Harding Lawson Associates

HLA/C/TA

October 18, 1993

F21.816

Mr. Willard Hanks
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Foamex, L.P.
Application for Permit to Construct
a Flexible Polyurethane Foam Manufacturing Facility

Dear Mr. Hanks:

As you requested, please find enclosed the completed form for waiver of the 90 day time limit for permit application no. AC48-214902, for Foamex, L.P.. This form is provided in addition to the letter request for extension submitted on September 22, 1993.

Please do not hesitate to contact me should you have any questions or comments concerning this matter.

Yours very truly,

HLA-C/TA

Joseph L. Tessitore, P.E.
Managing Principal

JLT/PKR
c21001.doc

cc: Mr. Dennis Nester, Orange County Environmental Protection Division (OCEPD)
Mr. Charles Collins, P.E., FDER - Central Florida District
Mr. Charles Eavenson, Foamex L.P.
Mr. Art Pereira, Foamex, L.P

WAIVER OF 90 DAY TIME LIMIT
UNDER SECTIONS 120.60(2) and 403.0876, FLORIDA STATUTES

License (Permit, Certification) Application No. AC48-214902

Applicant's Name: Foamex, L. P.

With regard to the above referenced application, the applicant hereby with full knowledge and understanding of applicant's rights under Sections 120.60(2) and 403.0876, Florida Statutes, waives the right to have the application approved or denied by the State of Florida Department of Environmental Regulation within the 90 day time period prescribed by law. Said waiver is made freely and voluntarily by the applicant, with full knowledge, and without any pressure or coercion by anyone employed by the State of Florida Department of Environmental Regulation.

This waiver shall expire on the 21 day of December 1993.

The undersigned is authorized to make this waiver on behalf of the applicant.

Charles W. Eavenson
Signature

Charles W. Eavenson
Name (Please Type or Print)

Revised April, 1990

Florida Department of
Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Lawton Chiles
Governor

Virginia B. Wetherell
Secretary

October 6, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Joseph L. Tessitore
Cross/Tessitore & Associates
4763 South Conway Road
Orlando, Florida 32812

Re: Foamex, L.P.

Dear Mr. Tessitore:

The Department acknowledges receipt of your September 22, 1993, letter, granting another waiver of the 90 day time limit to process the application for permit to construct Foamex, L.P.'s flexible polyurethane foam manufacturing facility in Orlando, Orange County, Florida. We request you complete the Department's official form for this and future waivers. A copy of the form was faxed to your office on September 30, 1993.

We also confirm that the additional information requested in our June 9, 1993, meeting in Tallahassee on the application for Foamex, L.P., is needed before we can recommend a permit be issued for this plant. Basically, the needed information is the plan, schedule, and emissions proposed to bring this plant into compliance with the Department's regulation.

If you have any questions on this matter, please write to me or call Willard Hanks at (904) 488-1344.

Sincerely,

John C. Brown, Jr., P.E.
Administrator
Air Permitting and Standards

JB/WH/bjb

cc: Charles Collins, CFD
Dennis Nester, OCEPD
Charles Eavenson, Foamex, L.P.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Joseph L. Tessitore
Cross/Tessitore & Associates
4763 South Conway Road
Orlando, Florida 32812

4a. Article Number
P 230 524 310

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

5. Signature (Addressee)
Cassie Tessitore

6. Signature (Agent)

7. Date of Delivery
10-8-93

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 *U.S. GPO: 1992—323-402 DOMESTIC RETURN RECEIPT

P 230 524 310

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to: Mr. Joseph L. Tessitore	
Street and No.: 4763 South Conway Road	
P.O., State and ZIP Code: Orlando, Florida 32812	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date: Mailed: 10/5/93 Foamex, L.P. AC48-214902	

PS Form 3800, June 1991

Harding Lawson Associates

September 22, 1993

F21.816

Mr. Willard Hanks
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Foamex, L.P.
Application for Permit to Construct
a Flexible Polyurethane Foam Manufacturing Facility

Dear Mr. Hanks:

As you are aware, HLA-C/TA is developing technical information to be submitted as an addendum to the existing Foamex, L.P. Application for Permit to Construct a Flexible Polyurethane Foam Manufacturing Facility currently under FDEP review. This information is being prepared to address the issues discussed during our meeting on June 9, 1993. It is estimated that the submittal document will be finalized in late October, however the current review schedule requires FDEP to act on the application by October 6, 1993. Considering the time that will be required for completion of the submittal document, an extension of 90 days is requested.

Please do not hesitate to contact me should you have any questions or comments concerning this matter.

Yours very truly,

HLA-C/TA

Joseph L. Tessitore, P.E.
Managing Principal

JLT/PKR
c21001.doc

cc: Mr. Dennis Nester, Orange County Environmental Protection Division (OCEPD)
Mr. Charles Collins, P.E., FDER - Central Florida District
Mr. Charles Eavenson, Foamex L.P.
Mr. Art Pereira, Foamex, L.P

Florida Department of
Environmental Protection

Memorandum

TO: Patrick Wong, Dade County DERM

FROM: Tom Tittle, FDEP/SED

DATE: August 3, 1993

SUBJECT: Urethane Foam Manufacturing Facilities

As a result of Tallahassee's visit to our respective offices, Willard Hanks asked us to look into emissions from Omni Foam Inc, Flexible Foam and Flori Foam which have been identified as Dade County facilities operating without Department air permits. Please send us what information you have about these facilities to assist us in determining whether or not these facilities need Department air permits.

cc: Willard Hanks, DARM, Tallahassee

CROSS/TESSITORE & ASSOCIATES, P.A.
4763 SOUTH CONWAY ROAD
ORLANDO, FLORIDA 32812
407/851-1484

July 6, 1993

Mr. Willard Hanks
Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: Foamex, L.P.
(C/TA # F21.816)

Dear Mr. Hanks:

I would like to thank you for providing me with the opportunity to meet with you on Wednesday, June 9 along with Mr. Art Pereira, Mr. Charles Eavenson and Mr. Joseph Lunderville of Foamex, L.P.

Through our discussion during this meeting, it was clear that the Bureau of Air Regulation (BAR) feels that additional information should be submitted in support of the construction permit application currently under review for the Foamex Facility in Orlando. C/TA and Foamex have already begun to compile and develop the information requested, however, the completion of a document for submittal will require several more weeks. Considering the additional time required for BAR review of such a submittal document, an extension of the permit review schedule seems necessary. As the current schedule require FDER to act on the application by July 12, C/TA requests an extension of 90 days to provide sufficient time for submittal and review of the information requested by FDER.

Please do not hesitate to contact me should you have any questions or comments concerning this matter.

Sincerely,

Joseph L. Tessitore

Joseph L. Tessitore, P.E.
Vice President

JLT/kp
cc: Mr. Dennis Nester, OCEPD
Mr. Charles Collins, P.E., FDER - Central Florida District
Mr. Charles Eavenson, Foamex, L.P.
Mr. Art Pereira, Foamex, L.P.
C5993.Doc

Florida Department of Environmental Protection

Meeting Sign-In Sheet

Re: Florida Gas Transmission Date: 5/26/93

Name	Representing	Telephone
Barry Andrews	Florida Gas Trans. (ENSR)	(205) 740-8263
" Duane Ripley	" " "	713 853-3569
FOAMEX 6/9/93		
Arthur R. Lewis	Foamex L.P.	401-438-0900
Joseph H. Lunderville	Foamex L.P.	401-438-0900
Charles Evenson	Foamex Orlando	407-857-2510
Joe Tessitore	C/TA	407-851-1484
Preston Lewis	FDER - Air Permitting	(904) 488-1344
Syed Arif	FDER - Air Permitting	(904) 488-1344
Willard Hanks	" "	"

CROSS/TESSITORE & ASSOCIATES, P.A.
4763 SOUTH CONWAY ROAD
ORLANDO, FLORIDA 32812
407/851-1484

June 2, 1993

Mr. C. H. Fancy, P.E.
Chief
Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: Foamex, L.P.
(C/TA #F21.816)

Dear Mr. Fancy:

This letter is to confirm a meeting scheduled with your staff on Wednesday, June 9, at 1:30 p.m. to discuss the Construction Permit application currently under review for the Foamex, L.P. facility located in Orlando. This meeting was scheduled during a phone conversation with Mr. Willard Hanks of your staff on Thursday, May 30, and will be attended by Mr. Joe Tessitore of C/TA, Mr. Art Pereira of Foamex, and Mr. Charles Eavenson of Foamex.

Please do not hesitate to contact me should you have any questions concerning this matter.

Sincerely,

Patricia Kay Rykowski

Patricia Kay Rykowski
Project Engineer

cc: Mr. Art Pereira, Foamex, L.P.
Mr. Charles Eavenson, Foamex, L.P.
foamex3.doc
PKR/tbm

CROSS/TESSITORE & ASSOCIATES, P.A.
4763 SOUTH CONWAY ROAD
ORLANDO, FLORIDA 32812
407/851-1484

April 12, 1993

Mr. John C. Brown, Jr., P.E.
Administrator, Air Permitting and Standards
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Fl 32399-2400

Subject: Application for Permits to Construct a Flexible Polyurethane Foam Manufacturing Facility (Ref: Letter, J.C. Brown to C. Eavenson, 12/22/92)
(C/TA #F21.816)

Dear Mr. Brown:

Please find enclosed three (3) bound copies of the response developed to address the comments included in your letter of December 22, 1992 regarding the Foamex, L.P. facility in Orlando. This document contains a letter which provides an itemized response to your comments, as well as supporting information and analysis.

Please do not hesitate to contact me should you have any questions or comments concerning this information.

Sincerely,

Joseph L. Tessitore

Joseph L. Tessitore, P.E.
Vice President

cc:
Mr. Dennis Nester, OCEPD
Mr. Charles Collins, P.E., FDER -Central Florida District
Mr. Art Pereira, Foamex, L.P.
Mr. Charles Eavenson, Foamex, L.P.
Mr. Clifford A. Schulman, Greenberg and Traurig

F21.816/foamex1.doc

Copy given to:
WH and CH
4/14/93

RESPONSE TO FDER REVIEW COMMENTS

FOAMEX, L.P.
Application for Permit to Construct
a Flexible Polyurethane Foam
Manufacturing Facility

April 7, 1993

Prepared for:

Foamex, L.P.
1351 Gemini Boulevard
Orlando, Florida 32821

Prepared by:

Cross/Tessitore & Associates, P.A.
4763 South Conway Road, Suite F.
Orlando, Florida 32812
(407) 851-1484 FAX: (407) 855-0369
C5951.Doc / F21.816

FOAMEX
A Limited Partnership

April 7, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED:

Mr. John C. Brown, Jr., P.E.
Administrator, Air Permitting and Standards
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Brown:

Re: Application for Permits to Construct a Flexible Polyurethane Foam Manufacturing Facility (Ref: Letter, J. C. Brown to C. Eavenson, 12/22/92)

The following paragraphs provide an itemized response to the December 22, 1992 letter from Mr. Brown regarding the preliminary review conducted by FDER of the December 2, 1992 application submittal.

1. Where is the toluene diisocyanate incinerator located? If in Florida, does it have a Department air permit? If Foamex is the operator of this incinerator in Florida, please provide either the permit number or an application for permit for it.

   Response:
   ThermalKEM, an American NuKEM subsidiary located in Rock Hill, South Carolina operates a Part B permitted incineration plant (Permit Number: SCD 044 442 333). Other permitted hazardous waste incinerators may also be used in the future, depending on waste disposal requirements.

2. What are the 8-hour, 24-hour, and annual ambient air impacts of toluene diisocyanate emissions from the polyurethane foam facility?

   Response:
   Table 1 shows the results of the ISCST2 Modeling for the Foamex toluene diisocyanate (TDI) emissions. This table shows that the maximum off property TDI ground level concentrations are less than the FDER "No Threat Levels" for 8-hour, 24-hour, and annual averaging times. The details of the modeling results are presented in Attachment 1.

3. On Page 1-30 (VI. Foam Fabrication Operation) please clarify the 43.7 foot stack diameter listed in Section H.

   Response:
   The stack diameter on this page was inadvertently listed as 43.7 feet rather than 43.7 inches, or 3.64 feet.

Regency Industrial Park
1351 Gemini Boulevard
Orlando FL 32821
407 857 2510
Fax 407 8[illegible]C5951\Doc

4. Please provide a more detailed schedule on the company's investigation to use either another process or add air pollution control at this facility. We want to know what the ongoing studies are, what is expected to be learned from the study, and by what date.

Response:
In general, Foamex is working with other members of the industry through the Polyurethane Foam Association (PFA) to evaluate emission control technologies. Development work on various mechanical and chemical solutions for the industry is underway at several companies.

The PFA is formally evaluating emission control strategies and will present an update on the work at the annual PFA meeting in May, 1993. In addition, chemical suppliers are also developing alternative polyol technologies and additives to minimize the amount of auxiliary blowing agent necessary for foam production.

Specifically, Foamex is evaluating various options for emission control on a company-wide basis. These options are as follows:

1) Limitation of product mixture produced with blowing agents.
2) Capture and treatment of emissions.
3) Process and equipment modifications to reduce emissions.

The first option, to limit the product mixture produced, is based on the fact that not all foam grades require the use of auxiliary blowing agents. However, this is not a desired option for all facilities, since it would reduce the sales volume and thus mandate reductions in the plant work force. At a facility such as the Foamex Orlando Plant, which produces a significant amount of blown foam, the loss of this sales volume and subsequent market loss could have a serious impact.

The second option is to consider the capture and treatment of blowing agent emissions. The most promising approach being considered by the PFA, based on industry data and experience, is carbon adsorption. One PFA member has done pilot plant work on a carbon adsorption system, as discussed in question #7. Foamex will continue to follow this work and the development of other industry pilot systems and evaluate their application to emission control at the Orlando Facility. Foamex will also consider other applicable control options should they become available in the next 18 months.

The third option involves the use of several types of process equipment which are currently under development and which have the goal of producing a wide range of flexible urethane foams with little or no emissions of auxiliary blowing agents. These processes are described as follows:

a) The Rapid Cooling process involves the rapid cooling of a block of foam with the potential of recovering any volatile blowing agent.

b) The Environmental Cure process involves the elimination of blowing agents and produces water blown foam.

c) The Variable Pressure Foaming (VPF) process which allows the production of a wide range of flexible urethane foams without the use of blowing agents.

The processes described under a) and b) above, are best suited to plants in which the foam may be manufactured in short blocks to meet customer specifications, which are unlike the typical Foamex plants at this stage. Currently, Foamex is committed to the VPF system which is a new technology and is based on the fact that as the air pressure is reduced within the mold, a given amount of foam will occupy a greater space under normal air pressure. This approach results in the production of greater foam volume with no blowing agent, and allows the density of the foam to be varied based on the changes in the process pressure.

While this technology has been employed in Europe for batch production, it has not been practically demonstrated on a continuous foam line. Foamex has scheduled the installation of this type of process in one of their plants during the latter part of 1993. Several months after installation and startup, Foamex hopes to optimize the foam production variables and begin elimination of the auxiliary blowing agents.

Based on the above discussion of emission control and process modification options, and the fact that OSHA may seriously restrict the use of methylene chloride, and/or EPA may restrict the use of alternate blowing agents such as 1,1,1-Trichloroethane,, and HCFC-141b, Foamex estimates that a final decision concerning emission control measures for the Orlando plant can be made by December, 1994.

In order to keep FDER informed as to the status of the previously discussed emission control and process modification options, a reporting schedule is being proposed as shown in Attachment 2. This schedule, which assumes that a FDER Permit is issued during June 1993, shows that Foamex will submit semi-annual progress reports until December 1994 at which time a decision will be made. Details of the information to be submitted in the semi-annual progress reports are presented in Attachment 3. According to this schedule, Foamex will submit a permit application in March of 1995 identifying the selected emission control configuration and/or process modification which is consistent with the existing OSHA and EPA regulations. This system or equipment will then be installed on a schedule consistent with FDER's approval.

5. Why does the boiler operate longer than the slabstock polyurethane foam production facility? Is it on "stand-by" or do other operations at the facility use steam?

Response:
Currently, the boiler operates only to support the rebond polyurethane foam production facility. The intent of requesting longer boiler operating hours was to insure boiler availability for other plant operations such as environmental heating and/or steam production.

6. What means are used to contain spills and minimize fugitive emissions during process chemical storage and handling?

Response:
All bulk storage tanks currently in use are provided with secondary containment, which can contain at least 115% of the volume in the largest tank. Spill pigs and other absorbent materials are available to contain chemical spills within the building. The chemical suppliers provide training videotapes and standard procedures for bulk materials handling, which acts to minimize spills.

The piping system for toluene diisocyanate includes welded piping, where possible, to prevent spills and minimize fugitive emissions. All drums containing chemicals are tightly closed when not in use.

7. Can any of the blowing agents captured by a carbon adsorption system be recycled at the facility? If so, what is the value of the agent recovered? How does this affect the economics of the BACT determination?

Response:
It may be possible to recycle captured methylene chloride or other auxiliary blowing agents for reuse in the process. A Foamex competitor has worked on a pilot plant scale carbon adsorption unit. They reported that more work had to be done to determine whether the lack of stabilizer in recycled methylene chloride would cause acid buildup in storage or damage foam quality.

In general, as discussed in Item 4, Foamex will continue to pursue the development of collection and treatment options and the semi-annual report will provide an updated status of the viability of carbon adsorption based on PFA studies and data. Currently, it does not appear from the industry pilot plant data that the carbon adsorption process is applicable with the existing blowing agents. However, future changes in blowing agents may cause this situation to be reevaluated.

8. Please describe the equipment cleaning practices at this facility. How much and what types of solvents are used? What is done to minimize emissions of these solvents? How are the used solvents disposed of?

Response:
Typical equipment cleaning practices are described in the following paragraphs. Foamex is continuously working to refine these procedures. The goal is to use effective cleaning methods while minimizing emissions and waste generation.

Polyol is currently used for cleaning the mixhead on the foam machine during production runs. This material is collected and used as a raw material in the rebond foam production process. Approximately 30 gallons per month are used. Due to the low volatility of polyol, no special measures are necessary to minimize emissions.

Small quantities of isopropyl alcohol are used for soaking production equipment pieces. It is estimated that one to two gallons per month are used; the alcohol is replenished as needed. The material is kept in a small covered container. Isopropyl alcohol is also used as a hand cleaner. It is estimated that 387 gallons of isopropyl alcohol were utilized in 1992. N-propyl alcohol is also used as a solvent in an ink used at the plant, and in the cleaner.

Methylene chloride is used to clean the foam line trough after completion of production activities. Approximately three gallons of material will remain after cleaning. This material is transferred to a small covered container where it is kept for reuse. This material may also be used for the soaking of small equipment pieces. The amount of methylene chloride emitted due to cleaning activities, is a small fraction of the amount used in foam production.

The methylene chloride is generally replenished as necessary and reused until it evaporates, but if it does not meet the requirements for use as a cleaner (i.e., if the solids content is too great) it is declared as a hazardous waste and transferred to a hazardous waste satellite drum. The waste is then disposed of in accordance with RCRA requirements, typically by recycling.

A mixture of 1,1,1-trichloroethane and silicone is used as a saw blade lubricant. Approximately 5,770 pounds of 1,1,1-trichloroethane were utilized in 1992. A substitute for this material will be found in a timely manner, because the material will soon become unavailable since it has been classified as a Class 1 ozone depleting compound. The status of identifying a substitute material will be discussed and updated in the semi-annual reports, as discussed in Item 4. However, current Foamex plans are to adopt an alternate procedure and the use of this chemical will be eliminated within three (3) months.

The maintenance and loop slitter department also uses reclaimed mineral spirits supplied by Safety Kleen (105 Solvent MS) for equipment cleaning. Records for 1992 indicate that 292.5 pounds of spent material were returned to Safety Kleen for recycling and 97.5 pounds were emitted. The Safety Kleen "solvent use" workstation is designed to maximize capture of volatile material and minimize emissions.

9. Under the Clean Air Act Amendment of 1990, use of HCFC for non-insulating foams is prohibited after January 1, 1994 (page 6-A-45 of the Application). Any permit issued will reflect that limitation. What will be used after this date?

Response:
Several options are being considered for the replacement of HCFCs. Testing is underway to optimize the use of additives and alternative polyols to replace a portion of the auxiliary blowing agent.

The replacement of banned HCFCs will be considered in the semi-annual reports in context with the entire emissions control options. As discussed in Item 4, Foamex will continue to pursue the best combination of chemical substitution, emission and capture and control, and process or equipment modification which will results in the lowest ground level concentration which is consistent with OSHA and FDER/EPA regulatory requirements and the Orlando plant production economics.

Please contact Joseph Tessitore of C/TA, if you have any questions or comments concerning this information.

Sincerely,

Charles W. Eavenson

Charles W. Eavenson
Plant Manager

LJS 92-257

cc: Clifford Schulman, Greenberg Traurig
Joseph L. Tessitore, P.E., Cross/Tessitore & Assoc.
Arthur R. Pereira, Foamex L.P.
Linda J. Spellmon, Foamex L.P.

ATTACHMENT 1

FOAMEX L.P.

ISCST2 Modeling Results

(Orlando Flexible Polyurethane Foam Manufacturing Facility)

Foamex ISCST2 Modeling
of Toluene Diisocyanate (TDI) Emissions

The 8-hour, 24-hour, and annual ambient air impacts of the toluene diisocyanate (TDI) emissions from the Foamex facility were estimated using the EPA Industrial Source Complex - Short Term (version 92062) model (ISCST2). This analysis was based on the same methodology and assumptions used in Section 7.0 of the original permit application. The only sources of TDI emissions from the facility are the foam line stack and the two (2) rebond process exhaust fans. The input parameters used this analysis are presented in Table 1. The locations of the foam line stack and rebond process exhausts are shown in Figure 1. A downwash analysis of the three sources was conducted as outlined in Table 7-4 of the permit application and the output listing of this analysis is presented in Attachment A. Table 1 also presents the results of the TDI modeling analysis and a comparison with the FDER No Threat Levels for TDI. The ISCST2 output listings are presented in Attachment B. The results show that in all cases the predicted maximum ambient air impact of TDI emissions from the Foamex facility are below the FDER No Threat Levels for TDI.

TABLE 1

Foamex ISCST2 Modeling of Toluene Diisocyanate (TDI) Emissions

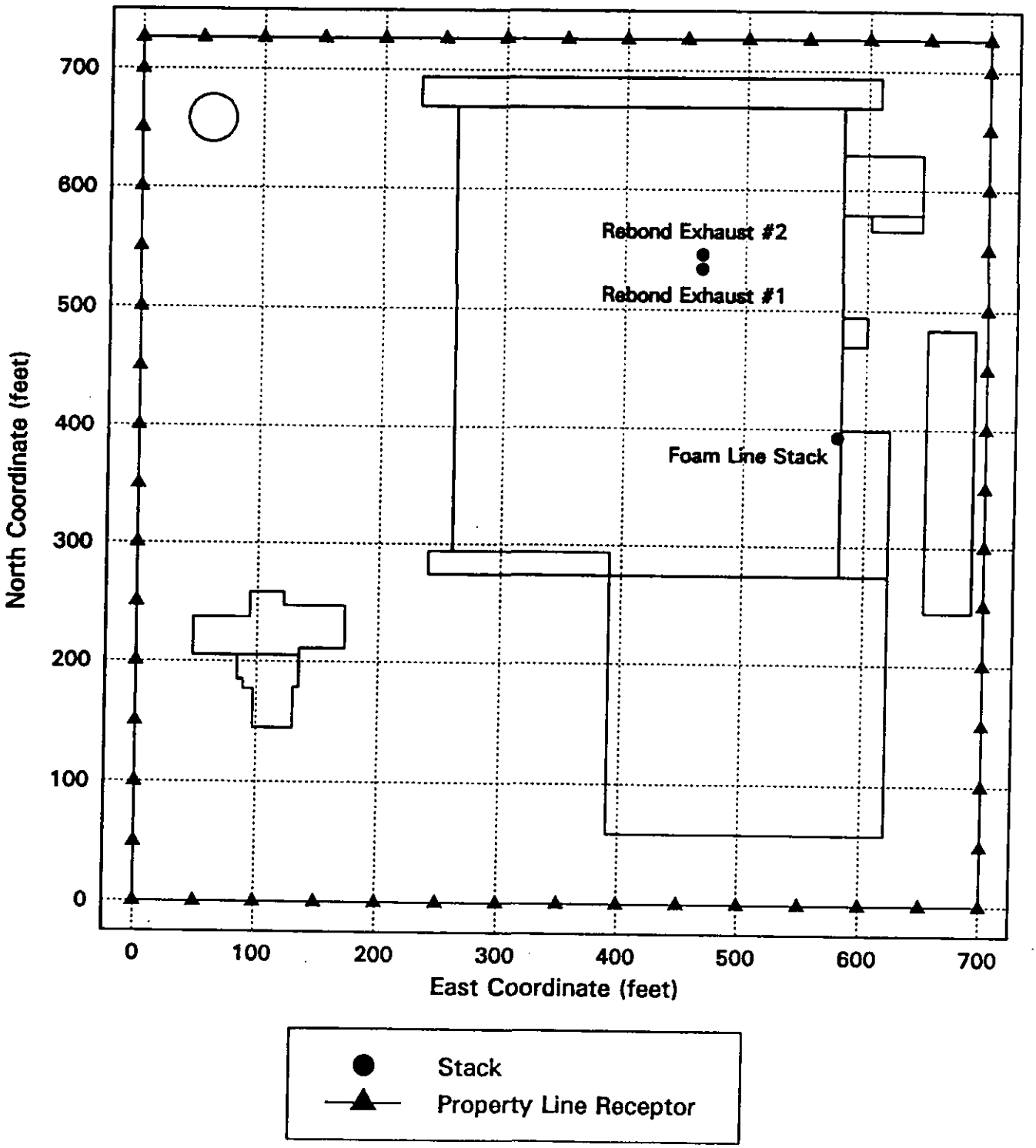
Source Input Parameters

Parameter	Units	Foam Line Stack	Rebond Exhaust #1	Rebond Exhaust #2
Stack Height	feet	125	41	41
Stack Inside Diameter	feet	2.303294	2.5	2.5
Stack Gas Flow Rate	ACFM	20000	1000	1000
Stack Gas Exit Velocity	ft/sec	80	3.395305	3.395305
Stack Gas Exit Temperature	°F	80	80	80
Stack Location East Coordinate	feet	577	464	464
Stack Location North Coordinate	feet	393	534	546
Hours of Operation per Day	hours/day	3	12	12
Hours of Operation per Year	hours/year	624	3744	3744
Maximum Hourly TDI Emission Rate	lb/hr	0.37	0.0023	0.0023
8-hour Average TDI Emission Rate	lb/hr	0.13875	0.0023	0.0023
24-hour Average TDI Emission Rate	lb/hr	0.04625	0.00115	0.00115
Annual Average TDI Emission Rate	lb/hr	0.026356	0.000983	0.000983

Modeling Results and Comparison with FDER No Threat Levels for TDI

Averaging Time	Maximum Off Property TDI Ground Level Concentration	FDER TDI No Threat Level
8-hour	0.32 $\mu g/m^3$	0.36 $\mu g/m^3$
24-hour	0.084 $\mu g/m^3$	0.0864 $\mu g/m^3$
Annual	0.0089 $\mu g/m^3$	N/A

Figure 1
Foamex ISCST2 Modeling of TDI Emissions
Source Locations and Property Line Receptor Locations



Attachment A

BREEZE WAKE Output Listing

for Sources of TDI Emissions

1

RBRZWAKE
IBM-PC VERSION (2.1)
(C) COPYRIGHT 1989, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6681 SOLD TO CROSS TESSITORE
RUN NAME: FMXTDI
RUN BEGAN ON 01-20-93 AT 13:07:26

1

BREEZE WAKE DOWNWASH ANALYSIS

The following options have been chosen:

(1) Calculations are made for the ISCST model.
(2) All stacks must be within 5L to be considered for direction specific downwash.
(3) Downwash is calculated in 360 radial directions.
(4) Buildings are combined.

