175	0.058482	0.058253	0.057745	0.057007
-470.00	0.061439	0.056587	0.052577	0.050057	0.049977
-570.00	0.061822	0.056901	0.052900	0.049568	0.046733
-670.00	0.061504	0.056794	0.052891	0.049603	0.046782
-770.00	0.060788	0.056319	0.052597	0.049419	0.046663
-870.00	0.054361	0.055606	0.052075	0.049051	0.046399
-970.00	0.048483	0.050400	0.051410	0.048535	0.046014
-1070.00	0.043515	0.045545	0.047093	0.047932	0.045533
-1170.00	0.039308	0.041359	0.043004	0.044282	0.044982

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	-5290.00	-4790.00	-4290.00	-3790.00	-3290.00	-2790.00	-2290.00	-1790.00	-1290.00
5430.00	0.013110	0.013292	0.013420	0.013475	0.013449	0.013332	0.013108	0.013663	0.014916
4930.00	0.014661	0.014279	0.014471	0.014591	0.014629	0.014555	0.014349	0.014280	0.015741
4430.00	0.016406	0.016094	0.015656	0.015879	0.016006	0.016006	0.015845	0.015494	0.016658
3930.00	0.018337	0.018161	0.017842	0.017360	0.017621	0.017740	0.017667	0.017353	0.017681
3430.00	0.020477	0.020494	0.020368	0.020052	0.019513	0.019821	0.019910	0.019695	0.019084
2930.00	0.022821	0.023091	0.023240	0.023211	0.022927	0.022322	0.022679	0.022693	0.022172
2430.00	0.025341	0.025935	0.026455	0.026845	0.027014	0.026808	0.026138	0.026544	0.026286
1930.00	0.029109	0.029293	0.029974	0.030933	0.031774	0.032343	0.032371	0.031593	0.031949
1430.00	0.034100	0.034936	0.035702	0.036343	0.037107	0.038844	0.040262	0.040875	0.039980
930.00	0.039375	0.040992	0.042715	0.044534	0.046429	0.048241	0.049978	0.053294	0.055951
430.00	0.044763	0.047234	0.050035	0.053233	0.056950	0.061098	0.065614	0.070966	0.078172
-70.00	0.050011	0.053323	0.057192	0.061783	0.067380	0.074018	0.081808	0.091236	0.101416
-570.00	0.049522	0.052704	0.056397	0.060736	0.065962	0.072057	0.079045	0.087305	0.095795
-1070.00	0.048927	0.051957	0.055445	0.059509	0.064358	0.069942	0.076438	0.076498	0.070483
-1570.00	0.048238	0.051102	0.054370	0.058139	0.061438	0.061891	0.060688	0.056709	0.049073
-2070.00	0.047474	0.050165	0.051519	0.051862	0.051579	0.050337	0.047450	0.042496	0.036984
-2570.00	0.044725	0.044996	0.044927	0.044361	0.043087	0.040801	0.037348	0.033695	0.028234
-3070.00	0.039977	0.039710	0.039054	0.037875	0.036012	0.033343	0.030684	0.026930	0.021896
-3570.00	0.035650	0.034987	0.033930	0.032378	0.030267	0.028217	0.025403	0.021735	0.017238
-4070.00	0.031765	0.030828	0.029521	0.027806	0.026164	0.023980	0.021189	0.017777	0.016041
-4570.00	0.028308	0.027202	0.025781	0.024434	0.022686	0.020490	0.017823	0.014706	0.015407
-5070.00	0.025231	0.024069	0.022950	0.021518	0.019746	0.017611	0.015114	0.013059	0.014800
-5570.00	0.022533	0.021620	0.020460	0.019005	0.017261	0.015226	0.012913	0.012704	0.014226

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -790.00	-290.00	210.00	710.00	1210.00	1710.00	2210.00	2710.00	3210.00
5430.00	0.016194	0.017452	0.018583	0.016274	0.013921	0.011617	0.009438	0.008075	0.007515
4930.00	0.017249	0.018741	0.020075	0.017346	0.014570	0.011879	0.009373	0.008487	0.007834
4430.00	0.018458	0.020255	0.021849	0.018572	0.015251	0.012073	0.009746	0.008931	0.008165
3930.00	0.019861	0.022058	0.024002	0.019987	0.015945	0.012146	0.010387	0.009402	0.008499
3430.00	0.021500	0.024236	0.026642	0.021609	0.016593	0.012381	0.011089	0.009890	0.008822
2930.00	0.023412	0.026927	0.030009	0.023494	0.017115	0.013479	0.011827	0.010363	0.009130
2430.00	0.025678	0.030347	0.034461	0.025649	0.017324	0.014679	0.012561	0.010817	0.010752
1930.00	0.030992	0.034843	0.040710	0.027992	0.019220	0.015861	0.013254	0.013285	0.012785
1430.00	0.039983	0.040853	0.050274	0.029956	0.021240	0.016845	0.017235	0.016482	0.015253
930.00	0.055020	0.052107	0.067409	0.032637	0.022455	0.023856	0.022647	0.021016	0.020561
430.00	0.091488	0.096185	0.125386	0.035094	0.036709	0.037847	0.036018	0.032523	0.028993
-70.00	0.114095	0.182043	2.446395	0.147933	0.084056	0.066902	0.054038	0.044533	0.037476
-570.00	0.093440	0.065405	0.075127	0.076696	0.049568	0.043274	0.039773	0.035465	0.031439
-1070.00	0.056332	0.042732	0.047494	0.037824	0.047932	0.037849	0.031182	0.026834	0.025437
-1570.00	0.040085	0.033643	0.041313	0.028264	0.032358	0.036641	0.030946	0.026510	0.022962
-2070.00	0.028754	0.030148	0.036429	0.026779	0.023497	0.027942	0.030375	0.026456	0.023212
-2570.00	0.022394	0.027357	0.032231	0.025104	0.018483	0.021909	0.024584	0.026124	0.023202
-3070.00	0.021013	0.025027	0.028853	0.023415	0.018148	0.017624	0.020171	0.021926	0.023009
-3570.00	0.019760	0.023004	0.026063	0.021800	0.017582	0.014485	0.016787	0.018559	0.019824
-4070.00	0.018591	0.021249	0.023742	0.020315	0.016878	0.013651	0.014182	0.015860	0.017161
-4570.00	0.017563	0.019778	0.021851	0.019025	0.016168	0.013433	0.012139	0.013688	0.014958
-5070.00	0.016642	0.018513	0.020265	0.017890	0.015476	0.013134	0.010948	0.011922	0.013128
-5570.00	0.015813	0.017415	0.018915	0.016887	0.014820	0.012793	0.010872	0.010473	0.011600

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 3710.00	4210.00	4710.00	5210.00	5710.00
5430.00	0.006985	0.006491	0.006036	0.005619	0.005243
4930.00	0.007225	0.006667	0.006162	0.005713	0.005622
4430.00	0.007464	0.006832	0.006278	0.006184	0.006048
3930.00	0.007691	0.006988	0.006887	0.006723	0.006523
3430.00	0.007906	0.007802	0.007598	0.007338	0.007053
2930.00	0.009032	0.008770	0.008420	0.008034	0.007641
2430.00	0.010401	0.009905	0.009357	0.008808	0.008284
1930.00	0.012034	0.011212	0.010406	0.009955	0.009911
1430.00	0.013927	0.013630	0.013333	0.012894	0.012396
930.00	0.019538	0.018328	0.017135	0.016019	0.015000
430.00	0.025902	0.023262	0.021059	0.019205	0.017634
-70.00	0.032189	0.028088	0.024878	0.022298	0.020188
-570.00	0.027975	0.025044	0.022611	0.020569	0.018842
-1070.00	0.023692	0.021907	0.020255	0.018763	0.017432
-1570.00	0.020116	0.018888	0.017942	0.016964	0.016012
-2070.00	0.020514	0.018302	0.016474	0.015242	0.014632
-2570.00	0.020726	0.018621	0.016845	0.015342	0.014064
-3070.00	0.020755	0.018793	0.017099	0.015638	0.014378
-3570.00	0.020630	0.018827	0.017233	0.015835	0.014610
-4070.00	0.018111	0.018740	0.017259	0.015937	0.014761
-4570.00	0.015951	0.016689	0.017192	0.015953	0.014843
-5070.00	0.014117	0.014896	0.015484	0.015903	0.014833
-5570.00	0.012558	0.013344	0.013976	0.014439	0.014761

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2602 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.109957	AT (	110.00, -70.00)	GC	6.	0.056024	AT (	610.00, -70.00)	GC
2.	0.100578	AT (	310.00, -70.00)	GC	7.	0.052153	AT (	210.00, 30.00)	GC
3.	0.080136	AT (	410.00, -70.00)	GC	8.	0.049431	AT (	710.00, -70.00)	GC
4.	0.066698	AT (	10.00, -70.00)	GC	9.	0.049431	AT (	710.00, -70.00)	GC
5.	0.064177	AT (	510.00, -70.00)	GC	10.	0.048381	AT (	10.00, -170.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN02 ***

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	2.446395	AT (	210.00, -70.00)	GC	6.	0.419746	AT (	310.00, -70.00)	GC
2.	2.446395	AT (	210.00, -70.00)	GC	7.	0.344566	AT (	10.00, -70.00)	GC
3.	0.697327	AT (	110.00, 30.00)	GC	8.	0.308288	AT (	110.00, -70.00)	GC
4.	0.516047	AT (	210.00, 30.00)	GC	9.	0.298675	AT (	-90.00, 30.00)	GC
5.	0.478785	AT (	10.00, 30.00)	GC	10.	0.292807	AT (	310.00, -170.00)	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): 2602 , GEN02 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	2.446395	AT (	210.00, -70.00)	GC	6.	0.511619	AT (	10.00, 30.00)	GC
2.	2.446395	AT (	210.00, -70.00)	GC	7.	0.418244	AT (	110.00, -70.00)	GC
3.	0.744266	AT (	110.00, 30.00)	GC	8.	0.411264	AT (	10.00, -70.00)	GC
4.	0.568200	AT (	210.00, 30.00)	GC	9.	0.367306	AT (	410.00, -70.00)	GC
5.	0.520325	AT (	310.00, -70.00)	GC	10.	0.340665	AT (	310.00, -170.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2602 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.	0.000000	AT (	210.00, -70.00)	GC	6.	0.032834	AT (	10.00, 30.00)	GC
2.	0.000000	AT (	210.00, -70.00)	GC	7.	0.109957	AT (	110.00, -70.00)	GC
3.	0.046939	AT (	110.00, 30.00)	GC	8.	0.066698	AT (	10.00, -70.00)	GC
4.	0.052153	AT (	210.00, 30.00)	GC	9.	0.080136	AT (	410.00, -70.00)	GC
5.	0.100578	AT (	310.00, -70.00)	GC	10.	0.047857	AT (	310.00, -170.00)	GC