Note: This analysis determines the direction specific downwash parameters for the flow vector pointing in the direction listed.

Round figures are converted into 8-sided figures for the downwash analysis.

Algorithms:

0 = No Downwash
1 = Huber-Snyder Downwash
2 = Schulman-Scire Downwash

1

Input Buildings

Description	Bldg #	Bldg Ht(m)	# of Corners	X(m)	Y(m)
Office A	1	4.27	10		
				29.57	44.20
				39.62	44.20
				39.62	54.56
				41.15	54.56
				41.15	62.49
				25.60	62.49
				25.60	56.39
				27.13	56.39
				27.13	53.95
				29.57	53.95

Offices B	2	4.27	10		
				14.33	62.49
				41.15	62.49
				41.15	64.31
				52.43	64.31
				52.43	75.29
				37.19	75.29
				37.19	78.64
				28.65	78.64
				28.65	72.24
				14.33	72.24
Tank	3	9.75	8		
				21.99	204.87
				23.78	200.56
				21.99	196.25
				17.68	194.46
				13.37	196.25
				11.58	200.56
				13.37	204.87
				17.68	206.66
Long Bun Storage Rm	4	15.24	4		
				118.87	17.98
				188.98	17.98
				188.98	83.52
				118.87	83.52
East Section 40 ft	5	12.19	4		
				176.79	83.52
				188.98	83.52
				188.98	121.62
				176.79	121.62
Loading Dock	6	4.88	4		
				73.15	83.52
				118.87	83.52
				118.87	89.61
				73.15	89.61
Main Roof 35 ft	7	10.67	6		
				79.25	89.61
				118.87	89.61
				118.87	83.52
				176.79	83.52
				176.79	203.91
				79.25	203.91
East Section 12 ft	8	3.66	4		
				176.79	142.95
				182.88	142.95
				182.88	150.57
				176.79	150.57
Storage Tanks	9	10.97	4		
				176.79	176.48
				196.60	176.48
				196.60	191.72
				176.79	191.72

North Section 16 ft	10	4.88	4		
				70.11	203.91
				185.93	203.91
				185.93	211.53
				70.11	211.53
Storge Bldg	11	6.71	4		
				198.12	74.37
				210.32	74.37
				210.32	147.53
				198.12	147.53
Methylene Chloride	12	3.05	4		
				183.80	172.52
				196.60	172.52
				196.60	176.48
				183.80	176.48

1

Input Stacks

Stack ID #	Stack #	Stack Ht(m)	X(m)	Y(m)
1	1	38.10	175.87	119.79
2	2	12.50	141.43	162.77
3	3	12.50	141.43	166.42

1

Downwash Structures

Structure 1: Ht= 15.24 m, MPW= 95.97 m, GEP= 38.10 m

Contains the following buildings:
Building # 4: Long Bun Storage Rm
The following stacks are within 5L:
Stack # 1: 1

Structure 2: Ht= 12.19 m, MPW= 125.12 m, GEP= 30.48 m

Contains the following buildings:
Building # 4: Long Bun Storage Rm
Building # 5: East Section 40 ft
The following stacks are within 5L:
Stack # 1: 1
Stack # 2: 2
Stack # 3: 3

Structure 3: Ht= 10.97 m, MPW= 25.00 m, GEP= 27.43 m

Contains the following buildings:
Building # 9: Storage Tanks
The following stacks are within 5L:
Stack # 2: 2
Stack # 3: 3

```
Structure   4:  Ht=  10.67 m, MPW=  215.90 m, GEP=  26.67 m
 ---------------------------------------------------------------------
      Contains the following buildings:
            Building #  4:  Long Bun Storage Rm
            Building #  5:  East Section 40 ft
            Building #  7:  Main Roof 35 ft
            Building #  9:  Storage Tanks
      The following stacks are within 5L:
            Stack #  1:   1
            Stack #  2:   2
            Stack #  3:   3

Structure   5:  Ht=   9.75 m, MPW=   12.19 m, GEP=  24.38 m
 ---------------------------------------------------------------------
      Contains the following buildings:
            Building #  3:  Tank
      The following stacks are within 5L:

Structure   6:  Ht=   6.71 m, MPW=  215.90 m, GEP=  16.76 m
 ---------------------------------------------------------------------
      Contains the following buildings:
            Building #  4:  Long Bun Storage Rm
            Building #  5:  East Section 40 ft
            Building #  7:  Main Roof 35 ft
            Building #  9:  Storage Tanks
            Building # 11:  Storge Bldg
      The following stacks are within 5L:
            Stack #  1:   1
            Stack #  2:   2
            Stack #  3:   3

Structure   7:  Ht=   4.88 m, MPW=  227.14 m, GEP=  12.19 m
 ---------------------------------------------------------------------
      Contains the following buildings:
            Building #  4:  Long Bun Storage Rm
            Building #  5:  East Section 40 ft
            Building #  6:  Loading Dock
            Building #  7:  Main Roof 35 ft
            Building #  9:  Storage Tanks
            Building # 10:  North Section 16 ft
            Building # 11:  Storge Bldg
      The following stacks are within 5L:
            Stack #  1:   1
            Stack #  2:   2
            Stack #  3:   3

Structure   8:  Ht=   4.27 m, MPW=   40.19 m, GEP=  10.67 m
 ---------------------------------------------------------------------
      Contains the following buildings:
            Building #  1:  Office A
            Building #  2:  Offices B
      The following stacks are within 5L:
```

```
Structure   9:  Ht=   3.66 m, MPW=  227.14 m, GEP=   9.14 m
-------------------------------------------------------------------------------
      Contains the following buildings:
            Building #  4:  Long Bun Storage Rm
            Building #  5:  East Section 40 ft
            Building #  6:  Loading Dock
            Building #  7:  Main Roof 35 ft
            Building #  8:  East Section 12 ft
            Building #  9:  Storage Tanks
            Building # 10:  North Section 16 ft
            Building # 11:  Storge Bldg
      The following stacks are within 5L:
            Stack #  1:   1
            Stack #  2:   2
            Stack #  3:   3

Structure  10:  Ht=   3.05 m, MPW=  227.14 m, GEP=   7.62 m
-------------------------------------------------------------------------------
      Contains the following buildings:
            Building #  4:  Long Bun Storage Rm
            Building #  5:  East Section 40 ft
            Building #  6:  Loading Dock
            Building #  7:  Main Roof 35 ft
            Building #  8:  East Section 12 ft
            Building #  9:  Storage Tanks
            Building # 10:  North Section 16 ft
            Building # 11:  Storge Bldg
            Building # 12:  Methylene Chloride
      The following stacks are within 5L:
            Stack #  1:   1
            Stack #  2:   2
            Stack #  3:   3

NUMBER OF SOURCES =   3
```

1 Stack ID # 1, Stack # 1

The Dominant Structure Within 5L is:
STRUC= 1 H= 15.24 W= 95.97 GEP= 38.10

Direction Specific Building Downwash

Degree	Structure #	Height	Width	GEP	Algorithm
10	1	15.24	84.68	38.10	1
20	1	15.24	91.23	38.10	1
30	1	15.24	95.01	38.10	1
40	1	15.24	95.96	38.10	1
50	1	15.24	95.84	38.10	1
60	1	15.24	93.53	38.10	1
70	0	.00	.00	.00	0
80	0	.00	.00	.00	0
90	0	.00	.00	.00	0
100	0	.00	.00	.00	0
110	0	.00	.00	.00	0
120	0	.00	.00	.00	0
130	0	.00	.00	.00	0
140	0	.00	.00	.00	0
150	1	15.24	93.84	38.10	1
160	1	15.24	90.70	38.10	1
170	1	15.24	83.88	38.10	1
180	0	.00	.00	.00	0
190	0	.00	.00	.00	0
200	1	15.24	91.23	38.10	1
210	1	15.24	95.01	38.10	1
220	1	15.24	95.96	38.10	1
230	1	15.24	95.84	38.10	1
240	1	15.24	93.53	38.10	1
250	0	.00	.00	.00	0
260	0	.00	.00	.00	0
270	0	.00	.00	.00	0
280	0	.00	.00	.00	0
290	0	.00	.00	.00	0
300	0	.00	.00	.00	0
310	0	.00	.00	.00	0
320	0	.00	.00	.00	0
330	1	15.24	93.84	38.10	1
340	1	15.24	90.70	38.10	1
350	1	15.24	83.88	38.10	1
360	1	15.24	75.55	38.10	1

1 Stack ID # 2, Stack # 2

The Dominant Structure Within 5L is:
STRUC= 2 H= 12.19 W= 125.12 GEP= 30.48

Direction Specific Building Downwash

Degree	Structure #	Height	Width	GEP	Algorithm
10	2	12.19	84.68	30.48	2
20	2	12.19	88.29	30.48	2
30	4	10.67	196.53	26.67	2
40	4	10.67	209.06	26.67	2
50	4	10.67	215.24	26.67	2
60	4	10.67	215.89	26.67	2
70	4	10.67	214.49	26.67	2
80	4	10.67	206.95	26.67	2
90	4	10.67	193.13	26.67	2
100	4	10.67	194.58	26.67	2
110	4	10.67	194.74	26.67	2
120	4	10.67	192.50	26.67	2
130	4	10.67	186.24	26.67	2
140	4	10.67	176.60	26.67	2
150	4	10.67	161.59	26.67	2
160	4	10.67	148.74	26.67	2
170	4	10.67	138.57	26.67	2
180	4	10.67	125.52	26.67	2
190	4	10.67	154.11	26.67	2
200	2	12.19	88.29	30.48	2
210	4	10.67	196.53	26.67	2
220	3	10.97	24.84	27.43	2
230	3	10.97	24.73	27.43	2
240	3	10.97	23.71	27.43	2
250	3	10.97	21.98	27.43	2
260	3	10.97	19.58	27.43	2
270	4	10.67	193.13	26.67	2
280	4	10.67	194.58	26.67	2
290	4	10.67	194.74	26.67	2
300	4	10.67	192.50	26.67	2
310	2	12.19	125.05	30.48	2
320	2	12.19	122.42	30.48	2
330	2	12.19	116.07	30.48	2
340	2	12.19	106.20	30.48	2
350	2	12.19	93.09	30.48	2
360	2	12.19	77.16	30.48	2

1 Stack ID # 3, Stack # 3

The Dominant Structure Within 5L is:
STRUC= 2 H= 12.19 W= 125.12 GEP= 30.48

Direction Specific Building Downwash

Degree	Structure #	Height	Width	GEP	Algorithm
10	2	12.19	84.68	30.48	2
20	2	12.19	87.62	30.48	2
30	4	10.67	196.53	26.67	2
40	4	10.67	209.06	26.67	2
50	4	10.67	215.24	26.67	2
60	4	10.67	215.89	26.67	2
70	4	10.67	214.49	26.67	2
80	4	10.67	206.95	26.67	2
90	4	10.67	193.13	26.67	2
100	4	10.67	194.58	26.67	2
110	4	10.67	194.74	26.67	2
120	4	10.67	192.50	26.67	2
130	4	10.67	186.24	26.67	2
140	4	10.67	176.60	26.67	2
150	4	10.67	161.59	26.67	2
160	4	10.67	148.74	26.67	2
170	4	10.67	138.57	26.67	2
180	4	10.67	125.52	26.67	2
190	4	10.67	154.11	26.67	2
200	4	10.67	178.03	26.67	2
210	4	10.67	196.53	26.67	2
220	4	10.67	209.06	26.67	2
230	3	10.97	24.58	27.43	2
240	3	10.97	23.71	27.43	2
250	3	10.97	21.98	27.43	2
260	3	10.97	19.58	27.43	2
270	4	10.67	193.13	26.67	2
280	4	10.67	194.58	26.67	2
290	4	10.67	194.74	26.67	2
300	4	10.67	192.50	26.67	2
310	2	12.19	124.83	30.48	2
320	2	12.19	122.42	30.48	2
330	2	12.19	116.07	30.48	2
340	2	12.19	106.20	30.48	2
350	2	12.19	93.09	30.48	2
360	2	12.19	77.16	30.48	2

```
1
                              Stack #   1
 Stack ID:  1,     Building Height: 15.240,     Building Width: 95.965
 15.24015.24015.24015.24015.24015.240.00000.00000.00000.00000.00000.00000
 .00000.0000015.24015.24015.240.00000.0000015.24015.24015.24015.24015.240
 .00000.00000.00000.00000.00000.00000.00000.0000015.24015.24015.24015.240
 84.67791.23295.01595.96595.84093.532.00000.00000.00000.00000.00000.00000
 .00000.0000093.84490.69983.876.00000.0000091.23295.01595.96595.84093.532
 .00000.00000.00000.00000.00000.00000.00000.0000093.84490.69983.87675.550
                              Stack #   2
 Stack ID:  2,     Building Height: 12.192,     Building Width: 125.12
 12.19212.19210.66810.66810.66810.66810.66810.66810.66810.66810.66810.668
 10.66810.66810.66810.66810.66810.66810.66812.19210.66810.97310.97310.973
 10.97310.97310.66810.66810.66810.66812.19212.19212.19212.19212.19212.192
 84.67788.291196.53209.06215.24215.89214.49206.95193.13194.58194.74192.50
 186.24176.60161.59148.74138.57125.52154.1188.291196.5324.83924.72623.714
 21.98219.581193.13194.58194.74192.50125.05122.42116.07106.2093.09477.163
                              Stack #   3
 Stack ID:  3,     Building Height: 12.192,     Building Width: 125.12
 12.19212.19210.66810.66810.66810.66810.66810.66810.66810.66810.66810.668
 10.66810.66810.66810.66810.66810.66810.66810.66810.66810.97310.97310.973
 10.97310.97310.66810.66810.66810.66812.19212.19212.19212.19212.19212.192
 84.67787.621196.53209.06215.24215.89214.49206.95193.13194.58194.74192.50
 186.24176.60161.59148.74138.57125.52154.11178.03196.53209.0624.58323.714
 21.98219.581193.13194.58194.74192.50124.83122.42116.07106.2093.09477.163
1                      RUN ENDED ON 01-20-93 AT 13:07:32
```