*** SOURCE GEN02 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.	2.446395	AT (	210.00, -70.00)	GC	6.	0.478785	AT (	10.00, 30.00)	GC
2.	2.446395	AT (	210.00, -70.00)	GC	7.	0.308288	AT (	110.00, -70.00)	GC
3.	0.697327	AT (	110.00, 30.00)	GC	8.	0.344566	AT (	10.00, -70.00)	GC
4.	0.516047	AT (	210.00, 30.00)	GC	9.	0.287170	AT (	410.00, -70.00)	GC
5.	0.419746	AT (	310.00, -70.00)	GC	10.	0.292807	AT (	310.00, -170.00)	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

```
** The results for this run are in file 26LT91A.OUT

CO STARTING
   TITLEONE  FGT CS 26 Turbine 2602 & Emergency Generator 2 1991 Met ISCLT NOx
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM 2602  0.860  17.68 748.7   18.90    1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58
SO BUILDWID 2602       18.29   21.56   21.55   18.26   12.19   18.26
SO BUILDWID 2602       21.55   21.56   18.29   21.56   21.55   18.26
SO BUILDWID 2602       12.19   18.26   21.55   21.56


SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN02  0.063  7.62  830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36    6.02   10.36    6.02    6.02
SO BUILDHGT GEN02       6.02   11.58   11.58   10.36
SO BUILDWID GEN02      18.29   21.56   25.43   18.71    9.14   28.18
SO BUILDWID GEN02      21.55   21.56   26.82   21.56   25.43   18.71
SO BUILDWID GEN02       9.14   18.26   21.55   21.56

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -890 23 100 -1170 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5290 23 500 -5570 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  TAMPA91.STA
   ANEMHGHT  10.
   SURFDATA  12842  1991  TAMPA
   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   300.6   300.6   300.6   295.4   290.1   290.1


**                        - 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 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04
   AVEMIXHT  ANNUAL 2 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 3 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 4 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+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: 26LT91a.IN                          ;  **Output Print File: 26LT91a.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
2602	0	0.86000E+00	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.63000E-01	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	18.3,	0	2	11.6,	21.6,	0	3	11.6,	21.5,	0	4	11.6,	18.3,	0
5	11.6,	12.2,	0	6	11.6,	18.3,	0	7	11.6,	21.5,	0	8	11.6,	21.6,	0
9	11.6,	18.3,	0	10	11.6,	21.6,	0	11	11.6,	21.5,	0	12	11.6,	18.3,	0
13	11.6,	12.2,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	11.6,	21.6,	0

SOURCE ID: GEN02

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.4,	18.3,	0	2	10.4,	21.6,	0	3	6.0,	25.4,	0	4	6.0,	18.7,	0
5	6.0,	9.1,	0	6	10.4,	28.2,	0	7	10.4,	21.5,	0	8	10.4,	21.6,	0
9	6.0,	26.8,	0	10	10.4,	21.6,	0	11	6.0,	25.4,	0	12	6.0,	18.7,	0
13	6.0,	9.1,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	10.4,	21.6,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0, 10.0,
110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0, 1010.0,
1110.0, 1210.0, 1310.0,

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

-1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0, -270.0,
-170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0, 730.0,
830.0, 930.0, 1030.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-5290.0, -4790.0, -4290.0, -3790.0, -3290.0, -2790.0, -2290.0, -1790.0, -1290.0, -790.0,
-290.0, 210.0, 710.0, 1210.0, 1710.0, 2210.0, 2710.0, 3210.0, 3710.0, 4210.0,
4710.0, 5210.0, 5710.0,

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

-5570.0, -5070.0, -4570.0, -4070.0, -3570.0, -3070.0, -2570.0, -2070.0, -1570.0, -1070.0,
-570.0, -70.0, 430.0, 930.0, 1430.0, 1930.0, 2430.0, 2930.0, 3430.0, 3930.0,
4430.0,. 4930.0, 5430.0,

*** 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)
2602	210.0	-70.0	0.39
2602	210.0	-70.0	0.39

*** 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	300.6000	300.6000	300.6000	295.4000	290.1000	290.1000

*** 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	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999
STABILITY CATEGORY B	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY C	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY D	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
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: TAMPA91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00056200	0.00022900	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00001800	0.00011500	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00022000	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00035200	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00051900	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00025500	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00033400	0.00045700	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00022000	0.00057100	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00053600	0.00091400	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00018500	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00025500	0.00080000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00044000	0.00114200	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00032500	0.00125600	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00001800	0.00011500	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00018500	0.00034300	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00003600	0.00022900	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	0.00105800	0.00182700	0.00068500	0.00000000	0.00000000	0.00000000
22.500	0.00042100	0.00114200	0.00159900	0.00000000	0.00000000	0.00000000
45.000	0.00077500	0.00331100	0.00114200	0.00000000	0.00000000	0.00000000
67.500	0.00186200	0.00342500	0.00353900	0.00000000	0.00000000	0.00000000
90.000	0.00094300	0.00422400	0.00274000	0.00000000	0.00000000	0.00000000
112.500	0.00136400	0.00308300	0.00388200	0.00000000	0.00000000	0.00000000
135.000	0.00094900	0.00205500	0.00445300	0.00000000	0.00000000	0.00000000
157.500	0.00128000	0.00148500	0.00319700	0.00000000	0.00000000	0.00000000
180.000	0.00183800	0.00296900	0.00216900	0.00000000	0.00000000	0.00000000
202.500	0.00039700	0.00296900	0.00239800	0.00000000	0.00000000	0.00000000

225.000	0.00096100	0.00228400	0.00331100	0.00000000	0.00000000	0.00000000
247.500	0.00033600	0.00411000	0.00662200	0.00000000	0.00000000	0.00000000
270.000	0.00079300	0.00365300	0.00593700	0.00000000	0.00000000	0.00000000
292.500	0.00018700	0.00125600	0.00125600	0.00000000	0.00000000	0.00000000
315.000	0.00073900	0.00034300	0.00045700	0.00000000	0.00000000	0.00000000
337.500	0.00014500	0.00045700	0.00080000	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00023500	0.00148500	0.00342500	0.00068500	0.00000000	0.00000000
22.500	0.00012900	0.00171300	0.00194100	0.00034300	0.00000000	0.00000000
45.000	0.00055800	0.00251200	0.00593700	0.00102800	0.00000000	0.00000000
67.500	0.00133300	0.00627900	0.01004600	0.00137000	0.00000000	0.00000000
90.000	0.00109000	0.00468100	0.00936100	0.00137000	0.00000000	0.00000000
112.500	0.00066100	0.00388200	0.00776300	0.00068500	0.00000000	0.00000000
135.000	0.00081800	0.00433800	0.00627900	0.00080000	0.00000000	0.00000000
157.500	0.00017200	0.00228400	0.00490900	0.00080000	0.00000000	0.00000000
180.000	0.00042700	0.00239800	0.00479500	0.00068500	0.00000000	0.00000000
202.500	0.00021800	0.00125600	0.00388200	0.00045700	0.00022900	0.00000000
225.000	0.00029500	0.00228400	0.00399600	0.00080000	0.00000000	0.00000000
247.500	0.00014700	0.00194100	0.00662200	0.00057100	0.00011500	0.00000000
270.000	0.00057500	0.00274000	0.01803700	0.00308300	0.00000000	0.00000000
292.500	0.00018300	0.00080000	0.00411000	0.00091400	0.00000000	0.00000000
315.000	0.00006100	0.00080000	0.00216900	0.00068500	0.00000000	0.00000000
337.500	0.00006900	0.00091400	0.00251200	0.00068500	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	0.00033200	0.00331100	0.01175800	0.00502300	0.00022900	0.00000000
22.500	0.00028600	0.00171300	0.00776300	0.00433800	0.00011500	0.00000000
45.000	0.00036600	0.00445300	0.01963500	0.00822000	0.00000000	0.00000000
67.500	0.00065100	0.00616500	0.02032000	0.00742100	0.00045700	0.00000000
90.000	0.00034100	0.00764900	0.02077700	0.01016000	0.00022900	0.00000000
112.500	0.00021500	0.00331100	0.01130200	0.00365300	0.00011500	0.00000000
135.000	0.00012400	0.00422400	0.01084500	0.00308300	0.00000000	0.00000000
157.500	0.00005700	0.00194100	0.00468100	0.00091400	0.00000000	0.00000000
180.000	0.00020800	0.00308300	0.00650700	0.00456700	0.00022900	0.00022900
202.500	0.00015500	0.00125600	0.00707800	0.00879000	0.00034300	0.00000000

225.000	0.00004700	0.00159900	0.00479500	0.00331100	0.00000000	0.00011500
247.500	0.00005400	0.00182700	0.00559400	0.00102800	0.00011500	0.00000000
270.000	0.00007100	0.00239800	0.01004600	0.00593700	0.00057100	0.00011500
292.500	0.00005400	0.00182700	0.00570800	0.00582200	0.00148500	0.00011500
315.000	0.00007700	0.00262600	0.00844800	0.00548000	0.00034300	0.00000000
337.500	0.00028200	0.00159900	0.00605100	0.00365300	0.00022900	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA91.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00456700	0.00525200	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00388200	0.00513700	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00970400	0.00776300	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.01552600	0.01050300	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01552600	0.00879000	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.01689500	0.00639300	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.01050300	0.00456700	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00536600	0.00114200	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00570800	0.00228400	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00205500	0.00159900	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00605100	0.00137000	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00422400	0.00091400	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00422400	0.00285400	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00365300	0.00239800	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00456700	0.00365300	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00262600	0.00353900	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	0.00391200	0.00685000	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00412200	0.00605100	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.01149900	0.01518300	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.02154300	0.03093700	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.01643400	0.01997800	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.01285800	0.01883600	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00384100	0.00559400	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00191100	0.00251200	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00257700	0.00479500	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00218700	0.00194100	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00287100	0.00479500	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00199700	0.00331100	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00333200	0.00536600	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00376000	0.00582200	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00618900	0.01061700	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00291500	0.00342500	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -890.00	-790.00	-690.00	-590.00	-490.00	-390.00	-290.00	-190.00	-90.00
1030.00	0.056636	0.055231	0.053298	0.050752	0.047469	0.043369	0.038423	0.039390	0.042931
930.00	0.062933	0.061156	0.059452	0.057053	0.053768	0.049460	0.044025	0.040979	0.045090
830.00	0.070306	0.068731	0.066696	0.064548	0.061418	0.057022	0.051156	0.043939	0.047440
730.00	0.078676	0.077709	0.075976	0.073579	0.070774	0.066515	0.060365	0.051908	0.049665
630.00	0.088052	0.087955	0.087100	0.085238	0.082383	0.078531	0.072138	0.062878	0.053069
530.00	0.098423	0.099508	0.099934	0.099391	0.097510	0.093832	0.087724	0.079621	0.066400
430.00	0.109699	0.112310	0.114494	0.115920	0.115970	0.113556	0.110869	0.104592	0.090941
330.00	0.113106	0.122810	0.130596	0.134730	0.137267	0.140863	0.143371	0.142070	0.130521
230.00	0.110557	0.119180	0.130311	0.144887	0.162276	0.173410	0.185017	0.194476	0.197672
130.00	0.107193	0.114451	0.123913	0.136483	0.154765	0.182693	0.225314	0.262449	0.295734
30.00	0.103104	0.108681	0.115931	0.125445	0.141623	0.166687	0.204247	0.264377	0.369346
-70.00	0.099255	0.103152	0.108191	0.114863	0.126914	0.146382	0.176456	0.223872	0.296212
-170.00	0.099526	0.103226	0.107886	0.114031	0.125677	0.143559	0.171074	0.213168	0.273239
-270.00	0.100223	0.103809	0.108092	0.113627	0.122974	0.138487	0.158056	0.179158	0.199633
-370.00	0.101234	0.104652	0.108711	0.113606	0.116316	0.122512	0.129850	0.138413	0.145822
-470.00	0.102475	0.104919	0.104670	0.103569	0.102633	0.103933	0.106541	0.109433	0.106913
-570.00	0.098006	0.096581	0.094897	0.092935	0.090869	0.088980	0.089484	0.087689	0.082309
-670.00	0.090341	0.088424	0.086197	0.083732	0.081024	0.079119	0.075587	0.072130	0.066401
-770.00	0.083339	0.081125	0.078621	0.075908	0.073747	0.070266	0.066163	0.060815	0.056091
-870.00	0.077034	0.074689	0.072113	0.069922	0.066620	0.062798	0.058440	0.053656	0.051260
-970.00	0.071411	0.069061	0.066987	0.063901	0.060359	0.056397	0.052086	0.047761	0.047343
-1070.00	0.066424	0.064518	0.061691	0.058455	0.054837	0.050895	0.046728	0.043967	0.044222
-1170.00	0.062323	0.059758	0.056827	0.053545	0.049952	0.046117	0.042150	0.041386	0.041700

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00	510.00	610.00	710.00	810.00
1030.00	0.046574	0.050194	0.052345	0.049020	0.045659	0.042377	0.039276	0.037287	0.035752
930.00	0.049400	0.053708	0.056215	0.052158	0.048073	0.044127	0.040624	0.038646	0.036883
830.00	0.052548	0.057787	0.060731	0.055764	0.050749	0.045952	0.042403	0.040021	0.037985
730.00	0.055955	0.062475	0.066020	0.059584	0.053394	0.047806	0.044185	0.041364	0.039024
630.00	0.061453	0.070450	0.075067	0.066804	0.057942	0.049746	0.045608	0.042652	0.039889
530.00	0.068982	0.081359	0.087592	0.076477	0.064527	0.055474	0.048771	0.043738	0.040645
430.00	0.078968	0.097150	0.106299	0.090313	0.073330	0.061615	0.052317	0.045532	0.043951
330.00	0.102121	0.121484	0.137057	0.111132	0.086375	0.068329	0.055932	0.052334	0.048827
230.00	0.169197	0.158735	0.190614	0.139517	0.101532	0.075983	0.067622	0.060623	0.055027
130.00	0.318478	0.236053	0.299945	0.182041	0.117639	0.098292	0.082310	0.075670	0.070460
30.00	0.578002	0.794965	0.606633	0.196054	0.176126	0.151430	0.125836	0.104915	0.090328
-70.00	0.372532	0.355651	2.131075	0.441575	0.323331	0.226147	0.168115	0.131637	0.108549
-170.00	0.307518	0.351846	0.283077	0.303600	0.174632	0.132682	0.117491	0.101494	0.088526
-270.00	0.213590	0.190606	0.172923	0.161611	0.156895	0.115803	0.089696	0.073219	0.068576
-370.00	0.135900	0.128622	0.124555	0.099405	0.109015	0.108250	0.087744	0.072465	0.061408
-470.00	0.095516	0.098084	0.094771	0.078048	0.078803	0.084004	0.083905	0.071416	0.061285
-570.00	0.077352	0.078500	0.075703	0.065819	0.059815	0.065796	0.069119	0.069188	0.060613
-670.00	0.065288	0.065475	0.063507	0.056831	0.049689	0.052991	0.056822	0.059015	0.060542
-770.00	0.056869	0.056728	0.055388	0.050412	0.044869	0.043168	0.047683	0.051360	0.053671
-870.00	0.050932	0.050594	0.049825	0.045741	0.041840	0.038180	0.041735	0.044969	0.047389
-970.00	0.047350	0.047108	0.046583	0.043186	0.039694	0.036317	0.036722	0.039759	0.042186
-1070.00	0.044324	0.044263	0.043973	0.040969	0.037897	0.034893	0.032842	0.035519	0.037864
-1170.00	0.041905	0.041994	0.041879	0.039173	0.036404	0.033678	0.031085	0.032038	0.034253

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 910.00	1010.00	1110.00	1210.00	1310.00
1030.00	0.034394	0.033190	0.032115	0.031147	0.030105
930.00	0.035352	0.034019	0.032847	0.031645	0.031247
830.00	0.036257	0.034783	0.033370	0.033001	0.032538
730.00	0.037074	0.035348	0.035000	0.034554	0.033992
630.00	0.037719	0.037353	0.036901	0.036327	0.035630
530.00	0.040205	0.039733	0.039104	0.038347	0.037472
430.00	0.043251	0.042497	0.041636	0.040632	0.039527
330.00	0.046839	0.045715	0.044513	0.044661	0.044561
230.00	0.052282	0.052504	0.052178	0.051631	0.050901
130.00	0.065038	0.062349	0.060741	0.059197	0.057657
30.00	0.079298	0.073070	0.069852	0.067113	0.064639
-70.00	0.092407	0.083531	0.078778	0.074857	0.071453
-170.00	0.078314	0.072187	0.069247	0.066597	0.064207
-270.00	0.063837	0.061226	0.059770	0.058347	0.056935
-370.00	0.052488	0.051021	0.050879	0.050478	0.049917
-470.00	0.054209	0.049555	0.045719	0.043325	0.043368
-570.00	0.054925	0.050213	0.046353	0.043169	0.040491
-670.00	0.054981	0.050405	0.046635	0.043482	0.040803
-770.00	0.054546	0.050210	0.046614	0.043561	0.040933
-870.00	0.049083	0.049764	0.046348	0.043438	0.040903
-970.00	0.044035	0.045369	0.045925	0.043152	0.040736
-1070.00	0.039753	0.041216	0.042299	0.042765	0.040458
-1170.00	0.036111	0.037622	0.038810	0.039711	0.040100

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	-5290.00	-4790.00	-4290.00	-3790.00	-3290.00	-2790.00	-2290.00	-1790.00	-1290.00
5430.00	0.015758	0.015346	0.014767	0.013990	0.012999	0.011783	0.010333	0.010255	0.011381
4930.00	0.017807	0.017094	0.016576	0.015841	0.014861	0.013601	0.012042	0.010696	0.012016
4430.00	0.020118	0.019482	0.018650	0.018011	0.017083	0.015814	0.014166	0.012123	0.012708
3930.00	0.022692	0.022213	0.021509	0.020545	0.019736	0.018522	0.016829	0.014606	0.013456
3430.00	0.025557	0.025310	0.024830	0.024046	0.022898	0.021844	0.020198	0.017841	0.014710
2930.00	0.028711	0.028781	0.028635	0.028187	0.027319	0.025914	0.024469	0.022094	0.018626
2430.00	0.032126	0.032610	0.032934	0.033002	0.032675	0.031705	0.029894	0.027797	0.024155
1930.00	0.034794	0.036449	0.037688	0.038489	0.039009	0.038947	0.037964	0.035533	0.032197
1430.00	0.036819	0.038752	0.040960	0.043540	0.046211	0.047676	0.048464	0.047763	0.044321
930.00	0.038870	0.041106	0.043679	0.046702	0.050291	0.054751	0.060673	0.064716	0.066037
430.00	0.040878	0.043418	0.046360	0.049825	0.053963	0.059043	0.065447	0.074606	0.089800
-70.00	0.042788	0.045609	0.048886	0.052757	0.057384	0.062959	0.069705	0.078160	0.088212
-570.00	0.043998	0.046980	0.050461	0.054588	0.059562	0.065589	0.072903	0.082148	0.093068
-1070.00	0.045096	0.048209	0.051850	0.056179	0.061429	0.067799	0.075676	0.076907	0.073383
-1570.00	0.046029	0.049225	0.052956	0.057378	0.061396	0.062408	0.062193	0.059828	0.054768
-2070.00	0.046761	0.049984	0.051728	0.052484	0.052778	0.052325	0.050613	0.047422	0.040854
-2570.00	0.045002	0.045578	0.045907	0.045868	0.045291	0.043934	0.041702	0.037420	0.031042
-3070.00	0.040766	0.040866	0.040674	0.040088	0.038980	0.037275	0.034241	0.029903	0.024074
-3570.00	0.036870	0.036612	0.036056	0.035126	0.033785	0.031521	0.028356	0.024186	0.019035
-4070.00	0.033333	0.032821	0.032029	0.030941	0.029183	0.026789	0.023682	0.019842	0.017335
-4570.00	0.030149	0.029472	0.028568	0.027165	0.025297	0.022906	0.019960	0.016481	0.016297
-5070.00	0.027282	0.026543	0.025406	0.023912	0.022024	0.019711	0.016971	0.014517	0.015382
-5570.00	0.024739	0.023826	0.022636	0.021117	0.019263	0.017069	0.014545	0.013814	0.014566

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -790.00	-290.00	210.00	710.00	1210.00	1710.00	2210.00	2710.00	3210.00
5430.00	0.012533	0.013671	0.014718	0.013825	0.012858	0.011857	0.010858	0.010299	0.010186
4930.00	0.013383	0.014742	0.015988	0.014936	0.013793	0.012616	0.011454	0.011191	0.011011
4430.00	0.014354	0.016005	0.017515	0.016250	0.014874	0.013469	0.012447	0.012202	0.011932
3930.00	0.015467	0.017509	0.019383	0.017822	0.016131	0.014423	0.013717	0.013345	0.012953
3430.00	0.016716	0.019306	0.021687	0.019713	0.017585	0.015699	0.015180	0.014634	0.014076
2930.00	0.018127	0.021502	0.024629	0.022029	0.019265	0.017646	0.016854	0.016062	0.015252
2430.00	0.019686	0.024213	0.028491	0.024905	0.021225	0.019918	0.018734	0.017559	0.016000
1930.00	0.025911	0.027601	0.033799	0.028456	0.024455	0.022515	0.020721	0.018719	0.016795
1430.00	0.038107	0.031884	0.041747	0.032799	0.028159	0.025155	0.022676	0.020051	0.017641
930.00	0.061156	0.044025	0.056215	0.038646	0.031645	0.028893	0.025179	0.022253	0.021339
430.00	0.112310	0.110869	0.106299	0.045532	0.040632	0.038226	0.035328	0.031710	0.028290
-70.00	0.103152	0.176456	2.131075	0.131637	0.074857	0.060422	0.049709	0.041490	0.035243
-570.00	0.096581	0.089484	0.075703	0.069188	0.043169	0.037758	0.035482	0.032186	0.028895
-1070.00	0.064518	0.046728	0.043973	0.035519	0.042765	0.033215	0.027181	0.023456	0.022682
-1570.00	0.044020	0.034065	0.036168	0.026309	0.029480	0.032603	0.027330	0.023336	0.020209
-2070.00	0.030980	0.029164	0.031470	0.024222	0.021807	0.025241	0.027043	0.023470	0.020566
-2570.00	0.023777	0.025930	0.027907	0.022472	0.017388	0.020091	0.022162	0.023304	0.020677
-3070.00	0.021677	0.023460	0.025073	0.020883	0.016809	0.016432	0.018424	0.019786	0.020600
-3570.00	0.019998	0.021458	0.022776	0.019456	0.016163	0.013743	0.015555	0.016943	0.017929
-4070.00	0.018551	0.019756	0.020844	0.018155	0.015454	0.012913	0.013335	0.014658	0.015682
-4570.00	0.017325	0.018334	0.019242	0.017018	0.014766	0.012606	0.011583	0.012808	0.013815
-5070.00	0.016258	0.017112	0.017880	0.016010	0.014105	0.012254	0.010521	0.011295	0.012255
-5570.00	0.015319	0.016049	0.016707	0.015111	0.013481	0.011879	0.010357	0.010043	0.010943

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 3710.00	4210.00	4710.00	5210.00	5710.00
5430.00	0.010052	0.009901	0.009734	0.009551	0.009346
4930.00	0.010811	0.010595	0.010368	0.010119	0.009525
4430.00	0.011644	0.011345	0.011023	0.010333	0.009691
3930.00	0.012550	0.012123	0.011298	0.010533	0.009833
3430.00	0.013495	0.012492	0.011562	0.010715	0.009954
2930.00	0.014009	0.012854	0.011808	0.010876	0.010052
2430.00	0.014532	0.013203	0.012033	0.011012	0.010125
1930.00	0.015057	0.013536	0.012232	0.011461	0.011231
1430.00	0.015580	0.014942	0.014438	0.013850	0.013238
930.00	0.020105	0.018796	0.017538	0.016381	0.015334
430.00	0.025334	0.022830	0.020727	0.018953	0.017446
-70.00	0.030480	0.026763	0.023817	0.021440	0.019486
-570.00	0.025961	0.023433	0.021289	0.019471	0.017920
-1070.00	0.021438	0.020053	0.018699	0.017442	0.016300
-1570.00	0.017729	0.016842	0.016187	0.015445	0.014687
-2070.00	0.018185	0.016228	0.014606	0.013556	0.013137
-2570.00	0.018463	0.016587	0.014999	0.013649	0.012492
-3070.00	0.018574	0.016815	0.015293	0.013974	0.012829
-3570.00	0.018544	0.016920	0.015483	0.014215	0.013099
-4070.00	0.016430	0.016917	0.015577	0.014374	0.013298
-4570.00	0.014604	0.015191	0.015587	0.014456	0.013437
-5070.00	0.013045	0.013670	0.014143	0.014479	0.013493
-5570.00	0.011712	0.012347	0.012859	0.013233	0.013490

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2602 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.091863	AT (	110.00, -70.00)	GC	6.	0.048580	AT (	510.00, -70.00)	GC
2.	0.077316	AT (	310.00, -70.00)	GC	7.	0.047172	AT (	10.00, -170.00)	GC
3.	0.063979	AT (	110.00, -170.00)	GC	8.	0.047139	AT (	210.00, -170.00)	GC
4.	0.060900	AT (	410.00, -70.00)	GC	9.	0.042455	AT (	610.00, -70.00)	GC
5.	0.054909	AT (	10.00, -70.00)	GC	10.	0.041807	AT (	110.00, 30.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN02 ***

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	2.131075	AT (	210.00, -70.00)	GC	6.	0.364259	AT (	310.00, -70.00)	GC
2.	2.131075	AT (	210.00, -70.00)	GC	7.	0.341231	AT (	-90.00, 30.00)	GC
3.	0.753157	AT (	110.00, 30.00)	GC	8.	0.317624	AT (	10.00, -70.00)	GC
4.	0.566912	AT (	210.00, 30.00)	GC	9.	0.292154	AT (	10.00, 130.00)	GC
5.	0.545788	AT (	10.00, 30.00)	GC	10.	0.287867	AT (	110.00, -170.00)	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): 2602 , GEN02 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	2.131075	AT (	210.00,	-70.00)	GC	6.	0.441575	AT (	310.00,	-70.00)	GC
2.	2.131075	AT (	210.00,	-70.00)	GC	7.	0.372532	AT (	10.00,	-70.00)	GC
3.	0.794965	AT (	110.00,	30.00)	GC	8.	0.369346	AT (	-90.00,	30.00)	GC
4.	0.606633	AT (	210.00,	30.00)	GC	9.	0.355651	AT (	110.00,	-70.00)	GC
5.	0.578002	AT (	10.00,	30.00)	GC	10.	0.351846	AT (	110.00,	-170.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2602 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.	0.000000	AT (	210.00,	-70.00)	GC	6.	0.077316	AT (	310.00,	-70.00)	GC
2.	0.000000	AT (	210.00,	-70.00)	GC	7.	0.054909	AT (	10.00,	-70.00)	GC
3.	0.041807	AT (	110.00,	30.00)	GC	8.	0.028115	AT (	-90.00,	30.00)	GC
4.	0.039721	AT (	210.00,	30.00)	GC	9.	0.091863	AT (	110.00,	-70.00)	GC
5.	0.032215	AT (	10.00,	30.00)	GC	10.	0.063979	AT (	110.00,	-170.00)	GC

*** SOURCE GEN02 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.	2.131075	AT (	210.00,	-70.00)	GC	6.	0.364259	AT (	310.00,	-70.00)	GC
2.	2.131075	AT (	210.00,	-70.00)	GC	7.	0.317624	AT (	10.00,	-70.00)	GC
3.	0.753157	AT (	110.00,	30.00)	GC	8.	0.341231	AT (	-90.00,	30.00)	GC
4.	0.566912	AT (	210.00,	30.00)	GC	9.	0.263788	AT (	110.00,	-70.00)	GC
5.	0.545788	AT (	10.00,	30.00)	GC	10.	0.287867	AT (	110.00,	-170.00)	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 26LT92A.OUT

CO STARTING
   TITLEONE  FGT CS 26 Turbine 2602 & Emergency Generator 2 1992 Met ISCLT NOx
   MODELOPT  DFAULT  CONC  RURAL
   AVERTIME  ANNUAL
   POLLUTID  NOX
   RUNORNOT  RUN
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM 2602  0.860  17.68 748.7   18.90    1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58
SO BUILDWID 2602       18.29   21.56   21.55   18.26   12.19   18.26
SO BUILDWID 2602       21.55   21.56   18.29   21.56   21.55   18.26
SO BUILDWID 2602       12.19   18.26   21.55   21.56


SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters      QS     HS    TS      VS       DS
**                -----  ----  -----   -----    ---
SO SRCPARAM GEN02  0.063  7.62  830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36    6.02   10.36    6.02    6.02
SO BUILDHGT GEN02       6.02   11.58   11.58   10.36
SO BUILDWID GEN02      18.29   21.56   25.43   18.71    9.14   28.18
SO BUILDWID GEN02      21.55   21.56   26.82   21.56   25.43   18.71
SO BUILDWID GEN02       9.14   18.26   21.55   21.56

SO SRCGROUP ALL
SO FINISHED

RE STARTING
   GRIDCART 100MGrid STA
   GRIDCART 100MGrid XYINC  -890 23 100 -1170 23 100
   GRIDCART 100MGrid END
   GRIDCART 500MGrid STA
   GRIDCART 500MGrid XYINC  -5290 23 500 -5570 23 500
   GRIDCART 500MGrid END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  TAMPA92.STA
   ANEMHGHT  10.
   SURFDATA  12842  1992  TAMPA
   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   300.6   300.6   300.6   295.4   290.1   290.1


**                        - 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 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04 .195E+04
   AVEMIXHT  ANNUAL 2 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 3 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04
   AVEMIXHT  ANNUAL 4 .130E+04 .130E+04 .130E+04 .130E+04 .130E+04 .130E+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: 26LT92a.IN ; **Output Print File: 26LT92a.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
2602	0	0.86000E+00	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.63000E-01	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	11.6,	18.3,	0	2	11.6,	21.6,	0	3	11.6,	21.5,	0	4	11.6,	18.3,	0
5	11.6,	12.2,	0	6	11.6,	18.3,	0	7	11.6,	21.5,	0	8	11.6,	21.6,	0
9	11.6,	18.3,	0	10	11.6,	21.6,	0	11	11.6,	21.5,	0	12	11.6,	18.3,	0
13	11.6,	12.2,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	11.6,	21.6,	0

SOURCE ID: GEN02

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.4,	18.3,	0	2	10.4,	21.6,	0	3	6.0,	25.4,	0	4	6.0,	18.7,	0
5	6.0,	9.1,	0	6	10.4,	28.2,	0	7	10.4,	21.5,	0	8	10.4,	21.6,	0
9	6.0,	26.8,	0	10	10.4,	21.6,	0	11	6.0,	25.4,	0	12	6.0,	18.7,	0
13	6.0,	9.1,	0	14	11.6,	18.3,	0	15	11.6,	21.5,	0	16	10.4,	21.6,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0, 10.0,
110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0, 1010.0,
1110.0, 1210.0, 1310.0,

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

-1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0, -270.0,
-170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0, 730.0,
830.0, 930.0, 1030.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-5290.0, -4790.0, -4290.0, -3790.0, -3290.0, -2790.0, -2290.0, -1790.0, -1290.0, -790.0,
-290.0, 210.0, 710.0, 1210.0, 1710.0, 2210.0, 2710.0, 3210.0, 3710.0, 4210.0,
4710.0, 5210.0, 5710.0,

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

-5570.0, -5070.0, -4570.0, -4070.0, -3570.0, -3070.0, -2570.0, -2070.0, -1570.0, -1070.0,
-570.0, -70.0, 430.0, 930.0, 1430.0, 1930.0, 2430.0, 2930.0, 3430.0, 3930.0,
4430.0, 4930.0, 5430.0,

*** 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)
2602	210.0	-70.0	0.39
2602	210.0	-70.0	0.39

*** 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	300.6000	300.6000	300.6000	295.4000	290.1000	290.1000

*** 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	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999	1949.9999
STABILITY CATEGORY B	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY C	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
STABILITY CATEGORY D	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000	1300.0000
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: TAMPA92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00015400	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.00006000	0.00068400	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.00028700	0.00045600	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.00029700	0.00057000	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.00014400	0.00022800	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00015400	0.00034200	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00002000	0.00022800	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00059400	0.00113900	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00013400	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
225.000	0.00025200	0.00148000	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00032700	0.00091100	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00014400	0.00022800	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00013400	0.00011400	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.00014400	0.00022800	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00001000	0.00011400	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	0.00085700	0.00193600	0.00079700	0.00000000	0.00000000	0.00000000
22.500	0.00104700	0.00113900	0.00102500	0.00000000	0.00000000	0.00000000
45.000	0.00145700	0.00182200	0.00125300	0.00000000	0.00000000	0.00000000
67.500	0.00150200	0.00250500	0.00273300	0.00000000	0.00000000	0.00000000
90.000	0.00193400	0.00353000	0.00227700	0.00000000	0.00000000	0.00000000
112.500	0.00200300	0.00273300	0.00330200	0.00000000	0.00000000	0.00000000
135.000	0.00077400	0.00250500	0.00307400	0.00000000	0.00000000	0.00000000
157.500	0.00069800	0.00136700	0.00205000	0.00000000	0.00000000	0.00000000
180.000	0.00150200	0.00250500	0.00193600	0.00000000	0.00000000	0.00000000
202.500	0.00032600	0.00125300	0.00273300	0.00000000	0.00000000	0.00000000

225.000	0.00044000	0.00296000	0.00353000	0.00000000	0.00000000	0.00000000
247.500	0.00084900	0.00364300	0.00842500	0.00000000	0.00000000	0.00000000
270.000	0.00088700	0.00421300	0.00888000	0.00000000	0.00000000	0.00000000
292.500	0.00094100	0.00136700	0.00205000	0.00000000	0.00000000	0.00000000
315.000	0.00069100	0.00125300	0.00034200	0.00000000	0.00000000	0.00000000
337.500	0.00106200	0.00136700	0.00102500	0.00000000	0.00000000	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00062200	0.00125300	0.00409900	0.00079700	0.00000000	0.00000000
22.500	0.00013300	0.00136700	0.00261900	0.00045600	0.00000000	0.00000000
45.000	0.00072200	0.00227700	0.00637600	0.00136700	0.00000000	0.00000000
67.500	0.00126200	0.00398500	0.00876600	0.00125300	0.00000000	0.00000000
90.000	0.00112600	0.00387100	0.00626200	0.00113900	0.00000000	0.00000000
112.500	0.00119600	0.00330200	0.00535100	0.00102500	0.00000000	0.00000000
135.000	0.00064100	0.00273300	0.00694500	0.00102500	0.00000000	0.00000000
157.500	0.00029200	0.00170800	0.00364300	0.00057000	0.00000000	0.00000000
180.000	0.00016700	0.00170800	0.00227700	0.00045600	0.00000000	0.00000000
202.500	0.00025800	0.00136700	0.00364300	0.00136700	0.00000000	0.00000000
225.000	0.00036100	0.00113900	0.00478200	0.00045600	0.00000000	0.00000000
247.500	0.00038000	0.00261900	0.00853900	0.00079700	0.00000000	0.00000000
270.000	0.00038000	0.00261900	0.01343400	0.00819700	0.00000000	0.00000000
292.500	0.00020300	0.00079700	0.00535100	0.00159400	0.00011400	0.00000000
315.000	0.00024700	0.00125300	0.00364300	0.00125300	0.00045600	0.00000000
337.500	0.00021400	0.00091100	0.00193600	0.00102500	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	0.00027100	0.00148000	0.00888000	0.00296000	0.00034200	0.00000000
22.500	0.00021400	0.00216400	0.01001900	0.00409900	0.00011400	0.00000000
45.000	0.00077900	0.00409900	0.02436300	0.00705900	0.00000000	0.00000000
67.500	0.00112100	0.00375700	0.02106200	0.00797000	0.00000000	0.00000000
90.000	0.00140500	0.00409900	0.01275100	0.00751400	0.00000000	0.00000000
112.500	0.00096200	0.00341600	0.01013300	0.00284700	0.00000000	0.00000000
135.000	0.00067700	0.00432700	0.01388900	0.00375700	0.00045600	0.00011400
157.500	0.00032700	0.00205000	0.00592000	0.00182200	0.00000000	0.00000000
180.000	0.00066700	0.00296000	0.00910800	0.00375700	0.00000000	0.00000000
202.500	0.00020200	0.00205000	0.00580700	0.00580700	0.00000000	0.00000000

225.000	0.00047500	0.00227700	0.00535100	0.00318800	0.00000000	0.00000000
247.500	0.00045200	0.00205000	0.00569300	0.00330200	0.00000000	0.00000000
270.000	0.00039500	0.00273300	0.01058800	0.01480000	0.00034200	0.00000000
292.500	0.00028300	0.00159400	0.00888000	0.01127100	0.00091100	0.00000000
315.000	0.00011300	0.00113900	0.01081600	0.00990500	0.00148000	0.00000000
337.500	0.00009000	0.00091100	0.00797000	0.00694500	0.00102500	0.00000000

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

FILE: TAMPA92.STA FORMAT: (6F10.0)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	0.00466800	0.00296000	0.00000000	0.00000000	0.00000000
22.500	0.00000000	0.00330200	0.00364300	0.00000000	0.00000000	0.00000000
45.000	0.00000000	0.00899400	0.00876600	0.00000000	0.00000000	0.00000000
67.500	0.00000000	0.01423100	0.00649000	0.00000000	0.00000000	0.00000000
90.000	0.00000000	0.01354800	0.00444000	0.00000000	0.00000000	0.00000000
112.500	0.00000000	0.01286500	0.00250500	0.00000000	0.00000000	0.00000000
135.000	0.00000000	0.00865300	0.00375700	0.00000000	0.00000000	0.00000000
157.500	0.00000000	0.00512300	0.00113900	0.00000000	0.00000000	0.00000000
180.000	0.00000000	0.00762800	0.00205000	0.00000000	0.00000000	0.00000000
202.500	0.00000000	0.00284700	0.00091100	0.00000000	0.00000000	0.00000000
225.000	0.00000000	0.00227700	0.00136700	0.00000000	0.00000000	0.00000000
247.500	0.00000000	0.00216400	0.00216400	0.00000000	0.00000000	0.00000000
270.000	0.00000000	0.00148000	0.00569300	0.00000000	0.00000000	0.00000000
292.500	0.00000000	0.00375700	0.00603400	0.00000000	0.00000000	0.00000000
315.000	0.00000000	0.00649000	0.00660300	0.00000000	0.00000000	0.00000000
337.500	0.00000000	0.00296000	0.00273300	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	0.00806000	0.00671700	0.00000000	0.00000000	0.00000000	0.00000000
22.500	0.00502000	0.00523700	0.00000000	0.00000000	0.00000000	0.00000000
45.000	0.01547100	0.01286500	0.00000000	0.00000000	0.00000000	0.00000000
67.500	0.02358400	0.01935400	0.00000000	0.00000000	0.00000000	0.00000000
90.000	0.01828800	0.01161300	0.00000000	0.00000000	0.00000000	0.00000000
112.500	0.01328200	0.01036000	0.00000000	0.00000000	0.00000000	0.00000000
135.000	0.00553500	0.00489600	0.00000000	0.00000000	0.00000000	0.00000000
157.500	0.00410800	0.00284700	0.00000000	0.00000000	0.00000000	0.00000000
180.000	0.00422800	0.00307400	0.00000000	0.00000000	0.00000000	0.00000000
202.500	0.00211100	0.00136700	0.00000000	0.00000000	0.00000000	0.00000000

225.000	0.00334600	0.00239100	0.00000000	0.00000000	0.00000000	0.00000000
247.500	0.00301700	0.00341600	0.00000000	0.00000000	0.00000000	0.00000000
270.000	0.00547500	0.00478200	0.00000000	0.00000000	0.00000000	0.00000000
292.500	0.00770100	0.00933600	0.00000000	0.00000000	0.00000000	0.00000000
315.000	0.01230200	0.01707700	0.00000000	0.00000000	0.00000000	0.00000000
337.500	0.00406600	0.00375700	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	-890.00	-790.00	-690.00	-590.00	-490.00	-390.00	-290.00	-190.00	-90.00
1030.00	0.057503	0.055984	0.053902	0.051179	0.047700	0.043392	0.038236	0.038691	0.041839
930.00	0.061471	0.061968	0.060099	0.057493	0.053978	0.049428	0.043751	0.040198	0.043941
830.00	0.065862	0.066737	0.067374	0.065002	0.061606	0.056928	0.050780	0.043272	0.046178
730.00	0.070738	0.072066	0.073216	0.074028	0.070938	0.066357	0.059884	0.051119	0.048137
630.00	0.076076	0.077994	0.079788	0.081387	0.082503	0.078323	0.071556	0.061812	0.051317
530.00	0.081852	0.084517	0.087165	0.089720	0.092114	0.093578	0.086977	0.078649	0.064907
430.00	0.088000	0.091573	0.095308	0.099145	0.102877	0.105766	0.110205	0.103555	0.089207
330.00	0.088670	0.096600	0.104060	0.109525	0.114518	0.122370	0.132135	0.141333	0.128699
230.00	0.085469	0.092338	0.101275	0.113064	0.128100	0.140838	0.157213	0.176547	0.196308
130.00	0.081549	0.087086	0.094366	0.104192	0.118623	0.141211	0.176953	0.215365	0.260572
30.00	0.077026	0.080962	0.086100	0.093025	0.105056	0.124250	0.153633	0.201556	0.284916
-70.00	0.073163	0.075621	0.078823	0.083270	0.091580	0.105419	0.127467	0.163155	0.218576
-170.00	0.075952	0.078781	0.082475	0.087616	0.097509	0.113241	0.138457	0.179323	0.243269
-270.00	0.079043	0.082282	0.086354	0.091969	0.101566	0.117737	0.139918	0.167307	0.201028
-370.00	0.082254	0.085802	0.090199	0.096015	0.101162	0.111108	0.124352	0.142088	0.157554
-470.00	0.085448	0.088592	0.090085	0.091673	0.094327	0.100502	0.109789	0.118171	0.113693
-570.00	0.084146	0.084542	0.085195	0.086252	0.088136	0.091294	0.095672	0.092944	0.085628
-670.00	0.080189	0.080354	0.080711	0.081399	0.082687	0.083710	0.079521	0.074990	0.067508
-770.00	0.076553	0.076569	0.076743	0.077215	0.077359	0.073460	0.068653	0.062119	0.055417
-870.00	0.073261	0.073203	0.073292	0.073017	0.069341	0.064986	0.059940	0.054193	0.049750
-970.00	0.070304	0.070230	0.069779	0.066365	0.062411	0.057927	0.052943	0.047700	0.045391
-1070.00	0.067657	0.067158	0.064031	0.060441	0.056407	0.051966	0.047193	0.043400	0.042111
-1170.00	0.064902	0.062057	0.058809	0.055172	0.051173	0.046875	0.042369	0.040533	0.039575

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00	510.00	610.00	710.00	810.00
1030.00	0.045092	0.048342	0.049936	0.046050	0.042122	0.038292	0.034676	0.032963	0.032039
930.00	0.047884	0.051853	0.053800	0.049074	0.044326	0.039753	0.035871	0.034643	0.033553
830.00	0.050956	0.055908	0.058289	0.052475	0.046692	0.041172	0.037884	0.036473	0.035176
730.00	0.054094	0.060359	0.063358	0.055983	0.048797	0.042429	0.040140	0.038483	0.036922
630.00	0.059463	0.068067	0.071981	0.062417	0.052428	0.044800	0.042483	0.040726	0.038796
530.00	0.066170	0.077821	0.082918	0.070483	0.057553	0.051014	0.046747	0.043256	0.041570
430.00	0.075152	0.091741	0.098744	0.081636	0.065887	0.058576	0.052275	0.047839	0.047638
330.00	0.097977	0.113493	0.125103	0.098064	0.079828	0.067716	0.059600	0.058451	0.055820
230.00	0.164884	0.146685	0.170616	0.120778	0.098200	0.080965	0.077389	0.071822	0.066065
130.00	0.315511	0.218946	0.262736	0.167383	0.127169	0.115745	0.101525	0.093151	0.085872
30.00	0.468507	0.780558	0.513779	0.224068	0.216098	0.186749	0.156200	0.130024	0.110676
-70.00	0.279085	0.274917	3.193172	0.621962	0.421006	0.288812	0.214121	0.166429	0.135173
-170.00	0.295097	0.360880	0.302111	0.460324	0.265130	0.192908	0.164147	0.138550	0.118169
-270.00	0.228540	0.193699	0.166843	0.220269	0.232399	0.173916	0.136197	0.111648	0.100450
-370.00	0.144248	0.123286	0.113471	0.125647	0.153460	0.161292	0.132409	0.110403	0.094463
-470.00	0.098719	0.089777	0.083350	0.087693	0.105069	0.120719	0.126327	0.108621	0.093940
-570.00	0.075985	0.069707	0.065076	0.068968	0.075100	0.090660	0.101131	0.105284	0.093145
-670.00	0.062066	0.057045	0.053872	0.056816	0.058047	0.069892	0.080423	0.087910	0.093546
-770.00	0.052844	0.048858	0.046608	0.048778	0.049709	0.054213	0.065288	0.074622	0.081376
-870.00	0.046705	0.043535	0.042119	0.043472	0.044840	0.045984	0.055283	0.063589	0.070380
-970.00	0.043302	0.040838	0.039795	0.040774	0.041550	0.042122	0.047089	0.054756	0.061287
-1070.00	0.040546	0.038752	0.038035	0.038624	0.039094	0.039430	0.040727	0.047625	0.053766
-1170.00	0.038430	0.037133	0.036657	0.036959	0.037178	0.037311	0.037360	0.041820	0.047518

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 910.00	1010.00	1110.00	1210.00	1310.00
1030.00	0.031173	0.030354	0.029571	0.028818	0.028213
930.00	0.032544	0.031601	0.030713	0.030037	0.030538
830.00	0.033989	0.032899	0.032124	0.032740	0.033154
730.00	0.035516	0.034578	0.035308	0.035814	0.036077
630.00	0.037604	0.038407	0.038979	0.039280	0.039323
530.00	0.042321	0.042885	0.043159	0.043155	0.042895
430.00	0.047937	0.048015	0.047853	0.047424	0.046772
330.00	0.054363	0.053788	0.053013	0.053262	0.053244
230.00	0.062650	0.062822	0.062462	0.061902	0.061073
130.00	0.078549	0.074987	0.073104	0.071286	0.069425
30.00	0.096250	0.088208	0.084401	0.081111	0.078061
-70.00	0.113831	0.102210	0.096379	0.091467	0.087110
-170.00	0.102846	0.093549	0.089103	0.085132	0.081554
-270.00	0.090784	0.085242	0.081795	0.078749	0.075930
-370.00	0.081327	0.077332	0.074886	0.072616	0.070463
-470.00	0.083857	0.077017	0.071279	0.067030	0.065320
-570.00	0.085104	0.078166	0.072424	0.067586	0.063448
-670.00	0.085513	0.078844	0.073208	0.068396	0.064240
-770.00	0.085429	0.079050	0.073624	0.068922	0.064813
-870.00	0.075687	0.078907	0.073699	0.069167	0.065159
-970.00	0.066649	0.070905	0.073516	0.069152	0.065288
-1070.00	0.058995	0.063317	0.066790	0.068943	0.065216
-1170.00	0.052509	0.056766	0.060310	0.063191	0.064976

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	-5290.00	-4790.00	-4290.00	-3790.00	-3290.00	-2790.00	-2290.00	-1790.00	-1290.00
5430.00	0.015909	0.015598	0.015135	0.014485	0.013637	0.012576	0.011291	0.011207	0.012196
4930.00	0.017185	0.017252	0.016845	0.016239	0.015403	0.014302	0.012914	0.011687	0.012834
4430.00	0.018586	0.018725	0.018815	0.018301	0.017516	0.016408	0.014934	0.013074	0.013536
3930.00	0.020102	0.020364	0.020575	0.020721	0.020052	0.018996	0.017478	0.015440	0.014308
3430.00	0.021751	0.022175	0.022557	0.022870	0.023094	0.022193	0.020718	0.018542	0.015585
2930.00	0.023526	0.024153	0.024763	0.025326	0.025803	0.026146	0.024866	0.022665	0.019354
2430.00	0.025404	0.026282	0.027186	0.028092	0.028959	0.029685	0.030206	0.028271	0.024758
1930.00	0.027077	0.028430	0.029795	0.031148	0.032558	0.033903	0.035118	0.036011	0.032765
1430.00	0.028592	0.030146	0.031943	0.034071	0.036498	0.038783	0.041168	0.043396	0.045044
930.00	0.030116	0.031882	0.033934	0.036367	0.039268	0.042941	0.047886	0.052975	0.057966
430.00	0.031596	0.033570	0.035871	0.038596	0.041842	0.045870	0.050955	0.058237	0.070464
-70.00	0.032996	0.035156	0.037676	0.040659	0.044192	0.048459	0.053501	0.059633	0.066250
-570.00	0.034857	0.037297	0.040168	0.043599	0.047742	0.052836	0.059075	0.067109	0.077066
-1070.00	0.036621	0.039311	0.042490	0.046313	0.050976	0.056750	0.064050	0.067134	0.068026
-1570.00	0.038211	0.041094	0.044497	0.048577	0.052587	0.054706	0.056477	0.057452	0.057351
-2070.00	0.039570	0.042575	0.044628	0.046142	0.047582	0.048841	0.049698	0.050005	0.042613
-2570.00	0.038991	0.040117	0.041216	0.042244	0.043139	0.043801	0.044157	0.039287	0.032155
-3070.00	0.036490	0.037322	0.038092	0.038762	0.039287	0.039577	0.036102	0.031196	0.024684
-3570.00	0.034149	0.034748	0.035270	0.035688	0.035946	0.033335	0.029730	0.025030	0.019279
-4070.00	0.031982	0.032401	0.032743	0.032968	0.030932	0.028190	0.024663	0.020337	0.017394
-4570.00	0.029986	0.030275	0.030471	0.028841	0.026693	0.023964	0.020626	0.016705	0.016233
-5070.00	0.028133	0.028333	0.027009	0.025285	0.023121	0.020488	0.017384	0.014582	0.015244
-5570.00	0.026423	0.025355	0.023975	0.022229	0.020111	0.017615	0.014757	0.013800	0.014386

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -790.00	-290.00	210.00	710.00	1210.00	1710.00	2210.00	2710.00	3210.00
5430.00	0.013208	0.014210	0.015124	0.013778	0.012375	0.010973	0.009619	0.008840	0.008617
4930.00	0.014024	0.015209	0.016286	0.014719	0.013087	0.011467	0.009923	0.009527	0.009242
4430.00	0.014951	0.016374	0.017664	0.015811	0.013885	0.011993	0.010650	0.010311	0.009943
3930.00	0.016015	0.017752	0.019330	0.017094	0.014782	0.012544	0.011661	0.011211	0.010732
3430.00	0.017215	0.019380	0.021343	0.018593	0.015768	0.013384	0.012851	0.012246	0.011619
2930.00	0.018609	0.021383	0.023906	0.020409	0.016866	0.015015	0.014260	0.013435	0.012614
2430.00	0.020232	0.023908	0.027300	0.022649	0.018085	0.017030	0.015940	0.014818	0.014575
1930.00	0.026420	0.027174	0.032037	0.025408	0.021013	0.019536	0.017978	0.017747	0.017001
1430.00	0.038671	0.031551	0.039486	0.028785	0.024925	0.022634	0.022644	0.021492	0.019900
930.00	0.061968	0.043751	0.053800	0.034643	0.030037	0.030868	0.028917	0.026560	0.025321
430.00	0.091573	0.110205	0.098744	0.047839	0.047424	0.045713	0.042090	0.037625	0.033446
-70.00	0.075621	0.127467	3.193172	0.166429	0.091467	0.072799	0.059193	0.049130	0.041599
-570.00	0.084542	0.095672	0.065076	0.105284	0.067586	0.055653	0.049073	0.043000	0.037769
-1070.00	0.067158	0.047193	0.038035	0.047625	0.068943	0.053270	0.043392	0.036939	0.033768
-1570.00	0.045410	0.033612	0.032879	0.031232	0.044065	0.053207	0.044259	0.037613	0.032491
-2070.00	0.031707	0.028556	0.029296	0.027034	0.030056	0.038991	0.044121	0.038081	0.033248
-2570.00	0.024070	0.025234	0.026152	0.024135	0.022035	0.029265	0.034656	0.037928	0.033513
-3070.00	0.021653	0.022735	0.023602	0.021878	0.020037	0.022537	0.027530	0.031107	0.033428
-3570.00	0.019787	0.020716	0.021475	0.020021	0.018463	0.017749	0.022187	0.025681	0.028269
-4070.00	0.018250	0.019050	0.019714	0.018473	0.017140	0.015796	0.018141	0.021396	0.023985
-4570.00	0.016974	0.017668	0.018247	0.017174	0.016020	0.014849	0.015019	0.017989	0.020475
-5070.00	0.015890	0.016496	0.017008	0.016067	0.015059	0.014029	0.013016	0.015255	0.017587
-5570.00	0.014956	0.015490	0.015946	0.015112	0.014222	0.013309	0.012404	0.013034	0.015197

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 3710.00	4210.00	4710.00	5210.00	5710.00
5430.00	0.008379	0.008133	0.007884	0.007632	0.007383
4930.00	0.008941	0.008636	0.008332	0.008034	0.007892
4430.00	0.009563	0.009182	0.008811	0.008656	0.008458
3930.00	0.010248	0.009774	0.009597	0.009357	0.009081
3430.00	0.011001	0.010801	0.010501	0.010146	0.009768
2930.00	0.012390	0.012003	0.011530	0.011026	0.010520
2430.00	0.014053	0.013393	0.012690	0.011994	0.011333
1930.00	0.016011	0.014975	0.013972	0.013297	0.012995
1430.00	0.018253	0.017543	0.016883	0.016145	0.015394
930.00	0.023740	0.022090	0.020552	0.019150	0.017890
430.00	0.029866	0.026827	0.024309	0.022191	0.020396
-70.00	0.035907	0.031453	0.027960	0.025141	0.022825
-570.00	0.033426	0.029809	0.026848	0.024381	0.022305
-1070.00	0.030753	0.027991	0.025591	0.023504	0.021689
-1570.00	0.028452	0.026121	0.024261	0.022551	0.021004
-2070.00	0.029317	0.026133	0.023511	0.021564	0.020275
-2570.00	0.029847	0.026773	0.024191	0.022008	0.020148
-3070.00	0.030065	0.027172	0.024688	0.022550	0.020702
-3570.00	0.030025	0.027351	0.025003	0.022945	0.021140
-4070.00	0.025953	0.027343	0.025153	0.023199	0.021459
-4570.00	0.022476	0.024029	0.025161	0.023324	0.021678
-5070.00	0.019545	0.021139	0.022398	0.023352	0.021757
-5570.00	0.017072	0.018652	0.019962	0.020978	0.021740

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: 2602 ***

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

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	0.124256	AT (	310.00, -70.00)	GC	6.	0.061631	AT (	610.00, -70.00)	GC
2.	0.092895	AT (	410.00, -70.00)	GC	7.	0.060615	AT (	110.00, -70.00)	GC
3.	0.072062	AT (	510.00, -70.00)	GC	8.	0.053245	AT (	710.00, -70.00)	GC
4.	0.068445	AT (	110.00, -170.00)	GC	9.	0.053245	AT (	710.00, -70.00)	GC
5.	0.065560	AT (	310.00, -170.00)	GC	10.	0.048515	AT (	1310.00, -70.00)	GC

*** THE MAXIMUM 10 ANNUAL AVERAGE CONCENTRATION VALUES FOR SOURCE: GEN02 ***

RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)	OF TYPE
1.	3.193172	AT (	210.00, -70.00)	GC	6.	0.441251	AT (	10.00, 30.00)	GC
2.	3.193172	AT (	210.00, -70.00)	GC	7.	0.394764	AT (	310.00, -170.00)	GC
3.	0.732347	AT (	110.00, 30.00)	GC	8.	0.328111	AT (	410.00, -70.00)	GC
4.	0.497706	AT (	310.00, -70.00)	GC	9.	0.292435	AT (	110.00, -170.00)	GC
5.	0.481023	AT (	210.00, 30.00)	GC	10.	0.288087	AT (	10.00, 130.00)	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): 2602 , GEN02 ,

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

RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	AT	RECEPTOR (XR,YR)		OF TYPE
1.	3.193172	AT (	210.00,	-70.00)	GC	6.	0.468507	AT (	10.00,	30.00)	GC
2.	3.193172	AT (	210.00,	-70.00)	GC	7.	0.460324	AT (	310.00,	-170.00)	GC
3.	0.780558	AT (	110.00,	30.00)	GC	8.	0.421006	AT (	410.00,	-70.00)	GC
4.	0.621962	AT (	310.00,	-70.00)	GC	9.	0.360880	AT (	110.00,	-170.00)	GC
5.	0.513779	AT (	210.00,	30.00)	GC	10.	0.315511	AT (	10.00,	130.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE 2602 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.	0.000000	AT (	210.00, -70.00)	GC	6.	0.027255	AT (	10.00, 30.00)	GC
2.	0.000000	AT (	210.00, -70.00)	GC	7.	0.065560	AT (	310.00, -170.00)	GC
3.	0.048211	AT (	110.00, 30.00)	GC	8.	0.092895	AT (	410.00, -70.00)	GC
4.	0.124256	AT (	310.00, -70.00)	GC	9.	0.068445	AT (	110.00, -170.00)	GC
5.	0.032756	AT (	210.00, 30.00)	GC	10.	0.027423	AT (	10.00, 130.00)	GC

*** SOURCE GEN02 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.	3.193172	AT (	210.00, -70.00)	GC	6.	0.441251	AT (	10.00, 30.00)	GC
2.	3.193172	AT (	210.00, -70.00)	GC	7.	0.394764	AT (	310.00, -170.00)	GC
3.	0.732347	AT (	110.00, 30.00)	GC	8.	0.328111	AT (	410.00, -70.00)	GC
4.	0.497706	AT (	310.00, -70.00)	GC	9.	0.292435	AT (	110.00, -170.00)	GC
5.	0.481023	AT (	210.00, 30.00)	GC	10.	0.288087	AT (	10.00, 130.00)	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

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** The results for this run are in file 26ST87A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1987 Met CO
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  26ERRA87.OUT
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Point Source       QS      HS      TS      VS      DS
** Parameters:       ----    ----    ----    ----    ---
SO SRCPARAM 2602    1.0457  17.68   748.7   18.90   1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29

SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters       QS      HS     TS      VS      DS
**                 -----   ----  -----   -----    ---
SO SRCPARAM GEN02  0.3049  7.62  830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36   10.36   10.36   10.36    6.02
SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   11.58
SO BUILDHGT GEN02      11.58   11.58   11.58   10.36   10.36   10.36
SO BUILDWID GEN02      20.13   21.36   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   32.66
SO BUILDWID GEN02      37.75   21.85   21.93   21.36   20.13   26.82
SO BUILDWID GEN02      20.13   21.35   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   19.70
SO BUILDWID GEN02      21.09   21.85   21.93   21.36   20.13   18.29
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -990 25 100 -1270  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  26RAM87.ASC
   ANEMHGHT  10
   SURFDATA  12842  1987  TAMPA
   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: 26st87a.IN
**Output Print File: 26st87a.OUT
**Detailed Error/Message File: 26ERRA87.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
2602	0	0.10457E+01	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.30490E+00	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

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,	20.1,	0	2	11.6,	21.4,	0	3	11.6,	21.9,	0	4	11.6,	21.9,	0	5	11.6,	21.1,	0	6	11.6,	19.7,	0
7	11.6,	17.7,	0	8	11.6,	15.2,	0	9	11.6,	12.2,	0	10	11.6,	15.2,	0	11	11.6,	17.7,	0	12	11.6,	19.7,	0
13	11.6,	21.1,	0	14	11.6,	21.9,	0	15	11.6,	21.9,	0	16	11.6,	21.4,	0	17	11.6,	20.1,	0	18	11.6,	18.3,	0
19	11.6,	20.1,	0	20	11.6,	21.4,	0	21	11.6,	21.9,	0	22	11.6,	21.9,	0	23	11.6,	21.1,	0	24	11.6,	19.7,	0
25	11.6,	17.7,	0	26	11.6,	15.2,	0	27	11.6,	12.2,	0	28	11.6,	15.2,	0	29	11.6,	17.7,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	11.6,	21.4,	0	35	11.6,	20.1,	0	36	11.6,	18.3,	0

SOURCE ID: GEN02

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	10.4,	20.1,	0	2	10.4,	21.4,	0	3	6.0,	27.8,	0	4	6.0,	26.4,	0	5	6.0,	24.3,	0	6	6.0,	21.3,	0
7	6.0,	17.8,	0	8	6.0,	13.7,	0	9	6.0,	9.1,	0	10	6.0,	13.7,	0	11	6.0,	17.8,	0	12	10.4,	32.7,	0
13	10.4,	37.8,	0	14	10.4,	21.9,	0	15	10.4,	21.9,	0	16	10.4,	21.4,	0	17	10.4,	20.1,	0	18	6.0,	26.8,	0
19	10.4,	20.1,	0	20	10.4,	21.4,	0	21	6.0,	27.8,	0	22	6.0,	26.4,	0	23	6.0,	24.3,	0	24	6.0,	21.3,	0
25	6.0,	17.8,	0	26	6.0,	13.7,	0	27	6.0,	9.1,	0	28	6.0,	13.7,	0	29	6.0,	17.8,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	10.4,	21.4,	0	35	10.4,	20.1,	0	36	10.4,	18.3,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-990.0,	-890.0,	-790.0,	-690.0,	-590.0,	-490.0,	-390.0,	-290.0,	-190.0,	-90.0,
10.0,	110.0,	210.0,	310.0,	410.0,	510.0,	610.0,	710.0,	810.0,	910.0,
1010.0,	1110.0,	1210.0,	1310.0,	1410.0,					

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

-1270.0,	-1170.0,	-1070.0,	-970.0,	-870.0,	-770.0,	-670.0,	-570.0,	-470.0,	-370.0,
-270.0,	-170.0,	-70.0,	30.0,	130.0,	230.0,	330.0,	430.0,	530.0,	630.0,
730.0,	830.0,	930.0,	1030.0,	1130.0,					

*** ISCST3 - VERSION 98356 *** *** FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1987 Met CO *** 12/22/99
*** *** 06:34:41
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)
2602	210.0	-70.0	0.39

**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: 26RAM87.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	341.0	6.17	293.7	4	598.7	598.7	0.0000	0.0	0.0000	0	0.00
87	1	1	2	358.0	4.12	293.2	5	651.8	1306.0	0.0000	0.0	0.0000	0	0.00
87	1	1	3	34.0	6.17	293.2	4	704.8	704.8	0.0000	0.0	0.0000	0	0.00
87	1	1	4	73.0	6.69	291.5	4	757.8	757.8	0.0000	0.0	0.0000	0	0.00
87	1	1	5	83.0	7.20	290.9	4	810.8	810.8	0.0000	0.0	0.0000	0	0.00
87	1	1	6	102.0	7.20	290.4	4	863.8	863.8	0.0000	0.0	0.0000	0	0.00
87	1	1	7	105.0	6.69	289.3	4	916.9	916.9	0.0000	0.0	0.0000	0	0.00
87	1	1	8	113.0	7.72	288.7	4	969.9	969.9	0.0000	0.0	0.0000	0	0.00
87	1	1	9	107.0	6.17	288.2	4	1022.9	1022.9	0.0000	0.0	0.0000	0	0.00
87	1	1	10	121.0	6.17	288.2	4	1075.9	1075.9	0.0000	0.0	0.0000	0	0.00
87	1	1	11	114.0	6.69	287.6	4	1128.9	1128.9	0.0000	0.0	0.0000	0	0.00
87	1	1	12	116.0	6.17	287.0	4	1182.0	1182.0	0.0000	0.0	0.0000	0	0.00
87	1	1	13	133.0	7.20	287.6	4	1235.0	1235.0	0.0000	0.0	0.0000	0	0.00
87	1	1	14	119.0	7.72	287.6	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	15	132.0	7.20	288.2	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	16	134.0	7.72	289.3	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	17	141.0	7.20	288.2	4	1288.0	1288.0	0.0000	0.0	0.0000	0	0.00
87	1	1	18	137.0	5.14	287.6	5	1286.4	1238.1	0.0000	0.0	0.0000	0	0.00
87	1	1	19	144.0	3.60	286.5	5	1281.2	1078.6	0.0000	0.0	0.0000	0	0.00
87	1	1	20	117.0	2.06	285.4	6	1276.0	919.0	0.0000	0.0	0.0000	0	0.00
87	1	1	21	110.0	1.54	284.8	7	1270.9	759.5	0.0000	0.0	0.0000	0	0.00
87	1	1	22	112.0	0.00	283.7	7	1265.7	600.0	0.0000	0.0	0.0000	0	0.00
87	1	1	23	120.0	2.57	283.7	6	1260.5	440.5	0.0000	0.0	0.0000	0	0.00
87	1	1	24	130.0	1.54	282.6	7	1255.4	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	26.71828 (87071507)	27.73498 (87013006)	26.67756 (87013005)	26.69303 (87072901)	27.91858 (87081203)
1030.0	28.30833 (87071507)	28.89718 (87071507)	29.36684 (87013006)	26.28148 (87073005)	30.18056 (87041402)
930.0	26.23413 (87042101)	30.25536 (87071507)	31.48443 (87071507)	30.13498 (87013006)	30.89172 (87073005)
830.0	27.03024 (87082004)	27.89562 (87042101)	32.38253 (87071507)	34.60825 (87071507)	32.70033 (87122020)
730.0	29.83033 (87011605)	29.20982 (87060403)	28.35114 (87080101)	34.64308 (87071507)	38.45676 (87071507)
630.0	30.12823 (87011501)	30.32803 (87032206)	32.38499 (87041207)	33.79810 (87072605)	36.89657 (87071507)
530.0	32.21793 (87111707)	31.48316 (87032205)	33.85876 (87031604)	35.51535 (87051803)	37.25749 (87082004)
430.0	22.66963 (87111707)	32.94107 (87111707)	37.99771 (87111707)	37.25380 (87032205)	39.29812 (87050302)
330.0	12.33805 (87021809)	13.92284 (87070106)	22.20521 (87111707)	37.56135 (87111707)	46.49840 (87111707)
230.0	15.96079 (87070406)	17.60657 (87070406)	17.16209 (87070406)	15.76211 (87092109)	19.21017 (87111707)
130.0	12.41296 (87122109)	13.78362 (87122109)	14.47350 (87122109)	15.99619 (87031907)	17.24422 (87061206)
30.0	14.23915 (87071509)	15.10493 (87071509)	15.83506 (87071509)	16.25935 (87092908)	17.97324 (87092908)
-70.0	12.44676 (87111908)	13.53172 (87111908)	14.84144 (87082108)	16.47507 (87082108)	18.30258 (87111908)
-170.0	15.93259 (87022119)	18.59559 (87022119)	21.57603 (87022119)	24.53610 (87022119)	26.68532 (87022119)
-270.0	15.65911 (87022119)	14.11921 (87022119)	13.78708 (87081308)	15.65461 (87081308)	17.36013 (87061806)
-370.0	12.20933 (87081308)	12.62661 (87021804)	13.69642 (87081909)	15.30416 (87031204)	17.95854 (87072106)
-470.0	11.57664 (87021708)	12.30383 (87031708)	17.58005 (87072106)	24.60118 (87072106)	22.60230 (87072106)
-570.0	16.24072 (87072106)	20.53419 (87072106)	19.40853 (87072106)	16.64318 (87110807)	21.00417 (87110807)
-670.0	16.85179 (87072106)	12.14685 (87100609)	17.71236 (87110807)	16.14780 (87110807)	15.50063 (87050906)
-770.0	14.09262 (87110807)	15.91326 (87110807)	14.45895 (87050906)	12.64806 (87050906)	19.85142 (87031107)
-870.0	13.11327 (87110807)	13.39297 (87050906)	12.51596 (87031107)	17.78740 (87031107)	12.07420 (87031107)
-970.0	11.93877 (87050906)	12.43484 (87031107)	16.04782 (87031107)	11.26194 (87031107)	11.48355 (87102108)
-1070.0	12.12874 (87031107)	14.58768 (87031107)	10.79814 (87101902)	11.96940 (87040104)	11.03665 (87092414)
-1170.0	13.35615 (87031107)	11.11271 (87101902)	12.14269 (87040104)	11.39962 (87101903)	11.43946 (87011203)
-1270.0	11.19984 (87101902)	11.68486 (87040104)	11.92994 (87021002)	10.33025 (87082022)	11.05164 (87112122)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	28.91081 (87080104)	29.25255 (87073024)	23.70519 (87072501)	25.21663 (87051921)	27.27221 (87041124)
1030.0	31.07292 (87122107)	30.99769 (87073001)	26.72574 (87061602)	27.74489 (87080505)	28.21775 (87071604)
930.0	30.02696 (87041402)	33.62326 (87121305)	33.21862 (87073024)	28.36863 (87072501)	29.86893 (87013008)
830.0	30.59856 (87073005)	35.03181 (87081203)	36.46546 (87073001)	30.56399 (87080403)	27.58612 (87080201)
730.0	34.77514 (87122020)	37.40824 (87072901)	38.93592 (87062902)	40.02142 (87082101)	34.06126 (87070305)
630.0	43.31732 (87071507)	38.01445 (87061503)	39.89038 (87080504)	42.35995 (87073001)	35.47136 (87011821)
530.0	39.59202 (87080703)	49.65055 (87071507)	41.30931 (87122520)	46.61311 (87041502)	47.95109 (87082101)
430.0	41.66182 (87060403)	44.00586 (87042101)	58.23351 (87071507)	49.54276 (87022704)	52.26763 (87080202)
330.0	45.10129 (87012324)	47.31573 (87090205)	51.27977 (87080101)	70.40834 (87071507)	62.66002 (87121407)
230.0	42.51536 (87111707)	60.30608 (87111707)	56.75568 (87012505)	61.69105 (87082423)	87.92590 (87071507)
130.0	19.62640 (87091307)	22.35397 (87061202)	44.46336 (87111707)	86.90449 (87111707)	81.94756 (87051824)
30.0	20.02973 (87082909)	23.25355 (87072119)	27.61292 (87060121)	34.14779 (87112620)	43.73210 (87090406)
-70.0	20.52481 (87111908)	23.38860 (87112317)	27.95725 (87122316)	35.03391 (87051917)	46.17545 (87052616)
-170.0	26.43072 (87022119)	22.83769 (87112608)	27.11860 (87022016)	33.15687 (87052619)	42.56699 (87112415)
-270.0	19.47739 (87111905)	21.93446 (87112701)	32.94459 (87072106)	30.58139 (87092617)	36.78513 (87051318)
-370.0	29.85216 (87072106)	25.21134 (87072106)	26.73174 (87110807)	26.90714 (87092316)	31.03303 (87071916)
-470.0	22.85574 (87110807)	19.34104 (87050906)	25.48890 (87031107)	23.95226 (87111808)	26.06110 (87052217)
-570.0	18.22988 (87050906)	24.38508 (87031107)	19.35343 (87021802)	21.15078 (87090317)	26.39485 (87050904)
-670.0	22.17210 (87031107)	16.21004 (87021802)	18.07598 (87092414)	18.87287 (87092401)	36.85410 (87093024)
-770.0	13.48213 (87021802)	15.50259 (87093017)	16.26766 (87022120)	18.73628 (87050904)	35.98520 (87111122)
-870.0	13.34902 (87031207)	14.83306 (87081309)	15.28664 (87100309)	31.22429 (87101821)	33.86855 (87011201)
-970.0	12.79997 (87081309)	12.87944 (87092401)	15.80796 (87042024)	26.50744 (87092020)	30.78765 (87100805)
-1070.0	12.33517 (87040708)	12.02075 (87100309)	28.46961 (87042024)	27.78249 (87121722)	29.83936 (87010806)
-1170.0	12.11309 (87012703)	14.78608 (87042024)	24.30821 (87093024)	26.85579 (87011201)	27.46988 (87100222)
-1270.0	12.14409 (87010207)	25.55731 (87042024)	25.85024 (87070404)	25.60737 (87112123)	25.34989 (87120506)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	27.10620 (87061501)	25.94491 (87071524)	26.24806 (87071523)	27.14948 (87022721)	26.35219 (87011519)
1030.0	28.97172 (87020123)	28.28515 (87071524)	28.01740 (87071523)	28.51569 (87013003)	28.64183 (87011520)
930.0	29.66342 (87071603)	30.40360 (87062703)	30.13726 (87081523)	29.60173 (87013003)	29.95178 (87011522)
830.0	31.19390 (87080405)	31.55294 (87080222)	32.62669 (87081523)	29.97431 (87011623)	27.06310 (87030807)
730.0	33.99218 (87072502)	34.95222 (87080222)	34.97178 (87081523)	33.89251 (87011623)	40.06802 (87030807)
630.0	37.44909 (87062901)	34.86997 (87113022)	39.94165 (87111007)	37.77581 (87011519)	48.45839 (87030807)
530.0	41.45036 (87091022)	43.09821 (87120322)	46.45750 (87111007)	39.50200 (87080224)	40.12183 (87030821)
430.0	46.00854 (87072903)	48.60619 (87020124)	54.64293 (87111007)	52.78210 (87030807)	42.81290 (87121222)
330.0	50.71297 (87082101)	55.28239 (87012520)	63.99958 (87111007)	81.81833 (87030807)	28.84598 (87022718)
230.0	79.09910 (87061705)	65.60871 (87110410)	69.55656 (87111007)	60.31326 (87011521)	33.97396 (87022219)
130.0	106.81512 (87071507)	93.52908 (87032916)	102.10993 (87071008)	52.41446 (87122211)	40.75612 (87013018)
30.0	161.26143 (87111707)	334.60184 (87122520)	369.69965 (87011620)	65.23833 (87041619)	49.47081 (87110515)
-70.0	65.39327 (87110223)	95.73829 (87101017)	1289.52246 (87031005)	74.39181 (87040815)	52.48426 (87021216)
-170.0	56.51250 (87071910)	67.00070 (87101516)	179.50865 (87021020)	109.96130 (87050818)	74.63721 (87082019)
-270.0	44.88449 (87110109)	82.92153 (87120217)	81.85217 (87042009)	74.17931 (87081819)	62.55715 (87031920)
-370.0	35.78981 (87050904)	60.04683 (87101301)	60.03059 (87111419)	53.43434 (87111318)	57.11454 (87011120)
-470.0	47.64223 (87093024)	52.26353 (87101406)	36.26073 (87020310)	52.68365 (87121719)	49.19818 (87042920)
-570.0	46.25518 (87121720)	47.13704 (87111121)	32.59734 (87121608)	40.09222 (87021020)	42.29293 (87042020)
-670.0	40.48657 (87012421)	41.59458 (87123006)	29.88928 (87121608)	37.91432 (87040101)	38.89622 (87040120)
-770.0	37.33875 (87120506)	36.83551 (87102920)	26.86287 (87121608)	36.63273 (87101720)	36.03956 (87100320)
-870.0	34.93161 (87120507)	29.86782 (87102920)	24.09795 (87121608)	34.44673 (87101221)	34.02908 (87120120)
-970.0	31.53360 (87021003)	23.04033 (87021005)	21.72754 (87121608)	31.47693 (87012419)	26.58597 (87021020)
-1070.0	29.40921 (87021003)	17.67780 (87021005)	19.72957 (87121608)	28.67428 (87021822)	29.03014 (87091722)
-1170.0	27.44727 (87100802)	13.48201 (87021005)	18.04431 (87121608)	26.77304 (87012319)	27.66613 (87050220)
-1270.0	27.07535 (87101724)	12.58039 (87050903)	16.61264 (87121608)	26.83217 (87071021)	24.40473 (87040101)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	26.00603 (87080121)	25.87679 (87030807)	23.24918 (87011819)	11.39306 (87013021)	11.21046 (87120323)
1030.0	31.21118 (87030807)	26.64546 (87020122)	23.48909 (87011819)	11.74351 (87110501)	11.40220 (87032819)
930.0	34.81792 (87030807)	27.53444 (87122807)	13.32204 (87110501)	12.03215 (87021417)	11.59099 (87032819)
830.0	31.51193 (87030807)	27.51223 (87121222)	13.33211 (87020617)	13.81374 (87032819)	12.31178 (87071320)
730.0	33.69147 (87122807)	15.58027 (87110501)	15.25614 (87071119)	13.55984 (87071320)	12.84986 (87082118)
630.0	33.94677 (87121222)	17.35957 (87020617)	15.50137 (87090809)	14.50530 (87082118)	14.37418 (87092618)
530.0	20.18442 (87121014)	18.80513 (87090809)	16.05426 (87122113)	16.66840 (87092618)	15.28256 (87010713)
430.0	22.89924 (87110414)	19.42693 (87122113)	18.87359 (87062806)	16.56665 (87010713)	15.44980 (87062016)
330.0	25.80434 (87093016)	23.27489 (87070119)	20.41170 (87071317)	18.61608 (87062808)	17.19330 (87122517)
230.0	29.90189 (87122117)	25.32797 (87062803)	22.32479 (87032814)	18.72264 (87012918)	17.42703 (87012417)
130.0	33.65245 (87030908)	27.11093 (87030910)	22.20053 (87110511)	20.61720 (87052117)	18.24514 (87110420)
30.0	37.58545 (87071015)	29.18366 (87121017)	24.47177 (87072919)	21.03271 (87110413)	17.80308 (87091616)
-70.0	38.49239 (87081218)	29.40502 (87081022)	24.85044 (87041418)	21.23441 (87111417)	18.48394 (87111417)
-170.0	36.86627 (87061217)	29.38397 (87122217)	24.71409 (87071407)	20.74088 (87080519)	18.57885 (87010816)
-270.0	51.27636 (87120121)	48.36802 (87031005)	22.81953 (87080817)	20.12702 (87081918)	17.06921 (87090709)
-370.0	50.30112 (87021621)	44.71539 (87012720)	41.72392 (87112921)	37.38293 (87040823)	15.98795 (87121023)
-470.0	43.80845 (87011123)	42.82254 (87021621)	40.02641 (87112923)	36.00380 (87121107)	33.97255 (87010123)
-570.0	38.94478 (87043004)	39.37785 (87011319)	36.67507 (87021621)	34.59784 (87121524)	33.15701 (87011220)
-670.0	38.24542 (87032122)	36.46792 (87120107)	35.01207 (87112021)	31.77282 (87021621)	31.05208 (87041705)
-770.0	32.79604 (87042020)	33.18369 (87062221)	32.05564 (87012623)	31.13266 (87112021)	28.85269 (87032202)
-870.0	28.20750 (87042921)	31.51682 (87032124)	30.20145 (87091421)	29.35109 (87042021)	29.12930 (87040901)
-970.0	31.28103 (87040120)	27.64908 (87032001)	28.89549 (87072324)	27.80158 (87020303)	27.47503 (87120123)
-1070.0	27.28872 (87100320)	28.65762 (87042921)	27.73278 (87032124)	27.26800 (87050722)	25.62577 (87012623)
-1170.0	27.44302 (87112023)	27.58444 (87043005)	25.01047 (87113020)	25.98927 (87013121)	25.35110 (87091421)
-1270.0	24.69523 (87112023)	26.11490 (87021004)	24.92321 (87011122)	24.27134 (87040702)	24.91229 (87120122)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	10.73603 (87032819)	10.94768 (87061423)	11.01524 (87092006)	11.05101 (87113024)	10.83284 (87041101)
1030.0	10.14180 (87061423)	10.88737 (87120319)	11.04293 (87113024)	10.43725 (87041101)	10.67727 (87122820)
930.0	11.32997 (87120319)	10.80414 (87113024)	10.57756 (87030823)	9.92055 (87062806)	9.70663 (87041221)
830.0	11.37842 (87082118)	10.83622 (87062806)	10.52772 (87062806)	9.83163 (87041221)	10.99935 (87122819)
730.0	12.43036 (87092618)	11.59686 (87112817)	10.23442 (87061524)	11.14874 (87062604)	10.95123 (87061422)
630.0	13.19421 (87112817)	12.19103 (87020709)	10.68495 (87062718)	11.68540 (87110503)	11.23339 (87061523)
530.0	14.11398 (87062718)	13.13652 (87110503)	12.07987 (87110503)	10.89295 (87122517)	11.12682 (87120324)
430.0	14.83608 (87110503)	13.58191 (87122517)	10.99785 (87012810)	11.40406 (87020317)	11.59900 (87102111)
330.0	14.07697 (87012810)	14.05593 (87020317)	13.62264 (87102111)	11.35892 (87082009)	11.12168 (87041022)
230.0	15.83301 (87082009)	13.70137 (87052117)	12.03671 (87020703)	10.92881 (87110420)	12.00550 (87062503)
130.0	16.56806 (87051517)	14.85540 (87051517)	12.46854 (87110504)	11.81454 (87091616)	11.26119 (87091616)
30.0	16.03758 (87110512)	14.34842 (87110512)	12.65414 (87110512)	11.29176 (87010714)	10.18910 (87010714)
-70.0	16.02142 (87111417)	14.80302 (87122618)	13.81244 (87122618)	12.77749 (87122618)	11.81456 (87122618)
-170.0	16.37899 (87090909)	14.29174 (87110423)	12.61411 (87052118)	11.31212 (87052118)	11.03719 (87042423)
-270.0	15.83070 (87090709)	13.57494 (87081718)	12.43797 (87081718)	10.61486 (87081718)	10.48320 (87040924)
-370.0	14.10282 (87080817)	12.27646 (87081918)	10.89438 (87071418)	10.78150 (87111021)	9.70922 (87090709)
-470.0	31.45092 (87040823)	18.20662 (87040922)	10.83081 (87042505)	11.20091 (87031004)	11.21365 (87030122)
-570.0	31.04834 (87011219)	29.51683 (87021622)	27.72353 (87010120)	19.88393 (87040922)	10.77749 (87113001)
-670.0	29.04073 (87012720)	28.13635 (87040422)	27.47850 (87031923)	25.76743 (87021622)	24.80458 (87010120)
-770.0	28.44395 (87050721)	27.70198 (87012721)	26.56577 (87043021)	25.68792 (87011219)	24.92702 (87040423)
-870.0	27.19716 (87032202)	26.62616 (87050721)	26.04790 (87012721)	25.06338 (87040220)	23.64347 (87040422)
-970.0	27.09065 (87040901)	25.54446 (87032202)	24.59972 (87050822)	24.27403 (87102621)	22.97299 (87042124)
-1070.0	25.98438 (87120123)	24.56646 (87040901)	23.96238 (87032202)	23.45887 (87050822)	22.98289 (87010124)
-1170.0	24.80912 (87112924)	24.09360 (87121103)	23.88715 (87021307)	22.73105 (87102023)	22.41582 (87071122)
-1270.0	23.87183 (87020303)	22.96044 (87112924)	23.06263 (87121103)	23.17828 (87021307)	21.90177 (87102023)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	8.99973 (87022708)	8.48014c(87011608)	5.31872 (87061508)	7.30765c(87080508)	5.83224c(87073108)
1030.0	9.17721 (87022708)	9.77989 (87022708)	9.27474c(87011608)	6.10131 (87061508)	8.81066c(87080508)
930.0	5.03474 (87072808)	9.55784 (87022708)	10.69155 (87022708)	10.02270c(87011608)	7.17720 (87061508)
830.0	8.40920 (87060408)	5.58338 (87121424)	9.83935 (87022708)	11.76728 (87022708)	10.55715c(87011608)
730.0	7.78701c(87082408)	9.28357 (87060408)	6.41574 (87060408)	9.93342 (87022708)	13.03956 (87022708)
630.0	9.07299 (87011508)	7.80855c(87082908)	8.99623c(87082408)	9.14677 (87060408)	9.71599 (87022708)
530.0	9.74998c(87090808)	7.93589 (87050408)	10.57720 (87011508)	10.30931c(87082408)	12.39810 (87060408)
430.0	4.96716 (87111708)	6.68613 (87111708)	10.98843c(87090808)	9.62132 (87050408)	11.19773 (87011508)
330.0	5.32726c(87090308)	6.16980c(87090308)	5.98040c(87090308)	7.97176 (87111708)	12.42653c(87090808)
230.0	3.01923 (87053124)	3.80230 (87111624)	4.69809 (87111624)	5.75955c(87090308)	6.68912c(87090308)
130.0	4.79919 (87072008)	5.26547 (87072008)	5.18085 (87072008)	4.15042 (87072008)	5.09725 (87111624)
30.0	3.84075 (87052424)	3.91178 (87052424)	3.99028 (87052424)	4.11398 (87052424)	4.32271 (87052424)
-70.0	4.18320 (87122324)	4.55720 (87122324)	4.99476 (87122324)	5.61300 (87032408)	6.64623 (87032408)
-170.0	4.49977 (87112224)	4.85798 (87112224)	5.13209 (87112224)	5.76342 (87022124)	6.68368 (87022124)
-270.0	4.35779 (87022608)	4.31445 (87110308)	4.87416 (87110308)	5.80478 (87111908)	8.49038 (87022524)
-370.0	4.34827 (87022524)	5.69643 (87022524)	7.19767 (87022524)	8.54643 (87022524)	8.74157 (87022524)
-470.0	5.68779 (87022524)	6.02445 (87022524)	5.55338 (87022524)	5.30908 (87022008)	6.75286 (87022008)
-570.0	4.36039 (87032308)	4.23064 (87022008)	5.08199 (87022008)	5.95768 (87100424)	6.47242 (87012116)
-670.0	4.07597 (87022008)	4.67180 (87100424)	5.72156 (87110808)	5.30154 (87020608)	6.10771 (87020608)
-770.0	5.16728 (87110808)	4.66938 (87100424)	4.79027 (87100508)	5.18552 (87020608)	6.23680 (87102608)
-870.0	3.93477 (87100508)	5.35738c(87031408)	5.03193 (87111224)	5.67362 (87102608)	3.50529 (87101424)
-970.0	5.68457c(87031408)	5.53249 (87111224)	5.16925 (87102608)	3.23233 (87101424)	3.54459 (87110108)
-1070.0	5.78833 (87111224)	4.72686 (87102608)	2.98667 (87101424)	3.05476 (87110108)	3.47911 (87092324)
-1170.0	4.34162 (87102608)	2.76977 (87101424)	2.71289 (87110708)	3.09708c(87122308)	3.35314 (87110608)
-1270.0	2.57518 (87101424)	2.53160 (87021008)	2.99499c(87030308)	2.85097 (87092324)	3.44849 (87110608)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	8.58096c(87073108)	4.84569c(87010924)	4.58503 (87081524)	4.87237 (87080208)	6.32405c(87072708)
1030.0	8.90338c(87073108)	8.83684c(87073108)	4.70087 (87081524)	4.64951 (87080208)	6.59618c(87072708)
930.0	8.33451c(87080508)	10.43216c(87073108)	5.48802c(87010924)	4.72832c(87072508)	5.17943c(87072708)
830.0	8.79661 (87061508)	8.34461c(87073108)	11.02318c(87073108)	5.92925 (87081524)	6.06698 (87080208)
730.0	10.56384c(87011608)	11.37809c(87080508)	12.70409c(87073108)	6.13247c(87010924)	5.94122 (87080208)
630.0	14.55362 (87022708)	9.55322c(87011608)	12.20522c(87080508)	14.26713c(87073108)	6.66954 (87081524)
530.0	9.04594 (87022708)	16.36925 (87022708)	11.45754 (87061508)	13.37827c(87073108)	7.63834c(87093008)
430.0	13.77866 (87060408)	10.91364 (87032608)	18.56837 (87022708)	15.67178 (87061508)	19.41025c(87073108)
330.0	13.14710 (87011508)	14.72671c(87082408)	13.73479 (87032608)	21.21448 (87022708)	21.01869c(87080508)
230.0	9.85099 (87111708)	14.77947 (87052108)	17.82987 (87011508)	22.43709 (87060408)	24.27812 (87022708)
130.0	7.51768 (87111624)	10.32712 (87111624)	12.35479 (87111708)	22.01123 (87111708)	24.75705c(87082408)
30.0	4.76219 (87052916)	6.39545 (87052916)	8.36107 (87052916)	13.92047 (87111624)	28.48042 (87111624)
-70.0	7.97221 (87032408)	9.67888 (87032408)	11.90540 (87112624)	15.14546 (87110816)	21.29539 (87110816)
-170.0	7.57530 (87110308)	10.49790 (87110308)	13.08153 (87110308)	24.09951 (87022524)	24.43135 (87022524)
-270.0	12.21079 (87022524)	15.05000 (87022524)	11.74562 (87022524)	15.29745 (87022008)	17.21267 (87030608)
-370.0	7.07475 (87022008)	9.75907 (87022008)	11.82491 (87012116)	12.03176 (87103124)	15.45489 (87110108)
-470.0	8.47579 (87012116)	8.52755 (87020608)	9.09424 (87020608)	10.09454 (87110108)	11.08561 (87101108)
-570.0	7.26942 (87020608)	7.34782 (87020608)	6.92994 (87110108)	7.98737 (87101108)	6.32901 (87101316)
-670.0	6.79669 (87102608)	5.04886 (87110108)	5.64454 (87110108)	5.65874 (87101108)	5.92766 (87121708)
-770.0	3.85785 (87110108)	4.86253 (87110108)	5.00721 (87101108)	4.86999 (87110524)	6.48825 (87121708)
-870.0	4.13877 (87110108)	4.18617 (87110608)	4.29314 (87110524)	4.01242 (87121708)	7.08079 (87121724)
-970.0	3.89452 (87092324)	4.11921 (87110608)	4.08722 (87110524)	4.60304 (87121708)	7.82769c(87010808)
-1070.0	3.92871 (87110608)	4.00771 (87110524)	3.55870 (87042024)	5.46028 (87121724)	10.44652c(87010808)
-1170.0	3.27287 (87110608)	3.50817 (87110524)	3.81483c(87100308)	5.44635 (87121724)	8.68866c(87010808)
-1270.0	3.63391 (87110524)	3.19466 (87042024)	4.08967c(87092024)	5.45791c(87010808)	7.72282 (87100808)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	8.30290c(87020124)	5.11005 (87073008)	6.63369c(87071524)	6.74418c(87013008)	13.80131 (87011524)
1030.0	8.82218c(87020124)	5.25242 (87062708)	7.19447c(87071524)	6.72678c(87013008)	13.78688 (87011524)
930.0	8.91392 (87012524)	5.72558 (87062708)	7.79138c(87071524)	6.11732c(87013008)	11.32337 (87011524)
830.0	7.89372 (87012524)	6.07406 (87062708)	8.39948c(87071524)	9.05226 (87011524)	6.68865 (87011524)
730.0	7.55994 (87030108)	6.53887 (87041508)	8.96464c(87071524)	13.70173 (87011524)	11.54282 (87030808)
630.0	8.40477c(87072708)	7.12678 (87041508)	9.37295c(87071524)	18.01153 (87011524)	15.21894 (87030808)
530.0	7.58370 (87080208)	9.42821c(87020124)	9.37935c(87071524)	17.09471 (87011524)	7.63415c(87020124)
430.0	8.07513 (87080208)	13.66240c(87020124)	10.32600 (87032808)	12.11955 (87030808)	7.68342 (87040316)
330.0	11.35729c(87093008)	19.36175 (87030108)	14.27655 (87032808)	22.24511 (87030808)	10.54079 (87030908)
230.0	27.30277c(87073108)	24.12412 (87030108)	21.03984 (87032808)	15.58232 (87040316)	9.05832 (87122816)
130.0	35.32508c(87011608)	20.89363c(87093008)	32.06590 (87032808)	15.96509 (87022716)	9.21507 (87062808)
30.0	51.00457 (87111708)	95.81475c(87122208)	82.75333 (87030808)	17.00622 (87062616)	18.14128 (87062616)
-70.0	27.70664 (87110816)	46.46691 (87110308)	518.63647 (87040824)	32.98999 (87041016)	23.65726 (87041616)
-170.0	31.76565 (87030608)	27.79688 (87101108)	43.65301 (87010516)	34.23789 (87012624)	23.05708 (87040824)
-270.0	22.58537 (87110108)	27.93347 (87121708)	20.48280 (87010516)	32.96212 (87102208)	16.41129 (87021816)
-370.0	11.82073 (87101108)	18.40393 (87100808)	10.72470 (87102808)	16.78478 (87102116)	13.72439 (87011124)
-470.0	11.06219c(87012016)	20.16073 (87100808)	8.97050 (87102808)	10.21934 (87121624)	15.36345 (87102124)
-570.0	9.86598 (87121724)	11.08476 (87100808)	7.11991 (87102808)	8.09003 (87010516)	10.40405 (87102116)
-670.0	11.31877 (87100808)	9.01793 (87123008)	5.68165 (87102808)	7.30870c(87052024)	7.53436c(87043008)
-770.0	11.05223 (87100808)	7.28362 (87122924)	4.63500 (87010824)	6.15805c(87043008)	6.52434 (87121624)
-870.0	12.36029 (87100808)	5.80398 (87122924)	4.73186 (87010824)	6.43543 (87101224)	5.49558 (87121724)
-970.0	13.18436 (87100808)	5.14287c(87072408)	4.72133 (87010824)	5.61704 (87021824)	4.33005c(87091724)
-1070.0	11.74058 (87100808)	4.56626c(87072408)	4.63071 (87010824)	5.52265 (87021824)	4.83836c(87091724)
-1170.0	9.11871 (87100808)	4.22841 (87010824)	4.47198 (87010824)	4.91400 (87021824)	4.61102c(87050224)
-1270.0	6.52311 (87100808)	4.13993 (87010824)	4.29847 (87010824)	4.50196c(87071024)	3.90742c(87052024)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	6.25817 (87030808)	7.05341 (87030808)	3.52312 (87011524)	4.50252 (87020624)	4.77004 (87020624)
1030.0	10.00837 (87030808)	4.94874c(87020124)	3.82638c(87121224)	5.33127 (87020624)	3.92529 (87020624)
930.0	11.57507 (87030808)	4.69004c(87020124)	5.04389 (87020624)	4.95031 (87020624)	3.22997 (87021424)
830.0	7.56555 (87030808)	4.30446 (87011824)	5.84865 (87020624)	3.59345 (87020624)	3.63260 (87071324)
730.0	6.51626c(87020124)	5.51098 (87020624)	4.77496 (87020624)	3.97582 (87071324)	3.20649 (87062608)
630.0	5.19158 (87011824)	6.02032 (87020624)	3.93828 (87071324)	3.15156 (87062608)	3.98658 (87062708)
530.0	5.96237c(87020124)	5.04794 (87040316)	3.74598 (87122116)	4.27845 (87062708)	3.91724 (87062808)
430.0	6.88554 (87040316)	4.47406 (87122116)	4.83671 (87122116)	5.43843 (87062808)	7.18793 (87120408)
330.0	5.72255 (87122816)	5.88885 (87122116)	7.98842 (87062808)	8.22825 (87120408)	4.42828 (87020716)
230.0	6.57849 (87122116)	11.29965 (87062808)	7.16016 (87020716)	3.91725 (87041116)	3.32089 (87062616)
130.0	13.05994 (87020716)	6.18771 (87062616)	6.53812 (87110516)	5.22558c(87032116)	4.85477c(87110424)
30.0	11.62350c(87032116)	8.94214 (87030816)	7.33947 (87030816)	5.76210 (87012816)	4.70257 (87010716)
-70.0	15.98971 (87021216)	11.54583 (87021216)	8.65352 (87021216)	6.72021 (87021216)	5.37629 (87021216)
-170.0	13.68922 (87012616)	10.30650 (87040516)	8.17529 (87041724)	6.32192 (87041724)	6.06247c(87110424)
-270.0	20.33303 (87121108)	17.21525 (87040824)	7.75493 (87020824)	5.19935 (87012616)	5.15851 (87030924)
-370.0	10.65064 (87031924)	15.65512c(87012724)	17.16855 (87121108)	13.77192 (87040824)	5.35323 (87111024)
-470.0	13.21123 (87011124)	8.44041 (87031924)	14.52723 (87112924)	15.19511 (87121108)	13.52197 (87040824)
-570.0	9.32467c(87091424)	10.48546 (87011124)	6.90478c(87013124)	10.10612 (87112924)	9.02719c(87012724)
-670.0	10.20183 (87102124)	9.47987c(87091424)	8.39699 (87011124)	6.36585c(87013124)	8.49200c(87062324)
-770.0	6.64260 (87102116)	8.62968c(87072324)	7.51731 (87011124)	7.05178 (87011124)	5.93508c(87013124)
-870.0	5.48347c(87043008)	8.06525c(87010724)	8.02710c(87091424)	7.43952 (87011124)	6.14225 (87011124)
-970.0	5.54203c(87043008)	5.64778 (87100724)	7.41116c(87072324)	7.71808c(87091424)	6.78130 (87011124)
-1070.0	4.78823 (87121624)	4.80774c(87042924)	6.88609c(87010724)	5.30404c(87072324)	5.64669 (87050824)
-1170.0	4.62585 (87121724)	5.34026c(87043008)	5.03677 (87100724)	5.89381c(87072324)	6.62819c(87091424)
-1270.0	3.53484c(87112024)	4.33270 (87121624)	4.36155 (87100724)	5.90543c(87010724)	5.35697c(87072324)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	3.12478 (87020624)	3.05270 (87021424)	2.60022 (87120324)	2.68334 (87062608)	4.42677c(87041108)
1030.0	3.15269 (87021424)	2.76395 (87071324)	2.84433 (87062608)	4.33637c(87041108)	5.23555c(87041108)
930.0	3.19267 (87071324)	2.99957 (87062608)	4.16710c(87041108)	5.22761c(87041108)	4.12880c(87041108)
830.0	3.13188 (87062608)	3.89994c(87041108)	5.09196c(87041108)	3.50532c(87122124)	3.93732 (87080424)
730.0	3.67044 (87062708)	4.72564c(87041108)	3.60191c(87122124)	4.24304 (87120408)	6.53557 (87120408)
630.0	4.00641c(87041108)	3.62749 (87062808)	6.12437 (87120408)	6.97721 (87120408)	4.36816 (87120408)
530.0	4.71887 (87062808)	7.76385 (87120408)	5.57464 (87120408)	2.57183 (87062808)	2.51655c(87041324)
430.0	7.12150 (87120408)	3.23312 (87062808)	2.43108c(87041324)	1.93060c(87072924)	2.04720 (87102724)
330.0	2.71820 (87041116)	2.20735 (87062616)	2.31129 (87102724)	2.87601 (87042824)	3.27838 (87041808)
230.0	3.50962 (87110516)	3.96023 (87041808)	4.74548 (87041808)	4.53957 (87041808)	3.91221 (87041808)
130.0	4.50770c(87110424)	3.69566c(87110424)	3.51751 (87042424)	3.26553 (87042424)	2.73402 (87042424)
30.0	4.24081 (87010716)	3.75241 (87010716)	3.30135 (87010716)	3.04564 (87041616)	2.84029 (87041616)
-70.0	4.47918 (87021216)	3.84893 (87021216)	3.39626 (87021216)	3.05536 (87021216)	2.78185 (87021216)
-170.0	5.96814c(87110424)	5.58375c(87110424)	5.08266c(87110424)	4.57520c(87110424)	4.08571c(87110424)
-270.0	4.59612 (87041724)	4.68368 (87041724)	4.21932 (87041724)	3.56009 (87041724)	2.92368c(87080524)
-370.0	4.25859 (87031008)	4.39322 (87031008)	3.99210 (87042408)	4.18680 (87042408)	3.76315 (87042408)
-470.0	11.32915 (87040824)	5.28894 (87040924)	3.12642 (87031008)	4.39753 (87031008)	4.19002 (87040808)
-570.0	14.79253 (87121108)	12.55931 (87040824)	9.52059 (87040824)	5.51161 (87040924)	2.68457 (87040924)
-670.0	10.26401c(87012724)	11.30038 (87121108)	11.75524 (87121108)	11.13367 (87040824)	8.13864 (87040824)
-770.0	7.62454c(87062324)	9.23641 (87112924)	7.17539c(87043024)	11.54104 (87121108)	8.96684 (87121108)
-870.0	5.55204c(87013124)	6.72482c(87062324)	7.95134 (87112924)	7.18607c(87012724)	8.78380 (87121108)
-970.0	5.73694 (87021308)	5.29969 (87102024)	5.88600c(87062324)	6.33981 (87112924)	7.40174c(87012724)
-1070.0	5.97073 (87011124)	5.33969 (87021308)	5.06692 (87102024)	5.14406c(87062324)	5.57910c(87062324)
-1170.0	5.22053 (87050824)	5.19948 (87011124)	4.92545c(87013124)	4.83003 (87102024)	4.50466c(87062324)
-1270.0	6.29555c(87091424)	5.02050 (87011124)	4.74624 (87121108)	4.82744c(87013124)	4.59611 (87102024)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

** 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.	1289.52246	(87031005)	AT (	210.00, -70.00)	GC	26.	655.31506	(87050319)	AT (	210.00, -70.00)	GC
2.	1179.14795	(87040823)	AT (	210.00, -70.00)	GC	27.	635.92444	(87040922)	AT (	210.00, -70.00)	GC
3.	1167.73682	(87072821)	AT (	210.00, -70.00)	GC	28.	635.37872	(87090919)	AT (	210.00, -70.00)	GC
4.	1129.26196	(87031023)	AT (	210.00, -70.00)	GC	29.	633.53595	(87021118)	AT (	210.00, -70.00)	GC
5.	1127.05225	(87042421)	AT (	210.00, -70.00)	GC	30.	633.06079	(87042109)	AT (	210.00, -70.00)	GC
6.	1032.29858	(87040824)	AT (	210.00, -70.00)	GC	31.	629.77734	(87040318)	AT (	210.00, -70.00)	GC
7.	1031.41235	(87040821)	AT (	210.00, -70.00)	GC	32.	629.17682	(87083123)	AT (	210.00, -70.00)	GC
8.	859.12823	(87102619)	AT (	210.00, -70.00)	GC	33.	612.96716	(87042120)	AT (	210.00, -70.00)	GC
9.	857.18854	(87062121)	AT (	210.00, -70.00)	GC	34.	590.67828	(87040409)	AT (	210.00, -70.00)	GC
10.	847.94189	(87091819)	AT (	210.00, -70.00)	GC	35.	583.63379	(87022304)	AT (	210.00, -70.00)	GC
11.	843.65649	(87030121)	AT (	210.00, -70.00)	GC	36.	583.60559	(87030203)	AT (	210.00, -70.00)	GC
12.	818.94434	(87031021)	AT (	210.00, -70.00)	GC	37.	583.45160	(87041819)	AT (	210.00, -70.00)	GC
13.	818.61774	(87032119)	AT (	210.00, -70.00)	GC	38.	583.42328	(87062120)	AT (	210.00, -70.00)	GC
14.	809.98010	(87111020)	AT (	210.00, -70.00)	GC	39.	580.48761	(87111119)	AT (	210.00, -70.00)	GC
15.	809.41803	(87102019)	AT (	210.00, -70.00)	GC	40.	580.22339	(87112904)	AT (	210.00, -70.00)	GC
16.	808.43268	(87090719)	AT (	210.00, -70.00)	GC	41.	570.97247	(87032018)	AT (	210.00, -70.00)	GC
17.	778.45789	(87081320)	AT (	210.00, -70.00)	GC	42.	570.75909	(87100618)	AT (	210.00, -70.00)	GC
18.	773.21918	(87040522)	AT (	210.00, -70.00)	GC	43.	569.94366	(87031924)	AT (	210.00, -70.00)	GC
19.	769.57526	(87041821)	AT (	210.00, -70.00)	GC	44.	568.53125	(87081319)	AT (	210.00, -70.00)	GC
20.	758.52704	(87031019)	AT (	210.00, -70.00)	GC	45.	565.05646	(87112905)	AT (	210.00, -70.00)	GC
21.	758.48315	(87041703)	AT (	210.00, -70.00)	GC	46.	538.29742	(87040820)	AT (	210.00, -70.00)	GC
22.	723.16913	(87121602)	AT (	210.00, -70.00)	GC	47.	537.91461	(87121523)	AT (	210.00, -70.00)	GC
23.	695.59198	(87042504)	AT (	210.00, -70.00)	GC	48.	534.46045	(87113004)	AT (	210.00, -70.00)	GC
24.	658.59528	(87082019)	AT (	210.00, -70.00)	GC	49.	533.32654	(87012917)	AT (	210.00, -70.00)	GC
25.	656.56903	(87010120)	AT (	210.00, -70.00)	GC	50.	531.99475	(87071219)	AT (	210.00, -70.00)	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): 2602 , GEN02 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	518.63647	(87040824)	AT	(210.00,	-70.00)	GC
2.	362.51331	(87031024)	AT	(210.00,	-70.00)	GC
3.	205.80273c	(87062124)	AT	(210.00,	-70.00)	GC
4.	200.53186	(87081324)	AT	(210.00,	-70.00)	GC
5.	195.60231	(87031008)	AT	(210.00,	-70.00)	GC
6.	189.02629	(87030124)	AT	(210.00,	-70.00)	GC
7.	179.70467	(87041824)	AT	(210.00,	-70.00)	GC
8.	176.46977c	(87010124)	AT	(210.00,	-70.00)	GC
9.	172.36823	(87032124)	AT	(210.00,	-70.00)	GC
10.	162.65527	(87072824)	AT	(210.00,	-70.00)	GC
11.	158.19969	(87022308)	AT	(210.00,	-70.00)	GC
12.	148.93951	(87121108)	AT	(210.00,	-70.00)	GC
13.	146.23051	(87072816)	AT	(210.00,	-70.00)	GC
14.	143.42265	(87112908)	AT	(210.00,	-70.00)	GC
15.	143.20360c	(87102624)	AT	(210.00,	-70.00)	GC
16.	143.11948	(87031924)	AT	(210.00,	-70.00)	GC
17.	142.00832c	(87091824)	AT	(210.00,	-70.00)	GC
18.	141.46390	(87042424)	AT	(210.00,	-70.00)	GC
19.	136.79381	(87091416)	AT	(210.00,	-70.00)	GC
20.	134.74336c	(87090724)	AT	(210.00,	-70.00)	GC
21.	129.35172	(87040524)	AT	(210.00,	-70.00)	GC
22.	127.34432c	(87041708)	AT	(210.00,	-70.00)	GC
23.	127.28624c	(87021624)	AT	(210.00,	-70.00)	GC
24.	127.09802	(87040924)	AT	(210.00,	-70.00)	GC
25.	123.77551	(87040416)	AT	(210.00,	-70.00)	GC
26.	120.99593	(87042508)	AT	(210.00,	-70.00)	GC
27.	120.06825	(87040324)	AT	(210.00,	-70.00)	GC
28.	118.67943	(87032024)	AT	(210.00,	-70.00)	GC
29.	117.83685	(87042116)	AT	(210.00,	-70.00)	GC
30.	110.65164	(87111108)	AT	(210.00,	-70.00)	GC
31.	106.47906c	(87100624)	AT	(210.00,	-70.00)	GC
32.	106.21758	(87113008)	AT	(210.00,	-70.00)	GC
33.	104.33479	(87111024)	AT	(210.00,	-70.00)	GC
34.	102.52328	(87033124)	AT	(210.00,	-70.00)	GC
35.	101.18386	(87102024)	AT	(210.00,	-70.00)	GC
36.	100.68080	(87042124)	AT	(210.00,	-70.00)	GC
37.	99.90289	(87090924)	AT	(210.00,	-70.00)	GC
38.	99.88295	(87071224)	AT	(210.00,	-70.00)	GC
39.	99.10355	(87111124)	AT	(210.00,	-70.00)	GC
40.	98.64101	(87012224)	AT	(210.00,	-70.00)	GC
41.	96.95589c	(87082024)	AT	(210.00,	-70.00)	GC
42.	95.81475c	(87122208)	AT	(110.00,	30.00)	GC
43.	92.42457c	(87021124)	AT	(210.00,	-70.00)	GC
44.	92.34949	(87083124)	AT	(210.00,	-70.00)	GC
45.	91.99348	(87061508)	AT	(110.00,	30.00)	GC
46.	90.42822	(87121608)	AT	(210.00,	-70.00)	GC
47.	88.88776c	(87012924)	AT	(210.00,	-70.00)	GC
48.	86.29230	(87030208)	AT	(210.00,	-70.00)	GC
49.	84.20034	(87041916)	AT	(210.00,	-70.00)	GC
50.	83.12246	(87050324)	AT	(210.00,	-70.00)	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	1289.52246	ON 87031005:	AT (210.00, -70.00, 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	518.63647	ON 87040824:	AT (210.00, -70.00, 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 531 Informational Message(s)

A Total of 531 Calm Hours Identified

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

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

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1988