Attachment B

ISCST2 Output Listings

for Modeling of TDI Emissions

Run: FMXTDI8

TDI 8-hour Average Emission Rates

```
                    ISCST2 EXTENDED MODEL - (DATED 92062)

                    IBM-PC VERSION (1.01)
                    (C) COPYRIGHT 1992, TRINITY CONSULTANTS, INC.
                    SERIAL NUMBER 8025 SOLD TO CROSS TESSITORE & ASSOCIATES
                    RUN BEGAN ON 01/21/93 AT 10:40:44


 STARTING
CO TITLEONE Foamex TDI Sources: Foam Line Stack & Rebond Process Exhaust
CO TITLETWO 8-hour Average Emission Rates
 MODELOPT DFAULT CONC RURAL
CO AVERTIME 8
CO POLLUTID OTHER
 RUNORNOT RUN
 FINISHED

 STARTING

** Source Location Cards:
**           SRCID SRCTYP       XS            YS            ZS

SO LOCATION      1 POINT      175.8720      119.7880       .0000
SO LOCATION      2 POINT      141.4290      162.7650       .0000
SO LOCATION      3 POINT      141.4290      166.4230       .0000

** Source Parameter Cards:
** POINT:   SRCID       QS             HS          TS          VS          DS
** VOLUME:  SRCID       QS             HS          SYINIT      SZINIT
** AREA:    SRCID       QS             HS          XINIT

SO SRCPARAM      1    .0174822         38.1000     299.8200    24.3810     .7021
SO SRCPARAM      2    .0002898         12.4968     299.8200     1.0348     .7620
SO SRCPARAM      3    .0002898         12.4968     299.8200     1.0348     .7620

** NOTE: Direction-Specific Building Heights Used for Non-SS Source      1
SO BUILDHGT      1      15.24     15.24     15.24     15.24     15.24     15.24
SO BUILDHGT      1        .00       .00       .00       .00       .00       .00
SO BUILDHGT      1        .00       .00     15.24     15.24     15.24       .00
SO BUILDHGT      1        .00     15.24     15.24     15.24     15.24     15.24
SO BUILDHGT      1        .00       .00       .00       .00       .00       .00
SO BUILDHGTSO BUILDHGT     1        .00       .00     15.24     15.24     15.24     15.24
SO BUILDHGT      2      12.19     12.19     10.67     10.67     10.67     10.67
SO BUILDHGT      2      10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT      2      10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT      2      10.67     12.19     10.67     10.97     10.97     10.97
SO BUILDHGT      2      10.97     10.97     10.67     10.67     10.67     10.67
SO BUILDHGT      2      12.19     12.19     12.19     12.19     12.19     12.19
SO BUILDHGT      3      12.19     12.19     10.67     10.67     10.67     10.67
SO BUILDHGT      3      10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT      3      10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT      3      10.67     10.67     10.67     10.67     10.97     10.97
SO BUILDHGT      3      10.97     10.97     10.67     10.67     10.67     10.67
SO BUILDHGT      3      12.19     12.19     12.19     12.19     12.19     12.19
** NOTE: Direction-Specific Building Widths Used for Non-SS Source      1
SO BUILDWID      1      84.68     91.23     95.01     95.96     95.84     93.53
```

```
SO BUILDWID     1       .00       .00       .00       .00       .00       .00
SO BUILDWID     1       .00       .00     93.84     90.70     83.88       .00
SO BUILDWID     1       .00     91.23     95.01     95.96     95.84     93.53
SO BUILDWID     1       .00       .00       .00       .00       .00       .00
SO BUILDWID     1       .00       .00     93.84     90.70     83.88     75.55
SO BUILDWID     2     84.68     88.29    196.53    209.06    215.24    215.89
SO BUILDWID     2    214.49    206.95    193.13    194.58    194.74    192.50
SO BUILDWID     2    186.24    176.60    161.59    148.74    138.57    125.52
SO BUILDWID     2    154.11     88.29    196.53     24.84     24.73     23.71
SO BUILDWID     2     21.98     19.58    193.13    194.58    194.74    192.50
SO BUILDWID     2    125.05    122.42    116.07    106.20     93.09     77.16
SO BUILDWID     3     84.68     87.62    196.53    209.06    215.24    215.89
SO BUILDWID     3    214.49    206.95    193.13    194.58    194.74    192.50
SO BUILDWID     3    186.24    176.60    161.59    148.74    138.57    125.52
SO BUILDWID     3    154.11    178.03    196.53    209.06     24.58     23.71
SO BUILDWID     3     21.98     19.58    193.13    194.58    194.74    192.50
SO BUILDWID     3    124.83    122.42    116.07    106.20     93.09     77.16
SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL1 STA
RE GRIDPOLR POL1 ORIG   106.68  110.6424
RE GRIDPOLR POL1 DIST   150. 200. 250. 300. 350. 400. 450. 500. 550.
RE GRIDPOLR POL1 DIST   600. 650. 700. 750. 800. 850. 900. 950. 1000.
RE GRIDPOLR POL1 GDIR   36  10.  10.
RE GRIDPOLR POL1 END
RE DISCCART        .00       .00
RE DISCCART      15.24       .00
RE DISCCART      30.48       .00
RE DISCCART      45.72       .00
RE DISCCART      60.96       .00
RE DISCCART      76.20       .00
RE DISCCART      91.44       .00
RE DISCCART     106.68       .00
RE DISCCART     121.92       .00
RE DISCCART     137.16       .00
RE DISCCART     152.40       .00
RE DISCCART     167.64       .00
RE DISCCART     182.88       .00
RE DISCCART     198.12       .00
RE DISCCART     213.36       .00
RE DISCCART     213.36     15.24
RE DISCCART     213.36     30.48
RE DISCCART     213.36     45.72
RE DISCCART     213.36     60.96
RE DISCCART     213.36     76.20
RE DISCCART     213.36     91.44
RE DISCCART     213.36    106.68
RE DISCCART     213.36    121.92
RE DISCCART     213.36    137.16
RE DISCCART     213.36    152.40
RE DISCCART     213.36    167.64
RE DISCCART     213.36    182.88
RE DISCCART     213.36    198.12
RE DISCCART     213.36    213.36
```

```
RE DISCCART      213.36     221.29
RE DISCCART      198.12     221.29
RE DISCCART      182.88     221.29
RE DISCCART      167.64     221.29
RE DISCCART      152.40     221.29
RE DISCCART      137.16     221.29
RE DISCCART      121.92     221.29
RE DISCCART      106.68     221.29
RE DISCCART       91.44     221.29
RE DISCCART       76.20     221.29
RE DISCCART       60.96     221.29
RE DISCCART       45.72     221.29
RE DISCCART       30.48     221.29
RE DISCCART       15.24     221.29
RE DISCCART         .00     221.29
RE DISCCART         .00     213.36
RE DISCCART         .00     198.12
RE DISCCART         .00     182.88
RE DISCCART         .00     167.64
RE DISCCART         .00     152.40
RE DISCCART         .00     137.16
RE DISCCART         .00     121.92
RE DISCCART         .00     106.68
RE DISCCART         .00      91.44
RE DISCCART         .00      76.20
RE DISCCART         .00      60.96
RE DISCCART         .00      45.72
RE DISCCART         .00      30.48
RE DISCCART         .00      15.24
RE FINISHED

ME STARTING
ME INPUTFIL C:\modELS\iscst2\ORLTMP86.BIN    UNFORM
ME AMEMHGHT   10.000 METERS
ME SURFDATA  12815  1986            SURFNAME
ME UAIRDATA  12842  1986            UAIRNAME
ME WINDCATS    1.54    3.09    5.14    8.23   10.80
ME FINISHED

OU STARTING
OU RECTABLE 8 FIRST  SECOND
OU MAXTABLE 8 50
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 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 1 Short Term Average(s) of: 8-HR

**This Run Includes: 3 Source(s); 1 Source Group(s); and 706 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**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/CUBIC-METER)

**Input Runstream File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDI8.NEW ; **Output Print File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDI8.LST

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	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
1	0	0.17482E-01	175.9	119.8	0.0	38.10	299.82	24.38	0.70	YES	
2	0	0.28980E-03	141.4	162.8	0.0	12.50	299.82	1.03	0.76	YES	
3	0	0.28980E-03	141.4	166.4	0.0	12.50	299.82	1.03	0.76	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

OUP ID	SOURCE IDs
ALL	1 , 2 , 3 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

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	15.2,	84.7,	0	2	15.2,	91.2,	0	3	15.2,	95.0,	0	4	15.2,	96.0,	0	5	15.2,	95.8,	0	6	15.2,	93.5,	0
7	0.0,	0.0,	0	8	0.0,	0.0,	0	9	0.0,	0.0,	0	10	0.0,	0.0,	0	11	0.0,	0.0,	0	12	0.0,	0.0,	0
13	0.0,	0.0,	0	14	0.0,	0.0,	0	15	15.2,	93.8,	0	16	15.2,	90.7,	0	17	15.2,	83.9,	0	18	0.0,	0.0,	0
19	0.0,	0.0,	0	20	15.2,	91.2,	0	21	15.2,	95.0,	0	22	15.2,	96.0,	0	23	15.2,	95.8,	0	24	15.2,	93.5,	0
25	0.0,	0.0,	0	26	0.0,	0.0,	0	27	0.0,	0.0,	0	28	0.0,	0.0,	0	29	0.0,	0.0,	0	30	0.0,	0.0,	0
31	0.0,	0.0,	0	32	0.0,	0.0,	0	33	15.2,	93.8,	0	34	15.2,	90.7,	0	35	15.2,	83.9,	0	36	15.2,	75.6,	0

SOURCE ID: 2

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	12.2,	84.7,	0	2	12.2,	88.3,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	12.2,	88.3,	0	21	10.7,	196.5,	0	22	11.0,	24.8,	0	23	11.0,	24.7,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	125.1,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

SOURCE ID: 3

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	12.2,	84.7,	0	2	12.2,	87.6,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	10.7,	178.0,	0	21	10.7,	196.5,	0	22	10.7,	209.1,	0	23	11.0,	24.6,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	124.8,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

*** ORIGIN FOR POLAR NETWORK ***
X-ORIG = 106.68 ; Y-ORIG = 110.64 (METERS)

*** DISTANCE RANGES OF NETWORK ***
(METERS)

150.0, 200.0, 250.0, 300.0, 350.0, 400.0, 450.0, 500.0, 550.0, 600.0,
650.0, 700.0, 750.0, 800.0, 850.0, 900.0, 950.0, 1000.0,

*** DIRECTION RADIALS OF NETWORK ***
(DEGREES)

10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0,
110.0, 120.0, 130.0, 140.0, 150.0, 160.0, 170.0, 180.0, 190.0, 200.0,
210.0, 220.0, 230.0, 240.0, 250.0, 260.0, 270.0, 280.0, 290.0, 300.0,
310.0, 320.0, 330.0, 340.0, 350.0, 360.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(0.0,	0.0,	0.0,	0.0);	(15.2,	0.0,	0.0,	0.0);
(30.5,	0.0,	0.0,	0.0);	(45.7,	0.0,	0.0,	0.0);
(61.0,	0.0,	0.0,	0.0);	(76.2,	0.0,	0.0,	0.0);
(91.4,	0.0,	0.0,	0.0);	(106.7,	0.0,	0.0,	0.0);
(121.9,	0.0,	0.0,	0.0);	(137.2,	0.0,	0.0,	0.0);
(152.4,	0.0,	0.0,	0.0);	(167.6,	0.0,	0.0,	0.0);
(182.9,	0.0,	0.0,	0.0);	(198.1,	0.0,	0.0,	0.0);
(213.4,	0.0,	0.0,	0.0);	(213.4,	15.2,	0.0,	0.0);
(213.4,	30.5,	0.0,	0.0);	(213.4,	45.7,	0.0,	0.0);
(213.4,	61.0,	0.0,	0.0);	(213.4,	76.2,	0.0,	0.0);
(213.4,	91.4,	0.0,	0.0);	(213.4,	106.7,	0.0,	0.0);
(213.4,	121.9,	0.0,	0.0);	(213.4,	137.2,	0.0,	0.0);
(213.4,	152.4,	0.0,	0.0);	(213.4,	167.6,	0.0,	0.0);
(213.4,	182.9,	0.0,	0.0);	(213.4,	198.1,	0.0,	0.0);
(213.4,	213.4,	0.0,	0.0);	(213.4,	221.3,	0.0,	0.0);
(198.1,	221.3,	0.0,	0.0);	(182.9,	221.3,	0.0,	0.0);
(167.6,	221.3,	0.0,	0.0);	(152.4,	221.3,	0.0,	0.0);
(137.2,	221.3,	0.0,	0.0);	(121.9,	221.3,	0.0,	0.0);
(106.7,	221.3,	0.0,	0.0);	(91.4,	221.3,	0.0,	0.0);
(76.2,	221.3,	0.0,	0.0);	(61.0,	221.3,	0.0,	0.0);
(45.7,	221.3,	0.0,	0.0);	(30.5,	221.3,	0.0,	0.0);
(15.2,	221.3,	0.0,	0.0);	(0.0,	221.3,	0.0,	0.0);
(0.0,	213.4,	0.0,	0.0);	(0.0,	198.1,	0.0,	0.0);
(0.0,	182.9,	0.0,	0.0);	(0.0,	167.6,	0.0,	0.0);
(0.0,	152.4,	0.0,	0.0);	(0.0,	137.2,	0.0,	0.0);
(0.0,	121.9,	0.0,	0.0);	(0.0,	106.7,	0.0,	0.0);
(0.0,	91.4,	0.0,	0.0);	(0.0,	76.2,	0.0,	0.0);
(0.0,	61.0,	0.0,	0.0);	(0.0,	45.7,	0.0,	0.0);
(0.0,	30.5,	0.0,	0.0);	(0.0,	15.2,	0.0,	0.0);

*** MODELING OPTIONS USED: 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	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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: C:\modELS\iscst2\ORLTMP86.BIN FORMAT: UNFORM
SURFACE STATION NO.: 12815 UPPER AIR STATION NO.: 12842
NAME: SURFNAME NAME: UAIRNAME
YEAR: 1986 YEAR: 1986

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
86	1	1	1	1.0	3.60	289.3	4	639.0	639.0
86	1	1	2	168.0	5.14	288.7	4	639.0	639.0
86	1	1	3	124.0	3.09	288.2	4	639.0	639.0
86	1	1	4	353.0	2.57	288.2	4	639.0	639.0
86	1	1	5	333.0	2.57	288.7	4	639.0	639.0
86	1	1	6	332.0	2.57	288.7	4	639.0	639.0
86	1	1	7	335.0	3.09	288.7	4	639.0	639.0
86	1	1	8	3.0	3.60	289.3	4	639.0	639.0
86	1	1	9	347.0	3.60	289.8	4	639.0	639.0
86	1	1	10	1.0	5.14	292.0	4	639.0	639.0
86	1	1	11	14.0	4.63	292.6	4	639.0	639.0
86	1	1	12	16.0	4.12	294.3	4	639.0	639.0
86	1	1	13	73.0	3.09	295.4	4	639.0	639.0
86	1	1	14	49.0	3.60	297.0	4	639.0	639.0
86	1	1	15	142.0	2.06	296.5	4	639.0	639.0
86	1	1	16	144.0	2.06	295.9	4	639.0	639.0
86	1	1	17	261.0	2.06	295.4	4	639.0	639.0
86	1	1	18	257.0	2.06	292.6	4	644.0	644.0
86	1	1	19	274.0	3.60	291.5	4	655.0	655.0
86	1	1	20	227.0	3.09	290.9	4	666.0	666.0
86	1	1	21	230.0	3.09	290.9	4	678.0	678.0
86	1	1	22	252.0	2.57	290.4	5	689.0	477.0
86	1	1	23	290.0	2.06	290.4	4	700.0	700.0
86	1	1	24	290.0	1.00	290.4	4	712.0	712.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 150.00	200.00	250.00	300.00	350.00
10.0	0.22243 (86012608)	0.16027 (86071708)	0.13039c(86041208)	0.13979 (86071316)	0.14025 (86071316)
20.0	0.20008c(86061808)	0.14181c(86081824)	0.09442c(86081824)	0.09179 (86071316)	0.08633 (86071316)
30.0	0.21945c(86072008)	0.16324c(86072008)	0.12263c(86072008)	0.09739c(86072008)	0.08297 (86080416)
40.0	0.23625c(86071608)	0.13676c(86021808)	0.12363 (86100608)	0.10919 (86100608)	0.11000 (86080416)
50.0	0.20215 (86042824)	0.19556 (86040808)	0.14775 (86072508)	0.13549 (86072508)	0.11257 (86072508)
60.0	0.25190c(86100508)	0.15294c(86041608)	0.13226c(86030108)	0.08165c(86030108)	0.10608 (86100416)
70.0	0.20874c(86071908)	0.15042 (86090308)	0.12815 (86090308)	0.11115 (86040808)	0.10022 (86072016)
80.0	0.13394c(86122524)	0.13710c(86101508)	0.09254c(86071908)	0.09617c(86071908)	0.11671 (86091216)
90.0	0.13943c(86012524)	0.12551c(86122524)	0.07675c(86070624)	0.07173 (86071516)	0.08452 (86071916)
100.0	0.15367 (86102624)	0.14435 (86060608)	0.07914c(86101024)	0.07247c(86012524)	0.07311c(86071416)
110.0	0.20230c(86031124)	0.13936 (86102624)	0.08663 (86100524)	0.08049 (86091316)	0.10677 (86042916)
120.0	0.20630c(86090408)	0.10044 (86031708)	0.12375c(86031124)	0.10248 (86090216)	0.12147 (86090216)
130.0	0.15000c(86111308)	0.11231 (86041908)	0.12807c(86090408)	0.09972 (86042616)	0.12404 (86042616)
140.0	0.16636 (86032808)	0.14827 (86090808)	0.09125c(86011608)	0.09007c(86111308)	0.09080 (86042816)
150.0	0.18005 (86120408)	0.13670 (86032408)	0.10986 (86032808)	0.10618 (86101616)	0.13799 (86101616)
160.0	0.13474 (86021608)	0.09000 (86021608)	0.12173 (86120408)	0.11493 (86120408)	0.09841 (86110316)
170.0	0.14433 (86122208)	0.14454c(86090208)	0.11130c(86082316)	0.12130 (86110316)	0.13738 (86110316)
180.0	0.15159c(86011608)	0.15393c(86011608)	0.11795c(86011608)	0.12609c(86082316)	0.12081c(86082316)
190.0	0.13245 (86121408)	0.10222c(86090208)	0.10806c(86082316)	0.11285c(86082316)	0.10736c(86082316)
200.0	0.09574 (86020908)	0.11290c(86082316)	0.12455c(86082316)	0.12086c(86082316)	0.10886 (86120416)
210.0	0.16107 (86091808)	0.13736 (86091808)	0.14633c(86082316)	0.14486c(86082316)	0.13204c(86082316)
220.0	0.18950c(86090108)	0.16135c(86090108)	0.13905c(86090108)	0.14105c(86082316)	0.13370c(86082316)
230.0	0.17891 (86091908)	0.11681 (86091908)	0.10544 (86051116)	0.10832 (86051116)	0.10382 (86051116)
240.0	0.13201 (86091524)	0.10890 (86091524)	0.10574 (86062616)	0.10913 (86062616)	0.10544 (86062616)
250.0	0.14761 (86092724)	0.12008c(86080708)	0.11066 (86062616)	0.11627 (86062616)	0.12179 (86091516)
260.0	0.11184c(86060308)	0.11310c(86021708)	0.11286c(86102408)	0.11019 (86062616)	0.11165 (86062616)
270.0	0.16260c(86060308)	0.07412 (86051316)	0.08864 (86051316)	0.09415 (86051316)	0.09364 (86051316)
280.0	0.14889c(86050508)	0.12517c(86100108)	0.10293 (86043016)	0.10803 (86043016)	0.10980 (86070616)
290.0	0.15603 (86052808)	0.14602 (86112808)	0.10582 (86043016)	0.10732 (86062316)	0.11684 (86062316)
300.0	0.16086c(86110508)	0.10692 (86092624)	0.12951 (86040616)	0.14154 (86040616)	0.14229 (86040616)
310.0	0.12667 (86092924)	0.13348 (86040616)	0.15830 (86040616)	0.16247 (86040616)	0.15463 (86040616)
320.0	0.14183c(86120208)	0.14198c(86081224)	0.13067 (86052916)	0.13133 (86052916)	0.12055 (86052916)
330.0	0.16065 (86050708)	0.14424 (86050708)	0.11323 (86052916)	0.10158 (86052916)	0.11090 (86082516)
340.0	0.14063 (86050708)	0.09471 (86082516)	0.10911 (86082516)	0.11651 (86082516)	0.11630 (86082516)
350.0	0.16689 (86031208)	0.19411c(86020408)	0.11607c(86020408)	0.10910 (86082716)	0.12094 (86100916)
360.0	0.14550 (86121008)	0.12544 (86100408)	0.11629 (86071316)	0.13561 (86071316)	0.14048 (86071316)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 400.00	450.00	500.00	550.00	600.00
10.0	0.13069 (86071316)	0.11716 (86071316)	0.10267 (86071316)	0.08905 (86091116)	0.08436 (86080316)
20.0	0.09285 (86010216)	0.09605 (86010216)	0.09601 (86010216)	0.09348 (86010216)	0.08942 (86010216)
30.0	0.08980 (86080416)	0.09174 (86080416)	0.08985 (86080416)	0.08552 (86080416)	0.07984 (86080416)
40.0	0.11713 (86080416)	0.11475 (86080416)	0.10770 (86080416)	0.09813 (86080416)	0.08798 (86080416)
50.0	0.10987 (86072616)	0.10836 (86072616)	0.10468 (86100416)	0.10542 (86100416)	0.10299 (86100416)
60.0	0.13375 (86100416)	0.14933 (86100416)	0.15519 (86100416)	0.15369 (86100416)	0.14717 (86100416)
70.0	0.11294 (86072016)	0.12729 (86081816)	0.13759 (86081816)	0.14070 (86081816)	0.13864 (86081816)
80.0	0.12359 (86091216)	0.11959 (86091216)	0.11071 (86091216)	0.09953 (86091216)	0.08822 (86022616)
90.0	0.09695 (86071916)	0.10038 (86071916)	0.09858 (86071916)	0.09345 (86071916)	0.08664 (86071916)
100.0	0.08125c(86071416)	0.08390 (86071916)	0.08487 (86071916)	0.08244 (86071916)	0.07804 (86071916)
110.0	0.13621 (86042916)	0.15372 (86042916)	0.16120 (86042916)	0.16094 (86042916)	0.15581 (86042916)
120.0	0.12399 (86090216)	0.11767 (86090216)	0.11476 (86091316)	0.10961 (86052216)	0.10709 (86012816)
130.0	0.13147 (86042616)	0.12894 (86042616)	0.12138 (86042616)	0.11118 (86042616)	0.11271 (86012816)
140.0	0.09855 (86042816)	0.09875 (86042816)	0.09435 (86042816)	0.08728 (86042816)	0.08061 (86030516)
150.0	0.16069 (86101616)	0.17285 (86101616)	0.17565 (86101616)	0.17174 (86101616)	0.16377 (86101616)
160.0	0.09119 (86110316)	0.09291 (86101616)	0.09850 (86101616)	0.10114 (86101616)	0.10162 (86101616)
170.0	0.14256 (86110316)	0.14035 (86110316)	0.13280 (86110316)	0.12270 (86110316)	0.11180 (86110316)
180.0	0.11295 (86110316)	0.12011 (86110316)	0.12203 (86110316)	0.12036 (86110316)	0.11641 (86110316)
190.0	0.09723c(86082316)	0.08501 (86102116)	0.08268 (86102116)	0.07866 (86102116)	0.07387 (86102116)
200.0	0.12067 (86120416)	0.12557 (86120416)	0.12534 (86120416)	0.12176 (86120416)	0.11622 (86120416)
210.0	0.11567c(86082316)	0.10536 (86111316)	0.10009 (86111316)	0.09384 (86111316)	0.08730 (86111316)
220.0	0.12182c(86082316)	0.10779c(86082316)	0.10777 (86060516)	0.10694 (86060516)	0.10437 (86060516)
230.0	0.09623 (86051116)	0.08885 (86091616)	0.08143 (86091616)	0.07653 (86102216)	0.07754 (86102216)
240.0	0.09868 (86062616)	0.09502 (86091616)	0.09097 (86091616)	0.09087 (86033116)	0.09110 (86033116)
250.0	0.12666 (86091516)	0.12633 (86091516)	0.12272 (86091516)	0.11723 (86091516)	0.11081 (86091516)
260.0	0.10867 (86062616)	0.10289 (86062616)	0.09580 (86062616)	0.08838 (86062616)	0.08113 (86062616)
270.0	0.08931 (86051316)	0.08685c(86082616)	0.08307c(86082616)	0.07850c(86082616)	0.07366c(86082616)
280.0	0.10950 (86062316)	0.10835 (86062316)	0.10527 (86062316)	0.10114 (86062316)	0.09652 (86062316)
290.0	0.12132 (86062316)	0.12227 (86062316)	0.12082 (86062316)	0.11786 (86062316)	0.11395 (86062316)
300.0	0.13655 (86040616)	0.12721 (86040616)	0.11649 (86040616)	0.10574 (86040616)	0.09561 (86040616)
310.0	0.14170 (86040616)	0.12681 (86040616)	0.11213 (86040616)	0.10036 (86100316)	0.09430 (86100316)
320.0	0.12506 (86112516)	0.12394 (86112516)	0.11884 (86112516)	0.11167 (86112516)	0.10366 (86112516)
330.0	0.11710 (86082516)	0.11813 (86082516)	0.11567 (86082516)	0.11085 (86082516)	0.10471 (86082516)
340.0	0.11067 (86082516)	0.10154 (86082516)	0.10725 (86031216)	0.11338 (86031216)	0.11627 (86031216)
350.0	0.12914 (86100916)	0.13043 (86100916)	0.12675 (86100916)	0.12013 (86100916)	0.11215 (86100916)
360.0	0.13541 (86071316)	0.12530 (86071316)	0.12019 (86112616)	0.12475 (86112616)	0.12649 (86112616)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 650.00	700.00	750.00	800.00	850.00
10.0	0.07936 (86080316)	0.07416 (86080316)	0.06901 (86080316)	0.06407 (86080316)	0.06440 (86073008)
20.0	0.08816 (86072316)	0.08808 (86072316)	0.08677 (86072316)	0.08459 (86072316)	0.08196 (86072316)
30.0	0.07718 (86062916)	0.07482 (86062916)	0.07176 (86062916)	0.06832 (86062916)	0.06616 (86021116)
40.0	0.07829 (86080416)	0.06947 (86080416)	0.06281 (86030416)	0.06251 (86030416)	0.06147 (86030416)
50.0	0.09865 (86100416)	0.09330 (86100416)	0.08755 (86100416)	0.08176 (86100416)	0.07614 (86100416)
60.0	0.13811 (86100416)	0.12807 (86100416)	0.11797 (86100416)	0.10828 (86100416)	0.09925 (86100416)
70.0	0.13346 (86081816)	0.12660 (86081816)	0.11900 (86081816)	0.11125 (86081816)	0.10367 (86081816)
80.0	0.08209 (86022616)	0.07571 (86022616)	0.06952 (86022616)	0.06372 (86022616)	0.06254 (86020716)
90.0	0.07936 (86071916)	0.07224 (86071916)	0.06560 (86071916)	0.05954 (86071916)	0.05409 (86071916)
100.0	0.07276 (86071916)	0.06726 (86071916)	0.06189 (86071916)	0.05683 (86071916)	0.05305 (86090616)
110.0	0.14802 (86042916)	0.13900 (86042916)	0.12962 (86042916)	0.12040 (86042916)	0.11161 (86042916)
120.0	0.10329 (86012816)	0.09883 (86012816)	0.09413 (86012816)	0.08998 (86022016)	0.08771 (86022016)
130.0	0.11192 (86012816)	0.10895 (86012816)	0.10466 (86012816)	0.09966 (86012816)	0.09435 (86012816)
140.0	0.07552 (86030516)	0.06996 (86030516)	0.06438 (86030516)	0.05903 (86030516)	0.05409 (86032116)
150.0	0.15364 (86101616)	0.14264 (86101616)	0.13156 (86101616)	0.12093 (86101616)	0.11086 (86101616)
160.0	0.10056 (86101616)	0.09845 (86101616)	0.09567 (86101616)	0.10099 (86111508)	0.10743 (86111508)
170.0	0.10107 (86110316)	0.10010 (86012408)	0.10574 (86012408)	0.11007 (86012408)	0.11174 (86012408)
180.0	0.11116 (86110316)	0.10525 (86110316)	0.09911 (86110316)	0.09302 (86110316)	0.08712 (86110316)
190.0	0.06886 (86102116)	0.06395 (86102116)	0.05931 (86102116)	0.05754 (86111324)	0.05647 (86111324)
200.0	0.10969 (86120416)	0.10278 (86120416)	0.09589 (86120416)	0.08924 (86120416)	0.08492 (86020908)
210.0	0.08083 (86111316)	0.07467 (86111316)	0.07297 (86032716)	0.07243 (86032716)	0.07130 (86032716)
220.0	0.10069 (86060516)	0.09634 (86060516)	0.09169 (86060516)	0.08693 (86060516)	0.08216 (86060516)
230.0	0.07787 (86102216)	0.07761 (86102216)	0.07857 (86050924)	0.08137 (86050924)	0.08308 (86050924)
240.0	0.09685 (86111416)	0.10186 (86111416)	0.10528 (86111416)	0.10772 (86111416)	0.10852 (86111416)
250.0	0.10406 (86091516)	0.09733 (86091516)	0.09085 (86091516)	0.08472 (86091516)	0.07900 (86091516)
260.0	0.07670 (86121416)	0.07651 (86091016)	0.07654 (86091016)	0.07684 (86091016)	0.07607 (86091016)
270.0	0.07619 (86031008)	0.08120 (86031008)	0.08507 (86031008)	0.08843 (86031008)	0.09034 (86031008)
280.0	0.09324 (86040416)	0.09321 (86040416)	0.09234 (86040416)	0.09132 (86040416)	0.08924 (86040416)
290.0	0.10949 (86062316)	0.10475 (86062316)	0.09990 (86062316)	0.09508 (86062316)	0.09057 (86062316)
300.0	0.09145 (86030924)	0.09424 (86030924)	0.09554 (86030924)	0.09564 (86030924)	0.09541 (86030924)
310.0	0.08789 (86100316)	0.08151 (86100316)	0.07649 (86122316)	0.07685 (86122316)	0.07654 (86122316)
320.0	0.09555 (86112516)	0.08774 (86112516)	0.08044 (86112516)	0.07373 (86112516)	0.06762 (86112516)
330.0	0.09799 (86082516)	0.09114 (86082516)	0.08447 (86082516)	0.07814 (86082516)	0.07222 (86082516)
340.0	0.11672 (86031216)	0.11538 (86031216)	0.11280 (86031216)	0.10953 (86031216)	0.10556 (86031216)
350.0	0.10382 (86100916)	0.09569 (86100916)	0.08807 (86100916)	0.08107 (86100916)	0.07478 (86100916)
360.0	0.12604 (86112616)	0.12397 (86112616)	0.12076 (86112616)	0.11676 (86112616)	0.11255 (86112616)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 900.00	950.00	1000.00
10.0	0.06457 (86113016)	0.06553 (86113016)	0.06584 (86113016)
20.0	0.07885 (86072316)	0.07557 (86072316)	0.07425 (86031108)
30.0	0.06596 (86021116)	0.06510 (86021116)	0.06389 (86021116)
40.0	0.06000 (86030416)	0.05805 (86030416)	0.05789 (86021024)
50.0	0.07307 (86112016)	0.07130 (86112016)	0.06918 (86112016)
60.0	0.09263 (86031116)	0.09010 (86031116)	0.08736 (86031116)
70.0	0.09646 (86081816)	0.08971 (86081816)	0.08345 (86081816)
80.0	0.06480 (86020716)	0.06622 (86020716)	0.06744 (86020716)
90.0	0.05260c(86022116)	0.05261c(86022116)	0.05236c(86022116)
100.0	0.05417 (86090616)	0.05475 (86090616)	0.05494 (86090616)
110.0	0.10341 (86042916)	0.09582 (86042916)	0.08886 (86042916)
120.0	0.08494 (86022016)	0.08208 (86022016)	0.07916 (86022016)
130.0	0.08899 (86012816)	0.08375 (86012816)	0.08416 (86102624)
140.0	0.05207 (86032116)	0.05387 (86012508)	0.05632 (86012508)
150.0	0.10156 (86101616)	0.09304 (86101616)	0.08531 (86101616)
160.0	0.11264 (86111508)	0.11660 (86111508)	0.11939 (86111508)
170.0	0.11196 (86012408)	0.11097 (86012408)	0.10904 (86012408)
180.0	0.08152 (86110316)	0.07995 (86110216)	0.08134 (86110216)
190.0	0.05574c(86010208)	0.05885c(86010208)	0.06102c(86010208)
200.0	0.08775 (86020908)	0.08963 (86020908)	0.08984 (86020908)
210.0	0.06991 (86032716)	0.06831 (86032716)	0.06611 (86032716)
220.0	0.07752 (86060516)	0.07307 (86060516)	0.07089 (86010816)
230.0	0.08403 (86050924)	0.08418 (86050924)	0.08330 (86050924)
240.0	0.10842 (86111416)	0.10736 (86111416)	0.10533 (86111416)
250.0	0.07370 (86091516)	0.06881 (86091516)	0.06525c(86020724)
260.0	0.07510 (86091016)	0.07369 (86091016)	0.07179 (86091016)
270.0	0.09155 (86031008)	0.09181 (86031008)	0.09110 (86031008)
280.0	0.08685 (86040416)	0.08410 (86040416)	0.08097 (86040416)
290.0	0.08599 (86062316)	0.08156 (86062316)	0.07717 (86062316)
300.0	0.09377 (86030924)	0.09160 (86030924)	0.08855 (86030924)
310.0	0.07538 (86122316)	0.07383 (86122316)	0.07147 (86122316)
320.0	0.06210 (86112516)	0.05712 (86112516)	0.05402 (86110616)
330.0	0.06676 (86082516)	0.06181 (86031308)	0.06362 (86031208)
340.0	0.10129 (86031216)	0.09690 (86031216)	0.09243 (86031216)
350.0	0.07495 (86052008)	0.07448 (86052008)	0.07453 (86061624)
360.0	0.10777 (86112616)	0.10291 (86112616)	0.09805 (86112616)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	0.21329	(86091908)	15.24	0.00	0.18996c	(86090108)
30.48	0.00	0.12733c	(86090108)	45.72	0.00	0.20776	(86091808)
60.96	0.00	0.13814c	(86020108)	76.20	0.00	0.13234	(86091708)
91.44	0.00	0.15818	(86121408)	106.68	0.00	0.13769	(86060524)
121.92	0.00	0.21851c	(86011608)	137.16	0.00	0.20422	(86122208)
152.40	0.00	0.15148	(86012408)	167.64	0.00	0.16729	(86120408)
182.88	0.00	0.22097	(86032408)	198.12	0.00	0.18065	(86032808)
213.36	0.00	0.19322	(86090808)	213.36	15.24	0.15092	(86062608)
213.36	30.48	0.17086c	(86111308)	213.36	45.72	0.19673c	(86111308)
213.36	60.96	0.23567c	(86041408)	213.36	76.20	0.16224c	(86090408)
213.36	91.44	0.27136c	(86031124)	213.36	106.68	0.28134	(86102624)
213.36	121.92	0.27821	(86060608)	213.36	137.16	0.23556c	(86012524)
213.36	152.40	0.19908c	(86101508)	213.36	167.64	0.28253c	(86101108)
213.36	182.88	0.31579c	(86100508)	213.36	198.12	0.18158	(86120224)
213.36	213.36	0.28075	(86072508)	213.36	221.29	0.24429	(86072508)
198.12	221.29	0.23913c	(86071608)	182.88	221.29	0.20568c	(86082508)
167.64	221.29	0.26836c	(86082508)	152.40	221.29	0.25970c	(86081824)
137.16	221.29	0.31468	(86012608)	121.92	221.29	0.21545	(86121008)
106.68	221.29	0.24831	(86031208)	91.44	221.29	0.15822	(86031908)
76.20	221.29	0.28161	(86050708)	60.96	221.29	0.22547	(86050708)
45.72	221.29	0.22299c	(86081224)	30.48	221.29	0.17618c	(86120208)
15.24	221.29	0.13924c	(86120208)	0.00	221.29	0.11061	(86080924)
0.00	213.36	0.13680c	(86100324)	0.00	198.12	0.15725	(86092924)
0.00	182.88	0.18367c	(86110508)	0.00	167.64	0.20693	(86112808)
0.00	152.40	0.19605c	(86100108)	0.00	137.16	0.13477c	(86050508)
0.00	121.92	0.21523c	(86060308)	0.00	106.68	0.17226c	(86021708)
0.00	91.44	0.14078c	(86080708)	0.00	76.20	0.16022c	(86092908)
0.00	60.96	0.14339	(86091524)	0.00	45.72	0.13282	(86091524)
0.00	30.48	0.14484c	(86100208)	0.00	15.24	0.22442	(86091908)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 150.00	200.00	250.00	300.00	350.00
10.0	0.16966c(86071508)	0.14052c(86041208)	0.12332 (86071316)	0.11064 (86091116)	0.11990 (86091116)
20.0	0.19723c(86081824)	0.12854c(86061808)	0.09006 (86091308)	0.07674 (86060816)	0.08572 (86010216)
30.0	0.20840c(86121124)	0.13425c(86121124)	0.10600c(86100508)	0.09047c(86100508)	0.08038c(86072008)
40.0	0.22433c(86090708)	0.12986 (86100608)	0.11487c(86100508)	0.09592c(86100508)	0.09504 (86100608)
50.0	0.20144 (86022008)	0.15246 (86111808)	0.13448 (86040808)	0.08966c(86071908)	0.10238 (86072616)
60.0	0.20129 (86040808)	0.11228 (86030624)	0.11607 (86030624)	0.07620c(86060908)	0.08755 (86072016)
70.0	0.14720 (86071408)	0.12809c(86092808)	0.09034 (86020716)	0.09461 (86090308)	0.09251c(86100508)
80.0	0.12854c(86070624)	0.12496 (86042508)	0.08883 (86081524)	0.09585 (86091216)	0.08652c(86071908)
90.0	0.13272c(86101024)	0.10533 (86011308)	0.07507c(86122524)	0.06240 (86071916)	0.08257 (86071516)
100.0	0.14632c(86101508)	0.12633c(86012308)	0.07484c(86012524)	0.07079c(86101424)	0.07199 (86050816)
110.0	0.13258 (86102624)	0.10331c(86012308)	0.08096 (86102624)	0.07714 (86052216)	0.09469 (86052216)
120.0	0.15721c(86041408)	0.09769 (86041808)	0.07812 (86102624)	0.09587 (86042616)	0.10793 (86042616)
130.0	0.13487c(86011608)	0.10793 (86021408)	0.10627c(86041408)	0.08333c(86090408)	0.09149 (86042816)
140.0	0.14026 (86101708)	0.11988 (86062608)	0.08614 (86011408)	0.07152 (86042816)	0.07907c(86111308)
150.0	0.17614c(86041408)	0.12645c(86041408)	0.07935c(86092408)	0.09067 (86032808)	0.07902 (86101516)
160.0	0.12025 (86012408)	0.08653 (86033008)	0.08148 (86110316)	0.09699 (86110316)	0.08908c(86041408)
170.0	0.12111c(86090208)	0.13935 (86122208)	0.09791 (86122208)	0.11616c(86082316)	0.10567c(86082316)
180.0	0.11966c(86092308)	0.14012c(86092308)	0.11507c(86082316)	0.09120c(86011608)	0.09985 (86110316)
190.0	0.11594 (86111008)	0.09770c(86092208)	0.09087c(86090208)	0.08731 (86092716)	0.09092 (86120416)
200.0	0.09193c(86020108)	0.07358 (86102824)	0.08211 (86111316)	0.09065 (86111316)	0.10872c(86082316)
210.0	0.13988 (86051408)	0.12837c(86082316)	0.11930 (86091808)	0.10522 (86091808)	0.10825 (86111316)
220.0	0.14202 (86091908)	0.12535 (86091908)	0.13690c(86082316)	0.12147c(86090108)	0.10745c(86090108)
230.0	0.12635c(86090108)	0.10501c(86100208)	0.09976c(86100208)	0.10390 (86062616)	0.10074 (86062616)
240.0	0.12537c(86051708)	0.09118 (86062616)	0.09082 (86091524)	0.09379 (86091616)	0.09726 (86091616)
250.0	0.13939c(86092908)	0.10548 (86092724)	0.08907 (86091516)	0.10971 (86091516)	0.11427 (86062616)
260.0	0.11108c(86021708)	0.09746c(86060308)	0.10184 (86062616)	0.09487c(86060308)	0.08683 (86121416)
270.0	0.14405c(86042008)	0.07139 (86091016)	0.07707 (86092216)	0.08569 (86092216)	0.08882c(86082616)
280.0	0.11210 (86081108)	0.10536 (86112324)	0.10194c(86100108)	0.10482 (86070616)	0.10756 (86062316)
290.0	0.14534 (86092624)	0.11241c(86021708)	0.09847c(86110508)	0.09718 (86043016)	0.10309c(86090516)
300.0	0.13093 (86052724)	0.10250 (86092924)	0.10348 (86093016)	0.11245 (86093016)	0.11364 (86093016)
310.0	0.11657c(86092508)	0.10835 (86093016)	0.12981 (86093016)	0.13742 (86093016)	0.13390 (86093016)
320.0	0.12682 (86092424)	0.12001 (86040616)	0.11792 (86040616)	0.11637 (86081016)	0.11974 (86112516)
330.0	0.13409 (86112524)	0.11514 (86052916)	0.08776 (86051816)	0.09935 (86082516)	0.09991 (86080816)
340.0	0.13136c(86041308)	0.09101 (86080816)	0.09685 (86080816)	0.10118 (86080816)	0.10720 (86082716)
350.0	0.13757 (86062008)	0.09817c(86020808)	0.10285 (86082716)	0.10534 (86100916)	0.11140 (86031216)
360.0	0.14533c(86020408)	0.10377 (86061624)	0.09597 (86061416)	0.10562 (86100916)	0.10665 (86100916)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 400.00	450.00	500.00	550.00	600.00
10.0	0.11856 (86091116)	0.11095 (86091116)	0.10042 (86091116)	0.08879 (86080316)	0.08196 (86110516)
20.0	0.08678 (86101416)	0.08894 (86101416)	0.08699 (86101416)	0.08287 (86072316)	0.08657 (86072316)
30.0	0.07368 (86061716)	0.07809 (86061716)	0.07826 (86061716)	0.07776 (86062916)	0.07837 (86062916)
40.0	0.08863 (86072616)	0.08827 (86072616)	0.08434 (86072616)	0.07858 (86072616)	0.07414 (86070208)
50.0	0.09144 (86100416)	0.10021 (86100416)	0.10229 (86072616)	0.09394 (86072616)	0.08488 (86072616)
60.0	0.09290 (86072016)	0.09554 (86070116)	0.10213 (86070116)	0.10503 (86070116)	0.10511 (86070116)
70.0	0.10872 (86081816)	0.11569 (86072016)	0.11284 (86072016)	0.10669 (86072016)	0.09897 (86072016)
80.0	0.08675 (86022616)	0.09435 (86022616)	0.09596 (86022616)	0.09331 (86022616)	0.08784 (86091216)
90.0	0.08366 (86091216)	0.08775 (86091216)	0.08689 (86091216)	0.08260 (86091216)	0.07650 (86091216)
100.0	0.07822 (86071916)	0.08002c(86071416)	0.07438c(86071416)	0.06892 (86042916)	0.06423 (86030516)
110.0	0.10130 (86042816)	0.09970 (86042816)	0.09415 (86042816)	0.09639 (86012316)	0.09609 (86012316)
120.0	0.11393 (86091316)	0.11716 (86091316)	0.11328 (86042816)	0.10949 (86012816)	0.10385 (86052216)
130.0	0.09617 (86042816)	0.09426 (86042816)	0.10284 (86012816)	0.11016 (86012816)	0.10046 (86042616)
140.0	0.07502 (86030516)	0.08326 (86030516)	0.08590 (86030516)	0.08447 (86030516)	0.07932 (86042816)
150.0	0.08918 (86101516)	0.09242 (86101516)	0.09038 (86101516)	0.08510 (86101516)	0.07835 (86101516)
160.0	0.08476c(86041408)	0.08122 (86110316)	0.07784 (86101516)	0.07976 (86101516)	0.07965 (86101516)
170.0	0.10077 (86110416)	0.09422 (86110416)	0.08551 (86011216)	0.08004 (86011216)	0.08298 (86012408)
180.0	0.10822c(86082316)	0.09829 (86110416)	0.09950 (86110416)	0.09773 (86110416)	0.09411 (86110416)
190.0	0.09016 (86120416)	0.08495c(86082316)	0.07645 (86120416)	0.06804 (86120416)	0.06005 (86120416)
200.0	0.09678 (86092716)	0.09358 (86092716)	0.08787 (86092716)	0.08125 (86102016)	0.07947 (86102016)
210.0	0.10859 (86111316)	0.09881c(86082316)	0.09140 (86042416)	0.08770 (86042416)	0.08297 (86042416)
220.0	0.10078 (86060516)	0.10605 (86060516)	0.09353c(86082316)	0.09339 (86112116)	0.09254 (86112116)
230.0	0.09516 (86091616)	0.08714 (86051116)	0.07802 (86051116)	0.07390 (86091616)	0.07019 (86112116)
240.0	0.09738 (86091616)	0.09013 (86062616)	0.08929 (86033116)	0.08618 (86091616)	0.09001 (86111416)
250.0	0.10837 (86062616)	0.10011 (86062616)	0.09115 (86062616)	0.08274 (86091716)	0.08057 (86091716)
260.0	0.08960 (86121416)	0.08949 (86121416)	0.08752 (86121416)	0.08443 (86121416)	0.08071 (86121416)
270.0	0.08911c(86082616)	0.08487 (86092216)	0.08078 (86092216)	0.07621 (86092216)	0.07155 (86092216)
280.0	0.10921 (86070616)	0.10499 (86070616)	0.09875 (86070616)	0.09170 (86070616)	0.09218 (86040416)
290.0	0.10682c(86090516)	0.10574c(86090516)	0.10163c(86090516)	0.09592c(86090516)	0.08951c(86090516)
300.0	0.11040 (86093016)	0.10423 (86093016)	0.09665 (86093016)	0.08871 (86093016)	0.08692 (86030924)
310.0	0.12491 (86093016)	0.11322 (86093016)	0.10541 (86100316)	0.09866 (86040616)	0.08676 (86040616)
320.0	0.10538 (86052916)	0.09453 (86052816)	0.08675 (86052816)	0.08231 (86081116)	0.07806 (86081116)
330.0	0.09926 (86080816)	0.09466 (86080816)	0.08826 (86080816)	0.08054 (86080816)	0.07355 (86081116)
340.0	0.10697 (86082716)	0.10106 (86082716)	0.09275 (86082716)	0.08524 (86100916)	0.08314 (86100916)
350.0	0.11670 (86031216)	0.11478 (86031216)	0.10848 (86031216)	0.10026 (86031216)	0.09167 (86031216)
360.0	0.10902 (86091116)	0.11215 (86112616)	0.11326 (86071316)	0.10951 (86102516)	0.10766 (86102516)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 650.00	700.00	750.00	800.00	850.00
10.0	0.07627 (86110616)	0.07082 (86110616)	0.06542 (86110616)	0.06363 (86073008)	0.06290 (86113016)
20.0	0.08456 (86010216)	0.07936 (86010216)	0.07501 (86112916)	0.07353 (86112916)	0.07427 (86031108)
30.0	0.07366 (86080416)	0.06756 (86080416)	0.06474 (86021116)	0.06578 (86021116)	0.06474 (86062916)
40.0	0.07045 (86070208)	0.06654 (86070208)	0.06259 (86070208)	0.05874 (86070208)	0.05509 (86070208)
50.0	0.07851 (86073116)	0.07418 (86073116)	0.07420 (86112016)	0.07470 (86112016)	0.07420 (86112016)
60.0	0.10334 (86070116)	0.10042 (86070116)	0.09721 (86031116)	0.09625 (86031116)	0.09459 (86031116)
70.0	0.09089 (86072016)	0.08306 (86072016)	0.07639 (86031116)	0.07271 (86031116)	0.06884 (86031116)
80.0	0.07675 (86091216)	0.06710 (86091216)	0.05885 (86091216)	0.06065 (86020716)	0.05839 (86022616)
90.0	0.06954 (86091216)	0.06282 (86091216)	0.05663 (86091216)	0.05271 (86041616)	0.05202c(86022116)
100.0	0.05964 (86030516)	0.05495 (86030516)	0.05081 (86060616)	0.05124 (86090616)	0.05216 (86071916)
110.0	0.09358 (86012316)	0.08976 (86012316)	0.08524 (86012316)	0.08043 (86012316)	0.07560 (86012316)
120.0	0.09696 (86052216)	0.09395 (86022016)	0.09220 (86022016)	0.08942 (86012816)	0.08491 (86012816)
130.0	0.09023 (86042616)	0.09003 (86121716)	0.08998 (86121716)	0.08889 (86121716)	0.08725 (86121716)
140.0	0.07143 (86042816)	0.06408 (86042816)	0.05889c(86072416)	0.05581 (86032116)	0.05405 (86030516)
150.0	0.07120 (86101516)	0.06695 (86032108)	0.07025 (86032108)	0.07280 (86032108)	0.07389 (86032108)
160.0	0.07808 (86101516)	0.08322 (86111508)	0.09216 (86111508)	0.09252 (86101616)	0.09311 (86101608)
170.0	0.09241 (86012408)	0.09102 (86110316)	0.08186 (86110316)	0.07535 (86120508)	0.07769 (86120508)
180.0	0.08943 (86110416)	0.08427 (86110416)	0.07912 (86122616)	0.07769 (86122616)	0.07550 (86032216)
190.0	0.05575 (86111324)	0.05735 (86111324)	0.05779 (86111324)	0.05504 (86102116)	0.05410 (86122616)
200.0	0.07690 (86102016)	0.07390 (86102016)	0.07571 (86020908)	0.08108 (86020908)	0.08296 (86120416)
210.0	0.07781 (86042416)	0.07373 (86120416)	0.07034 (86120416)	0.06682 (86120416)	0.06566 (86010716)
220.0	0.09059 (86112116)	0.08788 (86112116)	0.08469 (86112116)	0.08130 (86112116)	0.07770 (86112116)
230.0	0.06961 (86050924)	0.07448 (86050924)	0.07708 (86102216)	0.07590 (86102216)	0.07439 (86102216)
240.0	0.09028 (86033116)	0.08870 (86033116)	0.08658 (86033116)	0.08459 (86102908)	0.08793 (86102908)
250.0	0.07783 (86091716)	0.07477 (86091716)	0.07154 (86091716)	0.06838 (86091716)	0.06512 (86091716)
260.0	0.07605 (86091016)	0.07261 (86121416)	0.06857 (86121416)	0.06700 (86122308)	0.06818 (86122308)
270.0	0.07029c(86020824)	0.07170 (86122224)	0.07426 (86122224)	0.07661 (86122224)	0.07747 (86122224)
280.0	0.09173 (86062316)	0.08696 (86062316)	0.08232 (86062316)	0.07788 (86062316)	0.07370 (86062316)
290.0	0.08297c(86090516)	0.07662c(86090516)	0.07062c(86090516)	0.06507c(86090516)	0.06445 (86120816)
300.0	0.08637 (86040616)	0.07807 (86040616)	0.07070 (86040616)	0.06708 (86030916)	0.06741 (86122316)
310.0	0.07808 (86030916)	0.07558 (86030916)	0.07539 (86100316)	0.06965 (86100316)	0.06640 (86030916)
320.0	0.07337 (86081116)	0.06860 (86081116)	0.06394 (86081116)	0.05951 (86081116)	0.05675 (86110616)
330.0	0.06950 (86081116)	0.06528 (86081116)	0.06328 (86031308)	0.06371 (86031308)	0.06337 (86031308)
340.0	0.08005 (86100916)	0.07962 (86070516)	0.08071 (86070516)	0.08110 (86070516)	0.08042 (86070516)
350.0	0.08351 (86031216)	0.07611 (86031216)	0.07112 (86052008)	0.07340 (86052008)	0.07476 (86052008)
360.0	0.10365 (86102516)	0.09842 (86102516)	0.09259 (86102516)	0.08661 (86102516)	0.08175 (86110516)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 900.00	950.00	1000.00
10.0	0.06404 (86073008)	0.06313 (86073008)	0.06180 (86073008)
20.0	0.07475 (86031108)	0.07471 (86031108)	0.07223 (86072316)
30.0	0.06116 (86062916)	0.05767 (86062916)	0.05432 (86062916)
40.0	0.05645 (86021024)	0.05741 (86021024)	0.05588 (86030416)
50.0	0.07082 (86100416)	0.06586 (86100416)	0.06446 (86122008)
60.0	0.09096 (86100416)	0.08344 (86100416)	0.07679 (86070116)
70.0	0.06495 (86031116)	0.06114 (86031116)	0.06069 (86122424)
80.0	0.05657 (86122516)	0.05752 (86122516)	0.05813 (86122516)
90.0	0.05129 (86070316)	0.05073 (86070316)	0.05122c(86071908)
100.0	0.04790 (86071916)	0.04719 (86022208)	0.05010 (86022208)
110.0	0.07089 (86012316)	0.06639 (86012316)	0.06216 (86012316)
120.0	0.08052 (86012816)	0.07637 (86012816)	0.07245 (86012816)
130.0	0.08487 (86121716)	0.08216 (86121716)	0.07924 (86121716)
140.0	0.05089 (86012508)	0.05198 (86010116)	0.05430 (86010116)
150.0	0.07399 (86032108)	0.07341 (86032108)	0.07226 (86032108)
160.0	0.09592 (86101608)	0.09781 (86101608)	0.09888 (86101608)
170.0	0.07907 (86120508)	0.07962 (86120508)	0.07946 (86120508)
180.0	0.07760 (86110216)	0.07626 (86110316)	0.07586 (86122808)
190.0	0.05560 (86122616)	0.05664 (86122616)	0.05709 (86122616)
200.0	0.07710 (86120416)	0.07168 (86120416)	0.06670 (86120416)
210.0	0.06632 (86010716)	0.06631 (86010716)	0.06516 (86010716)
220.0	0.07407 (86112116)	0.07171 (86010816)	0.06868 (86060516)
230.0	0.07480 (86092008)	0.07693 (86092008)	0.07817 (86092008)
240.0	0.09065 (86102908)	0.09241 (86102908)	0.09286 (86102908)
250.0	0.06584c(86020724)	0.06592c(86020724)	0.06431 (86091516)
260.0	0.06879 (86122308)	0.06863 (86122308)	0.06780 (86122308)
270.0	0.07776 (86122224)	0.07727 (86122224)	0.07601 (86122224)
280.0	0.06973 (86062316)	0.06693 (86091016)	0.06491 (86091016)
290.0	0.06322 (86120816)	0.06165 (86120816)	0.05968 (86120816)
300.0	0.06859 (86122316)	0.06915 (86122316)	0.06983c(86120208)
310.0	0.06374 (86122324)	0.06378 (86122324)	0.06286 (86122324)
320.0	0.05606 (86110616)	0.05525 (86110616)	0.05264 (86112516)
330.0	0.06271 (86031308)	0.06174 (86082516)	0.06050 (86031308)
340.0	0.07915 (86070516)	0.07746 (86070516)	0.07533 (86070516)
350.0	0.07188 (86061624)	0.07350 (86061624)	0.07340 (86052008)
360.0	0.07710 (86110516)	0.07258 (86110516)	0.07081 (86012608)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	0.17491c	(86090108)	15.24	0.00	0.14330c	(86083008)
30.48	0.00	0.12390c	(86051808)	45.72	0.00	0.18048	(86051408)
60.96	0.00	0.13151	(86051408)	76.20	0.00	0.12125	(86111108)
91.44	0.00	0.13690	(86111008)	106.68	0.00	0.11127c	(86020208)
121.92	0.00	0.21092c	(86092308)	137.16	0.00	0.18946c	(86090208)
152.40	0.00	0.13475	(86021608)	167.64	0.00	0.13660	(86033008)
182.88	0.00	0.21414c	(86041408)	198.12	0.00	0.13373	(86111508)
213.36	0.00	0.13759	(86062608)	213.36	15.24	0.14814	(86090808)
213.36	30.48	0.14666c	(86011608)	213.36	45.72	0.16608	(86041908)
213.36	60.96	0.19107c	(86090408)	213.36	76.20	0.15887	(86031708)
213.36	91.44	0.16733	(86031708)	213.36	106.68	0.20817c	(86101508)
213.36	121.92	0.24649c	(86012308)	213.36	137.16	0.22109	(86011308)
213.36	152.40	0.16935	(86012108)	213.36	167.64	0.25824c	(86071908)
213.36	182.88	0.23934c	(86041608)	213.36	198.12	0.18122c	(86060808)
213.36	213.36	0.26135	(86040808)	213.36	221.29	0.19209c	(86061408)
198.12	221.29	0.22060c	(86090708)	182.88	221.29	0.20538c	(86071908)
167.64	221.29	0.25651c	(86121124)	152.40	221.29	0.25892c	(86061808)
137.16	221.29	0.25898c	(86071508)	121.92	221.29	0.19857c	(86020408)
106.68	221.29	0.20993c	(86020408)	91.44	221.29	0.12852	(86110616)
76.20	221.29	0.18755	(86031908)	60.96	221.29	0.17141	(86112524)
45.72	221.29	0.17407c	(86120208)	30.48	221.29	0.14688	(86092424)
15.24	221.29	0.13625c	(86051808)	0.00	221.29	0.10776c	(86100808)
0.00	213.36	0.12868	(86081024)	0.00	198.12	0.15227	(86092624)
0.00	182.88	0.15071	(86052724)	0.00	167.64	0.19770	(86092924)
0.00	152.40	0.15239	(86112324)	0.00	137.16	0.12358	(86112508)
0.00	121.92	0.19064c	(86042008)	0.00	106.68	0.16152c	(86060308)
0.00	91.44	0.11608	(86092724)	0.00	76.20	0.16020	(86092724)
0.00	60.96	0.11636c	(86042324)	0.00	45.72	0.12607c	(86051708)
0.00	30.48	0.14137	(86092608)	0.00	15.24	0.16133c	(86090108)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE			RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE		
1.	0.31579c	(86100508) AT (	213.36,	182.88)	DC	26.	0.23567c	(86041408) AT (	213.36,	60.96)	DC
2.	0.31468	(86012608) AT (	137.16,	221.29)	DC	27.	0.23556c	(86012524) AT (	213.36,	137.16)	DC
3.	0.28253c	(86101108) AT (	213.36,	167.64)	DC	28.	0.22555	(86071708) AT (	137.16,	221.29)	DC
4.	0.28161	(86050708) AT (	76.20,	221.29)	DC	29.	0.22547	(86050708) AT (	60.96,	221.29)	DC
5.	0.28134	(86102624) AT (	213.36,	106.68)	DC	30.	0.22442	(86091908) AT (	0.00,	15.24)	DC
6.	0.28075	(86072508) AT (	213.36,	213.36)	DC	31.	0.22433c	(86090708) AT (	203.10,	225.55)	GP
7.	0.27821	(86060608) AT (	213.36,	121.92)	DC	32.	0.22299c	(86081224) AT (	45.72,	221.29)	DC
8.	0.27136c	(86031124) AT (	213.36,	91.44)	DC	33.	0.22249	(86111808) AT (	213.36,	213.36)	DC
9.	0.26836c	(86082508) AT (	167.64,	221.29)	DC	34.	0.22243	(86012608) AT (	132.73,	258.36)	GP
10.	0.26135	(86040808) AT (	213.36,	213.36)	DC	35.	0.22228c	(86071808) AT (	167.64,	221.29)	DC
11.	0.25970c	(86081824) AT (	152.40,	221.29)	DC	36.	0.22117c	(86010324) AT (	137.16,	221.29)	DC
12.	0.25898c	(86071508) AT (	137.16,	221.29)	DC	37.	0.22109	(86011308) AT (	213.36,	137.16)	DC
13.	0.25892c	(86061808) AT (	152.40,	221.29)	DC	38.	0.22097	(86032408) AT (	182.88,	0.00)	DC
14.	0.25824c	(86071908) AT (	213.36,	167.64)	DC	39.	0.22060c	(86090708) AT (	198.12,	221.29)	DC
15.	0.25651c	(86121124) AT (	167.64,	221.29)	DC	40.	0.22014c	(86061008) AT (	167.64,	221.29)	DC
16.	0.25550c	(86050808) AT (	152.40,	221.29)	DC	41.	0.21945c	(86072008) AT (	181.68,	240.55)	GP
17.	0.25190c	(86100508) AT (	236.58,	185.64)	GP	42.	0.21851c	(86011608) AT (	121.92,	0.00)	DC
18.	0.24831	(86031208) AT (	106.68,	221.29)	DC	43.	0.21842	(86072324) AT (	152.40,	221.29)	DC
19.	0.24649c	(86012308) AT (	213.36,	121.92)	DC	44.	0.21696	(86030408) AT (	213.36,	213.36)	DC
20.	0.24429	(86072508) AT (	213.36,	221.29)	DC	45.	0.21545	(86121008) AT (	121.92,	221.29)	DC
21.	0.24198c	(86013008) AT (	152.40,	221.29)	DC	46.	0.21523c	(86060308) AT (	0.00,	121.92)	DC
22.	0.23934c	(86041608) AT (	213.36,	182.88)	DC	47.	0.21472c	(86053108) AT (	137.16,	221.29)	DC
23.	0.23913c	(86071608) AT (	198.12,	221.29)	DC	48.	0.21414c	(86041408) AT (	182.88,	0.00)	DC
24.	0.23625c	(86071608) AT (	203.10,	225.55)	GP	49.	0.21378c	(86051208) AT (	167.64,	221.29)	DC
25.	0.23584	(86072308) AT (	167.64,	221.29)	DC	50.	0.21332c	(86041208) AT (	152.40,	221.29)	DC

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.31579c	ON 86100508: AT (	213.36,	182.88,	0.00,	0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.26135	ON 86040808: AT (	213.36,	213.36,	0.00,	0.00)	DC	

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary For ISC2 Model Execution ***

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

A Total of 0 Fatal Error Message(s)
Total of 0 Warning Message(s)
Total of 328 Informational Message(s)

Total of 328 Calm Hours Identified

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

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

****
*** ISCST2 Finishes Successfully ***
****

Run: FMXTDI8

TDI 24-hour Average Emission Rates

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                ISCST2 EXTENDED MODEL - (DATED 92062)

                IBM-PC VERSION (1.01)