```
** The results for this run are in file 26ST88A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1988 Met CO
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  26ERRA88.OUT
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Point Source       QS      HS      TS      VS      DS
** Parameters:       ----    ----    ----    ----     ---
SO SRCPARAM 2602    1.0457  17.68   748.7   18.90   1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29

SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters       QS      HS    TS      VS       DS
**                -----    ----  -----   -----    ---
SO SRCPARAM GEN02  0.3049  7.62  830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36   10.36   10.36   10.36    6.02
SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   11.58
SO BUILDHGT GEN02      11.58   11.58   11.58   10.36   10.36   10.36
SO BUILDWID GEN02      20.13   21.36   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   32.66
SO BUILDWID GEN02      37.75   21.85   21.93   21.36   20.13   26.82
SO BUILDWID GEN02      20.13   21.35   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   19.70
SO BUILDWID GEN02      21.09   21.85   21.93   21.36   20.13   18.29
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -990 25 100 -1270  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  26RAM88.ASC
   ANEMHGHT  10
   SURFDATA  12842  1988  TAMPA
   UAIRDATA  12842  1988  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: 26st88a.IN
**Output Print File: 26st88a.OUT
**Detailed Error/Message File: 26ERRA88.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
2602	0	0.10457E+01	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.30490E+00	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