                (C) COPYRIGHT 1992, TRINITY CONSULTANTS, INC.
                SERIAL NUMBER 8025 SOLD TO CROSS TESSITORE & ASSOCIATES
                RUN BEGAN ON 01/21/93 AT 10:56:06


CO STARTING
CO TITLEONE Foamex TDI Sources: Foam Line Stack & Rebond Process Exhaust
CO TITLETWO 24-hour Average Emission Rates
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME 24
CO POLLUTID OTHER
CO RUNORNOT RUN
CO FINISHED

SO STARTING

** Source Location Cards:
**          SRCID SRCTYP       XS           YS           ZS

SO LOCATION     1 POINT      175.8720     119.7880       .0000
SO LOCATION     2 POINT      141.4290     162.7650       .0000
SO LOCATION     3 POINT      141.4290     166.4230       .0000

** Source Parameter Cards:
**  POINT:  SRCID       QS            HS          TS          VS          DS
**  VOLUME: SRCID       QS            HS        SYINIT      SZINIT
** AREA:    SRCID       QS            HS        XINIT

SO SRCPARAM     1    .0058274        38.1000   299.8200    24.3810      .7021
SO SRCPARAM     2    .0001449        12.4968   299.8200     1.0348      .7620
SO SRCPARAM     3    .0001449        12.4968   299.8200     1.0348      .7620

** NOTE: Direction-Specific Building Heights Used for Non-SS Source     1
SO BUILDHGT     1     15.24     15.24     15.24     15.24     15.24     15.24
SO BUILDHGT     1       .00       .00       .00       .00       .00       .00
SO BUILDHGT     1       .00       .00     15.24     15.24     15.24       .00
SO BUILDHGT     1       .00     15.24     15.24     15.24     15.24     15.24
SO BUILDHGT     1       .00       .00       .00       .00       .00       .00
SO BUILDHGT     1       .00       .00     15.24     15.24     15.24     15.24
SO BUILDHGT     2     12.19     12.19     10.67     10.67     10.67     10.67
SO BUILDHGT     2     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     2     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     2     10.67     12.19     10.67     10.97     10.97     10.97
SO BUILDHGT     2     10.97     10.97     10.67     10.67     10.67     10.67
SO BUILDHGT     2     12.19     12.19     12.19     12.19     12.19     12.19
SO BUILDHGT     3     12.19     12.19     10.67     10.67     10.67     10.67
SO BUILDHGT     3     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     3     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     3     10.67     10.67     10.67     10.67     10.97     10.97
SO BUILDHGT     3     10.97     10.97     10.67     10.67     10.67     10.67
SO BUILDHGT     3     12.19     12.19     12.19     12.19     12.19     12.19
** NOTE: Direction-Specific Building Widths Used for Non-SS Source      1
SO BUILDWID     1     84.68     91.23     95.01     95.96     95.84     93.53
```

```
SO BUILDWID     1        .00        .00        .00        .00        .00        .00
SO BUILDWID     1        .00        .00      93.84      90.70      83.88        .00
SO BUILDWID     1        .00      91.23      95.01      95.96      95.84      93.53
SO BUILDWID     1        .00        .00        .00        .00        .00        .00
SO BUILDWID     1        .00        .00      93.84      90.70      83.88      75.55
SO BUILDWID     2      84.68      88.29     196.53     209.06     215.24     215.89
SO BUILDWID     2     214.49     206.95     193.13     194.58     194.74     192.50
SO BUILDWID     2     186.24     176.60     161.59     148.74     138.57     125.52
SO BUILDWID     2     154.11      88.29     196.53      24.84      24.73      23.71
SO BUILDWID     2      21.98      19.58     193.13     194.58     194.74     192.50
SO BUILDWID     2     125.05     122.42     116.07     106.20      93.09      77.16
SO BUILDWID     3      84.68      87.62     196.53     209.06     215.24     215.89
SO BUILDWID     3     214.49     206.95     193.13     194.58     194.74     192.50
SO BUILDWID     3     186.24     176.60     161.59     148.74     138.57     125.52
SO BUILDWID     3     154.11     178.03     196.53     209.06      24.58      23.71
SO BUILDWID     3      21.98      19.58     193.13     194.58     194.74     192.50
SO BUILDWID     3     124.83     122.42     116.07     106.20      93.09      77.16
SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL1 STA
RE GRIDPOLR POL1 ORIG   106.68  110.6424
RE GRIDPOLR POL1 DIST   150. 200. 250. 300. 350. 400. 450. 500. 550.
RE GRIDPOLR POL1 DIST   600. 650. 700. 750. 800. 850. 900. 950. 1000.
RE GRIDPOLR POL1 GDIR   36  10.  10.
RE GRIDPOLR POL1 END
RE DISCCART         .00        .00
RE DISCCART       15.24        .00
RE DISCCART       30.48        .00
RE DISCCART       45.72        .00
RE DISCCART       60.96        .00
RE DISCCART       76.20        .00
RE DISCCART       91.44        .00
RE DISCCART      106.68        .00
RE DISCCART      121.92        .00
RE DISCCART      137.16        .00
RE DISCCART      152.40        .00
RE DISCCART      167.64        .00
RE DISCCART      182.88        .00
RE DISCCART      198.12        .00
RE DISCCART      213.36        .00
RE DISCCART      213.36      15.24
RE DISCCART      213.36      30.48
RE DISCCART      213.36      45.72
RE DISCCART      213.36      60.96
RE DISCCART      213.36      76.20
RE DISCCART      213.36      91.44
RE DISCCART      213.36     106.68
RE DISCCART      213.36     121.92
RE DISCCART      213.36     137.16
RE DISCCART      213.36     152.40
RE DISCCART      213.36     167.64
RE DISCCART      213.36     182.88
RE DISCCART      213.36     198.12
RE DISCCART      213.36     213.36
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RE DISCCART      213.36     221.29
RE DISCCART      198.12     221.29
RE DISCCART      182.88     221.29
RE DISCCART      167.64     221.29
RE DISCCART      152.40     221.29
RE DISCCART      137.16     221.29
RE DISCCART      121.92     221.29
RE DISCCART      106.68     221.29
RE DISCCART       91.44     221.29
RE DISCCART       76.20     221.29
RE DISCCART       60.96     221.29
RE DISCCART       45.72     221.29
RE DISCCART       30.48     221.29
RE DISCCART       15.24     221.29
RE DISCCART         .00     221.29
RE DISCCART         .00     213.36
RE DISCCART         .00     198.12
RE DISCCART         .00     182.88
RE DISCCART         .00     167.64
RE DISCCART         .00     152.40
RE DISCCART         .00     137.16
RE DISCCART         .00     121.92
RE DISCCART         .00     106.68
RE DISCCART         .00      91.44
RE DISCCART         .00      76.20
RE DISCCART         .00      60.96
RE DISCCART         .00      45.72
RE DISCCART         .00      30.48
RE DISCCART         .00      15.24
RE FINISHED

ME STARTING
ME INPUTFIL C:\modELS\iscst2\ORLTMP86.BIN    UNFORM
ME ANEMHGHT   10.000 METERS
ME SURFDATA  12815  1986            SURFNAME
ME UAIRDATA  12842  1986            UAIRNAME
ME WINDCATS    1.54    3.09    5.14    8.23   10.80
ME FINISHED

OU STARTING
OU RECTABLE 24 FIRST  SECOND
OU MAXTABLE 24 50
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 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 1 Short Term Average(s) of: 24-HR

*This Run Includes: 3 Source(s); 1 Source Group(s); and 706 Receptor(s)

*The Model Assumes A Pollutant Type of: OTHER

**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/CUBIC-METER)

**Input Runstream File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDI24.NEW ; **Output Print File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDI24.LST

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	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
1	0	0.58274E-02	175.9	119.8	0.0	38.10	299.82	24.38	0.70	YES	
2	0	0.14490E-03	141.4	162.8	0.0	12.50	299.82	1.03	0.76	YES	
3	0	0.14490E-03	141.4	166.4	0.0	12.50	299.82	1.03	0.76	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 , 3 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

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	15.2,	84.7,	0	2	15.2,	91.2,	0	3	15.2,	95.0,	0	4	15.2,	96.0,	0	5	15.2,	95.8,	0	6	15.2,	93.5,	0
7	0.0,	0.0,	0	8	0.0,	0.0,	0	9	0.0,	0.0,	0	10	0.0,	0.0,	0	11	0.0,	0.0,	0	12	0.0,	0.0,	0
13	0.0,	0.0,	0	14	0.0,	0.0,	0	15	15.2,	93.8,	0	16	15.2,	90.7,	0	17	15.2,	83.9,	0	18	0.0,	0.0,	0
19	0.0,	0.0,	0	20	15.2,	91.2,	0	21	15.2,	95.0,	0	22	15.2,	96.0,	0	23	15.2,	95.8,	0	24	15.2,	93.5,	0
25	0.0,	0.0,	0	26	0.0,	0.0,	0	27	0.0,	0.0,	0	28	0.0,	0.0,	0	29	0.0,	0.0,	0	30	0.0,	0.0,	0
31	0.0,	0.0,	0	32	0.0,	0.0,	0	33	15.2,	93.8,	0	34	15.2,	90.7,	0	35	15.2,	83.9,	0	36	15.2,	75.6,	0

SOURCE ID: 2

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	12.2,	84.7,	0	2	12.2,	88.3,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	12.2,	88.3,	0	21	10.7,	196.5,	0	22	11.0,	24.8,	0	23	11.0,	24.7,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	125.1,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

SOURCE ID: 3

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	12.2,	84.7,	0	2	12.2,	87.6,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	10.7,	178.0,	0	21	10.7,	196.5,	0	22	10.7,	209.1,	0	23	11.0,	24.6,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	124.8,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

*** ORIGIN FOR POLAR NETWORK ***

X-ORIG = 106.68 ; Y-ORIG = 110.64 (METERS)

*** DISTANCE RANGES OF NETWORK ***
(METERS)

150.0, 200.0, 250.0, 300.0, 350.0, 400.0, 450.0, 500.0, 550.0, 600.0,
650.0, 700.0, 750.0, 800.0, 850.0, 900.0, 950.0, 1000.0,

*** DIRECTION RADIALS OF NETWORK ***
(DEGREES)

10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0,
110.0, 120.0, 130.0, 140.0, 150.0, 160.0, 170.0, 180.0, 190.0, 200.0,
210.0, 220.0, 230.0, 240.0, 250.0, 260.0, 270.0, 280.0, 290.0, 300.0,
310.0, 320.0, 330.0, 340.0, 350.0, 360.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(0.0,	0.0,	0.0,	0.0);	(15.2,	0.0,	0.0,	0.0);
(30.5,	0.0,	0.0,	0.0);	(45.7,	0.0,	0.0,	0.0);
(61.0,	0.0,	0.0,	0.0);	(76.2,	0.0,	0.0,	0.0);
(91.4,	0.0,	0.0,	0.0);	(106.7,	0.0,	0.0,	0.0);
(121.9,	0.0,	0.0,	0.0);	(137.2,	0.0,	0.0,	0.0);
(152.4,	0.0,	0.0,	0.0);	(167.6,	0.0,	0.0,	0.0);
(182.9,	0.0,	0.0,	0.0);	(198.1,	0.0,	0.0,	0.0);
(213.4,	0.0,	0.0,	0.0);	(213.4,	15.2,	0.0,	0.0);
(213.4,	30.5,	0.0,	0.0);	(213.4,	45.7,	0.0,	0.0);
(213.4,	61.0,	0.0,	0.0);	(213.4,	76.2,	0.0,	0.0);
(213.4,	91.4,	0.0,	0.0);	(213.4,	106.7,	0.0,	0.0);
(213.4,	121.9,	0.0,	0.0);	(213.4,	137.2,	0.0,	0.0);
(213.4,	152.4,	0.0,	0.0);	(213.4,	167.6,	0.0,	0.0);
(213.4,	182.9,	0.0,	0.0);	(213.4,	198.1,	0.0,	0.0);
(213.4,	213.4,	0.0,	0.0);	(213.4,	221.3,	0.0,	0.0);
(198.1,	221.3,	0.0,	0.0);	(182.9,	221.3,	0.0,	0.0);
(167.6,	221.3,	0.0,	0.0);	(152.4,	221.3,	0.0,	0.0);
(137.2,	221.3,	0.0,	0.0);	(121.9,	221.3,	0.0,	0.0);
(106.7,	221.3,	0.0,	0.0);	(91.4,	221.3,	0.0,	0.0);
(76.2,	221.3,	0.0,	0.0);	(61.0,	221.3,	0.0,	0.0);
(45.7,	221.3,	0.0,	0.0);	(30.5,	221.3,	0.0,	0.0);
(15.2,	221.3,	0.0,	0.0);	(0.0,	221.3,	0.0,	0.0);
(0.0,	213.4,	0.0,	0.0);	(0.0,	198.1,	0.0,	0.0);
(0.0,	182.9,	0.0,	0.0);	(0.0,	167.6,	0.0,	0.0);
(0.0,	152.4,	0.0,	0.0);	(0.0,	137.2,	0.0,	0.0);
(0.0,	121.9,	0.0,	0.0);	(0.0,	106.7,	0.0,	0.0);
(0.0,	91.4,	0.0,	0.0);	(0.0,	76.2,	0.0,	0.0);
(0.0,	61.0,	0.0,	0.0);	(0.0,	45.7,	0.0,	0.0);
(0.0,	30.5,	0.0,	0.0);	(0.0,	15.2,	0.0,	0.0);

*** MODELING OPTIONS USED: 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	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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: C:\modELS\iscst2\ORLTMP86.BIN FORMAT: UNFORM
SURFACE STATION NO.: 12815 UPPER AIR STATION NO.: 12842
NAME: SURFNAME NAME: UAIRNAME
YEAR: 1986 YEAR: 1986

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	URBAN
86	1	1	1	1.0	3.60	289.3	4	639.0	639.0
86	1	1	2	168.0	5.14	288.7	4	639.0	639.0
86	1	1	3	124.0	3.09	288.2	4	639.0	639.0
86	1	1	4	353.0	2.57	288.2	4	639.0	639.0
86	1	1	5	333.0	2.57	288.7	4	639.0	639.0
86	1	1	6	332.0	2.57	288.7	4	639.0	639.0
86	1	1	7	335.0	3.09	288.7	4	639.0	639.0
86	1	1	8	3.0	3.60	289.3	4	639.0	639.0
86	1	1	9	347.0	3.60	289.8	4	639.0	639.0
86	1	1	10	1.0	5.14	292.0	4	639.0	639.0
86	1	1	11	14.0	4.63	292.6	4	639.0	639.0
86	1	1	12	16.0	4.12	294.3	4	639.0	639.0
86	1	1	13	73.0	3.09	295.4	4	639.0	639.0
86	1	1	14	49.0	3.60	297.0	4	639.0	639.0
86	1	1	15	142.0	2.06	296.5	4	639.0	639.0
86	1	1	16	144.0	2.06	295.9	4	639.0	639.0
86	1	1	17	261.0	2.06	295.4	4	639.0	639.0
86	1	1	18	257.0	2.06	292.6	4	644.0	644.0
86	1	1	19	274.0	3.60	291.5	4	655.0	655.0
86	1	1	20	227.0	3.09	290.9	4	666.0	666.0
86	1	1	21	230.0	3.09	290.9	4	678.0	678.0
86	1	1	22	252.0	2.57	290.4	5	689.0	477.0
86	1	1	23	290.0	2.06	290.4	4	700.0	700.0
86	1	1	24	290.0	1.00	290.4	4	712.0	712.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 150.00	200.00	250.00	300.00	350.00
10.0	0.04591 (86081324)	0.03682 (86071724)	0.03102 (86071724)	0.02864c(86071324)	0.02690c(86071324)
20.0	0.06087 (86072324)	0.03891 (86072324)	0.02666 (86072324)	0.02055 (86072324)	0.01782 (86072324)
30.0	0.07349c(86012924)	0.04670c(86012924)	0.03465c(86060824)	0.02897c(86060824)	0.02419c(86060824)
40.0	0.05995 (86030324)	0.03962 (86030324)	0.02664c(86021824)	0.02037c(86021824)	0.01881 (86070224)
50.0	0.05003 (86121824)	0.04339 (86040824)	0.03321c(86072524)	0.03094c(86072524)	0.02659c(86072524)
60.0	0.04383c(86100524)	0.03103c(86081824)	0.02778 (86030624)	0.02013c(86060924)	0.01867c(86072024)
70.0	0.06169c(86071924)	0.02643c(86071424)	0.02137 (86090324)	0.02393 (86040824)	0.01955c(86072024)
80.0	0.03072c(86122524)	0.02404c(86042524)	0.02692c(86071924)	0.03181c(86071924)	0.03089c(86071924)
90.0	0.02844c(86012524)	0.02629c(86122524)	0.01663c(86122524)	0.01491c(86071424)	0.01472c(86071924)
100.0	0.03678c(86012324)	0.03305c(86012324)	0.01448c(86012524)	0.01878 (86042924)	0.02038 (86042924)
110.0	0.03082c(86031124)	0.03092c(86012324)	0.01968c(86012324)	0.02050c(86012324)	0.02371c(86012324)
120.0	0.02823c(86012824)	0.02181c(86012524)	0.01885c(86031124)	0.01736 (86102624)	0.01682 (86102624)
130.0	0.02821c(86111324)	0.02167c(86012824)	0.01773c(86012824)	0.01604 (86042624)	0.01810 (86042624)
140.0	0.03117 (86101624)	0.03089c(86090824)	0.01634 (86011424)	0.01635c(86111324)	0.01450c(86111324)
150.0	0.04299 (86120424)	0.02392 (86101624)	0.02280 (86101624)	0.02234 (86101624)	0.02298 (86101624)
160.0	0.03116 (86012424)	0.02258c(86103024)	0.02695 (86120424)	0.02694 (86120424)	0.02103 (86120424)
170.0	0.03212c(86122624)	0.02572 (86122224)	0.02440 (86122124)	0.02370 (86110324)	0.02506 (86110324)
180.0	0.02488 (86060524)	0.02188c(86090224)	0.02273c(86090224)	0.02093c(86090224)	0.01826c(86090224)
190.0	0.02592 (86121424)	0.01829 (86121424)	0.01634c(86041424)	0.01492c(86041424)	0.01344 (86060524)
200.0	0.02313 (86102824)	0.01870 (86102824)	0.01610 (86121624)	0.01571 (86042424)	0.01507 (86042424)
210.0	0.02939 (86091824)	0.02457 (86091824)	0.02104 (86091824)	0.01891c(86092724)	0.01808c(86092724)
220.0	0.03815c(86090124)	0.03252c(86090124)	0.02883c(86090124)	0.02599c(86090124)	0.02355c(86090124)
230.0	0.03102 (86091924)	0.02133 (86091924)	0.01970c(86100224)	0.01853c(86100224)	0.01752c(86100224)
240.0	0.03332 (86091524)	0.03046 (86091524)	0.02794 (86091524)	0.02573 (86091524)	0.02360 (86091524)
250.0	0.03901c(86092724)	0.03342c(86092724)	0.02523c(86092724)	0.01954c(86092724)	0.01827 (86091524)
260.0	0.02663c(86060324)	0.02344c(86051324)	0.02684c(86092724)	0.02616c(86092724)	0.02305c(86092724)
270.0	0.03014c(86092724)	0.02032 (86110924)	0.02209c(86051324)	0.02330c(86051324)	0.02305c(86051324)
280.0	0.03295c(86050524)	0.03193c(86051324)	0.03376c(86051324)	0.02647 (86062324)	0.02586 (86062324)
290.0	0.03959c(86051324)	0.03155 (86112824)	0.02406 (86052724)	0.02392c(86093024)	0.02598c(86093024)
300.0	0.03651 (86052724)	0.04266c(86093024)	0.02539c(86020424)	0.02333c(86080924)	0.02272c(86080924)
310.0	0.04088c(86020424)	0.03041c(86080924)	0.03132c(86100324)	0.02796c(86100324)	0.02441c(86100324)
320.0	0.04154c(86100324)	0.02949c(86100324)	0.02415 (86112524)	0.02046 (86112524)	0.01913c(86050724)
330.0	0.03412c(86050724)	0.03538c(86050724)	0.02798c(86052924)	0.02385c(86052924)	0.01741c(86052924)
340.0	0.03728c(86050724)	0.02055c(86082924)	0.01876 (86031224)	0.01972 (86031224)	0.01848 (86031224)
350.0	0.03448 (86031324)	0.03309c(86020424)	0.02233c(86020424)	0.02413 (86100924)	0.02567 (86100924)
360.0	0.04322 (86100924)	0.03158 (86100924)	0.02096 (86081324)	0.02045 (86081324)	0.02121c(86071324)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RECTION (DEGREES)	DISTANCE (METERS) 400.00	450.00	500.00	550.00	600.00
10.0	0.02489c(86071324)	0.02285c(86071324)	0.02091c(86071324)	0.01912c(86071324)	0.01756c(86071324)
20.0	0.01689 (86072324)	0.01681 (86072324)	0.01704 (86072324)	0.01728 (86072324)	0.01741 (86072324)
30.0	0.02072 (86071024)	0.01947 (86071024)	0.01835 (86071024)	0.01737 (86071024)	0.01652 (86071024)
40.0	0.01946 (86080424)	0.01929 (86080424)	0.01860 (86070224)	0.01857 (86070224)	0.01842 (86070224)
50.0	0.02215c(86072524)	0.02009 (86072624)	0.01882 (86072624)	0.01757 (86100424)	0.01703 (86100424)
60.0	0.02095 (86100424)	0.02201 (86100424)	0.02198 (86100424)	0.02122 (86100424)	0.02000 (86100424)
70.0	0.02266c(86081824)	0.02519c(86081824)	0.02651c(86081824)	0.02680c(86081824)	0.02639c(86081824)
80.0	0.02693c(86071924)	0.02286c(86071924)	0.01964c(86071924)	0.01715c(86071924)	0.01517c(86071924)
90.0	0.01694c(86071924)	0.01812c(86071924)	0.01861c(86071924)	0.01856c(86071924)	0.01818c(86071924)
100.0	0.01749 (86042924)	0.01414 (86042924)	0.01387c(86122524)	0.01360c(86071924)	0.01338c(86071924)
110.0	0.02316c(86012324)	0.02116 (86042924)	0.02234 (86042924)	0.02263 (86042924)	0.02235 (86042924)
120.0	0.01943c(86012324)	0.02011c(86012324)	0.01934c(86012324)	0.01854c(86052224)	0.01784c(86052224)
130.0	0.01870 (86042624)	0.01830 (86042624)	0.01730 (86042624)	0.01707c(86012824)	0.01721c(86012824)
140.0	0.01312 (86042824)	0.01388 (86042824)	0.01410 (86042824)	0.01388 (86042824)	0.01338 (86042824)
150.0	0.02377 (86101624)	0.02420 (86101624)	0.02405 (86101624)	0.02336 (86101624)	0.02230 (86101624)
160.0	0.01818 (86110324)	0.01757 (86101624)	0.01869 (86101624)	0.01968 (86101624)	0.02054 (86101624)
170.0	0.02495 (86110324)	0.02403 (86110324)	0.02262 (86110324)	0.02106 (86110324)	0.01950 (86110324)
180.0	0.01731 (86110324)	0.01776 (86110324)	0.01792 (86110324)	0.01788 (86110324)	0.01770 (86110324)
190.0	0.01295 (86060524)	0.01248 (86060524)	0.01208 (86060524)	0.01172 (86060524)	0.01140 (86060524)
200.0	0.01461 (86120424)	0.01499 (86120424)	0.01484 (86120424)	0.01434 (86120424)	0.01431 (86102824)
210.0	0.01713c(86092724)	0.01601c(86092724)	0.01550c(86111324)	0.01496c(86111324)	0.01432c(86111324)
220.0	0.02138c(86090124)	0.01942c(86090124)	0.01766c(86090124)	0.01729 (86060524)	0.01707 (86060524)
230.0	0.01669c(86100224)	0.01596c(86100224)	0.01525c(86100224)	0.01454c(86100224)	0.01532 (86010924)
240.0	0.02156 (86091524)	0.01962 (86091524)	0.01782 (86091524)	0.01620 (86091524)	0.01525 (86010924)
250.0	0.01843 (86091524)	0.01815 (86091524)	0.01758 (86091524)	0.01683 (86091524)	0.01601 (86091524)
260.0	0.01990c(86092724)	0.01738c(86092724)	0.01551c(86092724)	0.01415c(86092724)	0.01315 (86121424)
270.0	0.02212c(86051324)	0.02103c(86051324)	0.01994c(86051324)	0.01891c(86051324)	0.01794c(86051324)
280.0	0.02336 (86062324)	0.02074 (86062324)	0.01855 (86062324)	0.01684 (86062324)	0.01547 (86062324)
290.0	0.02595c(86093024)	0.02406c(86093024)	0.02145c(86093024)	0.01890c(86093024)	0.01674c(86093024)
300.0	0.02243 (86040624)	0.02201 (86040624)	0.02069 (86040624)	0.01888 (86040624)	0.01840 (86030924)
310.0	0.02427c(86100324)	0.02363c(86100324)	0.02195c(86100324)	0.01980c(86100324)	0.01766c(86100324)
320.0	0.01747c(86050724)	0.01605 (86081124)	0.01563 (86081124)	0.01490 (86081124)	0.01409 (86081124)
330.0	0.01609c(86053024)	0.01509c(86082524)	0.01466c(86082524)	0.01397c(86082524)	0.01456 (86031324)
340.0	0.01795 (86031224)	0.01814 (86031224)	0.01852 (86031224)	0.01877 (86031224)	0.01880 (86031224)
350.0	0.02589 (86100924)	0.02508 (86100924)	0.02370 (86100924)	0.02209 (86100924)	0.02052 (86100924)
360.0	0.02097c(86071324)	0.02018c(86071324)	0.01919c(86071324)	0.01810c(86071324)	0.01708c(86071324)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RECTION (DEGREES)	DISTANCE (METERS) 650.00	700.00	750.00	800.00	850.00
10.0	0.01628c(86071324)	0.01565 (86082024)	0.01613 (86082024)	0.01647 (86082024)	0.01680 (86082024)
20.0	0.01739 (86072324)	0.01719 (86072324)	0.01685 (86072324)	0.01640 (86072324)	0.01594 (86072324)
30.0	0.01579 (86071024)	0.01518 (86071024)	0.01474 (86071024)	0.01429 (86071024)	0.01395 (86071024)
40.0	0.01814 (86070224)	0.01774 (86070224)	0.01724 (86070224)	0.01668 (86070224)	0.01607 (86070224)
50.0	0.01637 (86100424)	0.01567 (86100424)	0.01497 (86100424)	0.01429 (86100424)	0.01363 (86100424)
60.0	0.01857 (86100424)	0.01710 (86100424)	0.01575 (86100424)	0.01442 (86100424)	0.01321 (86100424)
70.0	0.02558c(86081824)	0.02456c(86081824)	0.02347c(86081824)	0.02237c(86081824)	0.02130c(86081824)
80.0	0.01356c(86071924)	0.01221c(86071924)	0.01110c(86071924)	0.01011c(86071924)	0.00925c(86071924)
90.0	0.01766c(86071924)	0.01708c(86071924)	0.01656c(86071924)	0.01602c(86071924)	0.01553c(86071924)
100.0	0.01294c(86071924)	0.01238c(86071924)	0.01176c(86071924)	0.01112c(86071924)	0.01049c(86071924)
110.0	0.02175 (86042924)	0.02099 (86042924)	0.02015 (86042924)	0.01929 (86042924)	0.01845 (86042924)
120.0	0.01688c(86052224)	0.01591 (86022024)	0.01569 (86022024)	0.01542 (86022024)	0.01515 (86022024)
130.0	0.01703c(86012824)	0.01663c(86012824)	0.01608c(86012824)	0.01544c(86012824)	0.01478c(86012824)
140.0	0.01271 (86042824)	0.01196 (86042824)	0.01119 (86042824)	0.01054 (86032124)	0.01050 (86032124)
150.0	0.02101 (86101624)	0.01960 (86101624)	0.01816 (86101624)	0.01679 (86101624)	0.01546 (86101624)
160.0	0.02128 (86101624)	0.02181 (86101624)	0.02217 (86101624)	0.02251 (86101624)	0.02256 (86101624)
170.0	0.01945 (86012424)	0.01982 (86120524)	0.02053 (86120524)	0.02109 (86120524)	0.02119 (86120524)
180.0	0.01742 (86110324)	0.01705 (86110324)	0.01768 (86122824)	0.01850 (86122824)	0.01893 (86122824)
190.0	0.01113 (86060524)	0.01082 (86060524)	0.01074c(86122624)	0.01129c(86122624)	0.01161c(86122624)
200.0	0.01465 (86102824)	0.01494 (86102824)	0.01512 (86102824)	0.01531 (86102824)	0.01538 (86102824)
210.0	0.01361c(86111324)	0.01289c(86111324)	0.01216c(86111324)	0.01229 (86010724)	0.01245 (86010724)
220.0	0.01666 (86060524)	0.01627 (86010824)	0.01670 (86010824)	0.01695 (86010824)	0.01696 (86010824)
230.0	0.01604 (86010924)	0.01656 (86010924)	0.01697 (86010924)	0.01726 (86010924)	0.01729 (86010924)
240.0	0.01606 (86010924)	0.01667 (86010924)	0.01709 (86010924)	0.01751 (86010924)	0.01761 (86010924)
250.0	0.01519 (86091524)	0.01439 (86091524)	0.01362 (86091524)	0.01292 (86091524)	0.01227 (86091524)
260.0	0.01286c(86091024)	0.01285c(86091024)	0.01279c(86091024)	0.01286c(86091024)	0.01270c(86091024)
270.0	0.01706c(86051324)	0.01621c(86051324)	0.01540c(86051324)	0.01467c(86051324)	0.01396c(86051324)
280.0	0.01522 (86052724)	0.01481 (86052724)	0.01437 (86052724)	0.01395 (86052724)	0.01353 (86052724)
290.0	0.01580 (86062324)	0.01534 (86062324)	0.01487 (86062324)	0.01439 (86062324)	0.01395 (86062324)
300.0	0.01895 (86030924)	0.01921 (86030924)	0.01922 (86030924)	0.01904 (86030924)	0.01885 (86030924)
310.0	0.01638 (86122324)	0.01680 (86122324)	0.01703 (86122324)	0.01720 (86122324)	0.01716 (86122324)
320.0	0.01319 (86081124)	0.01232 (86081124)	0.01150 (86081124)	0.01076 (86081124)	0.01008 (86081124)
330.0	0.01546 (86031324)	0.01617 (86031324)	0.01669 (86031324)	0.01717 (86031324)	0.01733 (86031324)
340.0	0.01858 (86031224)	0.01817 (86031224)	0.01762 (86031224)	0.01699 (86031224)	0.01628 (86031224)
350.0	0.01902 (86100924)	0.01768 (86100924)	0.01650 (86100924)	0.01546 (86100924)	0.01460 (86100924)
360.0	0.01649 (86112624)	0.01602 (86112624)	0.01551 (86112624)	0.01545 (86082024)	0.01621 (86082024)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RECTION (DEGREES)	DISTANCE (METERS) 900.00	950.00	1000.00
10.0	0.01687 (86082024)	0.01684 (86082024)	0.01672 (86082024)
20.0	0.01536 (86072324)	0.01476 (86072324)	0.01415 (86072324)
30.0	0.01363 (86071024)	0.01334 (86071024)	0.01307 (86071024)
40.0	0.01547 (86070224)	0.01482 (86070224)	0.01418 (86070224)
50.0	0.01305 (86100424)	0.01259 (86112024)	0.01247 (86122024)
60.0	0.01268c(86022624)	0.01223c(86022624)	0.01178c(86022624)
70.0	0.02037c(86081824)	0.01939c(86081824)	0.01847c(86081824)
80.0	0.00860c(86081824)	0.00870c(86020724)	0.00883c(86122524)
90.0	0.01513c(86071924)	0.01473c(86071924)	0.01437c(86071924)
100.0	0.00988c(86071924)	0.00930c(86071924)	0.00875c(86071924)
110.0	0.01763 (86042924)	0.01684 (86042924)	0.01610 (86042924)
120.0	0.01480 (86022024)	0.01444 (86022024)	0.01406 (86022024)
130.0	0.01409c(86012824)	0.01341c(86012824)	0.01281 (86102624)
140.0	0.01034 (86032124)	0.01042 (86122924)	0.01061 (86122924)
150.0	0.01420 (86101624)	0.01304 (86101624)	0.01215 (86032124)
160.0	0.02250 (86101624)	0.02234 (86101624)	0.02208 (86101624)
170.0	0.02108 (86120524)	0.02081 (86120524)	0.02040 (86120524)
180.0	0.01919 (86122824)	0.01928 (86122824)	0.01919 (86122824)
190.0	0.01186c(86122624)	0.01202c(86122624)	0.01205c(86122624)
200.0	0.01540 (86102824)	0.01537 (86102824)	0.01521 (86102824)
210.0	0.01252 (86010724)	0.01249 (86010724)	0.01227 (86010724)
220.0	0.01686 (86010824)	0.01666 (86010824)	0.01628 (86010824)
230.0	0.01722 (86010924)	0.01704 (86010924)	0.01668 (86010924)
240.0	0.01759 (86010924)	0.01743 (86010924)	0.01711 (86010924)
250.0	0.01195 (86092024)	0.01173 (86092024)	0.01144 (86092024)
260.0	0.01253c(86091024)	0.01229c(86091024)	0.01197c(86091024)
270.0	0.01329c(86051324)	0.01266c(86051324)	0.01205c(86051324)
280.0	0.01312 (86052724)	0.01271 (86052724)	0.01228 (86052724)
290.0	0.01348 (86062324)	0.01301 (86062324)	0.01252 (86062324)
300.0	0.01841 (86030924)	0.01790 (86030924)	0.01726 (86030924)
310.0	0.01694 (86122324)	0.01664 (86122324)	0.01615 (86122324)
320.0	0.00947 (86081124)	0.00892 (86081124)	0.00841 (86081124)
330.0	0.01737 (86031324)	0.01730 (86031324)	0.01708 (86031324)
340.0	0.01554 (86031224)	0.01479 (86031224)	0.01404 (86031224)
350.0	0.01379 (86100924)	0.01308 (86100924)	0.01243 (86100924)
360.0	0.01672 (86082024)	0.01713 (86082024)	0.01744 (86082024)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	0.03610	(86091924)	15.24	0.00	0.03959c	(86090124)
30.48	0.00	0.02851c	(86090124)	45.72	0.00	0.03711	(86091824)
60.96	0.00	0.02797	(86121624)	76.20	0.00	0.02887	(86102824)
91.44	0.00	0.03132	(86121424)	106.68	0.00	0.03219	(86060524)
121.92	0.00	0.04024c	(86090224)	137.16	0.00	0.03926c	(86122624)
152.40	0.00	0.03791	(86012424)	167.64	0.00	0.03625	(86120424)
182.88	0.00	0.03683	(86032424)	198.12	0.00	0.03384	(86101624)
213.36	0.00	0.03985c	(86090824)	213.36	15.24	0.03298c	(86090824)
213.36	30.48	0.03203c	(86111324)	213.36	45.72	0.03549c	(86111324)
213.36	60.96	0.03934c	(86012824)	213.36	76.20	0.04058c	(86012524)
213.36	91.44	0.04134c	(86031124)	213.36	106.68	0.05893c	(86012324)
213.36	121.92	0.07088c	(86012324)	213.36	137.16	0.05953	(86042924)
213.36	152.40	0.03582	(86012724)	213.36	167.64	0.07934c	(86071924)
213.36	182.88	0.05142c	(86100524)	213.36	198.12	0.04799	(86030624)
213.36	213.36	0.06052c	(86072524)	213.36	221.29	0.04996c	(86072524)
198.12	221.29	0.06355	(86030324)	182.88	221.29	0.04340	(86080424)
167.64	221.29	0.06227c	(86012924)	152.40	221.29	0.08421	(86072324)
137.16	221.29	0.06731	(86082024)	121.92	221.29	0.06723	(86100924)
106.68	221.29	0.05521	(86031224)	91.44	221.29	0.04201c	(86052924)
76.20	221.29	0.06746c	(86050724)	60.96	221.29	0.04846c	(86050724)
45.72	221.29	0.04364c	(86100324)	30.48	221.29	0.04755c	(86100324)
15.24	221.29	0.03981c	(86100324)	0.00	221.29	0.03648c	(86080924)
0.00	213.36	0.03930c	(86080924)	0.00	198.12	0.05046c	(86093024)
0.00	182.88	0.04227	(86052724)	0.00	167.64	0.04849	(86112824)
0.00	152.40	0.04116c	(86051324)	0.00	137.16	0.03204c	(86050524)
0.00	121.92	0.04036c	(86092724)	0.00	106.68	0.03545c	(86060324)
0.00	91.44	0.03779c	(86092724)	0.00	76.20	0.04001c	(86092724)
0.00	60.96	0.03688	(86091524)	0.00	45.72	0.03182	(86091524)
0.00	30.48	0.02886c	(86100224)	0.00	15.24	0.03828	(86091924)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RECTION	DISTANCE (METERS)				
(DEGREES)	150.00	200.00	250.00	300.00	350.00
10.0	0.04366 (86082024)	0.03297c(86071324)	0.03026c(86071324)	0.02592c(86041224)	0.02154c(86041224)
20.0	0.04814c(86081824)	0.03265c(86081824)	0.02439c(86090624)	0.01983c(86090624)	0.01644c(86090624)
30.0	0.05515c(86060824)	0.04226c(86060824)	0.03333c(86012924)	0.02624c(86012924)	0.02221 (86071024)
40.0	0.04342c(86021824)	0.03597c(86021824)	0.02587 (86030324)	0.02031 (86100624)	0.01866 (86080424)
50.0	0.04268 (86042824)	0.03651 (86030424)	0.03012 (86040824)	0.02110 (86071024)	0.02059 (86071024)
60.0	0.04019 (86040824)	0.02732 (86030624)	0.02068c(86081824)	0.01890 (86030624)	0.01838 (86100424)
70.0	0.04259c(86071424)	0.02517 (86090324)	0.01850 (86040824)	0.01686c(86100524)	0.01893 (86040824)
80.0	0.02668c(86071424)	0.02267 (86012024)	0.02265 (86012024)	0.02072c(86071424)	0.01689c(86101124)
90.0	0.02690c(86042524)	0.02351 (86011324)	0.01574c(86071424)	0.01310c(86060224)	0.01252 (86100624)
100.0	0.03089 (86102624)	0.03104c(86060624)	0.01439c(86101024)	0.01595 (86082424)	0.01608 (86011324)
110.0	0.02551 (86102624)	0.02660 (86102624)	0.01722c(86060624)	0.01948c(86060624)	0.02153c(86060624)
120.0	0.02813c(86090424)	0.01803 (86031724)	0.01529 (86102624)	0.01320c(86090224)	0.01601c(86012324)
130.0	0.02348 (86011424)	0.01915 (86021424)	0.01746c(86090424)	0.01589 (86042824)	0.01604 (86042824)
140.0	0.03090 (86032824)	0.01998 (86062624)	0.01518c(86111324)	0.01227 (86050324)	0.01304 (86050324)
150.0	0.03218 (86101724)	0.02278 (86032424)	0.02223 (86032824)	0.01986 (86032824)	0.01522 (86032824)
160.0	0.02808 (86122124)	0.01874 (86021224)	0.01819 (86110324)	0.01964 (86110324)	0.01962 (86110324)
170.0	0.02928 (86110224)	0.02559 (86122124)	0.02050 (86110324)	0.02163 (86122124)	0.01923 (86012424)
180.0	0.02187c(86011624)	0.02139c(86011624)	0.01824c(86032724)	0.01620c(86032724)	0.01657 (86110324)
190.0	0.02295 (86091724)	0.01614 (86111024)	0.01383c(86092224)	0.01377 (86060524)	0.01314 (86102124)
200.0	0.02194 (86121624)	0.01773 (86121624)	0.01584 (86102824)	0.01533 (86121624)	0.01487c(86111324)
210.0	0.02861 (86121624)	0.02339 (86121624)	0.02037 (86121624)	0.01858 (86121624)	0.01738 (86121624)
220.0	0.03237 (86103124)	0.02556 (86103124)	0.02075 (86103124)	0.01778 (86091924)	0.01619 (86091924)
230.0	0.02332c(86090124)	0.02069c(86100224)	0.01723 (86092624)	0.01636c(86082324)	0.01568c(86082324)
240.0	0.02723c(86051724)	0.02218 (86112224)	0.02105 (86112224)	0.01982 (86112224)	0.01849 (86112224)
250.0	0.02793 (86102924)	0.01861 (86102924)	0.01739 (86062624)	0.01763 (86091524)	0.01696 (86062624)
260.0	0.02338c(86082224)	0.02237c(86092724)	0.02052c(86102424)	0.01787c(86102424)	0.01508 (86062624)
270.0	0.02646c(86060324)	0.01841c(86051324)	0.01851c(86050524)	0.02004c(86082624)	0.02056c(86082624)
280.0	0.02566c(86082624)	0.02402c(86082624)	0.02269 (86062324)	0.02636c(86051324)	0.02011c(86092924)
290.0	0.03429 (86062724)	0.02729 (86052724)	0.02345c(86100824)	0.02037c(86100824)	0.01979 (86040624)
300.0	0.03216c(86100824)	0.02761 (86040624)	0.02395c(86093024)	0.02141 (86081024)	0.02191 (86040624)
310.0	0.03511c(86082624)	0.02854 (86040624)	0.02695c(86051824)	0.02393c(86080924)	0.02137c(86093024)
320.0	0.03822c(86051824)	0.02614c(86093024)	0.02152c(86093024)	0.01983c(86050724)	0.01752 (86112524)
330.0	0.03208 (86112524)	0.02372c(86052924)	0.02091c(86050724)	0.01723c(86053024)	0.01726c(86053024)
340.0	0.03247c(86052924)	0.02048c(86052924)	0.01753c(86080824)	0.01841c(86080824)	0.01775c(86080824)
350.0	0.03425 (86031224)	0.02796 (86121024)	0.02108 (86100924)	0.02148c(86082724)	0.02053c(86082724)
360.0	0.03959 (86121024)	0.02596 (86113024)	0.01970 (86100924)	0.02043c(86071324)	0.01896 (86081324)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 400.00	450.00	500.00	550.00	600.00
10.0	0.01812c(86041224)	0.01572c(86060924)	0.01477c(86061124)	0.01441c(86061124)	0.01428 (86082024)
20.0	0.01465 (86111724)	0.01362 (86111724)	0.01343 (86081724)	0.01366 (86081724)	0.01357 (86081724)
30.0	0.02021c(86060824)	0.01710c(86060824)	0.01466c(86060824)	0.01372c(86081924)	0.01373c(86081924)
40.0	0.01852 (86070224)	0.01855 (86070224)	0.01849 (86080424)	0.01731 (86080424)	0.01595 (86080424)
50.0	0.02074 (86072624)	0.01836c(86072524)	0.01787 (86100424)	0.01735 (86072624)	0.01585 (86072624)
60.0	0.01982c(86072024)	0.02007c(86072024)	0.01963c(86072024)	0.01880c(86072024)	0.01776c(86072024)
70.0	0.02191c(86072024)	0.02226c(86072024)	0.02146c(86072024)	0.02014c(86072024)	0.01867c(86072024)
80.0	0.01648c(86101124)	0.01577c(86090724)	0.01415c(86101124)	0.01295c(86101124)	0.01190c(86022624)
90.0	0.01315c(86022624)	0.01257c(86022624)	0.01173c(86030524)	0.01154c(86041624)	0.01170c(86041624)
100.0	0.01450 (86011324)	0.01337c(86122524)	0.01350c(86071924)	0.01340c(86122524)	0.01286c(86030524)
110.0	0.02154c(86060624)	0.02097c(86012324)	0.01889c(86012324)	0.01717c(86012324)	0.01575c(86012324)
120.0	0.01668c(86052224)	0.01822c(86052224)	0.01877c(86052224)	0.01808c(86012324)	0.01682c(86012324)
130.0	0.01626 (86042824)	0.01605 (86042824)	0.01647c(86012824)	0.01594 (86042624)	0.01448 (86042624)
140.0	0.01290 (86050324)	0.01255c(86061024)	0.01250c(86061024)	0.01216c(86030524)	0.01172 (86042624)
150.0	0.01566c(86090824)	0.01554c(86090824)	0.01429c(86090824)	0.01269c(86090824)	0.01149 (86032124)
160.0	0.01634 (86101624)	0.01617 (86110324)	0.01428 (86032324)	0.01367 (86032324)	0.01295 (86032324)
170.0	0.01871 (86012424)	0.01850 (86012424)	0.01858 (86012424)	0.01885 (86012424)	0.01916 (86012424)
180.0	0.01569c(86122624)	0.01582c(86122624)	0.01595c(86122624)	0.01601c(86122624)	0.01598c(86122624)
190.0	0.01295 (86102124)	0.01247 (86102124)	0.01186 (86102124)	0.01121 (86102124)	0.01058 (86102124)
200.0	0.01442c(86111324)	0.01374 (86121624)	0.01364 (86102824)	0.01397 (86102824)	0.01365 (86120424)
210.0	0.01644 (86121624)	0.01589c(86111324)	0.01483c(86092724)	0.01392 (86121624)	0.01316 (86121624)
220.0	0.01609 (86060524)	0.01690 (86060524)	0.01726 (86060524)	0.01611c(86090124)	0.01486 (86010824)
230.0	0.01483c(86082324)	0.01415 (86033024)	0.01419 (86102224)	0.01443 (86010924)	0.01452 (86102224)
240.0	0.01716 (86112224)	0.01622c(86092724)	0.01589c(86092724)	0.01539c(86092724)	0.01488c(86092724)
250.0	0.01593 (86062624)	0.01472 (86062624)	0.01349 (86062624)	0.01270c(86082224)	0.01239c(86082224)
260.0	0.01452 (86062624)	0.01415 (86121424)	0.01392 (86121424)	0.01357 (86121424)	0.01312c(86092724)
270.0	0.01911c(86082624)	0.01729c(86082624)	0.01639 (86112324)	0.01606 (86112324)	0.01547 (86112324)
280.0	0.01968 (86112824)	0.01794 (86112824)	0.01587 (86112824)	0.01557 (86052724)	0.01542 (86052724)
290.0	0.01910 (86040624)	0.01728 (86062324)	0.01702 (86062324)	0.01665 (86062324)	0.01624 (86062324)
300.0	0.02033c(86080924)	0.01759c(86080924)	0.01630 (86052624)	0.01751 (86030924)	0.01695 (86040624)
310.0	0.02148c(86093024)	0.02079c(86093024)	0.01919c(86093024)	0.01708c(86093024)	0.01576 (86122324)
320.0	0.01610 (86112524)	0.01542c(86050724)	0.01404 (86112524)	0.01302 (86112524)	0.01201 (86112524)
330.0	0.01518c(86082524)	0.01438c(86053024)	0.01308 (86101324)	0.01348 (86031324)	0.01315c(86082524)
340.0	0.01671c(86020424)	0.01728c(86020424)	0.01701c(86020424)	0.01624c(86020424)	0.01523c(86020424)
350.0	0.01855c(86082724)	0.01662 (86031224)	0.01558 (86031224)	0.01434 (86031224)	0.01382 (86082124)
360.0	0.01729 (86112624)	0.01748 (86112624)	0.01744 (86112624)	0.01723 (86112624)	0.01690 (86112624)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 650.00	700.00	750.00	800.00	850.00
10.0	0.01502 (86082024)	0.01512c(86071324)	0.01413c(86071324)	0.01370 (86121224)	0.01377 (86121224)
20.0	0.01326 (86081724)	0.01279 (86081724)	0.01223 (86081724)	0.01198 (86011024)	0.01239 (86011024)
30.0	0.01353c(86081924)	0.01316c(86081924)	0.01270c(86081924)	0.01215c(86081924)	0.01157c(86081924)
40.0	0.01459 (86080424)	0.01329 (86080424)	0.01213 (86080424)	0.01106 (86080424)	0.01129 (86021024)
50.0	0.01446 (86072624)	0.01321 (86072624)	0.01250 (86112024)	0.01264 (86112024)	0.01268 (86112024)
60.0	0.01667c(86072024)	0.01560c(86072024)	0.01460c(86072024)	0.01368c(86072024)	0.01309c(86022624)
70.0	0.01726c(86072024)	0.01599c(86072024)	0.01494c(86072024)	0.01397c(86072024)	0.01314c(86072024)
80.0	0.01118c(86022624)	0.01041c(86022624)	0.00966c(86022624)	0.00902c(86081824)	0.00880c(86081824)
90.0	0.01173c(86041624)	0.01165c(86041624)	0.01171 (86012024)	0.01170 (86012024)	0.01157 (86012024)
100.0	0.01224c(86030524)	0.01157c(86030524)	0.01086c(86030524)	0.01016c(86030524)	0.00950c(86030524)
110.0	0.01452c(86012324)	0.01347c(86012324)	0.01248c(86012324)	0.01157c(86012324)	0.01076c(86012324)
120.0	0.01595 (86022024)	0.01582c(86052224)	0.01472c(86052224)	0.01366c(86052224)	0.01308c(86012324)
130.0	0.01306 (86042624)	0.01175 (86042624)	0.01139c(86121724)	0.01126 (86102624)	0.01180 (86102624)
140.0	0.01144 (86042624)	0.01113 (86042624)	0.01079 (86042624)	0.01043 (86042624)	0.01011 (86042624)
150.0	0.01197 (86032124)	0.01233 (86032124)	0.01256 (86032124)	0.01274 (86032124)	0.01273 (86032124)
160.0	0.01266 (86011124)	0.01359 (86011124)	0.01440 (86011124)	0.01517 (86011124)	0.01565 (86011124)
170.0	0.01878 (86120524)	0.01956 (86012424)	0.01952 (86012424)	0.01946 (86012424)	0.01912 (86012424)
180.0	0.01595c(86122624)	0.01680 (86122824)	0.01662 (86110324)	0.01620 (86110324)	0.01575 (86120524)
190.0	0.01001 (86102124)	0.01022c(86122624)	0.01051 (86060524)	0.01025 (86060524)	0.00995 (86060524)
200.0	0.01314 (86121624)	0.01311 (86121624)	0.01310 (86121624)	0.01306 (86121624)	0.01295 (86121624)
210.0	0.01247 (86121624)	0.01198 (86101924)	0.01195 (86101924)	0.01189 (86101924)	0.01168 (86101924)
220.0	0.01568 (86010824)	0.01613 (86060524)	0.01553 (86060524)	0.01491 (86060524)	0.01423 (86060524)
230.0	0.01461 (86102224)	0.01466 (86102224)	0.01470 (86102224)	0.01466 (86102224)	0.01454 (86102224)
240.0	0.01461 (86102924)	0.01519 (86102924)	0.01570 (86102924)	0.01633 (86102924)	0.01665 (86102924)
250.0	0.01238 (86092024)	0.01237 (86092024)	0.01231 (86092024)	0.01227 (86092024)	0.01212 (86092024)
260.0	0.01275 (86121424)	0.01228 (86121424)	0.01188 (86110924)	0.01178 (86110924)	0.01160 (86110924)
270.0	0.01475 (86112324)	0.01396 (86112324)	0.01318 (86112324)	0.01242 (86112324)	0.01217 (86051524)
280.0	0.01434 (86062324)	0.01337 (86062324)	0.01275c(86040324)	0.01245 (86040424)	0.01218 (86040424)
290.0	0.01501c(86093024)	0.01366c(86093024)	0.01279 (86052624)	0.01250 (86052624)	0.01222 (86052624)
300.0	0.01577 (86052624)	0.01531 (86052624)	0.01476 (86052624)	0.01417 (86052624)	0.01416 (86122324)
310.0	0.01573c(86100324)	0.01407c(86100324)	0.01305 (86112524)	0.01243 (86112524)	0.01179 (86112524)
320.0	0.01104 (86112524)	0.01013 (86112524)	0.00929 (86112524)	0.00853 (86112524)	0.00784c(86053024)
330.0	0.01227c(86082524)	0.01139c(86082524)	0.01054c(86082524)	0.00973c(86082524)	0.00957 (86031224)
340.0	0.01413c(86020424)	0.01305c(86020424)	0.01233c(86102524)	0.01270c(86102524)	0.01286c(86102524)
350.0	0.01331 (86082124)	0.01278 (86082124)	0.01224 (86082124)	0.01221 (86052024)	0.01223 (86052024)
360.0	0.01616c(86071324)	0.01535c(86071324)	0.01476 (86082024)	0.01497 (86112624)	0.01448 (86112624)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 900.00	950.00	1000.00
10.0	0.01361 (86121224)	0.01335 (86121224)	0.01303 (86121224)
20.0	0.01253 (86011024)	0.01256 (86011024)	0.01248 (86011024)
30.0	0.01099c(86081924)	0.01054 (86072824)	0.01029 (86072824)
40.0	0.01154 (86021024)	0.01158 (86021024)	0.01154 (86021024)
50.0	0.01270 (86112024)	0.01247 (86100424)	0.01243 (86112024)
60.0	0.01213 (86100424)	0.01177 (86121824)	0.01164 (86121824)
70.0	0.01244c(86072024)	0.01180c(86072024)	0.01123c(86072024)
80.0	0.00858c(86020724)	0.00867c(86122524)	0.00880c(86020724)
90.0	0.01140 (86012024)	0.01113 (86012024)	0.01082 (86012024)
100.0	0.00887c(86030524)	0.00858c(86090624)	0.00873c(86090624)
110.0	0.01002c(86012324)	0.00934c(86012324)	0.00882 (86011324)
120.0	0.01266c(86012324)	0.01231c(86012324)	0.01200c(86012324)
130.0	0.01219 (86102624)	0.01254 (86102624)	0.01275c(86012824)
140.0	0.01014 (86122924)	0.01013 (86032124)	0.01054c(86012524)
150.0	0.01260 (86032124)	0.01240 (86032124)	0.01198 (86101624)
160.0	0.01600 (86011124)	0.01623 (86011124)	0.01634 (86111524)
170.0	0.01870 (86012424)	0.01820 (86012424)	0.01773c(86103024)
180.0	0.01621 (86110224)	0.01678 (86110224)	0.01719 (86110224)
190.0	0.00968 (86060524)	0.00955 (86122724)	0.00961 (86122724)
200.0	0.01280 (86121624)	0.01262 (86121624)	0.01249 (86010724)
210.0	0.01142 (86101924)	0.01112 (86101924)	0.01074 (86101924)
220.0	0.01356 (86060524)	0.01333 (86111424)	0.01318 (86111424)
230.0	0.01438 (86102224)	0.01419 (86092024)	0.01414 (86092024)
240.0	0.01691 (86102924)	0.01702 (86102924)	0.01695 (86102924)
250.0	0.01167 (86091524)	0.01112 (86091524)	0.01066c(86082224)
260.0	0.01142 (86110924)	0.01124 (86020924)	0.01104 (86020924)
270.0	0.01193 (86051524)	0.01179c(86091024)	0.01157c(86091024)
280.0	0.01188 (86040424)	0.01153 (86040424)	0.01113 (86040424)
290.0	0.01183 (86052624)	0.01143 (86052624)	0.01098 (86052624)
300.0	0.01440 (86122324)	0.01452 (86122324)	0.01444 (86122324)
310.0	0.01116 (86112524)	0.01056 (86112524)	0.01014 (86031824)
320.0	0.00750c(86110624)	0.00737c(86110624)	0.00719c(86110624)
330.0	0.00988 (86031224)	0.01014 (86031224)	0.01029 (86031224)
340.0	0.01293c(86102524)	0.01293c(86102524)	0.01282c(86102524)
350.0	0.01209 (86052024)	0.01189 (86052024)	0.01162 (86052024)
360.0	0.01391 (86112624)	0.01336 (86112624)	0.01281 (86112624)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 2ND HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	0.02892c	(86090124)	15.24	0.00	0.03397	(86103124)
30.48	0.00	0.02639	(86103124)	45.72	0.00	0.03157	(86121624)
60.96	0.00	0.02405	(86102824)	76.20	0.00	0.02741	(86091724)
91.44	0.00	0.02796	(86091724)	106.68	0.00	0.02414	(86122724)
121.92	0.00	0.03310c	(86122624)	137.16	0.00	0.03795	(86122224)
152.40	0.00	0.03785	(86122124)	167.64	0.00	0.03299c	(86103024)
182.88	0.00	0.03098	(86101724)	198.12	0.00	0.03345	(86032824)
213.36	0.00	0.02293	(86062624)	213.36	15.24	0.02515	(86062624)
213.36	30.48	0.02578	(86011424)	213.36	45.72	0.02768	(86041924)
213.36	60.96	0.03214c	(86041424)	213.36	76.20	0.03050c	(86012824)
213.36	91.44	0.03675c	(86012524)	213.36	106.68	0.05417	(86102624)
213.36	121.92	0.06106c	(86060624)	213.36	137.16	0.05314	(86011324)
213.36	152.40	0.03318c	(86042524)	213.36	167.64	0.05123c	(86071424)
213.36	182.88	0.04826c	(86041624)	213.36	198.12	0.03941c	(86020724)
213.36	213.36	0.05963	(86040824)	213.36	221.29	0.04659	(86100424)
198.12	221.29	0.04759c	(86021824)	182.88	221.29	0.04200	(86072624)
167.64	221.29	0.05682c	(86090624)	152.40	221.29	0.06444c	(86081824)
137.16	221.29	0.06526	(86081324)	121.92	221.29	0.06302	(86121024)
106.68	221.29	0.05402	(86031324)	91.44	221.29	0.03699c	(86050724)
76.20	221.29	0.03316	(86031924)	60.96	221.29	0.04123	(86112524)
45.72	221.29	0.03915c	(86081224)	30.48	221.29	0.04186c	(86080924)
15.24	221.29	0.03966c	(86051824)	0.00	221.29	0.02989c	(86100324)
0.00	213.36	0.03325c	(86100324)	0.00	198.12	0.03496c	(86020424)
0.00	182.88	0.03683c	(86100824)	0.00	167.64	0.04150c	(86092924)
0.00	152.40	0.03317c	(86082624)	0.00	137.16	0.02762	(86110924)
0.00	121.92	0.03577c	(86060324)	0.00	106.68	0.02939c	(86051324)
0.00	91.44	0.02701	(86111124)	0.00	76.20	0.03446	(86102924)
0.00	60.96	0.02615c	(86082224)	0.00	45.72	0.02612c	(86051724)
0.00	30.48	0.02476	(86092624)	0.00	15.24	0.02709c	(86090124)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	0.08421	(86072324)	AT (	152.40,	221.29)	DC	26.	0.05556	(86063024)	AT (	137.16,	221.29)	DC
2.	0.07934c	(86071924)	AT (	213.36,	167.64)	DC	27.	0.05521	(86031224)	AT (	106.68,	221.29)	DC
3.	0.07349c	(86012924)	AT (	181.68,	240.55)	GP	28.	0.05515c	(86060824)	AT (	181.68,	240.55)	GP
4.	0.07088c	(86012324)	AT (	213.36,	121.92)	DC	29.	0.05485c	(86041224)	AT (	152.40,	221.29)	DC
5.	0.06746c	(86050724)	AT (	76.20,	221.29)	DC	30.	0.05417	(86102624)	AT (	213.36,	106.68)	DC
6.	0.06731	(86082024)	AT (	137.16,	221.29)	DC	31.	0.05402	(86031324)	AT (	106.68,	221.29)	DC
7.	0.06723	(86100924)	AT (	121.92,	221.29)	DC	32.	0.05392	(86030424)	AT (	213.36,	213.36)	DC
8.	0.06526	(86081324)	AT (	137.16,	221.29)	DC	33.	0.05314	(86011324)	AT (	213.36,	137.16)	DC
9.	0.06444c	(86081824)	AT (	152.40,	221.29)	DC	34.	0.05243	(86113024)	AT (	121.92,	221.29)	DC
10.	0.06355	(86030324)	AT (	198.12,	221.29)	DC	35.	0.05217	(86022224)	AT (	167.64,	221.29)	DC
11.	0.06302	(86121024)	AT (	121.92,	221.29)	DC	36.	0.05215c	(86061124)	AT (	152.40,	221.29)	DC
12.	0.06227c	(86012924)	AT (	167.64,	221.29)	DC	37.	0.05200	(86111724)	AT (	152.40,	221.29)	DC
13.	0.06169c	(86071924)	AT (	247.63,	161.95)	GP	38.	0.05198	(86071224)	AT (	137.16,	221.29)	DC
14.	0.06106c	(86060624)	AT (	213.36,	121.92)	DC	39.	0.05190c	(86071324)	AT (	137.16,	221.29)	DC
15.	0.06087	(86072324)	AT (	157.98,	251.60)	GP	40.	0.05142c	(86100524)	AT (	213.36,	182.88)	DC
16.	0.06052c	(86072524)	AT (	213.36,	213.36)	DC	41.	0.05129	(86112624)	AT (	137.16,	221.29)	DC
17.	0.05995	(86030324)	AT (	203.10,	225.55)	GP	42.	0.05129	(86071724)	AT (	137.16,	221.29)	DC
18.	0.05991	(86012624)	AT (	137.16,	221.29)	DC	43.	0.05123c	(86071424)	AT (	213.36,	167.64)	DC
19.	0.05963	(86040824)	AT (	213.36,	213.36)	DC	44.	0.05114	(86020524)	AT (	152.40,	221.29)	DC
20.	0.05953	(86042924)	AT (	213.36,	137.16)	DC	45.	0.05079c	(86102524)	AT (	121.92,	221.29)	DC
21.	0.05893c	(86012324)	AT (	213.36,	106.68)	DC	46.	0.05066c	(86050824)	AT (	152.40,	221.29)	DC
22.	0.05730	(86072724)	AT (	152.40,	221.29)	DC	47.	0.05046c	(86093024)	AT (	0.00,	198.12)	DC
23.	0.05682c	(86090624)	AT (	167.64,	221.29)	DC	48.	0.05003	(86121824)	AT (	221.59,	207.06)	GP
24.	0.05643	(86061324)	AT (	167.64,	221.29)	DC	49.	0.04996c	(86072524)	AT (	213.36,	221.29)	DC
25.	0.05603	(86072324)	AT (	167.64,	221.29)	DC	50.	0.04955	(86112724)	AT (	137.16,	221.29)	DC

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

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

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.08421	ON 86072324: AT (	152.40,	221.29,	0.00,	0.00)	DC	
	HIGH 2ND HIGH VALUE IS	0.06526	ON 86081324: AT (	137.16,	221.29,	0.00,	0.00)	DC	

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary For ISC2 Model Execution ***

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

Total of 0 Fatal Error Message(s)
Total of 0 Warning Message(s)
Total of 328 Informational Message(s)

Total of 328 Calm Hours Identified

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

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

****
*** ISCST2 Finishes Successfully ***
****

Run: FMXTDI8

TDI Annual Average Emission Rates