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,	20.1,	0	2	11.6,	21.4,	0	3	11.6,	21.9,	0	4	11.6,	21.9,	0	5	11.6,	21.1,	0	6	11.6,	19.7,	0
7	11.6,	17.7,	0	8	11.6,	15.2,	0	9	11.6,	12.2,	0	10	11.6,	15.2,	0	11	11.6,	17.7,	0	12	11.6,	19.7,	0
13	11.6,	21.1,	0	14	11.6,	21.9,	0	15	11.6,	21.9,	0	16	11.6,	21.4,	0	17	11.6,	20.1,	0	18	11.6,	18.3,	0
19	11.6,	20.1,	0	20	11.6,	21.4,	0	21	11.6,	21.9,	0	22	11.6,	21.9,	0	23	11.6,	21.1,	0	24	11.6,	19.7,	0
25	11.6,	17.7,	0	26	11.6,	15.2,	0	27	11.6,	12.2,	0	28	11.6,	15.2,	0	29	11.6,	17.7,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	11.6,	21.4,	0	35	11.6,	20.1,	0	36	11.6,	18.3,	0

SOURCE ID: GEN02

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	10.4,	20.1,	0	2	10.4,	21.4,	0	3	6.0,	27.8,	0	4	6.0,	26.4,	0	5	6.0,	24.3,	0	6	6.0,	21.3,	0
7	6.0,	17.8,	0	8	6.0,	13.7,	0	9	6.0,	9.1,	0	10	6.0,	13.7,	0	11	6.0,	17.8,	0	12	10.4,	32.7,	0
13	10.4,	37.8,	0	14	10.4,	21.9,	0	15	10.4,	21.9,	0	16	10.4,	21.4,	0	17	10.4,	20.1,	0	18	6.0,	26.8,	0
19	10.4,	20.1,	0	20	10.4,	21.4,	0	21	6.0,	27.8,	0	22	6.0,	26.4,	0	23	6.0,	24.3,	0	24	6.0,	21.3,	0
25	6.0,	17.8,	0	26	6.0,	13.7,	0	27	6.0,	9.1,	0	28	6.0,	13.7,	0	29	6.0,	17.8,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	10.4,	21.4,	0	35	10.4,	20.1,	0	36	10.4,	18.3,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-990.0, -890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0,
10.0, 110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0,
1010.0, 1110.0, 1210.0, 1310.0, 1410.0,

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

-1270.0, -1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0,
-270.0, -170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0,
730.0, 830.0, 930.0, 1030.0, 1130.0,

**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)
2602	210.0	-70.0	0.39

**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: 26RAM88.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	271.0	2.57	288.2	6	1716.3	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	2	288.0	3.60	288.7	5	1721.8	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	3	304.0	2.57	288.2	6	1727.3	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	4	303.0	3.09	288.2	6	1732.9	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	5	293.0	4.12	288.7	5	1738.4	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	6	292.0	2.57	287.6	6	1743.9	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	7	295.0	2.57	287.0	6	1749.4	229.0	0.0000	0.0	0.0000	0	0.00
88	1	1	8	293.0	2.57	287.6	5	155.0	364.2	0.0000	0.0	0.0000	0	0.00
88	1	1	9	297.0	3.09	289.8	4	427.2	601.5	0.0000	0.0	0.0000	0	0.00
88	1	1	10	301.0	3.60	292.6	3	699.3	838.8	0.0000	0.0	0.0000	0	0.00
88	1	1	11	314.0	5.14	295.9	4	971.5	1076.1	0.0000	0.0	0.0000	0	0.00
88	1	1	12	316.0	6.69	298.2	4	1243.7	1313.4	0.0000	0.0	0.0000	0	0.00
88	1	1	13	303.0	4.63	297.6	3	1515.8	1550.7	0.0000	0.0	0.0000	0	0.00
88	1	1	14	329.0	4.63	298.7	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	15	332.0	3.09	298.7	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	16	304.0	3.60	299.3	3	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	17	311.0	3.60	298.7	4	1788.0	1788.0	0.0000	0.0	0.0000	0	0.00
88	1	1	18	297.0	2.06	295.9	5	1789.2	1703.0	0.0000	0.0	0.0000	0	0.00
88	1	1	19	304.0	2.06	294.3	6	1793.0	1431.5	0.0000	0.0	0.0000	0	0.00
88	1	1	20	197.0	2.06	290.4	6	1796.9	1160.0	0.0000	0.0	0.0000	0	0.00
88	1	1	21	260.0	2.06	293.2	5	1800.7	888.5	0.0000	0.0	0.0000	0	0.00
88	1	1	22	292.0	2.57	292.6	6	1804.6	617.0	0.0000	0.0	0.0000	0	0.00
88	1	1	23	290.0	3.09	292.0	6	1808.4	345.5	0.0000	0.0	0.0000	0	0.00
88	1	1	24	340.0	2.06	291.5	6	1812.2	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	26.26906 (88102405)	27.55561 (88101205)	27.83595 (88102104)	28.36034 (88080104)	28.19470 (88110623)
1030.0	25.10112 (88092604)	27.84625 (88102405)	29.15476 (88101205)	29.63119 (88102104)	30.11611 (88032622)
930.0	28.28062 (88102704)	27.82031 (88041504)	29.45568 (88102405)	29.89063 (88101205)	31.56580 (88062303)
830.0	27.25886 (88110621)	29.36833 (88102704)	30.66427 (88041504)	31.10284 (88102405)	30.18999 (88102703)
730.0	29.39178 (88071505)	31.13135 (88032107)	31.80328 (88051805)	33.18724 (88041504)	33.40887 (88042304)
630.0	30.12823 (88042205)	30.40446 (88011303)	32.10751 (88051601)	34.30833 (88040904)	35.64873 (88112606)
530.0	30.41945 (88042204)	32.47861 (88032105)	33.30823 (88032605)	35.56768 (88010119)	37.74291 (88110621)
430.0	12.02361 (88111708)	22.75656 (88082904)	34.08419 (88111103)	37.18890 (88032801)	39.15823 (88102102)
330.0	11.81422 (88010319)	11.88295 (88121014)	14.18574 (88111708)	20.90603 (88082904)	40.23368 (88111103)
230.0	12.03187 (88071507)	13.68455 (88071507)	14.34793 (88010319)	15.54079 (88120702)	16.89853 (88121014)
130.0	12.42149 (88022322)	13.78428 (88022322)	14.46577 (88022322)	15.61106 (88121016)	16.17165 (88010710)
30.0	13.03813 (88092508)	13.89487 (88092508)	14.75879 (88081808)	16.19441 (88081808)	17.82834 (88031307)
-70.0	11.33078 (88021709)	12.56159 (88021709)	13.99267 (88021709)	15.60678 (88021709)	17.78372 (88011719)
-170.0	11.95044 (88123006)	13.21016 (88123006)	14.33549 (88123006)	15.35029 (88062109)	17.58388 (88091521)
-270.0	11.81405 (88010316)	12.91143 (88010217)	14.31760 (88010217)	15.89687 (88111608)	17.44278 (88062518)
-370.0	11.30207 (88062518)	12.67979 (88062518)	14.02486 (88062207)	14.31121 (88012708)	16.78810 (88091708)
-470.0	11.71271 (88011123)	11.13608 (88091708)	13.57111 (88091708)	14.80890 (88112117)	16.23002 (88010314)
-570.0	11.25010 (88030722)	11.91168 (88112117)	13.49446 (88012502)	14.19726 (88082618)	15.14454 (88062021)
-670.0	12.07252 (88021306)	11.85982 (88013005)	13.13245 (88122509)	13.34148 (88090818)	14.79107 (88070307)
-770.0	11.51291 (88122007)	11.76707 (88080107)	11.86888 (88071824)	13.37985 (88070307)	12.43227 (88080303)
-870.0	11.34260 (88122319)	10.65805 (88122701)	12.13491 (88101908)	11.88000 (88012821)	13.67244 (88050206)
-970.0	11.43736 (88122701)	11.79055 (88012820)	12.01978 (88012821)	12.21489 (88082409)	16.90213 (88070206)
-1070.0	11.26919 (88111420)	11.84422 (88012821)	12.15358 (88031604)	14.46135 (88070206)	18.38882 (88070206)
-1170.0	11.56823 (88112506)	12.13416 (88031604)	12.82016 (88050206)	17.54261 (88070206)	17.72430 (88012408)
-1270.0	11.94183 (88031604)	11.74568 (88050206)	16.14562 (88070206)	14.00327 (88012408)	18.11903 (88012408)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	29.01926 (88081021)	29.37224 (88112103)	24.84056 (88072403)	26.69195 (88041507)	27.05997 (88021923)
1030.0	31.33245 (88032222)	31.80179 (88123102)	26.19699 (88082106)	27.82133 (88092304)	28.34989 (88060704)
930.0	33.22602 (88012621)	32.93695 (88092605)	33.38367 (88112103)	28.53913 (88072403)	29.61638 (88101106)
830.0	33.69044 (88121519)	35.50311 (88110623)	35.16332 (88123102)	29.39598 (88122805)	32.05038 (88102407)
730.0	35.04541 (88122808)	37.86057 (88112603)	37.64590 (88041803)	39.98984 (88072122)	33.59772 (88122803)
630.0	37.28742 (88042304)	39.81664 (88122808)	40.46229 (88071204)	42.03253 (88081503)	35.86210 (88122805)
530.0	40.00969 (88051804)	41.89632 (88042304)	43.89312 (88080804)	46.41813 (88072203)	47.90145 (88072122)
430.0	41.73845 (88081403)	43.73614 (88102705)	48.42704 (88101104)	49.19268 (88060703)	56.06879 (88122806)
330.0	44.72501 (88032207)	48.70177 (88121901)	51.56367 (88102801)	58.10682 (88030307)	62.81317 (88060605)
230.0	18.32695 (88020309)	49.54602 (88032301)	56.40492 (88030223)	62.96495 (88110903)	75.77750 (88030307)
130.0	19.58933 (88083022)	22.49117 (88050318)	25.89649 (88031305)	68.45724 (88031203)	82.95754 (88121901)
30.0	19.74863 (88080307)	23.18258 (88090308)	27.09340 (88032810)	34.01949 (88012919)	44.01524 (88050819)
-70.0	20.24325 (88011719)	22.90016 (88071819)	28.12282 (88070815)	34.36165 (88010305)	45.93009 (88061308)
-170.0	19.88516 (88091521)	23.01342 (88091007)	27.28579 (88090218)	33.33538 (88050109)	42.67604 (88101616)
-270.0	19.57209 (88032817)	21.91434 (88111109)	25.33838 (88091607)	30.37769 (88051321)	36.68428 (88112207)
-370.0	18.55605 (88090207)	20.69020 (88022308)	23.29372 (88062120)	26.88151 (88091108)	34.49339 (88050206)
-470.0	17.59158 (88082618)	19.31760 (88020724)	21.25959 (88120808)	29.14393 (88050206)	44.87773 (88012408)
-570.0	15.07093 (88123004)	17.84022 (88010403)	23.60651 (88050206)	30.71871 (88012408)	26.26561 (88123003)
-670.0	14.74648 (88080303)	19.27365 (88050206)	20.72392 (88070206)	30.52167 (88012408)	39.62693 (88120220)
-770.0	16.06293 (88050206)	21.32447 (88070206)	29.39415 (88012408)	18.67348 (88123003)	34.91198 (88022606)
-870.0	19.48783 (88070206)	22.69002 (88012408)	20.06223 (88012408)	32.52338 (88120507)	33.10965 (88103022)
-970.0	18.05877 (88070206)	22.98077 (88012408)	16.16951 (88022605)	31.06256 (88120407)	30.89535 (88012606)
-1070.0	21.28604 (88012408)	14.09075 (88012408)	29.06229 (88022605)	29.29494 (88110124)	29.62157 (88030623)
-1170.0	17.54780 (88012408)	15.05744 (88022605)	27.05898 (88111621)	28.04468 (88011206)	27.69974 (88101224)
-1270.0	12.05791 (88011119)	25.99044 (88022605)	26.58156 (88012722)	26.63129 (88112420)	26.10396 (88122523)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	25.01986 (88011822)	26.73937 (88090509)	26.44441 (88090509)	27.31783 (88020421)	27.01855 (88072423)
1030.0	28.82907 (88011822)	27.61487 (88090509)	28.09264 (88090509)	26.58736 (88110422)	24.93112 (88072423)
930.0	29.96959 (88072323)	28.95705 (88090422)	29.93369 (88090509)	29.10921 (88092305)	29.51548 (88082501)
830.0	32.54899 (88041802)	30.49812 (88090422)	31.98535 (88090509)	30.81879 (88092305)	30.76348 (88040420)
730.0	34.42481 (88072422)	31.63423 (88052404)	34.25109 (88090509)	33.87244 (88041824)	34.06299 (88122820)
630.0	37.52374 (88052301)	37.79011 (88052404)	36.69442 (88090509)	35.08388 (88060801)	36.90029 (88021205)
530.0	41.51715 (88072322)	42.50970 (88072404)	39.17554 (88090509)	33.54106 (88082501)	38.46609 (88090321)
430.0	46.57649 (88122803)	49.02363 (88090510)	47.48632 (88012022)	42.52317 (88122819)	36.25860 (88123119)
330.0	50.63803 (88072122)	57.72002 (88090510)	54.08749 (88012022)	53.29395 (88041901)	29.06025 (88022004)
230.0	82.83874 (88102702)	59.52633 (88072524)	66.31337 (88071410)	60.07138 (88123119)	36.02975 (88090512)
130.0	107.50231 (88030307)	97.56986 (88090822)	97.36041 (88042408)	52.41446 (88010716)	41.04462 (88042319)
30.0	127.72743 (88031203)	334.67068 (88061904)	369.82864 (88060905)	63.94894 (88042617)	49.11626 (88042417)
-70.0	65.66202 (88111811)	94.27290 (88070614)	1256.11792 (88051021)	77.27869 (88041118)	53.02195 (88063017)
-170.0	56.63622 (88070816)	72.49614 (88070518)	230.52057 (88101220)	106.69121 (88080319)	74.47021 (88111717)
-270.0	44.61872 (88082718)	85.66674 (88080520)	89.41446 (88080917)	73.20961 (88012116)	61.51580 (88120816)
-370.0	39.67151 (88121023)	62.17395 (88031605)	61.15949 (88071511)	58.11682 (88102720)	57.04972 (88021620)
-470.0	51.95290 (88120223)	52.32299 (88101506)	41.93503 (88071511)	52.68365 (88012224)	50.96072 (88021605)
-570.0	46.21474 (88112905)	46.55225 (88020424)	29.08929 (88071511)	46.90837 (88020921)	45.68376 (88121819)
-670.0	40.48212 (88012724)	41.56129 (88031606)	28.97899 (88051306)	36.77922 (88012302)	39.02518 (88012303)
-770.0	37.04776 (88120203)	37.52986 (88121703)	28.08077 (88051306)	37.65978 (88012301)	36.46875 (88110719)
-870.0	34.70412 (88112903)	30.20044 (88120124)	26.43732 (88051306)	34.42506 (88012202)	34.36712 (88021621)
-970.0	31.42391 (88121802)	23.10205 (88120124)	24.64340 (88051306)	32.12750 (88120721)	31.53927 (88111020)
-1070.0	29.31672 (88121802)	17.57773 (88012723)	22.93706 (88051306)	28.19443 (88022402)	29.41949 (88101120)
-1170.0	27.44727 (88122524)	15.05755 (88051306)	21.39257 (88051306)	26.36240 (88110619)	28.38501 (88031623)
-1270.0	27.62730 (88121722)	14.82790 (88051306)	20.02180 (88051306)	26.08838 (88110619)	26.98884 (88031721)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	25.59425 (88062704)	25.28431 (88060722)	26.07912 (88032624)	11.32335 (88123121)	10.50882 (88062705)
1030.0	24.63140 (88122820)	26.22126 (88112020)	23.31014 (88082021)	11.14617 (88042222)	10.64267 (88040909)
930.0	28.89823 (88021205)	28.42720 (88032624)	12.63489 (88042209)	11.97167 (88101113)	11.41667 (88071917)
830.0	30.46245 (88060722)	26.77822 (88082021)	13.35181 (88101113)	12.21454 (88040909)	13.28437 (88090512)
730.0	33.57725 (88032623)	15.65609 (88042209)	15.08029 (88040909)	14.33756 (88090512)	13.87671 (88120706)
630.0	30.64410 (88082021)	17.39704 (88101113)	16.17685 (88071917)	15.09905 (88120706)	14.41743 (88090121)
530.0	20.25849 (88042501)	18.72128 (88051907)	17.44275 (88100318)	15.25752 (88090121)	14.17909 (88012511)
430.0	22.54851 (88052608)	20.95381 (88100318)	18.20930 (88042423)	16.09636 (88012511)	14.26416 (88102017)
330.0	27.79088 (88090512)	22.78967 (88011817)	20.69163 (88031901)	18.46238 (88051107)	15.85056 (88040423)
230.0	28.79879 (88052320)	25.65616 (88102017)	21.85174 (88040423)	19.72776 (88012114)	17.44324 (88012113)
130.0	33.18428 (88031316)	27.13062 (88041914)	21.08214 (88012113)	19.19863 (88061819)	14.84693 (88042619)
30.0	37.38440 (88062719)	29.70435 (88030218)	24.01571 (88010815)	21.01514 (88010815)	16.88186 (88010815)
-70.0	38.33249 (88030617)	30.29791 (88051808)	23.73561 (88051808)	20.12682 (88060308)	17.27544 (88060308)
-170.0	47.01725 (88050506)	33.25494 (88050506)	24.63261 (88042509)	21.04108 (88010810)	18.14409 (88020217)
-270.0	55.27954 (88050701)	47.12793 (88051021)	23.45603 (88122417)	30.40586 (88050506)	25.47353 (88050506)
-370.0	50.30112 (88042123)	45.84548 (88050623)	41.43980 (88041923)	37.41840 (88032120)	16.05820 (88063008)
-470.0	44.51287 (88051624)	42.82254 (88042123)	39.78321 (88031521)	35.56889 (88050701)	33.46161 (88022820)
-570.0	40.37482 (88042823)	40.32724 (88022521)	36.73261 (88042120)	34.65798 (88032020)	31.78251 (88030101)
-670.0	37.69202 (88052203)	37.35169 (88021222)	35.30945 (88021606)	32.71259 (88042120)	31.27878 (88042721)
-770.0	35.00159 (88060324)	34.34860 (88121719)	31.68886 (88031024)	31.35851 (88021606)	29.32420 (88041420)
-870.0	32.01186 (88102720)	31.88879 (88052203)	31.04509 (88042823)	29.45634 (88050603)	29.12930 (88040805)
-970.0	31.35234 (88012303)	29.82803 (88060324)	29.50099 (88042202)	27.77196 (88021222)	27.81312 (88022601)
-1070.0	29.01190 (88110719)	26.58671 (88020220)	27.65276 (88032724)	27.41478 (88051024)	25.29764 (88042704)
-1170.0	27.54638 (88121720)	27.50950 (88101922)	26.01610 (88063022)	25.45846 (88042202)	25.44860 (88100324)
-1270.0	25.03257 (88120719)	25.79396 (88022603)	24.88454 (88092221)	24.70629 (88102319)	24.46443 (88062921)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	11.35928 (88031221)	9.47036 (88060904)	11.14466 (88123122)	10.49870 (88052401)	10.97808 (88062801)
1030.0	11.02344 (88060904)	10.81928 (88090512)	10.60164 (88052401)	11.13584 (88062801)	10.09790 (88102423)
930.0	12.03873 (88090512)	11.30302 (88120706)	11.13143 (88062801)	9.39124 (88041724)	9.18421 (88021204)
830.0	12.54197 (88120706)	11.96613 (88090121)	10.13957 (88041724)	8.97505 (88021204)	10.20498 (88102202)
730.0	13.17513 (88090121)	10.18695 (88041724)	9.01047 (88031901)	10.70938 (88102202)	9.69133 (88021201)
630.0	11.85968 (88012511)	10.98754 (88031901)	9.75151 (88021201)	11.57398 (88021201)	11.27380 (88042421)
530.0	12.63198 (88031901)	12.97830 (88021201)	11.94752 (88021201)	9.88748 (88050422)	10.50116 (88032703)
430.0	14.81928 (88032705)	11.61333 (88040423)	10.71429 (88012114)	10.15573 (88102424)	12.45301 (88010808)
330.0	14.33939 (88012114)	12.99717 (88042623)	15.78163 (88010808)	16.33568 (88010808)	14.34551 (88010808)
230.0	17.80384 (88010808)	15.58635 (88010808)	11.33291 (88010808)	9.13474 (88102204)	11.21376 (88102204)
130.0	12.58664 (88030218)	11.62638 (88030218)	9.94313 (88030218)	9.48370 (88010815)	9.90886 (88041921)
30.0	13.99794 (88063009)	11.71328 (88063009)	10.93381 (88111617)	10.57425 (88111617)	10.08529 (88111617)
-70.0	14.86418 (88060308)	12.86767 (88060308)	11.26674 (88060308)	10.01883 (88060308)	8.98234 (88111617)
-170.0	17.00772 (88020217)	14.92799 (88020217)	12.70897 (88020217)	10.85584 (88041920)	10.55997 (88041920)
-270.0	16.82665 (88050506)	13.24655 (88092309)	13.38597 (88092309)	12.38721 (88092309)	10.86876 (88092309)
-370.0	18.66174 (88050506)	21.47295 (88050506)	19.42669 (88050506)	15.24682 (88050506)	11.00730 (88050506)
-470.0	31.47381 (88032120)	18.56818 (88031523)	11.59829 (88050506)	15.46766 (88050506)	16.69055 (88050506)
-570.0	31.13663 (88032022)	30.01284 (88021321)	27.53613 (88031523)	20.20075 (88031523)	10.03576 (88051104)
-670.0	28.99773 (88021320)	27.88654 (88030122)	24.61625 (88041923)	26.11737 (88021321)	24.61686 (88042821)
-770.0	28.65648 (88031522)	27.16344 (88042122)	26.69918 (88030101)	25.66537 (88032024)	24.38205 (88042001)
-870.0	27.50943 (88021224)	26.07735 (88031522)	25.60111 (88042122)	24.89408 (88041521)	23.94960 (88021301)
-970.0	27.09065 (88040805)	25.80235 (88021224)	23.60957 (88082221)	21.40161 (88032020)	23.89415 (88021304)
-1070.0	26.26588 (88022601)	24.56646 (88040805)	24.17766 (88021224)	23.33801 (88082221)	22.88780 (88032122)
-1170.0	24.56608 (88051702)	24.34625 (88040707)	23.57844 (88042802)	22.66390 (88021224)	22.39351 (88082221)
-1270.0	23.70538 (88101020)	22.75878 (88051702)	22.59555 (88040707)	22.90985 (88042802)	21.69122 (88082520)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	10.98289c(88123108)	8.66440c(88101208)	6.26316 (88073108)	4.81092 (88080108)	6.21622 (88072208)
1030.0	7.55039c(88092408)	11.87026c(88123108)	8.84203c(88101208)	5.65539 (88073108)	5.19065 (88082824)
930.0	7.86008c(88051808)	8.01679c(88092408)	12.87453c(88123108)	8.70480c(88101208)	5.68395 (88080108)
830.0	6.39182 (88032608)	8.35783c(88051808)	8.42574c(88092408)	14.01101c(88123108)	9.16514 (88073108)
730.0	6.50457 (88040108)	5.79404c(88082408)	8.47478 (88032608)	8.69243c(88092408)	15.29401c(88123108)
630.0	7.15961 (88091908)	8.03239 (88040108)	5.82419c(88051608)	9.47267 (88071208)	9.52813 (88080108)
530.0	12.12394 (88031208)	12.49646 (88031208)	7.94155 (88040108)	8.82577 (88040108)	9.58717 (88071208)
430.0	4.39150 (88010108)	6.70290 (88031208)	14.66197 (88031208)	13.85002 (88031208)	11.29310 (88040108)
330.0	4.25594 (88050324)	4.01907 (88050324)	4.29772 (88013124)	6.32537 (88031208)	18.32579 (88031208)
230.0	4.11987 (88032324)	4.62066 (88032324)	4.56276 (88032324)	5.35913 (88050324)	4.76974 (88050324)
130.0	3.71704 (88050824)	4.01198 (88050824)	4.21150 (88050824)	4.49988 (88032324)	5.96131 (88032324)
30.0	3.52724 (88111816)	3.83338 (88111816)	4.16581 (88111816)	4.93332 (88032824)	6.02775 (88032824)
-70.0	3.91724 (88032908)	4.12501 (88032908)	4.37035 (88091424)	4.80181 (88091424)	5.30438 (88091424)
-170.0	3.84384 (88050808)	3.75297 (88050808)	3.54569 (88050808)	3.86083 (88030808)	4.10674 (88030808)
-270.0	3.77948 (88030808)	3.22459 (88030808)	3.81033c(88062524)	4.82487 (88010224)	5.85681 (88010224)
-370.0	3.43452 (88050224)	3.73399 (88010224)	3.91955 (88010224)	4.16623 (88010308)	4.76570 (88020724)
-470.0	3.14073 (88111908)	3.51712 (88091708)	3.95592 (88011208)	4.06024 (88012908)	5.82504 (88011524)
-570.0	4.09912 (88011208)	4.30157 (88012908)	4.89785 (88011524)	5.66424 (88011524)	4.55744 (88050108)
-670.0	4.88008 (88012908)	5.05816 (88011524)	4.54319 (88011524)	4.06968 (88050108)	5.58977 (88050108)
-770.0	4.42317 (88011524)	4.08443 (88122008)	3.67251 (88050108)	4.91796 (88012824)	5.77984 (88050108)
-870.0	3.62097c(88111308)	3.32459 (88050108)	5.19605 (88012824)	4.83244 (88050108)	5.30459 (88122608)
-970.0	3.33875 (88120808)	5.15990 (88012824)	4.30830 (88122224)	4.97684 (88122608)	4.89795 (88050208)
-1070.0	4.96236 (88012824)	4.10606 (88122224)	4.66319 (88122608)	4.54011 (88050208)	5.68985 (88092808)
-1170.0	3.97407 (88122708)	4.37170 (88122608)	4.80738c(88102308)	5.15631 (88092808)	4.65179 (88112424)
-1270.0	4.10551 (88122608)	4.89779c(88102308)	5.00609 (88111508)	4.82765 (88092808)	4.42811c(88021108)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	10.97601 (88122808)	10.30566c(88071108)	7.62871 (88072308)	6.29922 (88090508)	6.71079 (88072408)
1030.0	6.71570 (88073124)	11.33983 (88122808)	6.27284 (88082108)	7.66666 (88072308)	6.35961 (88072324)
930.0	5.97446 (88082824)	11.33127 (88122808)	11.35214c(88071108)	10.66343 (88072308)	7.74844c(88072508)
830.0	6.08975 (88080108)	8.20732 (88072208)	14.69402 (88122808)	7.13007 (88072308)	8.01703 (88090508)
730.0	10.26963 (88073108)	7.00234 (88090108)	9.74868 (88122808)	12.29871c(88071108)	10.69844 (88072308)
630.0	16.73199c(88123108)	10.83004 (88073108)	8.50415 (88082824)	19.69026 (88122808)	12.81035 (88072308)
530.0	11.04283 (88080108)	18.31536c(88123108)	9.64460 (88073108)	11.32052 (88072208)	12.60769c(88071108)
430.0	7.55809c(88071224)	12.10035c(88051808)	19.99032c(88123108)	10.73544 (88030308)	26.46364 (88122808)
330.0	14.31909 (88031208)	13.30062 (88040108)	14.92466 (88072524)	21.54540c(88123108)	14.61596 (88112624)
230.0	5.65209 (88013124)	24.10244 (88031208)	17.16416 (88040108)	18.16755 (88071208)	24.16337 (88081108)
130.0	6.87307 (88032324)	6.65095 (88050324)	7.07117 (88013016)	34.68538 (88031208)	25.40310 (88040108)
30.0	7.32686 (88032824)	8.66178 (88032824)	9.41816 (88032824)	11.50398 (88011624)	15.89382 (88013016)
-70.0	5.90141 (88091424)	6.95615 (88043024)	8.79121 (88040224)	11.58872 (88040224)	14.81622 (88040224)
-170.0	4.80244 (88061316)	7.04362 (88061316)	9.72366 (88010224)	14.23548 (88010224)	15.30541 (88010224)
-270.0	6.65099 (88010224)	7.64235 (88010308)	7.90140c(88051324)	8.79871 (88010316)	18.85010 (88012816)
-370.0	5.64836c(88051324)	6.55502 (88011524)	8.12582 (88050108)	13.90040 (88050108)	15.11648 (88020524)
-470.0	5.76479 (88011524)	7.37178 (88050108)	11.30189 (88050108)	10.89002 (88020524)	12.82483 (88120824)
-570.0	6.46259 (88050108)	8.93354 (88050108)	8.03741 (88020524)	8.36285 (88120824)	7.87991 (88121216)
-670.0	7.10640 (88050108)	6.24406 (88020524)	5.57552 (88052624)	8.33124 (88120824)	20.27481 (88120224)
-770.0	5.62637 (88122608)	5.03801 (88050208)	7.71844 (88120824)	5.48609 (88103108)	16.55141 (88120224)
-870.0	5.13038 (88050208)	5.79887 (88120824)	5.32283 (88070524)	14.50276 (88120224)	14.43743c(88110208)
-970.0	5.41076 (88092808)	5.71945 (88120824)	5.25772 (88103024)	14.76913 (88120224)	13.11665c(88110208)
-1070.0	5.21589 (88120824)	4.01487 (88100508)	10.83432 (88120224)	10.88753 (88120224)	10.36043 (88101008)
-1170.0	4.15183 (88120824)	5.15498c(88120408)	12.37671 (88120224)	12.18116c(88110208)	13.37954c(88120208)
-1270.0	4.21048c(88120408)	8.41375 (88120224)	10.63039 (88120224)	11.87521c(88110208)	12.97796c(88120208)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	5.58568 (88082108)	6.14073c(88092208)	4.52784 (88090516)	10.39340 (88110424)	4.88556c(88072424)
1030.0	6.16561 (88072408)	6.20224c(88092208)	4.92307c(88042308)	11.56746 (88110424)	4.74032c(88072424)
930.0	7.30304 (88072408)	6.12081c(88092208)	5.55374 (88012024)	12.09778 (88110424)	4.91925c(88082508)
830.0	8.98777 (88072408)	6.43727c(88072424)	6.53105 (88012024)	11.52247 (88110424)	7.29049 (88122824)
730.0	10.12717 (88072408)	6.83127c(88072424)	7.83240 (88012024)	9.65096 (88110424)	11.49356 (88122824)
630.0	9.28415 (88072408)	7.59319 (88010724)	9.60989 (88012024)	7.25817 (88110508)	11.56309 (88060724)
530.0	10.52700 (88090508)	9.00288 (88010724)	12.03962 (88012024)	8.06692 (88110508)	9.84900 (88060724)
430.0	16.65639 (88072308)	10.71912 (88072408)	15.30668 (88012024)	12.68259 (88122824)	9.92204 (88021916)
330.0	15.93070 (88012008)	15.33317 (88072408)	19.31064 (88012024)	15.78313 (88060724)	13.91710 (88021916)
230.0	25.86277 (88122808)	17.09852 (88072408)	31.98412 (88110424)	18.45157 (88021916)	8.96242 (88041916)
130.0	39.50419 (88081108)	39.42218 (88012008)	45.11235 (88110424)	16.57603 (88021916)	10.87279 (88092316)
30.0	66.20564 (88031208)	90.46585 (88030308)	94.16703 (88060724)	25.46856 (88042616)	24.82807 (88041208)
-70.0	22.98982 (88030716)	40.74707 (88061316)	468.76102c(88041324)	22.95830 (88042116)	16.14221 (88041216)
-170.0	25.07238 (88012816)	45.10571 (88070524)	63.91838 (88022424)	38.36904 (88050524)	22.29561c(88041324)
-270.0	19.94809 (88010516)	39.82808 (88100908)	35.22468 (88012208)	28.68468 (88012124)	19.11139 (88042724)
-370.0	16.19219 (88070524)	22.91641c(88120208)	19.75647 (88121316)	16.97958 (88121624)	17.01426 (88012124)
-470.0	28.54958 (88120224)	14.08568 (88121808)	14.34283 (88010416)	13.13925 (88022424)	11.60109c(88082424)
-570.0	16.50816c(88110208)	15.35898 (88121708)	11.79152 (88010416)	12.07295c(88051708)	11.66852c(88072624)
-670.0	15.26770 (88120608)	14.59059 (88121708)	9.63657 (88010416)	10.61120c(88012308)	11.44034c(88040524)
-770.0	17.35384c(88120208)	11.84514 (88121708)	7.94143 (88010416)	8.82706c(88012308)	7.79864 (88022424)
-870.0	14.72978c(88120208)	9.12069 (88121708)	6.89820 (88051308)	9.20801 (88012208)	7.00723c(88051708)
-970.0	10.75768 (88101908)	7.04178 (88121708)	6.44604 (88051308)	8.38378 (88012208)	8.13333 (88111024)
-1070.0	10.30434 (88101908)	6.00233 (88120108)	6.05912 (88051308)	7.04985 (88012208)	6.53464c(88012308)
-1170.0	8.27220 (88111124)	5.42157 (88120108)	5.68478 (88051308)	5.80737 (88012208)	6.56131c(88012308)
-1270.0	7.89902 (88110824)	4.91939 (88120108)	5.35369 (88051308)	5.01023c(88032208)	5.86211c(88012308)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	7.72328 (88122824)	8.16480 (88060724)	5.88863 (88032624)	3.35771 (88021916)	3.80533c(88071624)
1030.0	9.06073 (88122824)	5.68448 (88060724)	3.90457c(88082024)	3.51566 (88021916)	4.55789 (88051908)
930.0	8.83158 (88060724)	6.98599 (88032624)	4.17069 (88021916)	3.99687 (88051908)	3.01811 (88051908)
830.0	9.59605 (88060724)	4.49348c(88082024)	4.20832 (88021916)	3.93740 (88051908)	3.04551c(88071324)
730.0	7.64664 (88123124)	5.55310 (88021916)	4.26691 (88051908)	3.36965c(88071324)	3.35182 (88022008)
630.0	6.11874 (88021916)	5.12809 (88021916)	3.86689c(88071324)	3.51930 (88031224)	2.56638 (88012116)
530.0	8.31014 (88021916)	4.77451c(88071324)	3.67741 (88041916)	3.13065 (88030924)	2.31768 (88060824)
430.0	6.01912c(88071324)	4.77891 (88041916)	4.04089 (88030924)	3.74848 (88021524)	4.13079 (88021524)
330.0	6.42982 (88041916)	5.49405 (88030924)	6.06144 (88021524)	4.56144c(88051108)	3.38151 (88012516)
230.0	7.62010 (88030924)	8.44913 (88021524)	5.01745 (88012516)	4.36615 (88041208)	4.96265 (88041208)
130.0	7.27892 (88042616)	9.06823 (88041208)	8.84314 (88041208)	6.37768 (88041208)	4.20361 (88041208)
30.0	13.79271 (88041208)	10.63569 (88042608)	7.99900 (88042608)	5.47156 (88042608)	3.97634 (88041216)
-70.0	12.06102c(88041024)	9.17964c(88041024)	7.04663c(88041024)	5.53362c(88041024)	4.53460c(88051124)
-170.0	12.54634 (88040724)	10.25716 (88050508)	7.11049 (88050508)	5.67607 (88021124)	5.21620 (88021124)
-270.0	18.01839 (88050624)	16.46111c(88041324)	6.77175 (88040724)	5.46177 (88050508)	5.61116 (88050508)
-370.0	15.09848c(88042124)	14.86585 (88050624)	8.97656 (88032024)	13.27211c(88041324)	4.27947 (88040724)
-470.0	9.47775 (88012124)	12.96765c(88042124)	10.59094 (88050608)	9.84332 (88050624)	9.65873 (88050708)
-570.0	11.39712c(88092424)	11.37592 (88042024)	11.17829c(88042124)	9.94774 (88050608)	9.27156 (88050624)
-670.0	8.34667c(88082424)	9.01751 (88021608)	12.70117 (88042024)	10.28853c(88041424)	9.72832 (88042724)
-770.0	9.04506c(88072624)	8.01847c(88092424)	7.33378 (88021608)	12.04223 (88042024)	9.66573c(88041424)
-870.0	8.42952c(88072624)	6.29358c(88102324)	9.55354c(88092424)	4.92258 (88102124)	10.67514 (88042024)
-970.0	7.53101c(88040524)	7.58836 (88022524)	7.26750c(88082424)	6.08108 (88021608)	5.08152c(88092324)
-1070.0	5.42003 (88022424)	8.34407c(88072624)	6.23864c(88102324)	8.33377c(88092424)	6.03315 (88021608)
-1170.0	5.29717 (88121724)	7.16520c(88040524)	7.31326c(88102324)	6.48407c(88082424)	7.78473c(88092424)
-1270.0	5.56043c(88051708)	5.29926c(88040524)	7.30636c(88072624)	5.95510c(88102324)	5.88153c(88092424)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	4.13826 (88051908)	2.46803c(88071324)	2.87702 (88031224)	2.74392 (88022008)	2.35556 (88051824)
1030.0	2.62789c(88071324)	2.78639 (88031224)	2.89521 (88022008)	2.34086 (88042524)	1.97710 (88011824)
930.0	2.79722c(88071324)	3.05161 (88022008)	2.38843 (88042524)	2.09809 (88011824)	2.24528c(88041724)
830.0	3.20778 (88022008)	2.39244 (88042524)	2.19365 (88011824)	2.13666c(88041724)	2.48309 (88102208)
730.0	2.32611 (88042524)	2.22412 (88011824)	1.96154 (88021524)	2.55917 (88102208)	3.29603c(88051108)
630.0	2.14127 (88011824)	2.62247 (88021524)	3.03963c(88051108)	3.78214c(88051108)	2.54439c(88051108)
530.0	3.40974 (88021524)	4.01216c(88051108)	3.24616c(88051108)	2.22086 (88042424)	2.23544 (88042624)
430.0	4.06337c(88051108)	2.55104 (88042424)	2.58713 (88042624)	3.28713 (88042624)	2.87759 (88042624)
330.0	3.02144 (88042624)	3.60325 (88042624)	3.25521 (88041208)	3.03664 (88041208)	2.67901 (88041208)
230.0	4.52518 (88041208)	3.71642 (88041208)	2.94338 (88041208)	2.29787 (88041208)	2.60391 (88042608)
130.0	4.52324 (88042608)	4.43442 (88042608)	4.02386 (88042608)	3.48402 (88042608)	2.93047 (88042608)
30.0	3.54664 (88041216)	3.19255 (88041216)	2.91582 (88041216)	2.68496 (88041216)	2.48610 (88041216)
-70.0	4.24075c(88051124)	4.00841c(88051124)	3.80047c(88051124)	3.62454c(88051124)	3.46605c(88051124)
-170.0	4.76052 (88021124)	4.27420 (88021124)	3.80929 (88021124)	3.39330 (88021124)	3.01679 (88021124)
-270.0	4.88235 (88050508)	4.08431 (88050508)	3.42085 (88050508)	2.85795 (88050508)	2.36419 (88050508)
-370.0	3.40686 (88041124)	3.63219 (88050508)	3.75609 (88050508)	3.51158 (88050508)	3.16277 (88050508)
-470.0	10.98077c(88041324)	4.91635c(88041324)	2.77244 (88041124)	2.67679 (88022808)	2.95794 (88022808)
-570.0	8.11229 (88032024)	9.43237 (88050708)	9.28401c(88041324)	5.20934c(88041324)	2.49916c(88051108)
-670.0	7.46901 (88050624)	6.69303 (88050624)	6.10676 (88032024)	8.65234 (88050708)	7.98755c(88041324)
-770.0	9.66042 (88042724)	6.18500 (88050608)	7.87314 (88021308)	6.40089 (88032024)	5.58399 (88050708)
-870.0	9.03234c(88041424)	9.08037 (88042724)	6.06345 (88050608)	7.46371 (88021308)	5.83073 (88021308)
-970.0	9.22116 (88042024)	8.42363c(88041424)	8.32491 (88042724)	7.02336c(88042808)	6.16659 (88021308)
-1070.0	5.61831c(88092324)	7.90899 (88042024)	7.85522c(88041424)	7.55489 (88042724)	7.44485c(88042808)
-1170.0	4.78398 (88021608)	6.38777 (88042024)	6.79614 (88042024)	7.33274c(88041424)	6.83646 (88042724)
-1270.0	5.07453c(88092424)	3.90303 (88102124)	6.86904 (88042024)	5.98193c(88042808)	6.85063c(88041424)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 , .