```
                    ISCST2 EXTENDED MODEL - (DATED 92062)

                    IBM-PC VERSION (1.01)
                    (C) COPYRIGHT 1992, TRINITY CONSULTANTS, INC.
                    SERIAL NUMBER 8025 SOLD TO CROSS TESSITORE & ASSOCIATES
                    RUN BEGAN ON 01/21/93 AT 11:11:26


CO STARTING
   TITLEONE Foamex TDI Sources: Foam Line Stack & Rebond Process Exhaust
   TITLETWO Annual Average Emission Rates
CO MODELOPT DFAULT CONC RURAL
CO AVERTIME PERIOD
   POLLUTID OTHER
   RUNORNOT RUN
CO FINISHED

   STARTING

** Source Location Cards:
          SRCID SRCTYP       XS            YS            ZS

SO LOCATION     1 POINT      175.8720      119.7880       .0000
   LOCATION     2 POINT      141.4290      162.7650       .0000
   LOCATION     3 POINT      141.4290      166.4230       .0000

   Source Parameter Cards:
   POINT:   SRCID       QS             HS         TS         VS         DS
** VOLUME:  SRCID       QS             HS       SYINIT     SZINIT
** AREA:    SRCID       QS             HS        XINIT

SO SRCPARAM     1    .0033208         38.1000   299.8200   24.3810     .7021
SO SRCPARAM     2    .0001239         12.4968   299.8200    1.0348     .7620
   SRCPARAM     3    .0001239         12.4968   299.8200    1.0348     .7620

** NOTE:  Direction-Specific Building Heights Used for Non-SS Source     1
   BUILDHGT     1     15.24     15.24     15.24     15.24     15.24     15.24
   BUILDHGT     1       .00       .00       .00       .00       .00       .00
SO BUILDHGT     1       .00       .00     15.24     15.24     15.24       .00
SO BUILDHGT     1       .00     15.24     15.24     15.24     15.24     15.24
   BUILDHGT     1       .00       .00       .00       .00       .00       .00
SO BUILDHGT     1       .00       .00     15.24     15.24     15.24     15.24
SO BUILDHGT     2     12.19     12.19     10.67     10.67     10.67     10.67
   BUILDHGT     2     10.67     10.67     10.67     10.67     10.67     10.67
   BUILDHGT     2     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     2     10.67     12.19     10.67     10.97     10.97     10.97
   BUILDHGT     2     10.97     10.97     10.67     10.67     10.67     10.67
   BUILDHGT     2     12.19     12.19     12.19     12.19     12.19     12.19
SO BUILDHGT     3     12.19     12.19     10.67     10.67     10.67     10.67
SO BUILDHGT     3     10.67     10.67     10.67     10.67     10.67     10.67
   BUILDHGT     3     10.67     10.67     10.67     10.67     10.67     10.67
SO BUILDHGT     3     10.67     10.67     10.67     10.67     10.97     10.97
SO BUILDHGT     3     10.97     10.97     10.67     10.67     10.67     10.67
   BUILDHGT     3     12.19     12.19     12.19     12.19     12.19     12.19
   NOTE:  Direction-Specific Building Widths Used for Non-SS Source      1
SO BUILDWID     1     84.68     91.23     95.01     95.96     95.84     93.53
```

```
SO BUILDWID     1       .00       .00       .00       .00       .00       .00
SO BUILDWID     1       .00       .00     93.84     90.70     83.88       .00
SO BUILDWID     1       .00     91.23     95.01     95.96     95.84     93.53
SO BUILDWID     1       .00       .00       .00       .00       .00       .00
SO BUILDWID     1       .00       .00     93.84     90.70     83.88     75.55
SO BUILDWID     2     84.68     88.29    196.53    209.06    215.24    215.89
SO BUILDWID     2    214.49    206.95    193.13    194.58    194.74    192.50
SO BUILDWID     2    186.24    176.60    161.59    148.74    138.57    125.52
SO BUILDWID     2    154.11     88.29    196.53     24.84     24.73     23.71
SO BUILDWID     2     21.98     19.58    193.13    194.58    194.74    192.50
SO BUILDWID     2    125.05    122.42    116.07    106.20     93.09     77.16
SO BUILDWID     3     84.68     87.62    196.53    209.06    215.24    215.89
SO BUILDWID     3    214.49    206.95    193.13    194.58    194.74    192.50
SO BUILDWID     3    186.24    176.60    161.59    148.74    138.57    125.52
SO BUILDWID     3    154.11    178.03    196.53    209.06     24.58     23.71
SO BUILDWID     3     21.98     19.58    193.13    194.58    194.74    192.50
SO BUILDWID     3    124.83    122.42    116.07    106.20     93.09     77.16
SO EMISUNIT    .100000E+07 (GRAMS/SEC)          (MICROGRAMS/CUBIC-METER)
SO SRCGROUP ALL
SO FINISHED

   STARTING
   GRIDPOLR POL1 STA
RE GRIDPOLR POL1 ORIG   106.68  110.6424
   GRIDPOLR POL1 DIST   150. 200. 250. 300. 350. 400. 450. 500. 550.
   GRIDPOLR POL1 DIST   600. 650. 700. 750. 800. 850. 900. 950. 1000.
RE GRIDPOLR POL1 GDIR   36  10.  10.
RE GRIDPOLR POL1 END
   DISCCART        .00       .00
   DISCCART      15.24       .00
RE DISCCART      30.48       .00
   DISCCART      45.72       .00
   DISCCART      60.96       .00
RE DISCCART      76.20       .00
   DISCCART      91.44       .00
   DISCCART     106.68       .00
RE DISCCART     121.92       .00
RE DISCCART     137.16       .00
   DISCCART     152.40       .00
   DISCCART     167.64       .00
RE DISCCART     182.88       .00
   DISCCART     198.12       .00
   DISCCART     213.36       .00
RE DISCCART     213.36     15.24
RE DISCCART     213.36     30.48
   DISCCART     213.36     45.72
RE DISCCART     213.36     60.96
RE DISCCART     213.36     76.20
   DISCCART     213.36     91.44
   DISCCART     213.36    106.68
RE DISCCART     213.36    121.92
   DISCCART     213.36    137.16
   DISCCART     213.36    152.40
RE DISCCART     213.36    167.64
RE DISCCART     213.36    182.88
   DISCCART     213.36    198.12
RE DISCCART     213.36    213.36
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RE DISCCART      213.36     221.29
E DISCCART       198.12     221.29
RE DISCCART      182.88     221.29
RE DISCCART      167.64     221.29
E DISCCART       152.40     221.29
E DISCCART       137.16     221.29
RE DISCCART      121.92     221.29
E DISCCART       106.68     221.29
E DISCCART        91.44     221.29
RE DISCCART       76.20     221.29
RE DISCCART       60.96     221.29
E DISCCART        45.72     221.29
E DISCCART        30.48     221.29
RE DISCCART       15.24     221.29
E DISCCART          .00     221.29
E DISCCART          .00     213.36
RE DISCCART         .00     198.12
E DISCCART          .00     182.88
E DISCCART          .00     167.64
RE DISCCART         .00     152.40
RE DISCCART         .00     137.16
E DISCCART          .00     121.92
E DISCCART          .00     106.68
RE DISCCART         .00      91.44
E DISCCART          .00      76.20
E DISCCART          .00      60.96
RE DISCCART         .00      45.72
E DISCCART          .00      30.48
E DISCCART          .00      15.24
E FINISHED

 STARTING
E INPUTFIL C:\modELS\iscst2\ORLTMP86.BIN    UNFORM
 ANEMHGHT   10.000 METERS
 SURFDATA  12815  1986            SURFNAME
E UAIRDATA  12842  1986            UAIRNAME
E WINDCATS    1.54    3.09    5.14    8.23   10.80
 FINISHED

 STARTING
 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 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 PERIOD Averages Only

**This Run Includes: 3 Source(s); 1 Source Group(s); and 706 Receptor(s)

*The Model Assumes A Pollutant Type of: OTHER

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

*Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor

*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/CUBIC-METER)

**Input Runstream File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDIA.NEW ; **Output Print File: D:\MODELDAT\ISCST2\FOAMEX\FMXTDIA.LST