** 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.	1256.11792	(88051021)	AT (	210.00, -70.00)	GC	26.	487.35040	(88082220)	AT (	210.00, -70.00)	GC
2.	1179.57056	(88032120)	AT (	210.00, -70.00)	GC	27.	460.49033	(88021119)	AT (	210.00, -70.00)	GC
3.	1178.13574	(88041320)	AT (	210.00, -70.00)	GC	28.	458.82172	(88102617)	AT (	210.00, -70.00)	GC
4.	1176.79443	(88050703)	AT (	210.00, -70.00)	GC	29.	435.43201	(88021321)	AT (	210.00, -70.00)	GC
5.	1149.46936	(88041322)	AT (	210.00, -70.00)	GC	30.	425.21915	(88050704)	AT (	210.00, -70.00)	GC
6.	1128.06006	(88050622)	AT (	210.00, -70.00)	GC	31.	416.05771	(88060309)	AT (	210.00, -70.00)	GC
7.	1029.79993	(88050702)	AT (	210.00, -70.00)	GC	32.	410.12494	(88092017)	AT (	210.00, -70.00)	GC
8.	826.80518	(88060404)	AT (	210.00, -70.00)	GC	33.	378.29544	(88071416)	AT (	210.00, -70.00)	GC
9.	819.52899	(88032019)	AT (	210.00, -70.00)	GC	34.	369.82864	(88060905)	AT (	210.00, 30.00)	GC
10.	780.77448	(88032119)	AT (	210.00, -70.00)	GC	35.	367.19299	(88021717)	AT (	210.00, -70.00)	GC
11.	780.70349	(88041319)	AT (	210.00, -70.00)	GC	36.	367.17316	(88041901)	AT (	210.00, 30.00)	GC
12.	686.87579	(88022919)	AT (	210.00, -70.00)	GC	37.	366.24863	(88031921)	AT (	210.00, -70.00)	GC
13.	659.02295	(88111717)	AT (	210.00, -70.00)	GC	38.	336.67410	(88041309)	AT (	210.00, -70.00)	GC
14.	650.38110	(88031523)	AT (	210.00, -70.00)	GC	39.	334.67068	(88061904)	AT (	110.00, 30.00)	GC
15.	648.59753	(88042821)	AT (	210.00, -70.00)	GC	40.	332.55923	(88090102)	AT (	110.00, 30.00)	GC
16.	643.77863	(88110520)	AT (	210.00, -70.00)	GC	41.	328.76859	(88032111)	AT (	210.00, -70.00)	GC
17.	635.70441	(88051921)	AT (	210.00, -70.00)	GC	42.	328.55392	(88092417)	AT (	210.00, -70.00)	GC
18.	632.83887	(88042121)	AT (	210.00, -70.00)	GC	43.	318.51294	(88040502)	AT (	210.00, -70.00)	GC
19.	586.22284	(88083018)	AT (	210.00, -70.00)	GC	44.	292.41995	(88041923)	AT (	210.00, -70.00)	GC
20.	582.87903	(88021223)	AT (	210.00, -70.00)	GC	45.	290.54904	(88062621)	AT (	210.00, -70.00)	GC
21.	579.92706	(88062619)	AT (	210.00, -70.00)	GC	46.	288.83099	(88062820)	AT (	210.00, -70.00)	GC
22.	570.72064	(88091720)	AT (	210.00, -70.00)	GC	47.	284.10971	(88060323)	AT (	210.00, -70.00)	GC
23.	538.78931	(88022820)	AT (	210.00, -70.00)	GC	48.	279.91547	(88082823)	AT (	110.00, 30.00)	GC
24.	533.46851	(88031324)	AT (	210.00, -70.00)	GC	49.	278.81427	(88110304)	AT (	110.00, 30.00)	GC
25.	489.98544	(88110521)	AT (	210.00, -70.00)	GC	50.	276.30673	(88081905)	AT (	110.00, 30.00)	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): 2602 , GEN02 ,

** 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.	468.76102c	(88041324)	AT (	210.00,	-70.00)	GC	26.	76.40693	(88081108)	AT (	110.00,	30.00)	GC
2.	335.63361	(88050708)	AT (	210.00,	-70.00)	GC	27.	76.08018	(88090108)	AT (	110.00,	30.00)	GC
3.	245.04312	(88032124)	AT (	210.00,	-70.00)	GC	28.	75.37016	(88112008)	AT (	110.00,	30.00)	GC
4.	185.30539	(88050624)	AT (	210.00,	-70.00)	GC	29.	74.36388	(88021124)	AT (	210.00,	-70.00)	GC
5.	159.43391	(88051024)	AT (	210.00,	-70.00)	GC	30.	73.27785	(88083024)	AT (	210.00,	-70.00)	GC
6.	141.72050	(88110524)	AT (	210.00,	-70.00)	GC	31.	72.42598	(88111924)	AT (	110.00,	30.00)	GC
7.	140.84065	(88032024)	AT (	210.00,	-70.00)	GC	32.	71.34008	(88091724)	AT (	210.00,	-70.00)	GC
8.	118.11663c	(88060408)	AT (	210.00,	-70.00)	GC	33.	70.09286	(88061816)	AT (	210.00,	-70.00)	GC
9.	111.81017c	(88031524)	AT (	210.00,	-70.00)	GC	34.	69.62148c	(88082224)	AT (	210.00,	-70.00)	GC
10.	109.35905	(88062624)	AT (	210.00,	-70.00)	GC	35.	69.52064	(88070116)	AT (	210.00,	-70.00)	GC
11.	104.18169	(88022924)	AT (	210.00,	-70.00)	GC	36.	68.79199	(88060316)	AT (	210.00,	-70.00)	GC
12.	100.39730c	(88021324)	AT (	210.00,	-70.00)	GC	37.	66.68356	(88031324)	AT (	210.00,	-70.00)	GC
13.	98.68323c	(88022824)	AT (	210.00,	-70.00)	GC	38.	66.54539	(88040724)	AT (	210.00,	-70.00)	GC
14.	95.50671	(88041316)	AT (	210.00,	-70.00)	GC	39.	66.20564	(88031208)	AT (	10.00,	30.00)	GC
15.	95.21906	(88031924)	AT (	210.00,	-70.00)	GC	40.	65.62564	(88031424)	AT (	210.00,	-70.00)	GC
16.	94.16703	(88060724)	AT (	210.00,	30.00)	GC	41.	65.16116	(88022816)	AT (	210.00,	-70.00)	GC
17.	92.19968	(88051924)	AT (	210.00,	-70.00)	GC	42.	64.56291c	(88062824)	AT (	210.00,	-70.00)	GC
18.	90.95252c	(88042124)	AT (	210.00,	-70.00)	GC	43.	64.00095	(88031816)	AT (	110.00,	30.00)	GC
19.	90.46585	(88030308)	AT (	110.00,	30.00)	GC	44.	63.99436	(88060916)	AT (	210.00,	30.00)	GC
20.	90.10881	(88021224)	AT (	210.00,	-70.00)	GC	45.	63.91838	(88022424)	AT (	210.00,	-170.00)	GC
21.	87.70891	(88042824)	AT (	210.00,	-70.00)	GC	46.	63.40223	(88061908)	AT (	110.00,	30.00)	GC
22.	85.05550	(88060924)	AT (	210.00,	30.00)	GC	47.	63.02414	(88021208)	AT (	210.00,	30.00)	GC
23.	82.39223	(88052424)	AT (	210.00,	30.00)	GC	48.	61.76052	(88060908)	AT (	210.00,	30.00)	GC
24.	82.37787	(88111724)	AT (	210.00,	-70.00)	GC	49.	59.91645	(88071316)	AT (	210.00,	30.00)	GC
25.	76.47028c	(88102624)	AT (	210.00,	-70.00)	GC	50.	58.85384	(88012524)	AT (	210.00,	-70.00)	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 1256.11792	ON 88051021:	AT (210.00, -70.00, 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 468.76102c	ON 88041324:	AT (210.00, -70.00, 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 493 Informational Message(s)