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	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
1	0	0.33208E-02	175.9	119.8	0.0	38.10	299.82	24.38	0.70	YES	
2	0	0.12390E-03	141.4	162.8	0.0	12.50	299.82	1.03	0.76	YES	
3	0	0.12390E-03	141.4	166.4	0.0	12.50	299.82	1.03	0.76	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	1 , 2 , 3 ,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: 1

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	15.2,	84.7,	0	2	15.2,	91.2,	0	3	15.2,	95.0,	0	4	15.2,	96.0,	0	5	15.2,	95.8,	0	6	15.2,	93.5,	0
7	0.0,	0.0,	0	8	0.0,	0.0,	0	9	0.0,	0.0,	0	10	0.0,	0.0,	0	11	0.0,	0.0,	0	12	0.0,	0.0,	0
13	0.0,	0.0,	0	14	0.0,	0.0,	0	15	15.2,	93.8,	0	16	15.2,	90.7,	0	17	15.2,	83.9,	0	18	0.0,	0.0,	0
19	0.0,	0.0,	0	20	15.2,	91.2,	0	21	15.2,	95.0,	0	22	15.2,	96.0,	0	23	15.2,	95.8,	0	24	15.2,	93.5,	0
25	0.0,	0.0,	0	26	0.0,	0.0,	0	27	0.0,	0.0,	0	28	0.0,	0.0,	0	29	0.0,	0.0,	0	30	0.0,	0.0,	0
31	0.0,	0.0,	0	32	0.0,	0.0,	0	33	15.2,	93.8,	0	34	15.2,	90.7,	0	35	15.2,	83.9,	0	36	15.2,	75.6,	0

SOURCE ID: 2

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	12.2,	84.7,	0	2	12.2,	88.3,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	12.2,	88.3,	0	21	10.7,	196.5,	0	22	11.0,	24.8,	0	23	11.0,	24.7,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	125.1,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

SOURCE ID: 3

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	12.2,	84.7,	0	2	12.2,	87.6,	0	3	10.7,	196.5,	0	4	10.7,	209.1,	0	5	10.7,	215.2,	0	6	10.7,	215.9,	0
7	10.7,	214.5,	0	8	10.7,	206.9,	0	9	10.7,	193.1,	0	10	10.7,	194.6,	0	11	10.7,	194.7,	0	12	10.7,	192.5,	0
13	10.7,	186.2,	0	14	10.7,	176.6,	0	15	10.7,	161.6,	0	16	10.7,	148.7,	0	17	10.7,	138.6,	0	18	10.7,	125.5,	0
19	10.7,	154.1,	0	20	10.7,	178.0,	0	21	10.7,	196.5,	0	22	10.7,	209.1,	0	23	11.0,	24.6,	0	24	11.0,	23.7,	0
25	11.0,	22.0,	0	26	11.0,	19.6,	0	27	10.7,	193.1,	0	28	10.7,	194.6,	0	29	10.7,	194.7,	0	30	10.7,	192.5,	0
31	12.2,	124.8,	0	32	12.2,	122.4,	0	33	12.2,	116.1,	0	34	12.2,	106.2,	0	35	12.2,	93.1,	0	36	12.2,	77.2,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

*** ORIGIN FOR POLAR NETWORK ***
X-ORIG = 106.68 ; Y-ORIG = 110.64 (METERS)

*** DISTANCE RANGES OF NETWORK ***
(METERS)

150.0, 200.0, 250.0, 300.0, 350.0, 400.0, 450.0, 500.0, 550.0, 600.0,
650.0, 700.0, 750.0, 800.0, 850.0, 900.0, 950.0, 1000.0,

*** DIRECTION RADIALS OF NETWORK ***
(DEGREES)

10.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0,
110.0, 120.0, 130.0, 140.0, 150.0, 160.0, 170.0, 180.0, 190.0, 200.0,
210.0, 220.0, 230.0, 240.0, 250.0, 260.0, 270.0, 280.0, 290.0, 300.0,
310.0, 320.0, 330.0, 340.0, 350.0, 360.0,

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(0.0,	0.0,	0.0,	0.0);	(15.2,	0.0,	0.0,	0.0);
(30.5,	0.0,	0.0,	0.0);	(45.7,	0.0,	0.0,	0.0);
(61.0,	0.0,	0.0,	0.0);	(76.2,	0.0,	0.0,	0.0);
(91.4,	0.0,	0.0,	0.0);	(106.7,	0.0,	0.0,	0.0);
(121.9,	0.0,	0.0,	0.0);	(137.2,	0.0,	0.0,	0.0);
(152.4,	0.0,	0.0,	0.0);	(167.6,	0.0,	0.0,	0.0);
(182.9,	0.0,	0.0,	0.0);	(198.1,	0.0,	0.0,	0.0);
(213.4,	0.0,	0.0,	0.0);	(213.4,	15.2,	0.0,	0.0);
(213.4,	30.5,	0.0,	0.0);	(213.4,	45.7,	0.0,	0.0);
(213.4,	61.0,	0.0,	0.0);	(213.4,	76.2,	0.0,	0.0);
(213.4,	91.4,	0.0,	0.0);	(213.4,	106.7,	0.0,	0.0);
(213.4,	121.9,	0.0,	0.0);	(213.4,	137.2,	0.0,	0.0);
(213.4,	152.4,	0.0,	0.0);	(213.4,	167.6,	0.0,	0.0);
(213.4,	182.9,	0.0,	0.0);	(213.4,	198.1,	0.0,	0.0);
(213.4,	213.4,	0.0,	0.0);	(213.4,	221.3,	0.0,	0.0);
(198.1,	221.3,	0.0,	0.0);	(182.9,	221.3,	0.0,	0.0);
(167.6,	221.3,	0.0,	0.0);	(152.4,	221.3,	0.0,	0.0);
(137.2,	221.3,	0.0,	0.0);	(121.9,	221.3,	0.0,	0.0);
(106.7,	221.3,	0.0,	0.0);	(91.4,	221.3,	0.0,	0.0);
(76.2,	221.3,	0.0,	0.0);	(61.0,	221.3,	0.0,	0.0);
(45.7,	221.3,	0.0,	0.0);	(30.5,	221.3,	0.0,	0.0);
(15.2,	221.3,	0.0,	0.0);	(0.0,	221.3,	0.0,	0.0);
(0.0,	213.4,	0.0,	0.0);	(0.0,	198.1,	0.0,	0.0);
(0.0,	182.9,	0.0,	0.0);	(0.0,	167.6,	0.0,	0.0);
(0.0,	152.4,	0.0,	0.0);	(0.0,	137.2,	0.0,	0.0);
(0.0,	121.9,	0.0,	0.0);	(0.0,	106.7,	0.0,	0.0);
(0.0,	91.4,	0.0,	0.0);	(0.0,	76.2,	0.0,	0.0);
(0.0,	61.0,	0.0,	0.0);	(0.0,	45.7,	0.0,	0.0);
(0.0,	30.5,	0.0,	0.0);	(0.0,	15.2,	0.0,	0.0);

**** MODELING OPTIONS USED: 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
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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	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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: C:\modELS\iscst2\ORLTMP86.BIN FORMAT: UNFORM
SURFACE STATION NO.: 12815 UPPER AIR STATION NO.: 12842
NAME: SURFNAME NAME: UAIRNAME
YEAR: 1986 YEAR: 1986

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
86	1	1	1	1.0	3.60	289.3	4	639.0	639.0
86	1	1	2	168.0	5.14	288.7	4	639.0	639.0
86	1	1	3	124.0	3.09	288.2	4	639.0	639.0
86	1	1	4	353.0	2.57	288.2	4	639.0	639.0
86	1	1	5	333.0	2.57	288.7	4	639.0	639.0
86	1	1	6	332.0	2.57	288.7	4	639.0	639.0
86	1	1	7	335.0	3.09	288.7	4	639.0	639.0
86	1	1	8	3.0	3.60	289.3	4	639.0	639.0
86	1	1	9	347.0	3.60	289.8	4	639.0	639.0
86	1	1	10	1.0	5.14	292.0	4	639.0	639.0
86	1	1	11	14.0	4.63	292.6	4	639.0	639.0
86	1	1	12	16.0	4.12	294.3	4	639.0	639.0
86	1	1	13	73.0	3.09	295.4	4	639.0	639.0
86	1	1	14	49.0	3.60	297.0	4	639.0	639.0
86	1	1	15	142.0	2.06	296.5	4	639.0	639.0
86	1	1	16	144.0	2.06	295.9	4	639.0	639.0
86	1	1	17	261.0	2.06	295.4	4	639.0	639.0
86	1	1	18	257.0	2.06	292.6	4	644.0	644.0
86	1	1	19	274.0	3.60	291.5	4	655.0	655.0
86	1	1	20	227.0	3.09	290.9	4	666.0	666.0
86	1	1	21	230.0	3.09	290.9	4	678.0	678.0
86	1	1	22	252.0	2.57	290.4	5	689.0	477.0
86	1	1	23	290.0	2.06	290.4	4	700.0	700.0
86	1	1	24	290.0	1.00	290.4	4	712.0	712.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	550.00
10.00	0.00575	0.00420	0.00319	0.00261	0.00226	0.00203	0.00187	0.00174	0.00163
20.00	0.00602	0.00373	0.00276	0.00229	0.00201	0.00183	0.00169	0.00158	0.00148
30.00	0.00538	0.00354	0.00260	0.00213	0.00186	0.00166	0.00152	0.00140	0.00131
40.00	0.00444	0.00302	0.00230	0.00194	0.00172	0.00158	0.00146	0.00137	0.00129
50.00	0.00471	0.00340	0.00253	0.00206	0.00178	0.00159	0.00145	0.00134	0.00126
60.00	0.00379	0.00294	0.00230	0.00188	0.00165	0.00151	0.00141	0.00133	0.00126
70.00	0.00253	0.00200	0.00171	0.00157	0.00147	0.00140	0.00134	0.00128	0.00123
80.00	0.00237	0.00174	0.00126	0.00114	0.00113	0.00111	0.00108	0.00103	0.00099
90.00	0.00270	0.00182	0.00123	0.00107	0.00106	0.00104	0.00099	0.00094	0.00089
100.00	0.00271	0.00201	0.00144	0.00129	0.00122	0.00114	0.00106	0.00098	0.00090
110.00	0.00204	0.00168	0.00157	0.00146	0.00142	0.00137	0.00129	0.00121	0.00114
120.00	0.00225	0.00155	0.00123	0.00118	0.00122	0.00124	0.00124	0.00122	0.00119
130.00	0.00231	0.00162	0.00142	0.00128	0.00122	0.00118	0.00113	0.00108	0.00103
140.00	0.00262	0.00200	0.00152	0.00131	0.00120	0.00112	0.00106	0.00102	0.00097
150.00	0.00270	0.00203	0.00172	0.00153	0.00141	0.00131	0.00123	0.00115	0.00108
160.00	0.00248	0.00188	0.00172	0.00163	0.00152	0.00139	0.00128	0.00120	0.00112
170.00	0.00301	0.00248	0.00205	0.00174	0.00154	0.00139	0.00129	0.00121	0.00115
180.00	0.00257	0.00225	0.00202	0.00184	0.00169	0.00157	0.00147	0.00139	0.00133
190.00	0.00248	0.00207	0.00182	0.00163	0.00149	0.00137	0.00127	0.00119	0.00113
200.00	0.00225	0.00188	0.00167	0.00154	0.00143	0.00133	0.00126	0.00119	0.00113
210.00	0.00299	0.00249	0.00218	0.00196	0.00178	0.00164	0.00153	0.00143	0.00135
220.00	0.00313	0.00266	0.00236	0.00214	0.00196	0.00182	0.00169	0.00158	0.00149
230.00	0.00313	0.00269	0.00243	0.00224	0.00208	0.00196	0.00184	0.00175	0.00166
240.00	0.00339	0.00293	0.00262	0.00239	0.00222	0.00208	0.00196	0.00186	0.00177
250.00	0.00365	0.00301	0.00260	0.00233	0.00214	0.00199	0.00186	0.00175	0.00165
260.00	0.00352	0.00285	0.00248	0.00226	0.00209	0.00194	0.00181	0.00170	0.00160
270.00	0.00352	0.00280	0.00240	0.00217	0.00201	0.00188	0.00178	0.00169	0.00162
280.00	0.00328	0.00289	0.00273	0.00241	0.00212	0.00190	0.00175	0.00163	0.00154
290.00	0.00403	0.00286	0.00243	0.00224	0.00207	0.00188	0.00172	0.00159	0.00148
300.00	0.00366	0.00296	0.00239	0.00202	0.00179	0.00167	0.00160	0.00153	0.00146
310.00	0.00358	0.00271	0.00245	0.00211	0.00186	0.00169	0.00155	0.00142	0.00132
320.00	0.00378	0.00281	0.00219	0.00186	0.00165	0.00148	0.00133	0.00122	0.00112
330.00	0.00353	0.00239	0.00185	0.00156	0.00140	0.00130	0.00121	0.00113	0.00105
340.00	0.00309	0.00223	0.00193	0.00170	0.00153	0.00141	0.00132	0.00124	0.00117
350.00	0.00344	0.00274	0.00236	0.00207	0.00186	0.00170	0.00158	0.00148	0.00139
360.00	0.00462	0.00330	0.00256	0.00219	0.00198	0.00183	0.00172	0.00163	0.00155

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** NETWORK ID: POL1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	650.00	700.00	750.00	800.00	850.00	900.00	950.00	1000.00
10.00	0.00154	0.00147	0.00140	0.00134	0.00129	0.00124	0.00120	0.00115	0.00111
20.00	0.00141	0.00134	0.00128	0.00123	0.00118	0.00114	0.00109	0.00105	0.00101
30.00	0.00123	0.00116	0.00111	0.00106	0.00101	0.00097	0.00094	0.00091	0.00088
40.00	0.00122	0.00116	0.00111	0.00106	0.00102	0.00098	0.00095	0.00091	0.00088
50.00	0.00118	0.00112	0.00107	0.00102	0.00098	0.00094	0.00091	0.00088	0.00085
60.00	0.00121	0.00116	0.00111	0.00108	0.00104	0.00101	0.00098	0.00095	0.00092
70.00	0.00118	0.00113	0.00108	0.00105	0.00101	0.00097	0.00094	0.00091	0.00088
80.00	0.00094	0.00089	0.00085	0.00082	0.00078	0.00075	0.00072	0.00069	0.00067
90.00	0.00083	0.00078	0.00074	0.00070	0.00066	0.00063	0.00060	0.00057	0.00054
100.00	0.00083	0.00077	0.00072	0.00068	0.00064	0.00060	0.00057	0.00054	0.00052
110.00	0.00106	0.00100	0.00094	0.00089	0.00085	0.00081	0.00077	0.00073	0.00070
120.00	0.00115	0.00110	0.00106	0.00101	0.00097	0.00093	0.00089	0.00085	0.00082
130.00	0.00098	0.00092	0.00088	0.00083	0.00079	0.00076	0.00072	0.00069	0.00066
140.00	0.00093	0.00089	0.00086	0.00082	0.00078	0.00075	0.00072	0.00069	0.00066
150.00	0.00102	0.00097	0.00093	0.00089	0.00085	0.00082	0.00079	0.00076	0.00073
160.00	0.00107	0.00103	0.00099	0.00096	0.00093	0.00090	0.00088	0.00085	0.00083
170.00	0.00110	0.00106	0.00102	0.00099	0.00096	0.00093	0.00090	0.00087	0.00085
180.00	0.00128	0.00124	0.00120	0.00117	0.00115	0.00112	0.00109	0.00106	0.00104
190.00	0.00107	0.00103	0.00099	0.00095	0.00093	0.00090	0.00087	0.00085	0.00082
200.00	0.00108	0.00104	0.00100	0.00096	0.00093	0.00090	0.00087	0.00085	0.00082
210.00	0.00128	0.00122	0.00117	0.00112	0.00108	0.00104	0.00101	0.00097	0.00094
220.00	0.00141	0.00134	0.00128	0.00122	0.00117	0.00113	0.00109	0.00105	0.00101
230.00	0.00159	0.00152	0.00146	0.00141	0.00136	0.00131	0.00127	0.00122	0.00118
240.00	0.00170	0.00164	0.00158	0.00152	0.00148	0.00143	0.00138	0.00134	0.00129
250.00	0.00157	0.00150	0.00144	0.00138	0.00133	0.00128	0.00123	0.00119	0.00114
260.00	0.00152	0.00145	0.00138	0.00132	0.00127	0.00122	0.00118	0.00113	0.00109
270.00	0.00156	0.00151	0.00146	0.00141	0.00137	0.00133	0.00129	0.00124	0.00120
280.00	0.00146	0.00140	0.00135	0.00130	0.00126	0.00122	0.00118	0.00114	0.00110
290.00	0.00140	0.00132	0.00126	0.00120	0.00115	0.00111	0.00106	0.00102	0.00098
300.00	0.00139	0.00133	0.00128	0.00122	0.00117	0.00113	0.00109	0.00105	0.00100
310.00	0.00123	0.00116	0.00109	0.00104	0.00099	0.00095	0.00091	0.00087	0.00083
320.00	0.00104	0.00097	0.00091	0.00086	0.00081	0.00077	0.00073	0.00070	0.00067
330.00	0.00099	0.00093	0.00088	0.00083	0.00080	0.00076	0.00073	0.00070	0.00067
340.00	0.00112	0.00107	0.00102	0.00098	0.00094	0.00091	0.00088	0.00085	0.00082
350.00	0.00132	0.00125	0.00119	0.00114	0.00110	0.00106	0.00102	0.00098	0.00094
360.00	0.00148	0.00142	0.00136	0.00131	0.00127	0.00123	0.00119	0.00115	0.00112

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , 2 , 3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
0.00	0.00	0.00302	15.24	0.00	0.00322
30.48	0.00	0.00321	45.72	0.00	0.00332
60.96	0.00	0.00286	76.20	0.00	0.00274
91.44	0.00	0.00301	106.68	0.00	0.00308
121.92	0.00	0.00351	137.16	0.00	0.00375
152.40	0.00	0.00313	167.64	0.00	0.00281
182.88	0.00	0.00294	198.12	0.00	0.00272
213.36	0.00	0.00257	213.36	15.24	0.00262
213.36	30.48	0.00259	213.36	45.72	0.00264
213.36	60.96	0.00291	213.36	76.20	0.00303
213.36	91.44	0.00300	213.36	106.68	0.00353
213.36	121.92	0.00427	213.36	137.16	0.00397
213.36	152.40	0.00340	213.36	167.64	0.00361
213.36	182.88	0.00470	213.36	198.12	0.00500
213.36	213.36	0.00508	213.36	221.29	0.00447
198.12	221.29	0.00468	182.88	221.29	0.00544
167.64	221.29	0.00663	152.40	221.29	0.00850
137.16	221.29	0.00887	121.92	221.29	0.00727
106.68	221.29	0.00551	91.44	221.29	0.00462
76.20	221.29	0.00451	60.96	221.29	0.00455
45.72	221.29	0.00455	30.48	221.29	0.00425
15.24	221.29	0.00392	0.00	221.29	0.00344
0.00	213.36	0.00342	0.00	198.12	0.00403
0.00	182.88	0.00423	0.00	167.64	0.00473
0.00	152.40	0.00444	0.00	137.16	0.00417
0.00	121.92	0.00450	0.00	106.68	0.00443
0.00	91.44	0.00443	0.00	76.20	0.00438
0.00	60.96	0.00400	0.00	45.72	0.00364
0.00	30.48	0.00337	0.00	15.24	0.00318

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF OTHER IN (MICROGRAMS/CUBIC-METER) **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00887 AT (	137.16,	221.29,	0.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	0.00850 AT (	152.40,	221.29,	0.00,	0.00)	DC	
	3RD HIGHEST VALUE IS	0.00727 AT (	121.92,	221.29,	0.00,	0.00)	DC	
	4TH HIGHEST VALUE IS	0.00663 AT (	167.64,	221.29,	0.00,	0.00)	DC	
	5TH HIGHEST VALUE IS	0.00602 AT (	157.98,	251.60,	0.00,	0.00)	GP	POL1
	6TH HIGHEST VALUE IS	0.00575 AT (	132.73,	258.36,	0.00,	0.00)	GP	POL1

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

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** Message Summary For ISC2 Model Execution ***

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

Total of 0 Fatal Error Message(s)
Total of 0 Warning Message(s)
Total of 328 Informational Message(s)

Total of 328 Calm Hours Identified

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

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

****
*** ISCST2 Finishes Successfully ***
****

ATTACHMENT 2

FOAMEX L.P.

Progress Report & Emission Control Schedule

(Orlando Flexible Polyurethane Foam Manufacturing Facility)

ATTACHMENT 2

Foamex L.P. Progress Report & Emission Control Schedule

(Orlando Flexible Polyurethane Foam Manufacturing Facility)

FDER Permit Issued	June 1993
Submission to FDER 1st Progress Report	October 1993
Submission to FDER 2nd Progress Report	June 1994
Submission to FDER 3rd Progress Report	December 1994
Submission to FDER Permit Modification	March 1995
Begin Installation of Final Selection	June 1995
Submission to FDER of Certificate of Completion	December 1995

ATTACHMENT 3

FOAMEX L.P.

Progress Report Content

(Orlando Flexible Polyurethane Foam Manufacturing Facility)

ATTACHMENT 3

Foamex L.P. Progress Report Content

(Orlando Flexible Polyurethane Foam Manufacturing Facility)

1st Progress Report — December 1993

a) Status of engineering/design for Capture and Disperse concepts.

b) Current status of industry and EPA data for Capture and Treat concepts.

c) Current status of Process and Equipment Modification approaches. This report will include status of Foamex installation of VPF system.

2nd Progress Report — June 1994

a) Preliminary engineering/design drawings for Capture and Disperse concept.

b) Updated status of industry and EPA data for Capture and Treat concepts.

c) Updated status of Process and Equipment Modification approaches, including current operational data from Foamex VPF system.

3rd Progress Report — December 1994

a) Final engineering/design drawings for Capture and Disperse concept.

b) Final status of industry and EPA data for Capture and Treat concept.

c) Final status of Process and Equipment Modification approaches, including current operational data from Foamex VPF system.

d) Selection of final concept which may include any of the above concepts and/or combinations. This final selection will be based on existing criteria, including: 1) economics, 2) performance, and 3) current OSHA, FDER, and EPA regulations.

Submission of FDER Construction Permit Modification — March 1995

Based on the final selection of December 1994, a final permit application will be prepared and submitted. This application will reflect the final configuration including any of the studies concepts or combinations of controls, chemical substitution, and/or process or equipment modification.

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

December 22, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Charles Eavenson, Plant Manager
Foamex, L.P.
1351 Gemini Boulevard
Orlando, Florida 32821

Dear Mr. Eavenson:

Re: Applications for Permits to Construct a Flexible Polyurethane Foam Manufacturing Facility

The Bureau of Air Regulation has made a preliminary review of your December 2, 1992, applications for permits to construct a slabstock polyurethane foam production line, a rebond polyurethane foam production line, tank storage area, steam boiler, environmental heating systems, and foam fabrication operation.

Please provide the following additional information to complete these applications.

1. Where is the toluene diisocyanate incinerator located? If in Florida, does it have a Department air permit? If Foamex is the operator of this incinerator in Florida, please provide either the permit number or an application for permit for it.

2. What are the 8-hr, 24-hr, and annual ambient air impacts of toluene diisocyanate emissions from the polyurethane foam facility?

3. On page 1-30 (VI. Foam Fabrication Operation) please clarify the 43.7 foot stack diameter listed in Section H.

4. Please provide a more detailed schedule on the company's investigation to use either another process or add air pollution control at this facility. We want to know what the ongoing studies are, what is expected to be learned from the study, and by what date.

5. Why does the boiler operate longer than the slabstock polyurethane foam production facility? Is it on "stand-by" or do other operations at the facility use steam?

6. What means are used to contain spills and minimize fugitive emissions during process chemical storage and handling?

7. Can any of the blowing agents captured by a carbon adsorption system be recycled at the facility? If so, what is the value of the agent recovered? How does this affect the economics of the BACT determination?

8. Please describe the equipment cleaning practices at this facility. How much and what types of solvents are used? What is done to minimize emissions of these solvents? How are the used solvents disposed of?

9. Under the Clean Air Act Amendment of 1990, use of HCFC for non-insulating foams is prohibited after January 1, 1994 (page 6-A-45 of the application). Any permit issued will reflect that limitation. What will be used after this date?

The Department will resume processing your applications after receipt of the requested information. Please write to me or call Willard Hanks at (904) 488-1344, if you have any questions on this matter.

Sincerely,

John C. Brown, Jr.

John C. Brown, Jr., P.E.
Administrator
Air Permitting and Standards

JCB/WH/plm

cc: Charles Collins, CD
Joe Tessitore, P.E.

PS Form 3811, July 1983 447-845

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2. ☐ Restricted Delivery.

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Charles Eavenson, Plant Mgr.
Doanex, L.P.
1351 Gemini Blvd.
Orlando, Fl 32821

4. Type of Service:
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☒ Certified ☐ COD
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Article Number
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6. Signature – Agent
X N. Bowser

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12/24/92

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PS Form 3800, June 1991

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Charles Eavenson
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