A Total of 493 Calm Hours Identified

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

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

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1989

```
** The results for this run are in file 26ST89A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1989 Met CO
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  26ERRA89.OUT
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Point Source       QS      HS      TS      VS      DS
** Parameters:       ----    ----    ----    ----     ---
SO SRCPARAM 2602    1.0457  17.68   748.7   18.90   1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29

SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters       QS      HS     TS      VS       DS
**                 -----   ----  -----   -----     ---
SO SRCPARAM GEN02  0.3049  7.62  830.93  47.89     0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36   10.36   10.36   10.36    6.02
SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   11.58
SO BUILDHGT GEN02      11.58   11.58   11.58   10.36   10.36   10.36
SO BUILDWID GEN02      20.13   21.36   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   32.66
SO BUILDWID GEN02      37.75   21.85   21.93   21.36   20.13   26.82
SO BUILDWID GEN02      20.13   21.35   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   19.70
SO BUILDWID GEN02      21.09   21.85   21.93   21.36   20.13   18.29
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -990 25 100 -1270  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  26RAM89.ASC
   ANEMHGHT  10
   SURFDATA  12842  1989  TAMPA
   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: 26st89a.IN
**Output Print File: 26st89a.OUT
**Detailed Error/Message File: 26ERRA89.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
2602	0	0.10457E+01	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.30490E+00	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

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,	20.1,	0	2	11.6,	21.4,	0	3	11.6,	21.9,	0	4	11.6,	21.9,	0	5	11.6,	21.1,	0	6	11.6,	19.7,	0
7	11.6,	17.7,	0	8	11.6,	15.2,	0	9	11.6,	12.2,	0	10	11.6,	15.2,	0	11	11.6,	17.7,	0	12	11.6,	19.7,	0
13	11.6,	21.1,	0	14	11.6,	21.9,	0	15	11.6,	21.9,	0	16	11.6,	21.4,	0	17	11.6,	20.1,	0	18	11.6,	18.3,	0
19	11.6,	20.1,	0	20	11.6,	21.4,	0	21	11.6,	21.9,	0	22	11.6,	21.9,	0	23	11.6,	21.1,	0	24	11.6,	19.7,	0
25	11.6,	17.7,	0	26	11.6,	15.2,	0	27	11.6,	12.2,	0	28	11.6,	15.2,	0	29	11.6,	17.7,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	11.6,	21.4,	0	35	11.6,	20.1,	0	36	11.6,	18.3,	0

SOURCE ID: GEN02

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	10.4,	20.1,	0	2	10.4,	21.4,	0	3	6.0,	27.8,	0	4	6.0,	26.4,	0	5	6.0,	24.3,	0	6	6.0,	21.3,	0
7	6.0,	17.8,	0	8	6.0,	13.7,	0	9	6.0,	9.1,	0	10	6.0,	13.7,	0	11	6.0,	17.8,	0	12	10.4,	32.7,	0
13	10.4,	37.8,	0	14	10.4,	21.9,	0	15	10.4,	21.9,	0	16	10.4,	21.4,	0	17	10.4,	20.1,	0	18	6.0,	26.8,	0
19	10.4,	20.1,	0	20	10.4,	21.4,	0	21	6.0,	27.8,	0	22	6.0,	26.4,	0	23	6.0,	24.3,	0	24	6.0,	21.3,	0
25	6.0,	17.8,	0	26	6.0,	13.7,	0	27	6.0,	9.1,	0	28	6.0,	13.7,	0	29	6.0,	17.8,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	10.4,	21.4,	0	35	10.4,	20.1,	0	36	10.4,	18.3,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-990.0, -890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0,
10.0, 110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0,
1010.0, 1110.0, 1210.0, 1310.0, 1410.0,

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

-1270.0, -1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0,
-270.0, -170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0,
730.0, 830.0, 930.0, 1030.0, 1130.0,

**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)
2602	210.0	-70.0	0.39

**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
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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: 26RAM89.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	181.0	0.00	293.2	6	999.5	590.0	0.0000	0.0	0.0000	0	0.00
89	1	1	2	338.0	2.06	293.7	5	999.1	590.0	0.0000	0.0	0.0000	0	0.00
89	1	1	3	4.0	1.54	293.7	4	998.8	998.8	0.0000	0.0	0.0000	0	0.00
89	1	1	4	13.0	1.54	293.2	4	998.4	998.4	0.0000	0.0	0.0000	0	0.00
89	1	1	5	353.0	2.06	293.2	4	998.1	998.1	0.0000	0.0	0.0000	0	0.00
89	1	1	6	352.0	1.54	292.6	4	997.8	997.8	0.0000	0.0	0.0000	0	0.00
89	1	1	7	355.0	2.06	292.6	4	997.4	997.4	0.0000	0.0	0.0000	0	0.00
89	1	1	8	333.0	2.06	292.0	4	997.1	997.1	0.0000	0.0	0.0000	0	0.00
89	1	1	9	337.0	2.06	293.2	4	996.7	996.7	0.0000	0.0	0.0000	0	0.00
89	1	1	10	351.0	2.57	294.3	3	996.4	996.4	0.0000	0.0	0.0000	0	0.00
89	1	1	11	24.0	3.09	298.2	3	996.0	996.0	0.0000	0.0	0.0000	0	0.00
89	1	1	12	6.0	4.12	297.6	3	995.7	995.7	0.0000	0.0	0.0000	0	0.00
89	1	1	13	3.0	5.14	299.3	3	995.3	995.3	0.0000	0.0	0.0000	0	0.00
89	1	1	14	9.0	5.14	299.3	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	15	12.0	4.63	298.7	3	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	16	24.0	3.60	298.7	3	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	17	41.0	3.60	297.6	4	995.0	995.0	0.0000	0.0	0.0000	0	0.00
89	1	1	18	57.0	3.60	295.4	5	993.9	991.5	0.0000	0.0	0.0000	0	0.00
89	1	1	19	64.0	3.09	294.3	6	990.5	980.4	0.0000	0.0	0.0000	0	0.00
89	1	1	20	27.0	2.57	293.7	6	987.0	969.4	0.0000	0.0	0.0000	0	0.00
89	1	1	21	20.0	2.57	293.2	5	983.6	958.3	0.0000	0.0	0.0000	0	0.00
89	1	1	22	92.0	3.09	293.2	4	980.1	980.1	0.0000	0.0	0.0000	0	0.00
89	1	1	23	110.0	1.54	292.6	5	976.7	936.1	0.0000	0.0	0.0000	0	0.00
89	1	1	24	70.0	2.06	292.6	4	973.2	973.2	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	25.92887 (89092701)	27.46762 (89042503)	26.36248 (89011306)	28.46219 (89052224)	29.68231 (89112605)
1030.0	27.08137 (89070502)	27.44761 (89092701)	29.05070 (89042503)	28.37249 (89122702)	30.29991 (89020202)
930.0	28.20752 (89051505)	28.28596 (89070502)	28.98414 (89092701)	29.77076 (89042503)	32.49953 (89122702)
830.0	28.80467 (89062201)	29.28347 (89051505)	31.01616 (89122801)	30.54033 (89092701)	32.78721 (89020505)
730.0	29.44476 (89082203)	30.26259 (89092306)	32.50193 (89031207)	33.62014 (89122801)	33.24450 (89070803)
630.0	30.25198 (89112206)	30.51896 (89072103)	32.13020 (89041901)	34.18312 (89040305)	36.33066 (89022604)
530.0	30.14294 (89110702)	31.48707 (89041822)	34.19996 (89120504)	35.62035 (89031704)	37.68156 (89020407)
430.0	13.31449 (89072206)	22.98427 (89020207)	33.95836 (89020402)	36.98624 (89021322)	39.70992 (89123005)
330.0	20.35767 (89072206)	21.80271 (89072206)	18.96184 (89072206)	21.16496 (89020207)	40.04759 (89020402)
230.0	12.04871 (89071107)	13.70589 (89071107)	19.51566 (89072206)	25.63798 (89072206)	26.48019 (89072206)
130.0	11.55700 (89092502)	13.14714 (89092502)	14.24433 (89092502)	16.13194 (89101417)	17.19660 (89030110)
30.0	11.80781 (89052907)	13.22945 (89052907)	14.74157 (89052907)	16.17133 (89070619)	17.83335 (89070919)
-70.0	11.89525 (89101606)	13.06561 (89101606)	14.40363 (89101606)	15.87835 (89101606)	17.35275 (89101606)
-170.0	10.79664 (89082908)	12.09781 (89082908)	13.56748 (89051907)	15.32894 (89051907)	17.87408 (89080508)
-270.0	11.89259 (89071120)	13.71057 (89071120)	14.76344 (89071120)	15.79567 (89121901)	17.16547 (89122709)
-370.0	11.25324 (89112423)	13.23121 (89122809)	13.84403 (89122809)	15.04975 (89103108)	16.37048 (89112608)
-470.0	11.20968 (89103108)	11.12534 (89031708)	13.20464 (89090407)	14.84200 (89081409)	16.26142 (89081807)
-570.0	11.11966 (89092906)	11.93197 (89081409)	12.96170 (89081807)	12.86091 (89121906)	14.44918 (89011009)
-670.0	11.89002 (89011907)	11.25048 (89012524)	11.10665 (89101509)	13.21055 (89100917)	14.68098 (89110208)
-770.0	11.06665 (89111321)	10.64756 (89102021)	11.68663 (89100917)	13.29636 (89110208)	13.29314 (89111117)
-870.0	10.99418 (89010924)	11.16946 (89111319)	11.64491 (89110208)	11.49289 (89041707)	13.21665 (89121120)
-970.0	11.27909 (89092803)	11.02651 (89042121)	10.50311 (89051805)	12.02847 (89121120)	11.71461 (89121905)
-1070.0	11.30585 (89042121)	10.67920 (89011406)	11.34853 (89120124)	11.21706 (89120123)	11.04649 (89111822)
-1170.0	10.98312 (89011406)	11.35757 (89120124)	11.45219 (89120123)	12.02868 (89111822)	11.96298 (89111802)
-1270.0	11.28119 (89111204)	11.07735 (89120205)	11.23297 (89111822)	11.37203 (89111802)	11.17721 (89021503)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	29.61394 (89112205)	30.16699 (89071204)	25.92373 (89032102)	29.06909 (89043006)	30.25706 (89050106)
1030.0	30.69037 (89091602)	31.90849 (89013007)	27.15501 (89020105)	31.01017 (89043006)	36.95066 (89050106)
930.0	32.14688 (89020306)	33.66998 (89032706)	33.55250 (89041002)	28.40628 (89071301)	41.43137 (89050106)
830.0	34.49481 (89122623)	35.26407 (89040406)	36.80592 (89040402)	30.81542 (89030524)	40.18700 (89050106)
730.0	35.04541 (89042302)	37.77168 (89020703)	39.50995 (89010906)	40.12954 (89071905)	41.32652 (89043006)
630.0	37.07688 (89070803)	39.81664 (89042302)	40.88537 (89020306)	42.86467 (89040402)	35.42749 (89070905)
530.0	40.00969 (89042403)	41.62066 (89070803)	44.63940 (89122903)	46.95239 (89123105)	49.81607 (89010804)
430.0	42.66705 (89010601)	44.55961 (89120703)	48.64979 (89120704)	51.73520 (89020206)	55.78421 (89030323)
330.0	45.19681 (89022606)	47.34599 (89052001)	51.80882 (89012001)	58.17324 (89120704)	64.04924 (89021302)
230.0	19.00175 (89072108)	49.05455 (89070704)	55.92292 (89011123)	62.41025 (89011923)	71.77657 (89121202)
130.0	19.93608 (89072206)	28.56219 (89072206)	25.81904 (89022007)	67.24503 (89070704)	81.74725 (89060124)
30.0	20.16323 (89121904)	23.18258 (89082108)	26.91809 (89101416)	33.70644 (89021613)	41.01743 (89082718)
-70.0	19.66208 (89091108)	23.45268 (89091108)	28.00763 (89082016)	34.68179 (89090819)	45.50964 (89083023)
-170.0	19.81702 (89071215)	22.81756 (89030212)	27.06568 (89092908)	32.81602 (89011117)	42.75427 (89082019)
-270.0	19.44879 (89011208)	21.87429 (89031708)	25.44705 (89053107)	30.10884 (89121802)	36.59701 (89112417)
-370.0	18.49167 (89030206)	20.47904 (89011108)	23.74425 (89081208)	26.85837 (89090919)	31.06896 (89091923)
-470.0	17.45571 (89101509)	19.54994 (89070108)	21.27000 (89030109)	23.63935 (89041210)	26.68802 (89101217)
-570.0	16.85998 (89080419)	18.14606 (89111117)	19.52357 (89042218)	21.27602 (89103109)	26.55396 (89041818)
-670.0	15.62938 (89111117)	16.91826 (89061907)	18.01883 (89070308)	19.25562 (89061108)	38.63417 (89082002)
-770.0	14.63865 (89061907)	15.59874 (89110517)	16.46286 (89100409)	19.09559 (89091809)	36.33698 (89111801)
-870.0	13.28142 (89121905)	14.72664 (89103107)	15.34489 (89082708)	32.28180 (89122422)	34.18167 (89022503)
-970.0	12.72242 (89103107)	13.98686 (89090119)	16.20485 (89031105)	31.13311 (89010507)	30.53636 (89102020)
-1070.0	12.52019 (89051408)	12.94241 (89082708)	29.12020 (89031105)	29.50475 (89102122)	29.61317 (89021021)
-1170.0	11.94183 (89012505)	15.08393 (89031105)	27.66384 (89021207)	27.64515 (89102303)	27.62542 (89041105)
-1270.0	11.44960 (89050804)	26.03272 (89031105)	26.26972 (89111104)	26.43353 (89102320)	25.78614 (89122424)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	27.22408 (89110902)	27.10453 (89011307)	26.67894 (89100807)	26.29172 (89030320)	26.35219 (89010620)
1030.0	28.44449 (89070604)	28.23585 (89010624)	28.20754 (89020622)	28.96587 (89112124)	28.50470 (89051506)
930.0	30.10979 (89010703)	30.64902 (89010624)	30.35887 (89011502)	29.91052 (89022701)	30.33795 (89022703)
830.0	32.44022 (89043002)	32.04031 (89010704)	32.89413 (89011502)	32.15905 (89010619)	31.81807 (89022621)
730.0	40.53503 (89050106)	36.16240 (89071208)	35.29433 (89011502)	34.28622 (89110824)	36.75745 (89051006)
630.0	56.25073 (89050106)	41.43255 (89071208)	37.69184 (89010702)	37.77581 (89010620)	35.81301 (89013024)
530.0	63.86381 (89050106)	45.62585 (89071208)	43.27894 (89010702)	40.96861 (89100123)	39.37430 (89100205)
430.0	62.83210 (89043006)	49.28083 (89122619)	47.16980 (89010702)	55.43568 (89051006)	43.32818 (89022623)
330.0	58.40181 (89010804)	54.48503 (89033003)	47.49764 (89011521)	55.24651 (89051006)	29.10304 (89030117)
230.0	81.97096 (89060603)	125.30493 (89050106)	67.38235 (89052209)	61.78645 (89071707)	35.21970 (89032018)
130.0	103.01357 (89121202)	125.37517 (89043006)	102.73346 (89030318)	51.86644 (89020516)	41.60908 (89042917)
30.0	124.95178 (89040224)	334.79745 (89100804)	304.42584 (89051004)	65.35752 (89072015)	49.16612 (89122816)
-70.0	60.75570 (89021715)	61.19586 (89081818)	1026.18982 (89050624)	71.75917 (89122411)	46.13415 (89081518)
-170.0	55.34119 (89021512)	70.16333 (89040110)	230.85881 (89110619)	110.03152 (89090917)	72.75817 (89010223)
-270.0	44.27042 (89012103)	85.50066 (89100308)	88.20577 (89030714)	75.69637 (89070819)	62.11668 (89032323)
-370.0	37.20060 (89102107)	68.10715 (89041107)	60.17488 (89030701)	57.00954 (89042820)	51.08435 (89040722)
-470.0	51.95290 (89120103)	52.89359 (89121401)	44.21632 (89011819)	52.32295 (89021120)	47.60214 (89022421)
-570.0	46.07817 (89122203)	47.18722 (89111719)	34.07080 (89083119)	46.05552 (89011621)	44.21101 (89010919)
-670.0	43.77465 (89041107)	41.52148 (89121404)	26.60070 (89083119)	41.09457 (89103020)	39.11943 (89121321)
-770.0	37.30372 (89022508)	37.42056 (89121704)	21.04432 (89083119)	35.27840 (89102606)	36.50081 (89032520)
-870.0	33.90356 (89101303)	30.28699 (89121704)	17.01871 (89080308)	33.73343 (89010920)	33.90479 (89122819)
-970.0	31.59743 (89122423)	23.16121 (89121704)	15.13316 (89080308)	31.89952 (89042021)	31.53927 (89040922)
-1070.0	29.54485 (89031103)	17.36362 (89121704)	13.42463 (89041108)	29.48969 (89020321)	29.54804 (89012322)
-1170.0	27.90984 (89100305)	13.52618 (89103012)	12.54455 (89041108)	27.41860 (89020321)	28.00302 (89040620)
-1270.0	27.16797 (89031605)	12.54547 (89112707)	11.98846 (89011821)	27.05793 (89020420)	26.71212 (89042703)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	26.00603 (89100203)	26.73807 (89031224)	25.00162 (89022624)	11.34571 (89013021)	12.58277 (89071706)
1030.0	28.17199 (89040823)	26.47826 (89032124)	23.29255 (89071623)	11.16934 (89071706)	13.76927 (89071706)
930.0	28.65409 (89040822)	28.39592 (89022624)	12.63808 (89010309)	15.62016 (89071706)	10.49473 (89063007)
830.0	30.71840 (89031420)	27.70020 (89022623)	15.23820 (89071706)	13.72765 (89071706)	12.31178 (89042509)
730.0	33.46458 (89110823)	15.61828 (89010309)	18.26359 (89071706)	13.55984 (89042509)	12.98043 (89081915)
630.0	34.24582 (89022623)	21.03053 (89071706)	15.37393 (89031307)	15.25519 (89081915)	14.56671 (89122005)
530.0	20.39600 (89101617)	18.59908 (89031307)	17.77870 (89081915)	15.67103 (89122005)	14.07199 (89021218)
430.0	25.63284 (89071706)	20.60916 (89062720)	19.01649 (89012417)	17.13050 (89021218)	14.99535 (89051022)
330.0	25.82830 (89010117)	22.80829 (89012417)	20.32228 (89071419)	18.64154 (89100618)	16.48377 (89090218)
230.0	29.39597 (89110916)	25.61636 (89040418)	21.95987 (89090516)	19.67916 (89010302)	17.62091 (89112717)
130.0	33.76246 (89010316)	28.07125 (89040918)	23.18197 (89010917)	20.54629 (89072007)	17.40010 (89080719)
30.0	37.45988 (89082916)	29.19934 (89010217)	24.93569 (89041018)	20.03035 (89041018)	18.60160 (89081709)
-70.0	38.56646 (89081518)	30.21102 (89011609)	25.05982 (89071817)	21.03905 (89071817)	17.66263 (89071817)
-170.0	35.33689 (89103014)	28.56125 (89051718)	24.32369 (89062917)	20.95788 (89123017)	17.72647 (89010517)
-270.0	54.36799 (89052423)	38.39187 (89010223)	21.49673 (89122517)	19.68212 (89080819)	17.99482 (89110917)
-370.0	48.05399 (89032323)	38.01170 (89092122)	29.07062 (89020806)	29.17662 (89050624)	14.85251 (89110919)
-470.0	44.75598 (89020320)	37.87838 (89032323)	39.18085 (89032322)	35.62357 (89033120)	24.22968 (89050624)
-570.0	40.66908 (89010519)	39.72894 (89022521)	30.78478 (89032323)	28.26066 (89050702)	31.31185 (89092122)
-670.0	37.31492 (89101719)	33.33907 (89011419)	34.68949 (89112108)	25.65387 (89032323)	27.06304 (89033121)
-770.0	35.09340 (89042822)	34.33346 (89013120)	31.63225 (89033124)	30.88759 (89112108)	24.90450 (89040524)
-870.0	33.04846 (89042022)	31.64482 (89101719)	31.19069 (89010519)	29.43741 (89040723)	26.25735 (89032621)
-970.0	30.75491 (89011319)	30.06645 (89112019)	29.57017 (89121320)	28.16313 (89022522)	25.85072 (89040723)
-1070.0	29.52933 (89112020)	28.71211 (89042523)	27.60143 (89032423)	27.53353 (89032424)	26.20816 (89070422)
-1170.0	27.21312 (89032523)	27.65568 (89032502)	26.43625 (89112019)	25.35341 (89110224)	25.52640 (89020220)
-1270.0	27.01153 (89121322)	25.44178 (89032620)	25.25248 (89020506)	24.14502 (89032423)	24.87546 (89112021)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	11.33910 (89020722)	10.00145 (89071521)	11.30385 (89022622)	10.57988 (89032321)	9.43860 (89020720)
1030.0	9.37663 (89031303)	10.86310 (89022622)	10.94312 (89032321)	9.54807 (89122005)	10.79982 (89050521)
930.0	10.87361 (89042509)	11.14983 (89032321)	10.59677 (89122005)	10.96720 (89050521)	11.10331 (89011519)
830.0	11.12889 (89081915)	11.79266 (89122005)	10.51219 (89050521)	11.36510 (89031320)	8.34306 (89101618)
730.0	13.13156 (89122005)	9.51725 (89122005)	10.60779 (89031320)	9.98279 (89122919)	10.75080 (89061321)
630.0	11.15392 (89021218)	10.41711 (89071419)	10.39755 (89051022)	10.31438 (89051022)	9.80677 (89090218)
530.0	12.97875 (89071419)	12.95016 (89051022)	11.85780 (89090218)	10.09733 (89090218)	10.87409 (89010119)
430.0	14.20679 (89090218)	12.76738 (89090218)	10.70150 (89010302)	10.90382 (89112717)	11.53320 (89010306)
330.0	14.31676 (89010302)	14.14789 (89112717)	13.52499 (89010306)	11.26217 (89010124)	10.62598 (89052422)
230.0	15.62694 (89010124)	13.61717 (89072007)	11.20811 (89072007)	9.81075 (89080719)	11.21376 (89042622)
130.0	13.98400 (89080719)	12.94253 (89072919)	13.14148 (89072919)	12.44097 (89072919)	11.28605 (89072919)
30.0	16.97604 (89020810)	15.05066 (89020810)	13.11638 (89020810)	11.39568 (89020810)	10.08410 (89061421)
-70.0	14.93306 (89071817)	12.74295 (89071817)	11.11096 (89122719)	11.58458 (89122719)	11.83328 (89122719)
-170.0	15.22102 (89071619)	12.74497 (89071619)	10.78264 (89090715)	9.95155 (89090715)	9.06529 (89090715)
-270.0	15.74891 (89041518)	14.01882 (89072019)	12.41167 (89110717)	11.11186 (89123017)	9.64817 (89123017)
-370.0	16.08054 (89110919)	13.88425 (89112817)	13.23432 (89112618)	11.27165 (89112618)	9.77676 (89041518)
-470.0	24.35748 (89050624)	13.45351 (89071620)	12.45959 (89110919)	11.75457 (89112817)	11.10823 (89042724)
-570.0	25.62586 (89033120)	25.47218 (89050624)	20.64918 (89050624)	12.44133 (89071620)	9.42955 (89110919)
-670.0	28.16600 (89071621)	27.12037 (89033120)	16.01092 (89071121)	23.93714 (89050624)	17.75024 (89050624)
-770.0	26.46690 (89033121)	26.21188 (89050702)	23.53258 (89050701)	22.74575 (89033120)	15.34957 (89071121)
-870.0	24.54049 (89040524)	23.79772 (89033121)	24.17318 (89050702)	24.58945 (89071621)	21.61082 (89050701)
-970.0	24.85054 (89081404)	23.84380 (89040524)	24.36073 (89112022)	23.76079 (89071622)	21.80510 (89071621)
-1070.0	24.28932 (89080703)	24.10645 (89050421)	22.96428 (89040524)	23.99468 (89112022)	22.03920 (89071622)
-1170.0	23.69350 (89022523)	22.79899 (89022521)	23.45124 (89021420)	21.99779 (89040524)	22.95663 (89112022)
-1270.0	24.09811 (89022522)	20.66862 (89040723)	21.14299 (89032621)	22.79920 (89021420)	20.98372 (89040524)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	5.78042c(89010808)	6.78910c(89042508)	8.99281 (89100608)	8.48956c(89072024)	10.44684c(89020308)
1030.0	6.82948c(89122808)	6.30050c(89010808)	7.02209 (89070808)	8.88733 (89100608)	9.74454c(89072024)
930.0	7.66171c(89042008)	7.31773c(89122808)	6.90880c(89010808)	7.88398 (89070808)	7.70986 (89100608)
830.0	10.24107 (89072108)	9.28078c(89042008)	7.76888c(89122808)	7.62022c(89010808)	9.11937 (89100608)
730.0	13.57346 (89072108)	12.21869 (89072108)	10.49050c(89042008)	8.09945c(89122808)	8.47640 (89040308)
630.0	8.37435c(89112208)	12.68765 (89072108)	14.37990 (89072108)	10.40802c(89042008)	9.05891 (89100608)
530.0	8.46318c(89070508)	6.18721c(89021324)	9.85507c(89112208)	15.96498 (89072108)	12.67288 (89072108)
430.0	2.63893c(89062008)	5.67450 (89082224)	9.26323c(89070508)	7.49932c(89112208)	13.46704 (89072108)
330.0	3.05223c(89062008)	3.10792c(89062008)	2.93237c(89062008)	5.03181 (89082224)	10.02107c(89070508)
230.0	2.37996 (89021616)	2.79364 (89021616)	3.09036 (89021616)	3.20480 (89072208)	3.31073 (89072208)
130.0	2.46707 (89032808)	2.59685 (89032808)	2.31687c(89051208)	3.01431 (89021616)	4.20021 (89021616)
30.0	3.38485 (89051908)	3.58757 (89051908)	3.79073 (89051908)	3.97016 (89051908)	4.03416 (89051908)
-70.0	4.38369 (89051908)	4.80865 (89051908)	5.31614 (89051908)	5.91931 (89051908)	6.61812 (89051908)
-170.0	2.51263 (89121824)	2.72825 (89121824)	2.94265 (89121824)	3.16128 (89121824)	3.50897 (89021824)
-270.0	2.97537 (89022008)	3.46662 (89022008)	3.50817 (89022008)	2.88618 (89022008)	2.65795c(89081924)
-370.0	2.56343 (89112424)	2.19614 (89092908)	2.70712 (89111324)	3.58254 (89062308)	3.08363 (89112608)
-470.0	3.17567 (89062308)	3.18392 (89062308)	2.80879c(89121508)	3.10717c(89090608)	4.38942c(89090608)
-570.0	3.58443c(89121508)	3.19921c(89121508)	4.67741c(89090608)	4.29758c(89090608)	5.98922 (89011108)
-670.0	4.66578c(89090608)	4.87875c(89090608)	3.58212 (89011108)	5.68071 (89011108)	6.12442 (89011108)
-770.0	4.23593c(89090608)	3.74163 (89011108)	5.06027 (89011108)	4.65292 (89011108)	4.10411 (89121816)
-870.0	3.67933 (89011108)	4.59944 (89092808)	4.26996 (89021708)	4.24288 (89012508)	5.54717 (89041308)
-970.0	4.21363 (89092808)	3.99154 (89021708)	4.32732 (89012508)	5.44964 (89041308)	4.80957 (89041308)
-1070.0	3.67525 (89021708)	4.34786 (89012508)	5.31730 (89012508)	5.06146 (89041308)	4.24689 (89122024)
-1170.0	4.31923 (89012508)	5.17790 (89012508)	5.20425 (89041308)	3.89154 (89051308)	5.62862 (89022508)
-1270.0	5.01801 (89012508)	5.25727 (89041308)	4.30897c(89091308)	5.27453 (89022508)	3.87037 (89102208)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	8.44469c(89071208)	7.94612 (89071908)	7.14180 (89030408)	10.06227c(89072908)	9.30710 (89043008)
1030.0	10.23178c(89020308)	8.58492c(89071208)	9.10543 (89030408)	9.74303c(89072908)	8.12471 (89043008)
930.0	11.12817c(89020308)	9.42974c(89071208)	9.31128 (89071908)	7.31477 (89030408)	8.72775 (89050108)
830.0	8.35143c(89020208)	13.75575c(89020308)	9.90312c(89071208)	10.53848 (89030408)	10.36223c(89072908)
730.0	11.79373 (89100608)	10.93128c(89072024)	12.25247c(89020308)	10.94849 (89071908)	10.54526c(89072908)
630.0	9.64050 (89062708)	14.30408 (89100608)	14.48663c(89020308)	11.58485c(89071208)	11.15805 (89030408)
530.0	9.90298 (89100608)	11.50286 (89062708)	14.68915 (89100608)	19.27274c(89020308)	13.61316 (89030408)
430.0	15.87465 (89072108)	10.81049c(89042008)	14.14147 (89062708)	14.77236 (89030508)	13.52015 (89032908)
330.0	10.89319 (89061308)	18.20454 (89072108)	14.74071c(89042008)	18.08014 (89062708)	19.94395 (89100708)
230.0	3.66489c(89062008)	10.53995c(89070508)	15.53876 (89061308)	16.03249 (89052008)	24.44414 (89062708)
130.0	5.38685 (89021616)	5.79975 (89021616)	5.42397 (89021716)	12.89797c(89021324)	17.25372 (89072108)
30.0	3.99226 (89112524)	4.34010 (89112524)	5.46479 (89021616)	10.63594 (89021616)	13.62522 (89021616)
-70.0	7.41172 (89051908)	8.27839 (89051908)	9.10780 (89051908)	12.12378c(89011916)	18.32466c(89011916)
-170.0	4.61588 (89022008)	5.53678 (89022008)	4.99899 (89022008)	6.60404 (89082024)	9.95123 (89051816)
-270.0	3.13478 (89062308)	3.88577 (89021624)	4.81008 (89092724)	8.55696 (89011108)	19.62861 (89011108)
-370.0	3.77176 (89112608)	4.69588 (89092724)	11.63106 (89011108)	11.98645 (89011108)	19.53354 (89122024)
-470.0	5.62607 (89011108)	10.50135 (89011108)	8.26774 (89121816)	12.45982 (89122024)	11.92698 (89122024)
-570.0	8.18298 (89011108)	6.35654 (89121816)	8.36021 (89122024)	10.53411 (89122024)	8.09561 (89041124)
-670.0	5.02214 (89121816)	6.18663 (89121816)	8.67647 (89122024)	6.11226 (89100916)	15.13459 (89120108)
-770.0	5.53193 (89012508)	7.01126 (89122024)	5.67205 (89122024)	5.96761c(89032508)	19.36199 (89120108)
-870.0	5.71077 (89122024)	5.15602 (89122024)	3.94768 (89100916)	10.27240 (89120108)	10.45719 (89120108)
-970.0	4.69734 (89122024)	3.80081 (89100908)	4.96175c(89032508)	15.07537 (89120108)	10.75904 (89112408)
-1070.0	4.70763 (89022508)	4.10931 (89072608)	7.72434 (89120108)	13.44357 (89120108)	8.05935 (89112408)
-1170.0	3.91652 (89102208)	5.02171 (89072608)	11.04415 (89120108)	7.89701 (89120108)	10.03513c(89102308)
-1270.0	4.60592 (89072608)	6.78998 (89081308)	12.34397 (89120108)	8.06426 (89112408)	10.70309c(89102308)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	10.83551 (89040508)	8.71864 (89022724)	9.41983c(89011608)	8.56152c(89112124)	5.39966c(89051508)
1030.0	10.80365 (89040508)	9.46171 (89110908)	9.65123 (89110908)	9.64585c(89112124)	6.78966c(89051508)
930.0	11.26540c(89011508)	10.74968 (89110908)	10.28857 (89110908)	10.30251c(89031424)	8.83882 (89100124)
830.0	12.98685c(89011508)	12.17717 (89110908)	10.97285 (89110908)	11.22475c(89031424)	11.76868 (89033024)
730.0	14.29797 (89043008)	13.51170 (89110908)	11.70758 (89110908)	10.48859c(89031424)	14.04003 (89051008)
630.0	12.65324 (89043008)	14.17769 (89110908)	12.45753 (89110908)	10.69026 (89123124)	12.71699 (89051008)
530.0	14.41110 (89050108)	14.82984c(89122624)	13.13225 (89110908)	12.68662 (89100124)	12.26652c(89010724)
430.0	12.78220 (89043008)	16.90070 (89040508)	13.45346 (89110908)	19.79112 (89033024)	11.81628 (89110824)
330.0	18.72037 (89030408)	24.27377 (89060908)	16.82964 (89112308)	20.32553 (89031408)	6.89303 (89031308)
230.0	27.78218c(89020308)	31.06107 (89060908)	24.67660 (89123124)	19.37486 (89031408)	13.79647 (89033116)
130.0	36.14590 (89062708)	43.81166 (89100108)	55.95624 (89123124)	22.49693 (89020516)	13.39798 (89033116)
30.0	26.02934 (89053124)	94.50047 (89030508)	102.17168 (89033024)	18.16716 (89072816)	13.37437 (89052516)
-70.0	26.00702c(89011916)	17.74739 (89072416)	182.07541 (89050624)	24.58618 (89081616)	15.33046 (89081616)
-170.0	17.20171 (89012116)	29.75929 (89121416)	75.87141 (89120224)	32.54868c(89041924)	14.23524 (89120916)
-270.0	28.76268 (89122024)	40.06532 (89102624)	45.88624 (89030708)	21.72565 (89052524)	17.54321c(89081624)
-370.0	12.98126 (89041116)	27.97403 (89122108)	34.58342 (89030716)	17.59943 (89022224)	14.43903 (89010224)
-470.0	26.31792 (89120108)	20.14864 (89122108)	26.18200 (89030716)	18.67474c(89021124)	10.90786c(89101724)
-570.0	15.50620 (89112408)	16.05347 (89102708)	19.79805 (89030716)	13.74296 (89030708)	15.11439 (89050224)
-670.0	14.04867 (89112408)	12.21759 (89102708)	15.25746 (89030716)	13.92964 (89030708)	14.36963c(89042708)
-770.0	12.16953c(89021108)	9.91870 (89042208)	12.03674 (89030716)	12.73254 (89030708)	12.33068 (89120308)
-870.0	10.85419c(89102308)	7.74047 (89102924)	9.72204 (89030716)	11.04467 (89030708)	11.41696c(89021124)
-970.0	8.44783c(89100308)	6.55299 (89042108)	8.02764 (89030716)	9.34321 (89030708)	8.87647 (89012324)
-1070.0	8.79751 (89111724)	5.63922 (89042108)	6.97070 (89103008)	7.80625 (89030708)	9.09970 (89012324)
-1170.0	8.77809 (89111724)	4.90897 (89042108)	6.30982 (89103008)	6.48347 (89030708)	7.72742c(89042708)
-1270.0	8.23451 (89111724)	4.41385c(89041608)	5.73972 (89103008)	5.86546 (89030716)	8.64302c(89042708)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	8.94577 (89051008)	8.56474 (89071408)	7.61365 (89110824)	4.20799 (89031308)	4.27854c(89081608)
1030.0	10.61043 (89051008)	8.25066c(89010724)	5.10835 (89110824)	4.42860c(89071708)	3.53930 (89031308)
930.0	10.33808 (89071408)	9.32587 (89110824)	4.36074 (89031308)	4.08877 (89013024)	3.80529 (89031308)
830.0	9.70746 (89071408)	6.39601 (89110824)	4.71648c(89071708)	4.30424 (89031308)	3.12932 (89033116)
730.0	10.97319 (89110824)	4.74408c(89071708)	4.94452 (89031308)	3.30180 (89033116)	4.62418 (89033116)
630.0	8.39806 (89110824)	5.67025 (89031308)	4.07260 (89031308)	5.56501 (89033116)	4.27514 (89033116)
530.0	5.59008c(89071708)	5.60978 (89031308)	6.93852 (89033116)	5.16616 (89033116)	2.74715 (89050524)
430.0	7.42517 (89031308)	8.88385 (89033116)	6.42006 (89033116)	3.91027 (89062916)	3.71431 (89010316)
330.0	11.47468 (89033116)	8.23221 (89033116)	5.77817 (89062916)	4.61911 (89010316)	2.76385 (89071524)
230.0	10.71785 (89033116)	7.94002 (89010316)	4.66004 (89010316)	4.51560c(89010308)	4.70965c(89010308)
130.0	9.75468 (89010316)	5.12032c(89040924)	4.97725c(89010308)	4.08215c(89010308)	3.13602c(89010308)
30.0	9.85944 (89031316)	7.76023 (89031316)	6.67922c(89063024)	5.62175 (89081716)	4.87268 (89081716)
-70.0	9.14421 (89081616)	6.02975 (89081616)	4.32524 (89081616)	3.39058 (89051024)	2.80498 (89051024)
-170.0	9.94575 (89122416)	10.63827 (89122416)	7.22014 (89122416)	4.56699 (89122416)	2.96033 (89122416)
-270.0	11.34875 (89092124)	5.99531 (89120916)	4.27687 (89120916)	4.72029c(89110924)	4.47128 (89122416)
-370.0	11.30109c(89081624)	9.44803 (89092124)	4.85430 (89050624)	4.52336 (89050624)	3.02026c(89112824)
-470.0	11.16868c(89022524)	8.07462c(89112024)	7.79077c(89041924)	7.52427 (89092124)	5.00136 (89050624)
-570.0	13.23344 (89080324)	10.47211c(89022524)	7.14282c(89112024)	6.55500c(89041924)	7.44118 (89092124)
-670.0	10.40672 (89100224)	10.79660c(89022524)	9.31650c(89022524)	6.33927c(89112024)	5.76310 (89033124)
-770.0	11.06669 (89050224)	7.72823c(89101724)	8.77380c(89022524)	8.12174c(89022524)	5.67814c(89112024)
-870.0	10.10951c(89042708)	9.36434 (89100224)	9.47388 (89080324)	7.11150c(89022524)	7.04361c(89022524)
-970.0	10.89575c(89042708)	8.75695 (89100224)	8.38307c(89101724)	8.91338c(89022524)	6.26013c(89022524)
-1070.0	9.61983 (89120308)	9.80373 (89050224)	8.32120 (89100224)	7.04077 (89080324)	8.05268c(89022524)
-1170.0	10.35068 (89120308)	9.90440c(89042708)	7.71194 (89100224)	8.00385c(89101724)	7.19596 (89080324)
-1270.0	8.72294 (89032424)	8.36565c(89042708)	8.68794 (89050224)	7.38010 (89100224)	6.03132c(89101724)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	3.33891 (89031308)	2.67920 (89031308)	2.87938 (89050924)	2.72819 (89033116)	2.85557c(89020124)
1030.0	3.26334 (89031308)	2.93625 (89050924)	3.04415 (89033116)	2.77064c(89020124)	2.65728 (89050524)
930.0	2.91990 (89033116)	3.44160 (89033116)	2.84843 (89033116)	2.76238 (89050524)	1.98894 (89031324)
830.0	3.95237 (89033116)	3.20764 (89033116)	2.81035 (89050524)	2.19320 (89031324)	1.81698 (89062916)
730.0	3.66858 (89033116)	2.78752 (89050524)	2.19506 (89031324)	2.04541 (89062916)	2.01226 (89061324)
630.0	2.72206 (89050524)	2.52590 (89062916)	2.36593 (89051024)	2.12432 (89010316)	1.65728 (89010316)
530.0	3.09300 (89062916)	2.73607 (89010316)	2.14777 (89010316)	2.01575 (89071524)	2.37657c(89040924)
430.0	2.97593 (89010316)	2.33553 (89071524)	2.80105c(89040924)	3.00146c(89010308)	2.89235c(89010308)
330.0	3.43483c(89010308)	3.82324c(89010308)	3.41643c(89010308)	2.78096c(89010308)	2.57929 (89072008)
230.0	3.85148c(89010308)	2.98506c(89010308)	3.00924 (89072008)	2.82140 (89072008)	2.51191 (89072008)
130.0	2.85540 (89031316)	2.50563 (89031316)	2.52057 (89081716)	2.50701 (89081716)	2.44559 (89081716)
30.0	4.24691 (89081716)	3.71509 (89081716)	3.26566 (89081716)	2.89364 (89081716)	2.87108 (89042624)
-70.0	2.35000 (89051024)	2.18104c(89020124)	2.16772c(89020124)	2.29774c(89122724)	2.41744c(89122724)
-170.0	2.43041c(89010524)	2.16681 (89042724)	2.16101 (89042724)	2.00936 (89042724)	1.81352 (89042724)
-270.0	4.02335 (89122416)	3.30764 (89122416)	2.66187 (89122416)	2.13526 (89122416)	1.97009 (89080708)
-370.0	3.34418c(89110924)	3.27878c(89110924)	2.78495c(89110924)	2.73743 (89122416)	2.54044 (89122416)
-470.0	3.70612 (89050624)	2.77854c(89112824)	2.77030c(89112824)	2.51523c(89042808)	2.34817c(89110924)
-570.0	3.91668 (89033124)	4.57846 (89050624)	3.10512 (89050624)	2.49068c(89112824)	2.48845c(89112824)
-670.0	4.96013 (89071624)	5.40402 (89092124)	2.86909c(89071124)	4.02360 (89050624)	2.64862 (89050624)
-770.0	5.30267 (89033124)	4.83242 (89071624)	5.58018 (89092124)	3.48361 (89033124)	2.76610 (89050624)
-870.0	5.11284c(89112024)	5.49376c(89112024)	4.55184c(89041924)	4.52540 (89092124)	4.16346 (89092124)
-970.0	6.12281c(89022524)	4.62882c(89112024)	5.55712c(89112024)	4.00674c(89041924)	4.07254 (89071624)
-1070.0	5.77415c(89022524)	5.80357 (89072724)	4.21307c(89112024)	5.42885c(89112024)	3.40468c(89041924)
-1170.0	6.62291c(89022524)	5.38356c(89022524)	5.68818 (89072724)	3.85468c(89112024)	5.19192c(89112024)
-1270.0	7.32392c(89022524)	5.44223c(89022524)	5.00877c(89022524)	5.49486 (89072724)	3.54316c(89112024)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

** 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.	1026.18982	(89050624)	AT	(210.00, -70.00)	GC	26.	304.42584	(89051004)	AT	(210.00, 30.00)	GC
2.	848.97498	(89042619)	AT	(210.00, -70.00)	GC	27.	303.23059	(89042417)	AT	(210.00, -70.00)	GC
3.	779.63452	(89052505)	AT	(210.00, -70.00)	GC	28.	279.91547	(89070802)	AT	(110.00, 30.00)	GC
4.	769.17743	(89071620)	AT	(210.00, -70.00)	GC	29.	279.70297	(89080922)	AT	(110.00, 30.00)	GC
5.	633.33282	(89032401)	AT	(210.00, -70.00)	GC	30.	276.35068	(89082304)	AT	(110.00, 30.00)	GC
6.	612.39374	(89062619)	AT	(210.00, -70.00)	GC	31.	276.35068	(89082621)	AT	(110.00, 30.00)	GC
7.	591.11670	(89010223)	AT	(210.00, -70.00)	GC	32.	276.22717	(89080106)	AT	(110.00, 30.00)	GC
8.	579.92706	(89062519)	AT	(210.00, -70.00)	GC	33.	275.99716	(89012822)	AT	(110.00, 30.00)	GC
9.	521.67810	(89040719)	AT	(210.00, -70.00)	GC	34.	275.37897	(89122903)	AT	(110.00, 30.00)	GC
10.	459.24509	(89012017)	AT	(210.00, -70.00)	GC	35.	274.54065	(89100601)	AT	(110.00, 30.00)	GC
11.	447.13589	(89011618)	AT	(210.00, -70.00)	GC	36.	274.30362	(89030501)	AT	(110.00, 30.00)	GC
12.	440.55017	(89031918)	AT	(210.00, -70.00)	GC	37.	274.07285	(89040301)	AT	(110.00, 30.00)	GC
13.	440.52554	(89041618)	AT	(210.00, -70.00)	GC	38.	273.96738	(89032901)	AT	(110.00, 30.00)	GC
14.	433.62048	(89041517)	AT	(210.00, -70.00)	GC	39.	271.40594	(89100414)	AT	(210.00, -70.00)	GC
15.	433.22403	(89062413)	AT	(210.00, -70.00)	GC	40.	267.94736	(89103015)	AT	(210.00, -70.00)	GC
16.	432.17361	(89042610)	AT	(210.00, -70.00)	GC	41.	266.13730	(89090214)	AT	(210.00, -70.00)	GC
17.	431.78391	(89101316)	AT	(210.00, -70.00)	GC	42.	266.00204	(89091217)	AT	(210.00, -70.00)	GC
18.	430.41351	(89050622)	AT	(210.00, -70.00)	GC	43.	265.98715	(89082217)	AT	(210.00, -70.00)	GC
19.	430.28238	(89052403)	AT	(210.00, -70.00)	GC	44.	265.53723	(89032414)	AT	(210.00, -70.00)	GC
20.	415.01709	(89011316)	AT	(210.00, -70.00)	GC	45.	255.85620	(89082415)	AT	(210.00, -70.00)	GC
21.	395.48297	(89091715)	AT	(210.00, -70.00)	GC	46.	250.01051	(89040820)	AT	(210.00, 30.00)	GC
22.	383.51959	(89071716)	AT	(210.00, -70.00)	GC	47.	248.20145	(89033019)	AT	(210.00, 30.00)	GC
23.	334.79745	(89100804)	AT	(110.00, 30.00)	GC	48.	245.31305	(89031420)	AT	(210.00, 30.00)	GC
24.	331.87027	(89021407)	AT	(110.00, 30.00)	GC	49.	245.28282	(89052217)	AT	(210.00, -70.00)	GC
25.	328.98868	(89032617)	AT	(210.00, -70.00)	GC	50.	241.65721	(89081813)	AT	(210.00, -70.00)	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): 2602 , GEN02 ,

** 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.	182.07541	(89050624)	AT (	210.00, -70.00)	GC	26.	68.13535	(89040916)	AT (	210.00, 30.00)	GC
2.	123.83843	(89052508)	AT (	210.00, -70.00)	GC	27.	68.09407	(89031416)	AT (	210.00, 30.00)	GC
3.	106.12187	(89042624)	AT (	210.00, -70.00)	GC	28.	67.33976	(89041516)	AT (	210.00, 30.00)	GC
4.	102.17168	(89033024)	AT (	210.00, 30.00)	GC	29.	67.11060	(89012324)	AT (	210.00, -170.00)	GC
5.	97.08687	(89071624)	AT (	210.00, -70.00)	GC	30.	66.74279c	(89022824)	AT (	210.00, 30.00)	GC
6.	94.50047	(89030508)	AT (	110.00, 30.00)	GC	31.	66.41872	(89032416)	AT (	210.00, -70.00)	GC
7.	91.60663	(89093008)	AT (	110.00, 30.00)	GC	32.	65.91384c	(89091716)	AT (	210.00, -70.00)	GC
8.	90.71227c	(89062524)	AT (	210.00, -70.00)	GC	33.	65.47864c	(89011524)	AT (	210.00, 30.00)	GC
9.	89.59975	(89051008)	AT (	210.00, 30.00)	GC	34.	65.21143	(89040724)	AT (	210.00, -70.00)	GC
10.	88.25701c	(89031424)	AT (	210.00, 30.00)	GC	35.	65.04196	(89050616)	AT (	210.00, -70.00)	GC
11.	86.80378	(89032408)	AT (	210.00, -70.00)	GC	36.	64.73537	(89013016)	AT (	210.00, 30.00)	GC
12.	85.69726	(89070808)	AT (	110.00, 30.00)	GC	37.	64.31184	(89122916)	AT (	110.00, 30.00)	GC
13.	80.12301	(89032124)	AT (	210.00, 30.00)	GC	38.	63.94083	(89100608)	AT (	110.00, 30.00)	GC
14.	77.03464	(89062624)	AT (	210.00, -70.00)	GC	39.	62.17463	(89031124)	AT (	210.00, -170.00)	GC
15.	75.87141	(89120224)	AT (	210.00, -170.00)	GC	40.	61.73969	(89051916)	AT (	110.00, 30.00)	GC
16.	75.31017	(89032224)	AT (	210.00, 30.00)	GC	41.	60.76000	(89052724)	AT (	210.00, -170.00)	GC
17.	74.07040	(89100124)	AT (	210.00, 30.00)	GC	42.	60.58967	(89121208)	AT (	110.00, 30.00)	GC
18.	73.96523	(89010224)	AT (	210.00, -70.00)	GC	43.	60.25414c	(89040624)	AT (	210.00, -170.00)	GC
19.	73.12455	(89033108)	AT (	210.00, 30.00)	GC	44.	60.25283	(89060208)	AT (	110.00, 30.00)	GC
20.	72.27008c	(89041524)	AT (	210.00, -70.00)	GC	45.	60.17023c	(89092924)	AT (	110.00, 30.00)	GC
21.	71.68314	(89060508)	AT (	110.00, 30.00)	GC	46.	59.94779	(89060816)	AT (	210.00, 30.00)	GC
22.	70.93685	(89032908)	AT (	110.00, 30.00)	GC	47.	58.53143	(89040608)	AT (	210.00, -170.00)	GC
23.	69.89827	(89031924)	AT (	210.00, -70.00)	GC	48.	58.29463	(89040308)	AT (	110.00, 30.00)	GC
24.	69.89378	(89030708)	AT (	210.00, -170.00)	GC	49.	57.72017c	(89092308)	AT (	110.00, 30.00)	GC
25.	68.50399c	(89080924)	AT (	110.00, 30.00)	GC	50.	57.40564	(89012024)	AT (	210.00, -70.00)	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 1026.18982	ON 89050624:	AT (210.00, -70.00, 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 182.07541	ON 89050624:	AT (210.00, -70.00, 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 523 Informational Message(s)

A Total of 523 Calm Hours Identified

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

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

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1990

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** The results for this run are in file 26ST90A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1990 Met CO
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  26ERRA90.OUT
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Point Source       QS      HS      TS      VS      DS
** Parameters:       ----    ----    ----    ----    ---
SO SRCPARAM 2602    1.0457  17.68   748.7   18.90   1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29

SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters       QS      HS     TS      VS       DS
**                 -----   ----  -----   -----     ---
SO SRCPARAM GEN02  0.3049  7.62  830.93  47.89     0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36   10.36   10.36   10.36    6.02
SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   11.58
SO BUILDHGT GEN02      11.58   11.58   11.58   10.36   10.36   10.36
SO BUILDWID GEN02      20.13   21.36   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   32.66
SO BUILDWID GEN02      37.75   21.85   21.93   21.36   20.13   26.82
SO BUILDWID GEN02      20.13   21.35   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   19.70
SO BUILDWID GEN02      21.09   21.85   21.93   21.36   20.13   18.29
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SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -990 25 100 -1270  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  26RAM90.ASC
   ANEMHGHT  10
   SURFDATA  12842  1990  TAMPA
   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:          26st90a.IN
**Output Print File:             26st90a.OUT
**Detailed Error/Message File:   26ERRA90.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
2602	0	0.10457E+01	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.30490E+00	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

*** ISCST3 - VERSION 98356 *** *** FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1990 Met CO *** 12/22/99
*** *** 06:35:57

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

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,	20.1,	0	2	11.6,	21.4,	0	3	11.6,	21.9,	0	4	11.6,	21.9,	0	5	11.6,	21.1,	0	6	11.6,	19.7,	0
7	11.6,	17.7,	0	8	11.6,	15.2,	0	9	11.6,	12.2,	0	10	11.6,	15.2,	0	11	11.6,	17.7,	0	12	11.6,	19.7,	0
13	11.6,	21.1,	0	14	11.6,	21.9,	0	15	11.6,	21.9,	0	16	11.6,	21.4,	0	17	11.6,	20.1,	0	18	11.6,	18.3,	0
19	11.6,	20.1,	0	20	11.6,	21.4,	0	21	11.6,	21.9,	0	22	11.6,	21.9,	0	23	11.6,	21.1,	0	24	11.6,	19.7,	0
25	11.6,	17.7,	0	26	11.6,	15.2,	0	27	11.6,	12.2,	0	28	11.6,	15.2,	0	29	11.6,	17.7,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	11.6,	21.4,	0	35	11.6,	20.1,	0	36	11.6,	18.3,	0

SOURCE ID: GEN02

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	10.4,	20.1,	0	2	10.4,	21.4,	0	3	6.0,	27.8,	0	4	6.0,	26.4,	0	5	6.0,	24.3,	0	6	6.0,	21.3,	0
7	6.0,	17.8,	0	8	6.0,	13.7,	0	9	6.0,	9.1,	0	10	6.0,	13.7,	0	11	6.0,	17.8,	0	12	10.4,	32.7,	0
13	10.4,	37.8,	0	14	10.4,	21.9,	0	15	10.4,	21.9,	0	16	10.4,	21.4,	0	17	10.4,	20.1,	0	18	6.0,	26.8,	0
19	10.4,	20.1,	0	20	10.4,	21.4,	0	21	6.0,	27.8,	0	22	6.0,	26.4,	0	23	6.0,	24.3,	0	24	6.0,	21.3,	0
25	6.0,	17.8,	0	26	6.0,	13.7,	0	27	6.0,	9.1,	0	28	6.0,	13.7,	0	29	6.0,	17.8,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	10.4,	21.4,	0	35	10.4,	20.1,	0	36	10.4,	18.3,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-990.0, -890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0,

10.0, 110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0,
1010.0, 1110.0, 1210.0, 1310.0, 1410.0,

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

-1270.0, -1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0,
-270.0, -170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0,
730.0, 830.0, 930.0, 1030.0, 1130.0,

**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)
2602	210.0	-70.0	0.39

**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: 26RAM90.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	11.0	4.63	293.2	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	2	358.0	4.63	292.6	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	3	4.0	4.12	292.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	4	3.0	5.14	292.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	5	13.0	5.66	292.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	6	2.0	5.66	291.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	7	55.0	2.06	290.9	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	8	153.0	4.63	292.0	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	9	137.0	4.63	289.8	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	10	171.0	4.63	287.6	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	11	164.0	5.66	288.2	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	12	166.0	6.69	288.7	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	13	173.0	6.69	291.5	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	14	169.0	6.17	289.3	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	15	162.0	4.63	289.3	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	16	184.0	4.63	290.4	3	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	17	161.0	5.66	289.8	4	0.0	0.0	0.0000	0.0	0.0000	0	0.00
90	1	1	18	167.0	5.14	287.0	5	20.2	13.2	0.0000	0.0	0.0000	0	0.00
90	1	1	19	184.0	3.60	285.4	5	84.6	55.3	0.0000	0.0	0.0000	0	0.00
90	1	1	20	187.0	3.09	284.3	6	149.1	97.5	0.0000	0.0	0.0000	0	0.00
90	1	1	21	200.0	2.57	283.2	6	213.5	139.6	0.0000	0.0	0.0000	0	0.00
90	1	1	22	192.0	4.12	283.2	5	277.9	181.7	0.0000	0.0	0.0000	0	0.00
90	1	1	23	210.0	3.09	282.6	6	342.4	223.9	0.0000	0.0	0.0000	0	0.00
90	1	1	24	190.0	3.09	282.0	6	406.8	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	24.86988 (90082206)	27.16464 (90052105)	27.62814 (90070324)	28.36034 (90080605)	28.11857 (90121806)
1030.0	25.09025 (90071522)	26.59861 (90082206)	28.69219 (90052105)	29.38396 (90070324)	29.82640 (90080903)
930.0	28.02161 (90112720)	27.79289 (90020707)	28.42329 (90082206)	29.35792 (90052105)	31.42117 (90021306)
830.0	24.35973 (90122305)	29.06768 (90112720)	30.63032 (90020707)	30.37113 (90082206)	30.08503 (90060703)
730.0	29.39178 (90082203)	29.31062 (90020305)	32.07487 (90012405)	33.14550 (90020707)	33.31568 (90031521)
630.0	29.75123 (90052724)	30.58049 (90082202)	32.42209 (90112222)	33.84887 (90062402)	35.75807 (90012406)
530.0	30.08320 (90043003)	31.51767 (90101406)	33.48228 (90112619)	35.43982 (90101803)	35.66231 (90122305)
430.0	11.27371 (90070407)	23.06996 (90010402)	34.26280 (90021307)	36.95464 (90121723)	39.39653 (90011806)
330.0	16.67305 (90050406)	14.52999 (90050406)	14.13521 (90070407)	20.85452 (90092207)	40.49788 (90021307)
230.0	12.33340 (90050406)	16.68855 (90050406)	20.68245 (90050406)	21.96069 (90050406)	17.78657 (90050406)
130.0	11.94592 (90110710)	12.85990 (90110710)	13.06619 (90110710)	14.75214 (90093003)	17.63149 (90050406)
30.0	16.64619 (90092808)	17.00263 (90092808)	17.06592 (90092808)	16.59328 (90092808)	17.82601 (90052710)
-70.0	15.13840 (90092808)	16.24289 (90092808)	17.48252 (90092808)	18.80843 (90092808)	20.12482 (90092808)
-170.0	14.89489 (90082319)	15.10856 (90082319)	14.81941 (90082319)	16.19622 (90071720)	17.82960 (90071720)
-270.0	12.56340 (90121708)	13.56390 (90121708)	16.54661 (90050806)	19.41946 (90050806)	19.62618 (90050806)
-370.0	14.34850 (90050806)	13.55162 (90063007)	14.14054 (90051807)	18.24309 (90030807)	22.90860 (90030807)
-470.0	13.13960 (90030807)	16.97701 (90030807)	20.32956 (90111507)	24.44209 (90111507)	18.87648 (90111507)
-570.0	18.09218 (90111507)	20.03986 (90111507)	16.30745 (90111507)	14.12240 (90102409)	15.49536 (90062107)
-670.0	14.29362 (90111507)	11.32977 (90031905)	12.21546 (90062107)	13.43525 (90062107)	13.61679 (90112218)
-770.0	11.89858 (90102701)	12.02366 (90062107)	12.55739 (90112218)	12.41903 (90090121)	16.65750 (90030707)
-870.0	12.01163 (90120107)	11.45976 (90112218)	11.81420 (90090121)	15.08972 (90030707)	13.38727 (90013105)
-970.0	11.42819 (90111503)	11.65923 (90012305)	13.76301 (90030707)	12.02830 (90013105)	11.39612 (90072818)
-1070.0	12.00780 (90012305)	12.63715 (90030707)	11.31708 (90112023)	10.84886 (90012704)	11.85787 (90022702)
-1170.0	11.67497 (90030707)	11.36114 (90012623)	11.38152 (90012704)	11.35573 (90042222)	11.98954 (90010908)
-1270.0	11.42214 (90012623)	11.23546 (90012704)	11.11543 (90011507)	11.27890 (90120101)	11.81315 (90120902)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	28.07320 (90021407)	29.23740 (90081707)	25.92373 (90021903)	25.25157 (90062405)	27.08510 (90020407)
1030.0	31.16654 (90021323)	29.77451 (90021822)	26.77167 (90060324)	27.72257 (90062204)	28.45535 (90021904)
930.0	32.20838 (90021324)	33.66998 (90021407)	33.19774 (90081707)	28.68320 (90021902)	29.33764 (90061505)
830.0	33.85786 (90081201)	35.37318 (90121806)	34.57993 (90081604)	30.03425 (90060324)	31.79898 (90062405)
730.0	34.67650 (90092201)	37.40824 (90061905)	39.13776 (90012023)	39.34986 (90021224)	33.59772 (90012505)
630.0	37.16806 (90031521)	39.33288 (90092201)	40.99706 (90021324)	42.03253 (90081604)	36.00346 (90021405)
530.0	40.26038 (90020804)	41.74003 (90031521)	44.10210 (90052704)	46.35394 (90080824)	50.16471 (90021224)
430.0	41.89320 (90020305)	44.09668 (90121802)	47.86342 (90060403)	51.40786 (90012423)	55.49647 (90083104)
330.0	43.80860 (90121924)	47.54784 (90122106)	51.45079 (90071506)	57.04335 (90060403)	62.75929 (90062804)
230.0	18.86533 (90121609)	49.35940 (90121724)	55.77694 (90051504)	66.54804 (90071506)	70.98026 (90121804)
130.0	26.56446 (90050406)	30.67484 (90050406)	25.91208 (90031408)	67.81960 (90121724)	83.09052 (90040604)
30.0	19.72305 (90031818)	23.22129 (90101017)	27.41718 (90082009)	33.62603 (90052423)	44.17881 (90101012)
-70.0	21.18648 (90092808)	23.45268 (90082016)	27.65333 (90082016)	35.05265 (90101013)	45.64294 (90091914)
-170.0	19.80541 (90012718)	23.04845 (90100408)	28.89218 (90050806)	33.12974 (90101007)	44.76032 (90111507)
-270.0	19.45887 (90110806)	27.11472 (90030807)	42.13903 (90111507)	30.42553 (90092003)	36.76676 (90100919)
-370.0	31.29502 (90111507)	21.89127 (90111507)	23.74303 (90071718)	26.95329 (90072920)	30.76675 (90041905)
-470.0	17.48317 (90101917)	19.51118 (90100109)	22.17863 (90030707)	23.28263 (90011609)	25.26040 (90090618)
-570.0	15.96595 (90112210)	20.48306 (90030707)	18.82352 (90031907)	21.37092 (90081419)	22.87053 (90010309)
-670.0	18.48590 (90030707)	16.52590 (90031907)	17.04280 (90081308)	19.31886 (90090718)	39.62693 (90111204)
-770.0	14.80985 (90013105)	15.61481 (90072818)	15.40736 (90010908)	16.47075 (90093008)	36.52147 (90012703)
-870.0	13.51081 (90072818)	14.39410 (90010908)	13.81939 (90013118)	32.33015 (90031806)	33.45456 (90031805)
-970.0	12.55734 (90081308)	12.25066 (90010908)	13.63952 (90102821)	30.08265 (90092622)	30.71760 (90010201)
-1070.0	12.95107 (90010908)	11.23533 (90011323)	25.58665 (90031806)	29.17877 (90102823)	29.50101 (90112422)
-1170.0	10.78593 (90120520)	13.94040 (90102821)	27.48898 (90112102)	27.54376 (90112101)	27.08696 (90012224)
-1270.0	11.26565 (90092621)	24.76457 (90102821)	26.46797 (90120904)	25.32728 (90112024)	26.33154 (90012224)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	27.25625 (90062307)	26.07701 (90081003)	26.79291 (90021703)	27.01019 (90070223)	24.38404 (90082723)
1030.0	28.77369 (90012106)	26.66755 (90081003)	28.23226 (90020405)	28.76675 (90012920)	28.05474 (90021702)
930.0	30.16418 (90021907)	27.26859 (90121807)	30.02026 (90020405)	29.36176 (90121824)	29.88105 (90020321)
830.0	31.42169 (90012424)	31.93555 (90121807)	31.64358 (90020405)	31.82714 (90081701)	30.61698 (90082724)
730.0	34.79597 (90020406)	35.42907 (90121807)	32.82830 (90020405)	34.34750 (90021922)	32.47490 (90011122)
630.0	37.40859 (90082504)	39.09810 (90062307)	36.88991 (90081124)	37.65675 (90082723)	36.74349 (90011124)
530.0	37.39854 (90062405)	49.97558 (90062307)	41.10421 (90081124)	41.30615 (90020323)	39.59465 (90020320)
430.0	46.57649 (90012505)	61.59897 (90062307)	47.43541 (90021624)	38.81154 (90082724)	34.28252 (90012022)
330.0	58.96124 (90021224)	65.26774 (90062307)	54.89841 (90010924)	54.04242 (90011202)	29.24239 (90121917)
230.0	82.09943 (90060402)	64.34818 (90012108)	66.09956 (90012119)	58.35735 (90080909)	34.73582 (90040221)
130.0	101.84289 (90121804)	93.82879 (90051004)	101.31221 (90012912)	49.65697 (90031712)	82.67673 (90082308)
30.0	125.27773 (90082606)	274.00116 (90021220)	366.82520 (90011202)	54.03475 (90052816)	48.37297 (90071217)
-70.0	65.11488 (90100816)	101.15881 (90042008)	1289.77283 (90040320)	77.68072 (90111006)	53.07315 (90082217)
-170.0	56.43293 (90050709)	71.48968 (90100921)	230.33153 (90111824)	106.65513 (90051819)	74.50597 (90092618)
-270.0	44.94725 (90111617)	79.86134 (90122804)	89.09823 (90112117)	104.63315 (90122409)	58.32119 (90120919)
-370.0	35.83663 (90041809)	61.64214 (90010202)	61.18075 (90021124)	56.47838 (90102501)	54.78323 (90101421)
-470.0	51.17847 (90031802)	64.28905 (90111107)	44.21632 (90020722)	41.25536 (90102323)	45.97305 (90122409)
-570.0	43.44339 (90031805)	62.78149 (90111107)	32.04524 (90020722)	43.15088 (90111824)	37.86721 (90043022)
-670.0	39.89165 (90110622)	53.89355 (90111107)	22.61116 (90020722)	41.43102 (90111822)	39.41306 (90010823)
-770.0	36.26140 (90032321)	44.55431 (90111107)	19.00574 (90081618)	36.73741 (90110621)	28.62522 (90010920)
-870.0	34.10980 (90010202)	36.63447 (90111107)	17.09306 (90081618)	30.59082 (90072803)	33.96942 (90011007)
-970.0	31.11725 (90012301)	30.31979 (90111107)	15.34343 (90013024)	31.57158 (90111820)	27.85845 (90031321)
-1070.0	29.48071 (90121103)	25.36386 (90111107)	14.43913 (90013024)	28.25967 (90111820)	29.78705 (90121224)
-1170.0	28.64478 (90111107)	21.46872 (90111107)	13.40942 (90013024)	26.75496 (90102324)	27.01026 (90010906)
-1270.0	28.20505 (90111107)	18.38165 (90111107)	12.42682 (90013024)	26.96670 (90102324)	26.96749 (90010906)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	26.44864 (90011122)	25.36845 (90021920)	24.75051 (90012022)	11.34571 (90030302)	9.24703 (90011024)
1030.0	27.37552 (90080523)	26.70092 (90011001)	23.43122 (90042822)	11.24164 (90082417)	11.93581 (90062308)
930.0	28.81217 (90011124)	28.04820 (90012022)	12.48543 (90012124)	11.33227 (90062308)	12.12289 (90062308)
830.0	30.59970 (90021920)	26.95306 (90042822)	13.56485 (90082417)	14.57660 (90062308)	12.22668 (90112401)
730.0	31.56387 (90081702)	15.88235 (90012124)	16.11405 (90062308)	14.14481 (90112401)	13.66261 (90081709)
630.0	30.90741 (90042822)	16.53002 (90021107)	15.56314 (90112401)	15.34404 (90043008)	13.11549 (90070220)
530.0	19.51003 (90082417)	19.84230 (90062308)	17.39581 (90043008)	15.80440 (90070220)	29.66348 (90082308)
430.0	24.58272 (90062308)	20.80711 (90012201)	20.78820 (90082308)	34.76194 (90082308)	17.14351 (90082308)
330.0	24.87823 (90071320)	30.31694 (90082308)	36.86461 (90082308)	18.54859 (90041016)	16.61527 (90102309)
230.0	48.50618 (90082308)	28.84315 (90082308)	22.29601 (90062920)	19.15068 (90112414)	16.93676 (90121517)
130.0	33.59953 (90052221)	27.78372 (90080108)	22.75654 (90071414)	20.36994 (90082118)	16.59020 (90071415)
30.0	37.32359 (90052216)	29.25699 (90020817)	24.94931 (90123017)	20.37187 (90080515)	18.49274 (90082419)
-70.0	38.83240 (90051418)	30.25814 (90112417)	24.60846 (90112417)	21.34299 (90051118)	18.55944 (90051118)
-170.0	36.92122 (90052418)	28.70196 (90080119)	24.71650 (90102217)	20.75665 (90050218)	17.26257 (90052215)
-270.0	54.56280 (90051021)	48.42231 (90040320)	23.56225 (90101417)	20.20586 (90051419)	18.18163 (90080308)
-370.0	51.32256 (90120919)	42.78501 (90061421)	40.96573 (90061523)	37.33239 (90040320)	16.12067 (90062316)
-470.0	44.67698 (90032620)	43.68084 (90120919)	39.45536 (90040322)	35.29960 (90051021)	33.37904 (90040120)
-570.0	46.59524 (90122409)	38.89644 (90060524)	37.44575 (90120919)	33.57358 (90070605)	32.52514 (90102505)
-670.0	37.85365 (90032622)	36.89999 (90012222)	34.66121 (90041122)	32.98647 (90022420)	30.97647 (90082821)
-770.0	35.00159 (90043022)	34.48315 (90122409)	32.29110 (90121119)	30.86610 (90041122)	29.47885 (90022420)
-870.0	33.10271 (90112119)	31.99331 (90032622)	31.16479 (90012220)	29.08864 (90082923)	29.18723 (90121019)
-970.0	30.87127 (90020721)	29.82803 (90043022)	29.35687 (90012221)	27.54372 (90012222)	26.81643 (90080722)
-1070.0	25.84592 (90010920)	29.08323 (90022504)	27.62472 (90032707)	25.59221 (90122409)	25.41587 (90030520)
-1170.0	26.82089 (90101420)	27.46142 (90042905)	26.12442 (90101320)	25.37729 (90070604)	24.31040 (90012220)
-1270.0	26.46610 (90031321)	25.58460 (90010920)	24.92625 (90022504)	24.61300 (90060803)	22.96034 (90083002)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	11.31634 (90062308)	11.22590 (90052123)	9.75147 (90052101)	9.97368 (90033120)	10.98633 (90101120)
1030.0	11.02344 (90042820)	10.72140 (90052101)	10.35540 (90081709)	11.14522 (90101120)	11.91915 (90082308)
930.0	11.13152 (90052101)	11.38100 (90081709)	11.14207 (90101120)	14.07076 (90082308)	18.43746 (90082308)
830.0	12.50016 (90081709)	10.88908 (90101120)	16.79421 (90082308)	20.40158 (90082308)	16.19453 (90082308)
730.0	11.09595 (90070220)	20.24519 (90082308)	22.03735 (90082308)	14.80289 (90082308)	9.66713 (90122322)
630.0	24.55616 (90082308)	22.73286 (90082308)	12.14692 (90082308)	9.17193 (90030223)	9.77894 (90013018)
530.0	21.48899 (90082308)	11.79207 (90041016)	11.81648 (90013018)	10.61330 (90050602)	10.64577 (90011004)
430.0	14.14179 (90013018)	12.71557 (90013018)	11.04528 (90121717)	10.91608 (90073122)	11.69521 (90091602)
330.0	14.15691 (90121717)	11.79108 (90080108)	12.88511 (90121517)	11.31095 (90121517)	10.80575 (90041022)
230.0	15.73075 (90121517)	14.74987 (90041022)	13.20581 (90071415)	10.80935 (90071415)	9.14431 (90082404)
130.0	14.86157 (90112413)	14.07721 (90112413)	12.22437 (90112413)	11.85170 (90080515)	11.29322 (90080515)
30.0	17.05564 (90082419)	15.43906 (90060608)	14.33683 (90080608)	13.51912 (90080608)	12.60098 (90080608)
-70.0	16.59689 (90121617)	14.98177 (90101207)	14.13870 (90101207)	13.21192 (90101207)	12.32957 (90101207)
-170.0	15.17450 (90052215)	14.71784 (90010622)	13.71025 (90010622)	12.47695 (90010622)	11.20941 (90010622)
-270.0	15.84758 (90062819)	12.79424 (90062219)	11.21123 (90102217)	9.97951 (90050218)	9.87003 (90083007)
-370.0	15.86534 (90112817)	13.89930 (90112817)	14.02231 (90061707)	12.21761 (90061707)	10.96214 (90102220)
-470.0	31.17276 (90112419)	17.94282 (90051621)	11.35396 (90112817)	11.76441 (90112817)	10.87317 (90061707)
-570.0	30.28681 (90040121)	28.96050 (90072302)	27.77575 (90121020)	19.58571 (90052921)	9.02744 (90072323)
-670.0	29.17392 (90032006)	27.96214 (90032005)	27.09788 (90061103)	25.37447 (90072302)	24.84287 (90121020)
-770.0	28.66241 (90012320)	26.87407 (90032006)	26.81449 (90040501)	25.24137 (90040121)	23.85701 (90072324)
-870.0	27.16849 (90040521)	26.80466 (90012320)	25.28175 (90083003)	24.91413 (90032421)	23.23193 (90032005)
-970.0	27.13773 (90121019)	25.13884 (90040521)	24.63598 (90041723)	20.97983 (90072805)	23.17622 (90123021)
-1070.0	25.43569 (90080722)	24.60426 (90121019)	23.80764 (90121222)	23.48979 (90041723)	21.91574 (90072805)
-1170.0	24.47888 (90101224)	24.08969 (90101304)	23.21641 (90042922)	23.03265 (90121222)	22.45693 (90091601)
-1270.0	23.59066 (90102322)	22.68643 (90101224)	22.72207 (90061124)	21.94047 (90042922)	22.16097 (90121222)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	5.06408c(90082208)	3.80724c(90082208)	5.22424c(90070324)	4.66951 (90080608)	7.32454c(90021324)
1030.0	5.32542c(90071524)	5.46615c(90082208)	3.82916 (90020908)	5.57329c(90070324)	6.02093 (90021408)
930.0	6.64422c(90080308)	5.66240c(90071524)	5.91388c(90082208)	4.26930c(90060708)	5.32485c(90070324)
830.0	7.10689 (90062808)	7.05658c(90091108)	5.98030c(90012408)	6.42115c(90082208)	4.86767c(90060708)
730.0	11.78624c(90082208)	9.18631c(90112908)	8.86399c(90091108)	7.03352c(90012408)	6.99459c(90082208)
630.0	7.27316c(90092208)	12.21686c(90082208)	10.94762c(90112908)	10.09391c(90091108)	8.24861c(90012408)
530.0	9.21870 (90081508)	8.53280c(90121724)	9.86814c(90112624)	13.55825c(90082208)	10.50018 (90062808)
430.0	4.55735c(90031108)	7.25312 (90010408)	11.08633 (90081508)	9.34865c(90121724)	12.90098c(90082208)
330.0	4.81490c(90042708)	4.94916c(90042708)	4.26506 (90031408)	6.88195 (90010408)	13.75808 (90081508)
230.0	3.41682 (90050824)	3.63554 (90040924)	4.41363 (90050408)	5.15097 (90050408)	5.59670 (90050908)
130.0	4.90459 (90041008)	5.04918 (90041008)	5.29062 (90050824)	6.02897 (90050824)	6.24373 (90050824)
30.0	3.22321 (90031124)	3.58060 (90041008)	4.28677 (90041008)	5.15601 (90041008)	6.13044 (90041008)
-70.0	4.49723 (90051208)	4.67590 (90051208)	4.85793 (90051208)	4.99765 (90051208)	5.45274 (90031224)
-170.0	4.98965 (90031224)	5.13231 (90031224)	5.17306 (90031224)	5.03298 (90031224)	5.83808 (90122816)
-270.0	3.99513c(90110708)	4.73737 (90050808)	5.06179 (90050808)	5.62125 (90122816)	6.30257 (90122816)
-370.0	3.88598 (90102024)	4.33246 (90041924)	5.27944 (90041924)	6.12152 (90041924)	6.19506 (90041924)
-470.0	4.49660 (90041924)	4.72329 (90041924)	4.61868 (90030624)	5.45131 (90111508)	5.62332 (90110124)
-570.0	3.92834 (90030624)	4.94202 (90111508)	4.50004 (90111508)	5.24977 (90092008)	4.69300 (90101924)
-670.0	4.36896c(90072908)	4.78834 (90102724)	4.51138 (90102708)	3.69584c(90112224)	4.74986 (90103108)
-770.0	4.99784 (90102724)	4.38687 (90111124)	3.45374 (90100908)	4.64671 (90103108)	4.68381 (90030708)
-870.0	3.92150 (90111124)	3.94173 (90092708)	4.64659 (90051908)	4.16600 (90030708)	5.64622 (90010508)
-970.0	4.15044 (90092708)	5.04559 (90051908)	3.82656 (90111808)	4.82756 (90010508)	5.57975 (90010508)
-1070.0	5.14772 (90051908)	3.73152 (90111808)	4.17982 (90010508)	4.89146 (90010508)	4.60150 (90010508)
-1170.0	3.61599 (90111808)	3.65981 (90010508)	4.31628 (90010508)	4.18382 (90122508)	3.54863 (90010508)
-1270.0	3.23664 (90010508)	3.83413 (90010508)	4.07753 (90122508)	3.44677c(90032508)	3.53127 (90111108)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	7.82089 (90021508)	6.64138c(90070508)	11.28709c(90012108)	7.74287 (90012508)	11.27773 (90021908)
1030.0	6.95877c(90021324)	8.49017 (90021508)	8.08174c(90012108)	7.26706 (90012508)	8.23165 (90021908)
930.0	7.42428 (90021408)	9.10223 (90021508)	7.72005c(90070508)	11.23199c(90012108)	8.15268 (90012508)
830.0	5.39180c(90092208)	8.98085c(90021324)	10.64873 (90021508)	10.81289c(90012108)	9.97517 (90012508)
730.0	5.58708c(90070324)	6.65898 (90021408)	10.54695 (90021508)	9.69803 (90021224)	9.54630 (90012508)
630.0	7.64121c(90082208)	7.13707c(90070324)	10.11782 (90021408)	13.88353 (90021508)	13.18484c(90012108)
530.0	9.51844c(90012408)	8.36494c(90082208)	8.06340c(90070324)	11.00489 (90021508)	12.53294 (90021224)
430.0	13.33045c(90112908)	10.47633c(90012408)	10.21958 (90020908)	10.04670 (90042808)	18.87350 (90021508)
330.0	10.62570 (90122308)	15.72498 (90101808)	15.53907c(90091108)	12.98028 (90020908)	14.57343 (90021408)
230.0	6.26261 (90081408)	17.90214 (90081508)	18.24328c(90112624)	18.71378 (90062808)	17.25634 (90020908)
130.0	6.83939 (90040924)	8.09377 (90050908)	10.59804 (90050908)	25.42217 (90081508)	23.22743 (90101808)
30.0	7.05711 (90041008)	9.64219 (90050824)	14.28182 (90050824)	17.52651 (90050824)	19.94430 (90040924)
-70.0	6.23609 (90031224)	7.84826 (90022716)	10.36552 (90022716)	14.24755 (90022716)	20.24572 (90022716)
-170.0	7.36255 (90122816)	9.61515 (90122816)	12.38266 (90122816)	14.38428 (90041924)	21.11607 (90100916)
-270.0	7.85932 (90041924)	9.52070 (90041924)	11.04690 (90110124)	12.46121 (90110124)	17.32668 (90040808)
-370.0	7.03299 (90110124)	8.25085 (90110124)	7.21303 (90100516)	13.43924 (90040808)	12.69840 (90010508)
-470.0	5.84839 (90092008)	6.15850 (90100516)	9.70811 (90040808)	11.56815 (90010508)	8.81068 (90010508)
-570.0	5.19764 (90040808)	7.14711 (90040808)	9.76008 (90010508)	9.47078 (90010508)	5.33480 (90041216)
-670.0	5.45559 (90040808)	8.08325 (90010508)	8.54272 (90010508)	6.05775 (90111108)	11.20444 (90031808)
-770.0	6.70270 (90010508)	7.40951 (90010508)	5.61689 (90010508)	4.15160 (90111108)	8.75395 (90031808)
-870.0	6.40339 (90010508)	5.46932 (90010508)	5.49691 (90111108)	7.91526 (90031808)	6.44636 (90010208)
-970.0	5.05982 (90010508)	4.67394 (90111108)	3.43732 (90111108)	8.43707 (90031808)	7.59682 (90010208)
-1070.0	3.62199 (90010508)	4.58526 (90111108)	5.78077 (90031808)	5.88458 (90031808)	9.20078c(90112424)
-1170.0	4.42959 (90111108)	3.19576 (90022524)	7.38733 (90031808)	5.80243 (90102824)	6.90694c(90112424)
-1270.0	3.85841 (90020608)	4.38932 (90031808)	5.77773 (90031808)	5.70991 (90010208)	6.15355c(90111308)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	6.42725c(90062308)	4.85104c(90021824)	6.11567 (90021624)	6.59141 (90012924)	7.62615 (90022008)
1030.0	8.34494 (90021908)	5.67325 (90020924)	6.88563 (90021624)	7.40769 (90012924)	10.27875 (90022008)
930.0	12.44747 (90021908)	6.76733 (90020924)	7.82926 (90021624)	7.94641 (90012924)	11.86298 (90022008)
830.0	16.03426 (90021908)	7.91245 (90020924)	8.99603 (90021624)	8.85625 (90021924)	9.62821 (90022008)
730.0	15.95459 (90021908)	8.80797 (90020924)	10.47242 (90021624)	8.83294 (90021924)	6.73589 (90011208)
630.0	10.50910 (90021908)	8.82299 (90020924)	12.31807 (90021624)	8.80637 (90010608)	11.64373 (90011208)
530.0	12.94976 (90012508)	9.63657 (90021708)	14.56976 (90021624)	14.48719 (90020324)	8.14742 (90021924)
430.0	13.45567 (90012508)	13.31449c(90062308)	17.12162 (90021624)	14.08264 (90020324)	7.45967c(90042824)
330.0	15.09982 (90021224)	18.34422 (90021908)	19.20447 (90021624)	16.70214 (90011208)	7.58065 (90040224)
230.0	26.03470 (90021508)	17.56971 (90062724)	26.83713 (90010608)	12.21520 (90030224)	13.33912 (90040224)
130.0	25.89940 (90020908)	49.18126 (90022208)	40.85015 (90020416)	16.32863 (90101816)	21.88516 (90040624)
30.0	45.82779 (90081508)	75.36941 (90042808)	112.31021 (90011208)	16.91634 (90061916)	14.90295 (90030416)
-70.0	26.64748 (90022716)	43.55018 (90022616)	305.03436 (90092224)	36.61773 (90062416)	23.44604 (90052916)
-170.0	22.66279 (90100516)	34.39913 (90041216)	46.38345 (90111824)	43.07143 (90010816)	25.86625 (90030316)
-270.0	17.85657 (90122508)	34.70552 (90013116)	31.23908 (90111816)	20.30906c(90083008)	23.21518 (90010816)
-370.0	11.49438 (90041216)	18.94895 (90011316)	18.60043 (90111816)	15.68296 (90120816)	14.51859 (90122416)
-470.0	15.09321 (90031808)	13.70941 (90011316)	13.03372 (90012216)	8.62643 (90012608)	12.00314 (90031324)
-570.0	11.24014 (90013116)	16.10986 (90110724)	9.48819 (90012216)	9.06154 (90111824)	8.29791c(90120408)
-670.0	10.74945 (90010208)	16.27912 (90111908)	7.13863 (90012216)	8.48531 (90111824)	8.58414c(90010824)
-770.0	9.37344 (90010208)	13.59738 (90111908)	5.78660 (90011308)	7.49440 (90111824)	6.12776c(90010824)
-870.0	8.13128c(90111308)	10.61732 (90111908)	4.99866 (90041208)	7.27378 (90111824)	4.93316c(90101824)
-970.0	6.29781 (90010124)	8.21432 (90111908)	5.09847 (90041208)	6.98455 (90111824)	5.77628 (90111824)
-1070.0	7.44601 (90110724)	6.42627 (90111908)	5.03823 (90041208)	6.32826 (90111824)	5.57568 (90111824)
-1170.0	8.76129 (90110724)	5.13222 (90111908)	4.89363 (90041208)	5.52261 (90111824)	5.06269 (90111824)
-1270.0	9.55201 (90110724)	4.24997 (90112008)	4.72341 (90041208)	5.52434 (90020724)	4.69756 (90111824)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	5.57835 (90020324)	5.96544 (90011124)	5.23165c(90042824)	2.74648c(90082424)	1.80616 (90040224)
1030.0	6.22759 (90011208)	4.84826 (90021924)	4.44685c(90042824)	2.44308c(90082424)	2.62268 (90040224)
930.0	8.67937 (90011208)	5.68876c(90042824)	3.06851c(90082424)	2.64552 (90040224)	3.23952 (90040224)
830.0	7.14703 (90021924)	5.22212c(90042824)	2.63505c(90082424)	3.74111 (90040224)	3.24418c(90091608)
730.0	6.01410c(90042824)	3.50378 (90012124)	4.15243 (90040224)	3.87774 (90040224)	3.26737 (90040624)
630.0	6.20473c(90042824)	4.23418 (90040224)	5.13549 (90040224)	3.74557 (90040624)	5.92620 (90040624)
530.0	4.39547 (90030224)	6.73817 (90040224)	4.36659 (90040624)	7.49634 (90040624)	5.75982 (90082308)
430.0	8.11323 (90040224)	5.14528 (90040624)	9.84067 (90040624)	6.19456 (90040624)	2.84979 (90112416)
330.0	8.06866 (90040224)	13.44819 (90040624)	5.99237 (90040624)	4.28226 (90112416)	3.80521 (90112416)
230.0	18.52036 (90040624)	5.52394 (90070224)	5.66299 (90112416)	4.11777 (90052224)	4.01806 (90071416)
130.0	8.00216 (90112416)	6.64049 (90052224)	6.47268 (90071416)	4.99716 (90091716)	4.30421c(90082124)
30.0	10.55009 (90040116)	8.35307 (90061616)	6.56928 (90061616)	5.52716 (90042216)	5.15536 (90042216)
-70.0	15.73247 (90052916)	11.12701 (90052916)	8.98487c(90031916)	7.70938c(90031916)	6.59293c(90031916)
-170.0	11.15072 (90030316)	8.97178 (90060516)	6.91818 (90061124)	5.85850 (90060524)	5.66296 (90060524)
-270.0	17.34620 (90040424)	11.31746 (90080124)	8.01000 (90030316)	4.35223 (90031724)	3.69079 (90060516)
-370.0	14.91476c(90061108)	14.78225c(90070708)	13.05838 (90092224)	9.62321 (90080124)	5.48679 (90030316)
-470.0	10.19540c(90032624)	13.53615c(90061108)	11.72181 (90040324)	14.15911c(90070708)	11.51800 (90092224)
-570.0	12.22382 (90012224)	9.72338 (90061024)	12.19118c(90061108)	8.78192 (90040324)	17.70300c(90070708)
-670.0	9.62082 (90031324)	9.67173 (90012224)	8.54569 (90061024)	11.01345c(90061108)	6.27449 (90040324)
-770.0	8.34591 (90022508)	11.17062c(90083008)	5.79199 (90101224)	8.50933 (90091724)	10.16993c(90040524)
-870.0	7.08116c(90120408)	7.61979 (90031324)	8.95136 (90012224)	5.64804 (90101224)	8.54267 (90091724)
-970.0	6.36737c(90010824)	7.73469 (90022508)	8.37501c(90083008)	7.64252 (90012224)	5.13997 (90061024)
-1070.0	4.72090c(90010824)	5.88820 (90022508)	6.18436 (90031324)	7.74410c(90083008)	5.28873 (90012224)
-1170.0	4.19123c(90121124)	4.99984c(90120408)	6.97257 (90022508)	5.78312c(90083008)	6.87901 (90012224)
-1270.0	4.38189c(90101824)	4.88526c(90010824)	6.07716 (90022508)	5.13339 (90031324)	7.33138c(90083008)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	2.71672c(90121924)	3.71564c(90091608)	2.32728c(90091608)	2.12184 (90040624)	3.33635 (90122324)
1030.0	3.39255c(90091608)	2.66865c(90091608)	2.33286 (90040624)	3.39850 (90122324)	3.50242 (90122324)
930.0	3.00600c(90091608)	2.58649 (90040624)	3.57141 (90040624)	3.63509 (90040624)	4.33833 (90082308)
830.0	2.89359 (90040624)	4.14074 (90040624)	4.07878 (90040624)	4.38019 (90082308)	2.53250 (90082308)
730.0	4.89559 (90040624)	4.66289 (90082308)	4.17240 (90082308)	2.10475 (90082308)	2.63413c(90062008)
630.0	5.30889 (90082308)	3.71156 (90082308)	2.46274c(90062008)	3.11167c(90062008)	3.14272c(90062008)
530.0	3.07682 (90082308)	3.04833c(90062008)	3.22273c(90062008)	2.44924 (90082308)	1.96316c(90052208)
430.0	3.32920c(90062008)	2.69744 (90112416)	2.12679c(90052208)	3.80300 (90073124)	3.64471 (90073124)
330.0	2.77019 (90052224)	3.74398 (90073124)	2.85078 (90052124)	2.62023 (90071416)	2.36702 (90082224)
230.0	3.92254 (90071416)	3.33556 (90041024)	3.12524 (90041024)	3.16805 (90052908)	3.23537 (90052908)
130.0	3.73395c(90082124)	3.19952 (90112416)	3.11822 (90052908)	2.85822 (90052908)	2.81104 (90052124)
30.0	4.77536 (90042216)	4.38961 (90042216)	4.02047 (90042216)	3.68105 (90042216)	3.37092 (90042216)
-70.0	5.66033c(90031916)	4.89216c(90031916)	4.27787c(90031916)	3.79830c(90031916)	3.40049c(90031916)
-170.0	5.00906 (90060524)	4.17149 (90060524)	3.37830 (90060524)	3.02987 (90110524)	2.92233 (90110524)
-270.0	3.48348 (90060516)	3.08338c(90062224)	3.05518 (90060524)	3.66601 (90060524)	4.04249 (90060524)
-370.0	3.61531 (90030316)	2.41946 (90031724)	2.37416 (90060516)	2.42461 (90060516)	2.31415 (90060516)
-470.0	9.36290c(90121024)	4.28317 (90030316)	3.34119 (90030316)	2.32066 (90041724)	2.45674c(90072308)
-570.0	8.44092c(90040124)	10.71689c(90072408)	8.79953c(90121024)	5.08491c(90121024)	3.05738 (90030316)
-670.0	14.53724c(90070708)	13.87650c(90070708)	7.74859 (90031924)	9.91836c(90072408)	8.13808c(90121024)
-770.0	5.58489 (90070524)	10.42408c(90070708)	16.19970c(90070708)	8.01245c(90070708)	7.44029c(90072408)
-870.0	9.41965c(90040524)	5.14128 (90070524)	7.16738c(90070708)	14.58569c(90070708)	12.48840c(90070708)
-970.0	8.19428 (90091724)	8.71940c(90040524)	4.61937 (90070524)	5.60286 (90040324)	11.72170c(90070708)
-1070.0	5.81901 (90061024)	7.67822 (90091724)	8.07872c(90040524)	4.38843c(90061108)	4.51619 (90040324)
-1170.0	4.22939 (90101224)	5.81640 (90061024)	7.11188 (90091724)	7.49869c(90040524)	4.60228c(90040524)
-1270.0	6.11110 (90012224)	4.11169 (90101224)	5.42026 (90061024)	6.55390 (90091724)	6.97019c(90040524)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

** 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.	1289.77283	(90040320)	AT (	210.00,	-70.00)	GC	26.	655.23822	(90102415)	AT (	210.00,	-70.00)	GC
2.	1173.97437	(90112419)	AT (	210.00,	-70.00)	GC	27.	649.54083	(90030519)	AT (	210.00,	-70.00)	GC
3.	1169.01624	(90061105)	AT (	210.00,	-70.00)	GC	28.	648.49481	(90120401)	AT (	210.00,	-70.00)	GC
4.	1169.01624	(90061621)	AT (	210.00,	-70.00)	GC	29.	645.76971	(90091520)	AT (	210.00,	-70.00)	GC
5.	1168.13599	(90092223)	AT (	210.00,	-70.00)	GC	30.	640.70367	(90042921)	AT (	210.00,	-70.00)	GC
6.	1140.57129	(90051621)	AT (	210.00,	-70.00)	GC	31.	636.23315	(90040319)	AT (	210.00,	-70.00)	GC
7.	1138.85742	(90080121)	AT (	210.00,	-70.00)	GC	32.	633.53595	(90031721)	AT (	210.00,	-70.00)	GC
8.	1128.67761	(90031924)	AT (	210.00,	-70.00)	GC	33.	628.82910	(90062519)	AT (	210.00,	-70.00)	GC
9.	1085.66724	(90030322)	AT (	210.00,	-70.00)	GC	34.	622.16931	(90052921)	AT (	210.00,	-70.00)	GC
10.	1025.05066	(90101223)	AT (	210.00,	-70.00)	GC	35.	565.81390	(90013021)	AT (	210.00,	-70.00)	GC
11.	857.48151	(90061520)	AT (	210.00,	-70.00)	GC	36.	557.63647	(90083006)	AT (	210.00,	-70.00)	GC
12.	857.02911	(90080220)	AT (	210.00,	-70.00)	GC	37.	555.72375	(90080123)	AT (	210.00,	-70.00)	GC
13.	856.73804	(90062220)	AT (	210.00,	-70.00)	GC	38.	538.48993	(90040423)	AT (	210.00,	-70.00)	GC
14.	848.36401	(90082420)	AT (	210.00,	-70.00)	GC	39.	536.21332	(90092220)	AT (	210.00,	-70.00)	GC
15.	841.11310	(90070602)	AT (	210.00,	-70.00)	GC	40.	529.74573	(90070620)	AT (	210.00,	-70.00)	GC
16.	770.06946	(90102118)	AT (	210.00,	-70.00)	GC	41.	489.60843	(90040120)	AT (	210.00,	-70.00)	GC
17.	765.97565	(90051720)	AT (	210.00,	-70.00)	GC	42.	487.71686	(90092224)	AT (	210.00,	-70.00)	GC
18.	764.24451	(90072221)	AT (	210.00,	-70.00)	GC	43.	478.26746	(90082919)	AT (	210.00,	-70.00)	GC
19.	733.67322	(90070623)	AT (	210.00,	-70.00)	GC	44.	440.60464	(90041418)	AT (	210.00,	-70.00)	GC
20.	722.42993	(90092320)	AT (	210.00,	-70.00)	GC	45.	431.83347	(90073112)	AT (	210.00,	-70.00)	GC
21.	711.59119	(90101418)	AT (	210.00,	-70.00)	GC	46.	431.01590	(90040421)	AT (	210.00,	-70.00)	GC
22.	685.37695	(90080120)	AT (	210.00,	-70.00)	GC	47.	424.97079	(90042902)	AT (	210.00,	-70.00)	GC
23.	663.07715	(90032719)	AT (	210.00,	-70.00)	GC	48.	417.05032	(90072302)	AT (	210.00,	-70.00)	GC
24.	658.93079	(90092618)	AT (	210.00,	-70.00)	GC	49.	417.05032	(90072402)	AT (	210.00,	-70.00)	GC
25.	658.18945	(90121020)	AT (	210.00,	-70.00)	GC	50.	416.06564	(90060521)	AT (	210.00,	-70.00)	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): 2602 , GEN02 ,

** 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.	305.03436	(90092224)	AT (	210.00, -70.00)	GC	26.	113.67513	(90092324)	AT (	210.00, -70.00)	GC
2.	297.61755	(90080124)	AT (	210.00, -70.00)	GC	27.	112.31021	(90011208)	AT (	210.00, 30.00)	GC
3.	260.88290	(90040324)	AT (	210.00, -70.00)	GC	28.	106.41148	(90031724)	AT (	210.00, -70.00)	GC
4.	237.29390c	(90061624)	AT (	210.00, -70.00)	GC	29.	100.15012	(90052924)	AT (	210.00, -70.00)	GC
5.	223.56479	(90070624)	AT (	210.00, -70.00)	GC	30.	99.81712c	(90060816)	AT (	210.00, -70.00)	GC
6.	212.94179c	(90061108)	AT (	210.00, -70.00)	GC	31.	99.21896c	(90072308)	AT (	210.00, -70.00)	GC
7.	209.38232	(90031924)	AT (	210.00, -70.00)	GC	32.	98.92207c	(90040124)	AT (	210.00, -70.00)	GC
8.	199.71590c	(90082424)	AT (	210.00, -70.00)	GC	33.	96.88109	(90051724)	AT (	210.00, -70.00)	GC
9.	195.66240c	(90112424)	AT (	210.00, -70.00)	GC	34.	96.43911	(90032724)	AT (	210.00, -70.00)	GC
10.	179.27448	(90061524)	AT (	210.00, -70.00)	GC	35.	96.25868	(90102124)	AT (	210.00, -70.00)	GC
11.	177.69299	(90030324)	AT (	210.00, -70.00)	GC	36.	94.30231c	(90013024)	AT (	210.00, -70.00)	GC
12.	158.73892	(90040424)	AT (	210.00, -70.00)	GC	37.	94.13821	(90070616)	AT (	210.00, -70.00)	GC
13.	147.26666c	(90073116)	AT (	210.00, -70.00)	GC	38.	92.94278c	(90083008)	AT (	210.00, -70.00)	GC
14.	145.06776	(90070608)	AT (	210.00, -70.00)	GC	39.	92.64211c	(90120408)	AT (	210.00, -70.00)	GC
15.	143.25229c	(90062224)	AT (	210.00, -70.00)	GC	40.	89.97665c	(90062524)	AT (	210.00, -70.00)	GC
16.	142.57373	(90051624)	AT (	210.00, -70.00)	GC	41.	83.65518	(90021924)	AT (	210.00, 30.00)	GC
17.	141.39082c	(90072408)	AT (	210.00, -70.00)	GC	42.	83.61428	(90092624)	AT (	210.00, -70.00)	GC
18.	132.27975	(90091524)	AT (	210.00, -70.00)	GC	43.	82.01283	(90102416)	AT (	210.00, -70.00)	GC
19.	131.60612	(90101224)	AT (	210.00, -70.00)	GC	44.	80.29415c	(90082924)	AT (	210.00, -70.00)	GC
20.	128.35533c	(90072224)	AT (	210.00, -70.00)	GC	45.	80.08808	(90042924)	AT (	210.00, -70.00)	GC
21.	125.19492	(90080224)	AT (	210.00, -70.00)	GC	46.	79.12634	(90020324)	AT (	210.00, 30.00)	GC
22.	120.95055c	(90101424)	AT (	210.00, -70.00)	GC	47.	76.03391c	(90061716)	AT (	210.00, -70.00)	GC
23.	117.53861	(90030524)	AT (	210.00, -70.00)	GC	48.	75.36941	(90042808)	AT (	110.00, 30.00)	GC
24.	116.01604	(90040716)	AT (	210.00, -70.00)	GC	49.	74.56785	(90030316)	AT (	210.00, -70.00)	GC
25.	114.69445c	(90121024)	AT (	210.00, -70.00)	GC	50.	70.59824c	(90080716)	AT (	210.00, -70.00)	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 1289.77283	ON 90040320:	AT (210.00, -70.00, 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 305.03436	ON 90092224:	AT (210.00, -70.00, 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 526 Informational Message(s)

A Total of 509 Calm Hours Identified

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

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

****
*** ISCST3 Finishes Successfully ***
****

ISCST3 CO 1991

```
** The results for this run are in file 26ST91A.OUT.
**
CO STARTING
   TITLEONE  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1991 Met CO
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  8
   POLLUTID  CO
   RUNORNOT  RUN
   ERRORFIL  26ERRA91.OUT
CO FINISHED

SO STARTING
SO LOCATION 2602  POINT   210.37    -70.12

** Point Source       QS      HS      TS      VS      DS
** Parameters:       ----    ----    ----    ----    ---
SO SRCPARAM 2602    1.0457  17.68   748.7   18.90   1.83

SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDHGT 2602       11.58   11.58   11.58   11.58   11.58   11.58
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29
SO BUILDWID 2602       20.13   21.36   21.93   21.85   21.09   19.70
SO BUILDWID 2602       17.71   15.18   12.19   15.18   17.71   19.70
SO BUILDWID 2602       21.09   21.85   21.93   21.36   20.13   18.29

SO LOCATION GEN02  POINT     179.88    -54.88

** Parameters       QS      HS      TS      VS      DS
**                 -----   ----    -----   -----   ---
SO SRCPARAM GEN02  0.3049  7.62   830.93  47.89    0.2

SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   10.36
SO BUILDHGT GEN02      10.36   10.36   10.36   10.36   10.36    6.02
SO BUILDHGT GEN02      10.36   10.36    6.02    6.02    6.02    6.02
SO BUILDHGT GEN02       6.02    6.02    6.02    6.02    6.02   11.58
SO BUILDHGT GEN02      11.58   11.58   11.58   10.36   10.36   10.36
SO BUILDWID GEN02      20.13   21.36   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   32.66
SO BUILDWID GEN02      37.75   21.85   21.93   21.36   20.13   26.82
SO BUILDWID GEN02      20.13   21.35   27.80   26.42   24.25   21.33
SO BUILDWID GEN02      17.77   13.66    9.14   13.66   17.77   19.70
SO BUILDWID GEN02      21.09   21.85   21.93   21.36   20.13   18.29
```

```
SO SRCGROUP  ALL
SO FINISHED

RE STARTING
   GRIDCART  100METER STA
   GRIDCART  100METER XYINC  -990 25 100 -1270  25  100
   GRIDCART  100METER END
RE FINISHED

ME STARTING
   INPUTFIL  26RAM91.ASC
   ANEMHGHT  10
   SURFDATA  12842  1991  TAMPA
   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: 26st91a.IN
**Output Print File: 26st91a.OUT
**Detailed Error/Message File: 26ERRA91.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
2602	0	0.10457E+01	210.4	-70.1	0.0	17.68	748.70	18.90	1.83	YES	
GEN02	0	0.30490E+00	179.9	-54.9	0.0	7.62	830.93	47.89	0.20	YES	

**MODELOPTs: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	2602 , GEN02 ,

**MODELOPTs: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 2602

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,	20.1,	0	2	11.6,	21.4,	0	3	11.6,	21.9,	0	4	11.6,	21.9,	0	5	11.6,	21.1,	0	6	11.6,	19.7,	0
7	11.6,	17.7,	0	8	11.6,	15.2,	0	9	11.6,	12.2,	0	10	11.6,	15.2,	0	11	11.6,	17.7,	0	12	11.6,	19.7,	0
13	11.6,	21.1,	0	14	11.6,	21.9,	0	15	11.6,	21.9,	0	16	11.6,	21.4,	0	17	11.6,	20.1,	0	18	11.6,	18.3,	0
19	11.6,	20.1,	0	20	11.6,	21.4,	0	21	11.6,	21.9,	0	22	11.6,	21.9,	0	23	11.6,	21.1,	0	24	11.6,	19.7,	0
25	11.6,	17.7,	0	26	11.6,	15.2,	0	27	11.6,	12.2,	0	28	11.6,	15.2,	0	29	11.6,	17.7,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	11.6,	21.4,	0	35	11.6,	20.1,	0	36	11.6,	18.3,	0

SOURCE ID: GEN02

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	10.4,	20.1,	0	2	10.4,	21.4,	0	3	6.0,	27.8,	0	4	6.0,	26.4,	0	5	6.0,	24.3,	0	6	6.0,	21.3,	0
7	6.0,	17.8,	0	8	6.0,	13.7,	0	9	6.0,	9.1,	0	10	6.0,	13.7,	0	11	6.0,	17.8,	0	12	10.4,	32.7,	0
13	10.4,	37.8,	0	14	10.4,	21.9,	0	15	10.4,	21.9,	0	16	10.4,	21.4,	0	17	10.4,	20.1,	0	18	6.0,	26.8,	0
19	10.4,	20.1,	0	20	10.4,	21.4,	0	21	6.0,	27.8,	0	22	6.0,	26.4,	0	23	6.0,	24.3,	0	24	6.0,	21.3,	0
25	6.0,	17.8,	0	26	6.0,	13.7,	0	27	6.0,	9.1,	0	28	6.0,	13.7,	0	29	6.0,	17.8,	0	30	11.6,	19.7,	0
31	11.6,	21.1,	0	32	11.6,	21.9,	0	33	11.6,	21.9,	0	34	10.4,	21.4,	0	35	10.4,	20.1,	0	36	10.4,	18.3,	0

**MODELOPTs: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

-990.0, -890.0, -790.0, -690.0, -590.0, -490.0, -390.0, -290.0, -190.0, -90.0,
10.0, 110.0, 210.0, 310.0, 410.0, 510.0, 610.0, 710.0, 810.0, 910.0,
1010.0, 1110.0, 1210.0, 1310.0, 1410.0,

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

-1270.0, -1170.0, -1070.0, -970.0, -870.0, -770.0, -670.0, -570.0, -470.0, -370.0,
-270.0, -170.0, -70.0, 30.0, 130.0, 230.0, 330.0, 430.0, 530.0, 630.0,
730.0, 830.0, 930.0, 1030.0, 1130.0,

**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)
2602	210.0	-70.0	0.39

**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: 26RAM91.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 12842 UPPER AIR STATION NO.: 12842
NAME: TAMPA 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	231.0	1.54	293.7	6	1597.7	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	2	228.0	2.06	293.2	5	1612.6	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	3	234.0	1.54	292.6	6	1627.5	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	4	233.0	2.06	292.6	5	1642.3	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	5	233.0	2.06	292.6	5	1657.2	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	6	232.0	2.06	292.6	5	1672.1	383.0	0.0000	0.0	0.0000	0	0.00
91	1	1	7	235.0	2.06	292.0	4	1686.9	1686.9	0.0000	0.0	0.0000	0	0.00
91	1	1	8	263.0	2.06	292.6	4	1701.8	1701.8	0.0000	0.0	0.0000	0	0.00
91	1	1	9	237.0	2.06	293.2	3	1716.7	1716.7	0.0000	0.0	0.0000	0	0.00
91	1	1	10	301.0	3.09	297.6	3	1731.5	1731.5	0.0000	0.0	0.0000	0	0.00
91	1	1	11	294.0	4.12	299.8	3	1746.4	1746.4	0.0000	0.0	0.0000	0	0.00
91	1	1	12	296.0	3.60	300.9	2	1761.3	1761.3	0.0000	0.0	0.0000	0	0.00
91	1	1	13	353.0	3.09	300.9	2	1776.1	1776.1	0.0000	0.0	0.0000	0	0.00
91	1	1	14	349.0	3.09	302.0	3	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	15	302.0	3.60	302.6	3	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	16	354.0	3.60	302.0	3	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	17	81.0	3.60	300.4	4	1791.0	1791.0	0.0000	0.0	0.0000	0	0.00
91	1	1	18	137.0	3.60	298.7	5	1787.5	1724.9	0.0000	0.0	0.0000	0	0.00
91	1	1	19	164.0	3.60	296.5	5	1776.2	1513.8	0.0000	0.0	0.0000	0	0.00
91	1	1	20	167.0	4.12	295.4	5	1764.9	1302.6	0.0000	0.0	0.0000	0	0.00
91	1	1	21	190.0	2.57	293.7	6	1753.7	1091.5	0.0000	0.0	0.0000	0	0.00
91	1	1	22	222.0	3.09	294.3	6	1742.4	880.3	0.0000	0.0	0.0000	0	0.00
91	1	1	23	250.0	3.09	293.7	6	1731.1	669.2	0.0000	0.0	0.0000	0	0.00
91	1	1	24	240.0	2.57	293.2	6	1719.8	458.0	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): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	26.00949 (91060601)	23.05400 (91083022)	25.99966 (91030606)	23.95469 (91061905)	25.36999 (91030604)
1030.0	22.72551 (91072902)	27.54213 (91060601)	26.47363 (91083022)	28.36086 (91030606)	28.86009 (91061505)
930.0	28.20752 (91010703)	25.77604 (91072902)	29.09592 (91060601)	29.87380 (91083022)	27.43219 (91030606)
830.0	29.05740 (91101306)	29.28347 (91010703)	29.12546 (91072902)	30.67364 (91060601)	32.57346 (91083022)
730.0	29.44476 (91071505)	30.14629 (91062023)	31.21734 (91010707)	32.50423 (91072902)	32.72164 (91041703)
630.0	29.52853 (91072622)	29.95289 (91120902)	32.02499 (91072524)	33.91711 (91083105)	35.24369 (91072902)
530.0	29.99160 (91082606)	31.38371 (91072501)	33.50292 (91051704)	35.64923 (91112107)	35.51134 (91101306)
430.0	12.12976 (91051807)	23.11228 (91030601)	34.31388 (91030524)	37.04445 (91120722)	39.36568 (91021823)
330.0	20.76155 (91052606)	20.00539 (91052606)	15.40259 (91052606)	21.31055 (91030601)	40.57345 (91030524)
230.0	12.46089 (91011408)	16.55364 (91052606)	22.44678 (91052606)	26.25414 (91052606)	23.62310 (91052606)
130.0	11.96640 (91050923)	12.88444 (91050923)	14.39867 (91010808)	15.46072 (91010808)	17.20391 (91031711)
30.0	13.61569 (91052006)	14.76793 (91050806)	16.75767 (91050806)	18.94114 (91050806)	21.09505 (91050806)
-70.0	12.85549 (91052421)	13.77162 (91052421)	14.75795 (91112021)	16.36495 (91112021)	18.01324 (91112021)
-170.0	11.99381 (91080608)	12.91192 (91010108)	14.60269 (91010108)	16.26895 (91102217)	17.92666 (91102217)
-270.0	11.05152 (91101508)	11.98390 (91042321)	14.32954 (91042321)	16.20413 (91102107)	17.87557 (91102107)
-370.0	13.46945 (91102107)	15.90792 (91070606)	17.94391 (91070606)	16.21347 (91070606)	16.80089 (91081320)
-470.0	15.14784 (91070606)	12.98429 (91061207)	13.57817 (91081320)	14.85856 (91070808)	16.13320 (91033104)
-570.0	11.29866 (91120701)	12.12546 (91022506)	13.60209 (91111508)	14.76698 (91071311)	15.43321 (91072207)
-670.0	11.97990 (91011806)	13.15663 (91071311)	13.09939 (91100207)	13.70659 (91031519)	14.80569 (91072308)
-770.0	11.37077 (91071311)	11.99286 (91072207)	12.56900 (91031519)	13.31355 (91010818)	13.85286 (91012308)
-870.0	11.37469 (91121121)	12.00354 (91111404)	12.16260 (91010818)	12.56998 (91012308)	13.38284 (91080623)
-970.0	11.35779 (91101006)	10.97677 (91102601)	11.96671 (91121806)	12.15839 (91080623)	11.75158 (91120601)
-1070.0	11.26094 (91102601)	11.79817 (91121806)	11.99345 (91120605)	11.33954 (91120601)	11.89625 (91121824)
-1170.0	11.61629 (91121620)	11.99232 (91120605)	11.30211 (91092205)	11.37663 (91092802)	11.09169 (91090822)
-1270.0	11.81643 (91120605)	11.42884 (91121621)	11.03400 (91110802)	11.03490 (91122004)	10.79669 (91111420)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	32.58680 (91042906)	29.07412 (91121002)	24.90174 (91060602)	25.11188 (91061901)	24.52713 (91100401)
1030.0	28.56057 (91112121)	34.16270 (91042906)	26.17251 (91070405)	25.38716 (91061901)	26.28522 (91030804)
930.0	29.61110 (91061505)	37.08897 (91042906)	33.16378 (91072406)	28.62629 (91060602)	29.52308 (91121005)
830.0	26.58413 (91061905)	33.25128 (91030604)	41.51981 (91042906)	30.76938 (91112124)	30.65910 (91072504)
730.0	34.72752 (91072705)	35.58102 (91061905)	41.71666 (91042906)	40.05947 (91072406)	30.10875 (91042801)
630.0	34.83169 (91041703)	39.39977 (91072705)	39.99583 (91061505)	52.64431 (91042906)	35.64740 (91041003)
530.0	39.62877 (91070305)	38.39337 (91080205)	44.93271 (91030606)	46.74514 (91032304)	48.01089 (91072406)
430.0	41.81559 (91032823)	44.61100 (91030603)	45.39634 (91091720)	41.61986 (91061905)	70.77695 (91042906)
330.0	44.95481 (91012303)	47.65331 (91022003)	51.60052 (91032223)	55.51690 (91091720)	62.49591 (91022207)
230.0	20.64086 (91091509)	49.86326 (91021805)	57.64157 (91021705)	61.93485 (91082505)	70.61477 (91042224)
130.0	24.11388 (91052606)	29.50953 (91052606)	26.01107 (91052302)	68.76974 (91021805)	81.94756 (91052805)
30.0	22.63290 (91050806)	23.10893 (91041308)	27.43530 (91052519)	33.30074 (91052520)	44.07690 (91052509)
-70.0	20.22257 (91022812)	23.37145 (91052306)	27.94355 (91102123)	34.58046 (91082218)	45.97734 (91052120)
-170.0	20.03840 (91020509)	22.92656 (91032608)	27.12926 (91061001)	33.49136 (91092108)	42.75427 (91102911)
-270.0	18.80375 (91072419)	22.07097 (91062808)	25.54334 (91102814)	30.39269 (91090808)	36.93151 (91092314)
-370.0	18.39255 (91102808)	20.80194 (91103108)	23.80882 (91061319)	26.94508 (91051719)	31.20985 (91100919)
-470.0	17.78305 (91100419)	18.71567 (91031510)	21.35862 (91090609)	23.30840 (91010507)	26.39959 (91033107)
-570.0	16.72965 (91072108)	18.22035 (91102816)	19.48593 (91100110)	21.18355 (91091015)	24.61030 (91012109)
-670.0	15.67818 (91102816)	16.29199 (91100110)	17.62035 (91033023)	18.70289 (91012508)	38.42059 (91121120)
-770.0	14.60638 (91080623)	15.48208 (91111209)	15.60176 (91123010)	17.39910 (91051720)	34.73557 (91012221)
-870.0	13.42934 (91111209)	13.86047 (91031515)	14.79326 (91063020)	32.03683 (91121120)	33.80825 (91111305)
-970.0	12.48341 (91031515)	13.60919 (91063020)	14.97433 (91042207)	30.47252 (91092707)	30.38992 (91121724)
-1070.0	10.88958 (91111420)	11.94846 (91063020)	26.51035 (91031104)	29.44507 (91122501)	28.95904 (91070622)
-1170.0	11.90878 (91063020)	13.94040 (91122621)	25.23095 (91111601)	27.22124 (91102303)	26.41945 (91062723)
-1270.0	12.02329 (91121721)	24.76457 (91122621)	26.31284 (91122506)	26.85582 (91122005)	25.73902 (91062723)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	26.49047 (91030805)	27.08279 (91012901)	24.18416 (91112120)	27.66674 (91030503)	27.22675 (91032802)
1030.0	25.45085 (91030805)	28.30943 (91072604)	26.25765 (91013002)	29.25487 (91030504)	28.07114 (91013007)
930.0	28.74386 (91022206)	30.00756 (91072604)	28.92456 (91013002)	29.73915 (91030504)	30.05129 (91121008)
830.0	31.32043 (91030122)	30.28763 (91072604)	31.81093 (91013002)	25.51188 (91061823)	30.81153 (91012923)
730.0	34.61121 (91062123)	31.81046 (91041005)	34.75465 (91013002)	33.28506 (91031224)	33.71225 (91070501)
630.0	37.98611 (91030804)	38.51883 (91030701)	37.83801 (91012006)	37.62164 (91013022)	36.33531 (91012921)
530.0	40.20711 (91072422)	42.61959 (91032821)	43.47068 (91012006)	41.06799 (91030801)	34.23722 (91031220)
430.0	44.30328 (91042305)	49.13477 (91111102)	47.41191 (91012006)	47.74229 (91030723)	35.35303 (91071107)
330.0	50.80330 (91072406)	54.81416 (91022206)	46.91282 (91021818)	53.29395 (91012921)	28.62389 (91112214)
230.0	100.55408 (91042906)	64.47809 (91030804)	67.33450 (91100210)	61.42877 (91071309)	33.64679 (91042316)
130.0	101.16866 (91042224)	96.73415 (91012912)	98.80971 (91062418)	51.92055 (91033001)	42.12803 (91011210)
30.0	126.48572 (91020524)	332.68588 (91072701)	367.17316 (91012921)	65.37373 (91021411)	49.34241 (91011614)
-70.0	65.66202 (91041219)	103.60403 (91060616)	1290.48486 (91021020)	72.72011 (91021423)	52.60414 (91070210)
-170.0	56.21185 (91010903)	71.61320 (91112512)	197.19604 (91041020)	110.28743 (91041618)	70.95056 (91050419)
-270.0	44.12927 (91022710)	83.45699 (91010813)	88.29369 (91110606)	70.95064 (91060519)	63.00562 (91021120)
-370.0	39.43892 (91012109)	61.64214 (91031101)	60.30490 (91012617)	53.97896 (91072119)	50.12189 (91051521)
-470.0	51.95290 (91111302)	52.93793 (91031002)	44.67994 (91012617)	49.72897 (91101021)	44.21120 (91120619)
-570.0	46.07817 (91011321)	44.65107 (91111224)	32.65218 (91012617)	32.97855 (91062218)	44.13344 (91041024)
-670.0	39.69507 (91010220)	41.27320 (91111124)	24.39402 (91012617)	37.75160 (91021201)	26.85680 (91011702)
-770.0	36.79924 (91122424)	37.47293 (91111124)	18.73966 (91012617)	35.60363 (91021201)	35.99022 (91101021)
-870.0	34.29227 (91101623)	30.25634 (91122007)	16.89841 (91071216)	34.60149 (91033121)	32.66225 (91041020)
-970.0	31.08995 (91122503)	23.14026 (91122007)	16.54185 (91071216)	28.86081 (91033121)	27.51698 (91082121)
-1070.0	29.31936 (91031004)	17.34945 (91122007)	15.83474 (91071216)	29.73131 (91101622)	28.91629 (91080821)
-1170.0	27.28846 (91092904)	12.98063 (91122007)	14.84561 (91071216)	28.20820 (91101622)	25.12313 (91021201)
-1270.0	26.73300 (91062722)	11.46058 (91081709)	13.88620 (91071216)	25.47493 (91022105)	24.34782 (91021201)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	25.80687 (91032121)	26.36758 (91062305)	26.16617 (91021820)	9.78885 (91070423)	10.02248 (91052422)
1030.0	24.44934 (91070501)	26.52866 (91031220)	21.46949 (91081504)	10.36363 (91030724)	9.41167 (91082816)
930.0	27.08550 (91012921)	28.54452 (91021820)	11.43152 (91081908)	12.00860 (91082816)	10.81010 (91012920)
830.0	29.89566 (91031220)	22.34807 (91081504)	13.39987 (91082816)	11.83743 (91091018)	11.51796 (91071619)
730.0	26.95225 (91021820)	13.67509 (91011201)	13.29522 (91082816)	14.05189 (91071619)	11.67402 (91040520)
630.0	23.61506 (91071107)	17.48853 (91082816)	16.54570 (91071619)	13.55037 (91040520)	14.26803 (91071315)
530.0	19.69941 (91070410)	18.96191 (91091018)	16.67150 (91071108)	16.53870 (91071315)	15.33638 (91070207)
430.0	21.94020 (91100213)	20.86542 (91071108)	18.70643 (91071315)	16.64244 (91070207)	16.10059 (91080105)
330.0	25.84929 (91112215)	22.47648 (91120217)	20.78103 (91030824)	18.73017 (91091617)	16.54380 (91080518)
230.0	29.30875 (91012820)	25.67203 (91050518)	21.36663 (91050519)	23.24130 (91071210)	22.14012 (91071210)
130.0	32.91903 (91070205)	34.92138 (91071210)	27.37417 (91071210)	20.70329 (91070108)	22.71834 (91082018)
30.0	42.00397 (91082018)	34.25190 (91082018)	25.53821 (91082017)	22.63347 (91082017)	18.77553 (91082017)
-70.0	38.77739 (91091115)	30.37187 (91042418)	25.09935 (91121317)	21.50551 (91041118)	18.92379 (91041118)
-170.0	36.98167 (91070819)	29.42785 (91032318)	24.69217 (91051318)	29.81483 (91082016)	30.19611 (91082016)
-270.0	55.47218 (91112321)	48.57727 (91021020)	23.56225 (91061719)	20.53434 (91103117)	18.12207 (91061520)
-370.0	48.57877 (91021120)	46.90218 (91031021)	41.16953 (91032620)	37.53980 (91031120)	17.89998 (91071220)
-470.0	45.82628 (91012201)	41.55442 (91101620)	39.25191 (91111219)	36.00380 (91020723)	33.97255 (91030505)
-570.0	40.98279 (91050421)	36.82116 (91020924)	36.90992 (91101620)	34.82023 (91012101)	31.93853 (91020803)
-670.0	38.13071 (91120619)	37.08654 (91020923)	34.41067 (91041821)	32.84590 (91101620)	31.37822 (91042201)
-770.0	34.99367 (91011419)	34.54839 (91012021)	31.81232 (91030520)	30.67970 (91012103)	29.37067 (91101620)
-870.0	32.29425 (91011702)	30.84817 (91120619)	29.40549 (91050421)	29.56338 (91011624)	26.52037 (91012103)
-970.0	27.76654 (91010620)	30.45774 (91031122)	26.22237 (91012021)	28.31943 (91021001)	26.62653 (91012106)
-1070.0	28.68052 (91081622)	28.00675 (91091920)	26.82756 (91041022)	25.56527 (91101621)	26.29276 (91060124)
-1170.0	24.46654 (91041020)	24.77913 (91011702)	26.71190 (91031122)	18.87463 (91062221)	24.65771 (91022423)
-1270.0	26.23034 (91082121)	25.33861 (91010620)	25.37673 (91112407)	24.61300 (91041022)	24.49850 (91062221)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	10.17042 (91051721)	11.27328 (91112119)	11.17856 (91031405)	10.98267 (91122404)	11.04091 (91042221)
1030.0	11.07680 (91012920)	10.72622 (91031405)	10.96605 (91122404)	11.20724 (91042221)	10.75271 (91070402)
930.0	11.13152 (91081905)	10.71831 (91122404)	11.21241 (91042221)	10.91313 (91070402)	11.01758 (91070424)
830.0	10.15793 (91040520)	10.96822 (91042221)	10.52865 (91070121)	11.23418 (91070224)	11.18191 (91042220)
730.0	12.33620 (91071315)	11.10274 (91070207)	12.01339 (91080909)	11.14874 (91070322)	10.95970 (91060302)
630.0	13.18919 (91070207)	13.17635 (91080909)	11.19332 (91080105)	11.09562 (91070222)	11.30550 (91010719)
530.0	13.76223 (91022419)	12.65152 (91080105)	11.88353 (91080518)	10.22004 (91032321)	11.28885 (91071210)
430.0	14.81289 (91091617)	12.79965 (91080518)	13.65433 (91071210)	14.46323 (91071210)	13.79337 (91071210)
330.0	17.23744 (91071210)	17.68036 (91071210)	15.83467 (91071210)	13.07732 (91071210)	10.57192 (91081103)
230.0	17.64981 (91071210)	14.28322 (91062208)	14.14822 (91082015)	15.27949 (91082015)	14.84730 (91082015)
130.0	21.15331 (91082018)	17.43798 (91082018)	13.53838 (91082015)	12.55823 (91082017)	12.19042 (91082017)
30.0	16.33973 (91060108)	14.38790 (91080219)	12.68450 (91080219)	11.34077 (91082715)	11.05172 (91092420)
-70.0	17.20724 (91080519)	15.52089 (91080519)	13.97137 (91080519)	12.63574 (91080519)	11.47515 (91080519)
-170.0	27.72300 (91082016)	24.33568 (91082016)	20.95196 (91082016)	17.92066 (91082016)	15.32897 (91082016)
-270.0	15.47011 (91112017)	15.06840 (91112017)	13.99779 (91082016)	16.04147 (91082016)	17.01186 (91082016)
-370.0	16.13606 (91061808)	13.47512 (91103117)	13.54506 (91062608)	12.98713 (91062608)	11.11683 (91062608)
-470.0	31.55215 (91031120)	18.30564 (91111119)	15.13975 (91071220)	11.45999 (91061808)	9.83925 (91061520)
-570.0	30.22151 (91010720)	29.33969 (91092621)	27.19539 (91111119)	19.97075 (91111119)	14.96684 (91071220)
-670.0	29.35917 (91030424)	27.31592 (91020723)	27.02754 (91070821)	25.64235 (91092621)	24.32457 (91111119)
-770.0	28.94916 (91021024)	27.02240 (91030424)	26.78962 (91020803)	25.20303 (91010720)	24.81176 (91030501)
-870.0	26.82689 (91060123)	27.03886 (91021024)	25.28175 (91081801)	24.80149 (91101120)	21.63134 (91022120)
-970.0	24.48219 (91080321)	25.16061 (91062602)	24.47309 (91091121)	24.30803 (91101122)	23.22461 (91101220)
-1070.0	24.62901 (91012106)	24.07178 (91080321)	23.64190 (91062602)	23.50878 (91062601)	22.51592 (91121320)
-1170.0	23.38546 (91060124)	24.40039 (91020805)	23.09635 (91080321)	22.43426 (91021103)	22.54001 (91062601)
-1270.0	22.87208 (91021001)	22.64091 (91092622)	22.76619 (91062622)	21.83797 (91080321)	21.35517 (91021103)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -990.00	-890.00	-790.00	-690.00	-590.00
1130.0	4.57025c(91022508)	6.15238c(91041708)	5.92542 (91072708)	3.58508c(91072724)	7.12701 (91042308)
1030.0	5.82140c(91081308)	4.90353c(91022508)	6.64476c(91041708)	5.51736 (91072708)	4.81576c(91061508)
930.0	8.69563c(91080308)	6.31199c(91081308)	5.32056c(91041708)	7.15918c(91041708)	5.05058 (91030608)
830.0	8.88172c(91062024)	9.24113c(91080308)	6.82221c(91081308)	5.83385c(91041708)	7.64800 (91072708)
730.0	9.78361c(91071508)	10.94156c(91062024)	8.95062c(91080308)	7.49906c(91082608)	6.43795c(91041708)
630.0	8.88396 (91071608)	10.47711 (91071524)	11.00011c(91062024)	7.91741c(91081408)	9.28037c(91072808)
530.0	9.13561 (91080124)	10.13012 (91020524)	10.02657 (91020524)	11.93561c(91071508)	12.02638c(91081408)
430.0	4.91010 (91021808)	6.16405 (91071608)	10.69115 (91080124)	12.30251 (91020524)	13.52512 (91071524)
330.0	4.59714 (91052608)	4.43412 (91052608)	4.31859 (91112008)	5.83258 (91021808)	12.84867 (91071608)
230.0	5.13675 (91113008)	5.10831 (91113008)	5.00551 (91052608)	6.09371 (91112008)	6.73078 (91112008)
130.0	4.70829 (91031708)	5.27493 (91031708)	6.22863 (91113008)	7.35060 (91113008)	8.11469 (91113008)
30.0	3.94473 (91052116)	4.34623 (91052116)	4.81391 (91052116)	5.67706 (91031708)	7.40876 (91031708)
-70.0	6.35176c(91031208)	6.34496c(91031208)	6.80283c(91052424)	7.62896c(91052424)	8.56220c(91052424)
-170.0	5.65650 (91011008)	6.09843 (91011008)	6.39622 (91011008)	6.81714 (91020324)	8.24482 (91020324)
-270.0	4.38309 (91020324)	4.68983 (91020324)	4.87938 (91020324)	5.88202 (91040408)	7.44505 (91040408)
-370.0	4.53948 (91102324)	5.12586 (91040408)	5.54282 (91040408)	5.06443 (91111724)	5.54178 (91112908)
-470.0	4.63679 (91111624)	4.64706 (91112908)	4.96428 (91112908)	4.96117 (91102208)	5.60927 (91020116)
-570.0	4.32675c(91061208)	4.37758 (91102308)	4.92973 (91011808)	6.55775 (91122608)	6.13897 (91031516)
-670.0	4.79147 (91011808)	5.98805 (91122608)	6.01668 (91122608)	5.27871 (91031516)	5.43198 (91010108)
-770.0	6.18682 (91122608)	4.69161 (91092108)	5.98104 (91010108)	5.16294 (91010108)	6.73522 (91121708)
-870.0	4.61512 (91010108)	6.32667 (91010108)	4.70619 (91010108)	6.67824 (91121708)	4.72740 (91112708)
-970.0	6.25390 (91010108)	4.53042 (91121708)	6.47830 (91121708)	4.12480 (91112708)	5.93210 (91110524)
-1070.0	4.86620 (91121708)	6.20815 (91121708)	3.65008 (91112708)	4.95947 (91110524)	6.28857 (91110524)
-1170.0	5.90783 (91121708)	3.51592 (91090408)	4.19090 (91110524)	5.84462 (91110524)	4.01008 (91110524)
-1270.0	3.36826 (91090408)	3.59044 (91110524)	5.24987 (91110524)	4.56770 (91110524)	3.14197 (91021608)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) -490.00	-390.00	-290.00	-190.00	-90.00
1130.0	5.46184 (91032808)	6.45436c(91121008)	7.61595 (91072708)	5.42097 (91061908)	5.41077 (91061908)
1030.0	7.53035 (91042308)	6.04147 (91032808)	7.07692 (91072708)	5.64508 (91072708)	6.48888 (91012008)
930.0	7.25407 (91042308)	6.80419 (91042308)	7.46316c(91121008)	8.54719 (91072708)	7.03634 (91012008)
830.0	4.62063c(91072724)	9.68531 (91042308)	7.66458 (91032808)	8.83139 (91072708)	6.93760 (91061908)
730.0	9.26759 (91072708)	5.72308c(91072724)	9.74930 (91042308)	8.59919c(91121008)	7.45168 (91072708)
630.0	7.16179c(91041708)	10.46120 (91072708)	9.70487 (91042308)	10.08433 (91032808)	10.72771 (91072708)
530.0	11.87103c(91072808)	8.05387c(91041708)	9.86421 (91072708)	14.40063 (91042308)	9.96439c(91072408)
430.0	15.25806c(91081408)	14.91751c(91072808)	9.21523c(91041708)	8.75188c(91072724)	13.56123 (91032808)
330.0	15.30183 (91020524)	15.43232 (91071524)	16.92833c(91072808)	12.31638 (91050508)	13.22524 (91042308)
230.0	6.37682 (91112008)	16.11536 (91071608)	19.64772 (91052708)	18.69643c(91081408)	17.91452 (91050508)
130.0	8.17700 (91113008)	10.95110 (91112008)	11.77653 (91112008)	22.40860 (91112108)	25.80171 (91052708)
30.0	9.77172 (91031708)	12.82061 (91031708)	16.01952 (91031708)	17.22939 (91031708)	25.66990 (91111916)
-70.0	9.57455c(91052424)	10.58962c(91052424)	13.22020 (91020316)	18.23629 (91020316)	25.56907 (91020316)
-170.0	9.88745 (91020324)	11.44664 (91020324)	11.69293 (91020324)	16.70558 (91100816)	23.61097 (91020216)
-270.0	8.42649 (91040408)	9.01394 (91100816)	11.60552 (91020216)	14.73731 (91020116)	18.32381 (91020124)
-370.0	6.76598 (91100916)	8.47232 (91020116)	10.62830 (91010416)	14.72456 (91020108)	16.24848 (91020208)
-470.0	6.58470 (91010416)	8.37311 (91031516)	11.29701 (91020108)	11.90907 (91020208)	11.60589 (91012608)
-570.0	6.26025 (91031516)	8.70938 (91020108)	8.83649 (91020208)	9.37585 (91012608)	7.82035 (91100708)
-670.0	6.91895 (91020108)	6.79518 (91020208)	9.20132 (91110524)	6.42507 (91123124)	7.14936c(91031108)
-770.0	5.50826 (91112708)	8.37682 (91110524)	5.75351 (91012608)	4.81685 (91100708)	12.54198 (91122508)
-870.0	7.11259 (91110524)	5.61670 (91110524)	4.40578 (91123124)	5.73865c(91031108)	8.03070 (91110808)
-970.0	6.32928 (91110524)	3.84725 (91021608)	3.43209 (91100708)	7.89016 (91122508)	8.11482 (91110624)
-1070.0	3.60263 (91121524)	3.49394 (91021608)	4.60323c(91031108)	10.54180 (91122508)	5.99442 (91110624)
-1170.0	3.63057 (91021608)	2.81220 (91121508)	5.24320c(91031108)	6.64382 (91110808)	5.75678 (91062724)
-1270.0	2.96027 (91021608)	3.72731c(91031108)	8.63391 (91122508)	6.31322 (91110624)	6.87143c(91031108)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 10.00	110.00	210.00	310.00	410.00
1130.0	5.85592 (91032824)	5.81578 (91013108)	5.91006c(91071124)	6.70087 (91030508)	7.41421 (91013024)
1030.0	5.20428 (91032824)	6.42404 (91013108)	5.97813c(91071124)	6.99704 (91030508)	7.47144 (91013024)
930.0	4.55842 (91110208)	7.15227 (91013108)	5.99304c(91071124)	6.55298 (91030508)	6.13272 (91030824)
830.0	5.86064 (91072508)	8.01826 (91013108)	5.93077c(91071124)	5.13320 (91030508)	6.38517 (91030724)
730.0	7.30872 (91061908)	9.00636 (91013108)	5.98185 (91013008)	7.82608 (91030824)	7.80416 (91030724)
630.0	9.00371 (91061908)	9.93600 (91013108)	6.62681 (91013008)	10.84243 (91013024)	8.92431 (91022308)
530.0	9.27880 (91061908)	10.79562 (91030708)	7.16765 (91013008)	11.78022 (91030824)	9.31296 (91012924)
430.0	10.52768 (91042308)	10.66513 (91032824)	8.08608 (91013108)	12.75220 (91022308)	7.65448 (91082008)
330.0	13.10369 (91030808)	10.47709 (91110208)	9.68800 (91120308)	20.51314 (91022308)	12.14708 (91021408)
230.0	24.24355 (91042308)	15.99184 (91030208)	16.50488 (91012808)	13.89629 (91022308)	9.30924 (91011924)
130.0	29.78162 (91050508)	24.57936 (91030808)	35.01050 (91030824)	19.92393 (91021408)	15.29268 (91032716)
30.0	40.66691 (91112108)	69.63189 (91052908)	115.65451 (91022308)	25.27897 (91021416)	20.20113c(91042008)
-70.0	37.13934 (91040416)	44.50350 (91060616)	236.92017 (91021024)	38.89582 (91060216)	24.83495 (91060216)
-170.0	26.83672 (91010416)	28.64640 (91030916)	48.96590 (91030924)	37.12226 (91021124)	18.17828 (91042124)
-270.0	21.40979 (91012516)	26.15067 (91110424)	25.50001 (91110816)	20.52134 (91110216)	20.18473 (91021124)
-370.0	15.03033 (91100708)	20.35257 (91110324)	14.01793 (91110816)	14.30956 (91110824)	19.80389 (91020924)
-470.0	10.84939 (91112508)	19.99316c(91031008)	10.42509 (91110408)	10.97801 (91101024)	12.20205 (91112224)
-570.0	10.61579 (91110624)	12.69080 (91120424)	8.48807 (91110408)	8.32442 (91030924)	10.15150 (91112224)
-670.0	10.07026 (91110624)	9.34823 (91120424)	6.89922 (91110408)	7.19571 (91030924)	6.54520 (91110824)
-770.0	8.10293c(91031108)	7.33299 (91110908)	5.66856 (91110408)	5.41238 (91110224)	6.79056 (91101024)
-870.0	10.97044c(91031108)	6.38017 (91110908)	4.75156 (91110408)	5.58843c(91111124)	4.08338 (91041024)
-970.0	12.41805c(91031008)	5.55655 (91110908)	4.06962 (91110408)	4.87202c(91111124)	4.54557 (91030924)
-1070.0	11.90191c(91031008)	4.87100 (91110908)	3.54960 (91110408)	4.02863c(91022608)	4.40780 (91030924)
-1170.0	9.49927c(91031008)	4.32418 (91110908)	3.15463 (91110408)	4.35688c(91122624)	3.78777 (91030924)
-1270.0	6.84741c(91031008)	3.86581 (91110908)	2.83459 (91110408)	4.56614c(91122624)	3.35360 (91110224)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 510.00	610.00	710.00	810.00	910.00
1130.0	5.26237 (91030724)	5.98295 (91012924)	3.60897 (91012924)	4.12170 (91021324)	2.64400 (91030724)
1030.0	5.56143 (91030724)	6.56705 (91012924)	4.46944c(91042724)	3.67778 (91021324)	2.84761 (91021408)
930.0	5.73007 (91012924)	4.85581 (91012924)	4.70849 (91021324)	3.32868 (91021408)	2.48871 (91021408)
830.0	7.63722 (91012924)	4.27616 (91021324)	3.69069 (91021408)	3.31622 (91021408)	3.42355 (91100308)
730.0	6.66923 (91012924)	5.32546 (91021324)	4.37298 (91021408)	3.08264c(91071108)	3.80025 (91031324)
630.0	5.05063 (91021324)	5.54980 (91021408)	3.31073 (91021408)	4.17387 (91031324)	3.47060 (91042408)
530.0	6.24480 (91021408)	5.36549 (91021408)	4.58039 (91031324)	3.95488 (91042408)	4.35105 (91070208)
430.0	8.68118 (91021408)	5.11855 (91042408)	4.50433 (91042408)	4.43671c(91022424)	4.41830 (91100224)
330.0	6.24554 (91032816)	5.08639 (91042408)	4.78214 (91081924)	4.83285 (91081924)	3.37688c(91060408)
230.0	8.35112 (91032716)	7.44141 (91081924)	4.74494 (91092516)	5.21603c(91042008)	5.46168c(91042008)
130.0	8.97610 (91092516)	9.42764c(91042008)	7.32534c(91042008)	4.28534 (91070924)	4.21803 (91070924)
30.0	10.90699c(91081124)	8.29438c(91082024)	6.57546c(91082024)	6.11335 (91060424)	5.65186 (91060424)
-70.0	15.02061 (91060216)	9.97258 (91060216)	7.13870 (91060216)	5.44963 (91020716)	4.63696 (91060308)
-170.0	11.75853 (91031416)	9.06924 (91021424)	7.97722 (91021424)	6.89607 (91021424)	5.80519 (91021424)
-270.0	18.31857 (91112324)	12.26773 (91032408)	5.67374c(91070824)	4.61004 (91031416)	4.67921 (91060224)
-370.0	15.06484 (91021124)	15.33513 (91112324)	9.73202 (91042124)	8.49837 (91032408)	4.44512 (91032408)
-470.0	14.24816 (91020808)	11.89575 (91021124)	17.19145c(91101124)	11.05553 (91112324)	8.30433 (91030508)
-570.0	10.63278 (91020924)	13.38630 (91020808)	9.75896 (91021124)	15.20473c(91101124)	9.91671 (91112324)
-670.0	8.23973 (91112224)	14.65245 (91020924)	9.83902 (91020808)	8.22665 (91021124)	11.77445c(91101124)
-770.0	8.64610c(91112408)	5.98163 (91060524)	10.43662 (91020924)	8.30081c(91052924)	7.07627 (91021124)
-870.0	5.21983c(91091224)	5.84065 (91112224)	8.72227 (91020924)	9.71434c(91062908)	8.01340c(91052924)
-970.0	4.62776c(91010624)	8.18761c(91112408)	4.44845 (91060524)	10.89775 (91020924)	9.32389 (91020808)
-1070.0	4.88507 (91101024)	5.43265c(91112408)	4.72611 (91041024)	4.32427c(91062224)	9.18594 (91020924)
-1170.0	3.35586 (91101024)	4.04016c(91091224)	7.51034c(91112408)	3.50920c(91122624)	7.09052 (91020924)
-1270.0	3.31568 (91082124)	4.22310c(91010624)	6.06330c(91112408)	4.22987 (91041024)	3.93501c(91062224)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 1010.00	1110.00	1210.00	1310.00	1410.00
1130.0	2.36866 (91021408)	2.76156 (91100308)	3.42332 (91100308)	3.19217 (91032724)	2.79894c(91071624)
1030.0	2.49623c(91071108)	3.53370 (91100308)	3.30203 (91032724)	2.85656c(91071624)	2.35636 (91070208)
930.0	3.55589 (91100308)	3.39742 (91032724)	2.88406c(91071624)	2.72135 (91070208)	3.20670 (91070208)
830.0	3.46980 (91032724)	2.97456 (91042224)	3.14189 (91070208)	3.40999c(91022424)	4.50501c(91022424)
730.0	3.09590 (91042224)	3.60236 (91070208)	4.22422c(91022424)	4.59260c(91022424)	3.80741 (91100224)
630.0	4.05142 (91070208)	4.95565c(91022424)	4.10127c(91022424)	3.36158 (91100224)	2.51728 (91070208)
530.0	5.21195c(91022424)	4.07171 (91100224)	2.90469 (91070208)	2.81299 (91081108)	3.16941 (91081108)
430.0	3.25578 (91070208)	2.88191 (91040924)	3.20350 (91081824)	3.52427c(91042008)	3.17891c(91042008)
330.0	3.80068c(91042008)	4.24195c(91042008)	3.52075c(91042008)	3.14071 (91081824)	3.34622c(91062208)
230.0	3.85883 (91081824)	3.77104c(91062208)	3.54291c(91062208)	3.30360 (91060324)	3.27862 (91060324)
130.0	4.30590c(91082024)	4.09316c(91082024)	3.69586c(91082024)	3.25524c(91082024)	2.83518c(91082024)
30.0	5.04601 (91060424)	4.44475 (91060424)	3.92421 (91060424)	3.49564 (91060424)	3.12726 (91060424)
-70.0	4.11183 (91060308)	3.71154 (91060308)	3.38944 (91060308)	3.13714c(91102024)	3.03492c(91022024)
-170.0	4.87840 (91021424)	4.10627 (91021424)	3.91737c(91061624)	3.88319c(91061624)	3.69912c(91061624)
-270.0	5.17284 (91060224)	4.54072 (91060224)	3.65103c(91051324)	3.48125c(91051324)	3.04254c(91051324)
-370.0	3.54416c(91060208)	2.74396c(91101224)	3.13802 (91060224)	3.74284 (91060224)	3.79829 (91060224)
-470.0	6.53785c(91091124)	3.94993 (91032408)	3.76043 (91081808)	3.04016c(91060208)	2.52618c(91071224)
-570.0	7.32174 (91112324)	6.65855 (91042124)	5.36973c(91091124)	3.64708 (91081808)	3.81359 (91081808)
-670.0	10.29041c(91101124)	7.90071 (91020724)	6.19137 (91030508)	5.57422c(91031124)	4.51907c(91091124)
-770.0	8.88891c(91042208)	11.38898c(91101124)	7.05734 (91112324)	6.04338 (91020724)	5.99429 (91030508)
-870.0	6.44886c(91080424)	7.16963c(91042208)	11.16968c(91101124)	6.66530c(91101124)	6.11116 (91020724)
-970.0	7.56019c(91052924)	6.10281c(91080424)	6.34956 (91021124)	10.13381c(91101124)	7.74593c(91101124)
-1070.0	9.19685 (91020808)	7.06393c(91052924)	5.75468c(91080424)	5.83543 (91021124)	8.74988c(91101124)
-1170.0	6.76559 (91020924)	8.22273 (91020808)	6.57715c(91052924)	5.41802c(91080424)	5.34435 (91021124)
-1270.0	8.41970 (91020924)	7.40135c(91062908)	6.97484 (91020808)	6.12059c(91052924)	5.09499c(91080424)

**MODELOPTs: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 2602 , GEN02 ,

** 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.	1290.48486	(91021020)	AT (	210.00, -70.00)	GC	26.	571.00879	(91122617)	AT (	210.00, -70.00)	GC
2.	1254.37598	(91060122)	AT (	210.00, -70.00)	GC	27.	568.13153	(91052919)	AT (	210.00, -70.00)	GC
3.	1181.01611	(91031120)	AT (	210.00, -70.00)	GC	28.	564.76764	(91081719)	AT (	210.00, -70.00)	GC
4.	1140.57129	(91091120)	AT (	210.00, -70.00)	GC	29.	562.44666	(91060420)	AT (	210.00, -70.00)	GC
5.	1125.48889	(91081804)	AT (	210.00, -70.00)	GC	30.	557.03674	(91081202)	AT (	210.00, -70.00)	GC
6.	844.09375	(91112401)	AT (	210.00, -70.00)	GC	31.	536.58209	(91081806)	AT (	210.00, -70.00)	GC
7.	843.35718	(91042123)	AT (	210.00, -70.00)	GC	32.	533.43671	(91031422)	AT (	210.00, -70.00)	GC
8.	818.29315	(91032403)	AT (	210.00, -70.00)	GC	33.	529.52930	(91070620)	AT (	210.00, -70.00)	GC
9.	808.70911	(91060503)	AT (	210.00, -70.00)	GC	34.	511.67593	(91033019)	AT (	210.00, -70.00)	GC
10.	777.87384	(91070820)	AT (	210.00, -70.00)	GC	35.	493.49362	(91030505)	AT (	210.00, -70.00)	GC
11.	774.51886	(91022522)	AT (	210.00, -70.00)	GC	36.	448.33456	(91111018)	AT (	210.00, -70.00)	GC
12.	714.76086	(91030423)	AT (	210.00, -70.00)	GC	37.	446.58530	(91060222)	AT (	210.00, -70.00)	GC
13.	713.99341	(91011718)	AT (	210.00, -70.00)	GC	38.	440.94214	(91122903)	AT (	210.00, -70.00)	GC
14.	713.99341	(91030519)	AT (	210.00, -70.00)	GC	39.	440.83026	(91022518)	AT (	210.00, -70.00)	GC
15.	686.67596	(91112318)	AT (	210.00, -70.00)	GC	40.	440.83026	(91033011)	AT (	210.00, -70.00)	GC
16.	686.60144	(91042121)	AT (	210.00, -70.00)	GC	41.	423.72351	(91092621)	AT (	210.00, -70.00)	GC
17.	639.90063	(91111119)	AT (	210.00, -70.00)	GC	42.	416.06564	(91070722)	AT (	210.00, -70.00)	GC
18.	638.03217	(91050419)	AT (	210.00, -70.00)	GC	43.	410.68353	(91021217)	AT (	210.00, -70.00)	GC
19.	629.45294	(91032421)	AT (	210.00, -70.00)	GC	44.	406.10477	(91050118)	AT (	210.00, -70.00)	GC
20.	629.09961	(91062519)	AT (	210.00, -70.00)	GC	45.	403.80887	(91020719)	AT (	210.00, -70.00)	GC
21.	613.16278	(91031421)	AT (	210.00, -70.00)	GC	46.	367.17316	(91012921)	AT (	210.00, 30.00)	GC
22.	594.11487	(91091418)	AT (	210.00, -70.00)	GC	47.	365.35822	(91011417)	AT (	210.00, -70.00)	GC
23.	585.89172	(91021019)	AT (	210.00, -70.00)	GC	48.	365.05533	(91072016)	AT (	210.00, -70.00)	GC
24.	584.44781	(91053022)	AT (	210.00, -70.00)	GC	49.	352.44025	(91101219)	AT (	210.00, -70.00)	GC
25.	583.80768	(91021118)	AT (	210.00, -70.00)	GC	50.	341.46756	(91012317)	AT (	210.00, -70.00)	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): 2602 , GEN02 ,

** 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.	236.92017	(91021024)	AT	(210.00, -70.00)	GC	26.	94.25032c	(91052924)	AT	(210.00, -70.00)	GC
2.	224.12268	(91042124)	AT	(210.00, -70.00)	GC	27.	92.83945c	(91081208)	AT	(210.00, -70.00)	GC
3.	218.36572c	(91031124)	AT	(210.00, -70.00)	GC	28.	91.14745c	(91050424)	AT	(210.00, -70.00)	GC
4.	207.77251	(91081808)	AT	(210.00, -70.00)	GC	29.	89.24918	(91011724)	AT	(210.00, -70.00)	GC
5.	205.80203	(91022524)	AT	(210.00, -70.00)	GC	30.	88.14841c	(91111024)	AT	(210.00, -70.00)	GC
6.	202.60219c	(91091124)	AT	(210.00, -70.00)	GC	31.	84.72733	(91021124)	AT	(210.00, -70.00)	GC
7.	177.29857c	(91070824)	AT	(210.00, -70.00)	GC	32.	84.58069	(91012924)	AT	(210.00, 30.00)	GC
8.	177.04691	(91032408)	AT	(210.00, -70.00)	GC	33.	81.57269c	(91122624)	AT	(210.00, -70.00)	GC
9.	163.80782c	(91031424)	AT	(210.00, -70.00)	GC	34.	78.34923	(91042116)	AT	(210.00, -70.00)	GC
10.	156.79840	(91060124)	AT	(210.00, -70.00)	GC	35.	78.18617	(91030408)	AT	(210.00, -70.00)	GC
11.	156.47073	(91030424)	AT	(210.00, -70.00)	GC	36.	76.92664c	(91081224)	AT	(210.00, -70.00)	GC
12.	145.50204	(91112324)	AT	(210.00, -70.00)	GC	37.	76.15102	(91091424)	AT	(210.00, -70.00)	GC
13.	140.71889c	(91112408)	AT	(210.00, -70.00)	GC	38.	74.09186	(91020724)	AT	(210.00, -70.00)	GC
14.	140.48975c	(91030524)	AT	(210.00, -70.00)	GC	39.	73.43153c	(91080824)	AT	(210.00, -70.00)	GC
15.	115.65451	(91022308)	AT	(210.00, 30.00)	GC	40.	73.06417	(91011224)	AT	(210.00, -70.00)	GC
16.	115.63118c	(91060508)	AT	(210.00, -70.00)	GC	41.	71.27222	(91020816)	AT	(210.00, -70.00)	GC
17.	115.47052c	(91111124)	AT	(210.00, -70.00)	GC	42.	71.05376	(91030708)	AT	(210.00, 30.00)	GC
18.	107.37119	(91032424)	AT	(210.00, -70.00)	GC	43.	70.42802	(91060424)	AT	(210.00, -70.00)	GC
19.	104.93418c	(91062524)	AT	(210.00, -70.00)	GC	44.	69.63189	(91052908)	AT	(110.00, 30.00)	GC
20.	99.57796	(91081724)	AT	(210.00, -70.00)	GC	45.	68.77979	(91022224)	AT	(210.00, 30.00)	GC
21.	99.24551	(91033024)	AT	(210.00, -70.00)	GC	46.	67.26957c	(91011424)	AT	(210.00, -70.00)	GC
22.	97.40797c	(91053024)	AT	(210.00, -70.00)	GC	47.	66.19417	(91070624)	AT	(210.00, -70.00)	GC
23.	96.47705	(91031824)	AT	(210.00, -70.00)	GC	48.	65.85970c	(91041708)	AT	(110.00, 30.00)	GC
24.	96.08139	(91030508)	AT	(210.00, -70.00)	GC	49.	65.62341	(91032908)	AT	(110.00, 30.00)	GC
25.	95.29766c	(91070724)	AT	(210.00, -70.00)	GC	50.	62.23433	(91030824)	AT	(210.00, 30.00)	GC

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

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 *** ISCST3 - VERSION 98356 ***    ***  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1991 Met CO     ***        12/22/99
                                   ***                                                                        ***        06:36:22
                                                                                                                         PAGE  21
**MODELOPTs: CONC                           RURAL  FLAT          DFAULT

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

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

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

ALL      HIGH  1ST HIGH VALUE IS    1290.48486  ON 91021020: AT (     210.00,      -70.00,       0.00,       0.00)  GC   100METER

 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY
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 *** ISCST3 - VERSION 98356 ***    ***  FGT CS 26 ISCST Turbine 2602 & Emergency Generator 2 1991 Met CO     ***        12/22/99
                                   ***                                                                        ***        06:36:22
                                                                                                                         PAGE  22
**MODELOPTs: CONC                           RURAL  FLAT          DFAULT

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

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

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

ALL      HIGH  1ST HIGH VALUE IS     236.92017  ON 91021024: AT (     210.00,      -70.00,       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 571 Informational Message(s)

A Total of 571 Calm Hours Identified

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

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

****
*** ISCST3 Finishes Successfully ***
****