

Harding Lawson Associates



September 30, 1994

26005.F21.816

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

RECEIVED
OCT 3 1994

Bureau of
Air Regulation

**Response to Proposed
Permit Conditions
Foamex L.P.
DEP File No. AC48-214902**

Dear Mr. Fancy:

We are in receipt of the Technical Evaluation and Preliminary Determination and the proposed Construction Permit conditions issued by your office on August 22, 1994 for the Foamex L.P. (Foamex) flexible polyurethane foam manufacturing facility located in Orlando. This letter presents a summary of the comments by Foamex and Harding Lawson Associates/Cross Tessitore & Associates (HLA/CTA) and requested changes to the proposed Specific Conditions #2, 3 and 4 issued by FDEP. The comments presented in this letter have been discussed previously by phone with Mr. Willard Hanks of your staff. Mr. Hanks requested that the comments be submitted in writing.

Attachments 2 and 3 provide pages from the permit application Volume 1 and Volume 2, respectively, that have been revised to reflect the changes requested in each comment. As discussed in the following comments and as stated in these attachments, the requested changes in Specific Conditions 2, 3 and 4 do not result in any substantial increase in the calculated maximum ground level concentrations for methylene chloride, toluene diisocyanate, or 1,1,1-trichloroethane. The maximum ground level concentrations remain below the FDEP Acceptable Ambient Air Concentrations (AAAC) for these compounds.

Should you have any questions or comments regarding this information, please do not hesitate to contact Ms. Kay Rykowski or Mr. Joe Tessitore at (407) 851-1484.

Yours very truly,

HARDING LAWSON ASSOCIATES

A handwritten signature in cursive script that reads "Patricia Kay Rykowski".

Patricia Kay Rykowski
Project Engineer

PKR/pkr

foamex12.doc/

A handwritten signature in cursive script that reads "Joseph L. Tessitore".

Joseph L. Tessitore, P.E.
Managing Principal

cc: Mr. Arthur Pereira, Foamex L.P.
Mr. Doug Terrill, Foamex L.P.

Engineering and
Environmental Services

4763 South Conway Road, Orlando, FL 32812 407/851-1484 Fax 407/855-0369
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COMMENT 1

Foamex requests a change in the limits on the annual quantities of chemicals used at the facility stated in Specific Condition 2. Increases in the annual usage rates of polymer, polyol and toluene diisocyanate are requested to allow for production of high density foam grades that do not require the use of a blowing agent. Polymer and polyol do not contain Volatile Organic Compounds (VOC) or Hazardous Air Pollutants (HAP), and the usage rates of these materials do not affect any emission calculations included in the application. Attachment 1 provides Material Safety Data Sheets (MSDS) for these chemicals.

Since toluene diisocyanate (TDI) is also required for the production of such high density foam grades, an increase in the annual TDI usage rate is also requested. Both emission rates and air quality impact levels of TDI were calculated in the permit application, thus HLA/CTA revised the analyses to account for the requested increase in the annual TDI usage rate. A summary of the revised analyses are provided below.

	As Stated in Permit Application	Revised As Per Requested Change to Specific Condition 2
Annual TDI Usage Rate	2325 TPY	5000 TPY
Maximum TDI Emission Rate	0.129 TPY 0.3746 lb/hr	0.157 TPY 0.3746 lb/hr
Maximum TDI Ground Level Concentration	0.15 $\mu\text{g}/\text{m}^3$ (8 hr) 0.02 $\mu\text{g}/\text{m}^3$ (24 hr)	0.15 $\mu\text{g}/\text{m}^3$ (8 hr) 0.02 $\mu\text{g}/\text{m}^3$ (24 hr)
FDEP AAAC - TDI		0.36 $\mu\text{g}/\text{m}^3$ (8 hr) 0.0864 $\mu\text{g}/\text{m}^3$ (24 hr)

As a result of the requested change in annual TDI usage, the total annual TDI emissions increased from 0.129 tpy to 0.31 tpy. However, the maximum 8-hr and 24-hr TDI groundlevel concentrations did not change as a result of this emissions increase and thus remain well below the FDEP Acceptable Ambient Air Concentrations (AAAC).

An increase in the annual usage rate of mineral spirits to 1000 lbs/hr is also requested. Mineral spirits is included as one of the cleanup solvents used at the facility and this usage rate does not impact any emission calculations included in the application.

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The requested change in Specific Condition 2 is provided below.

From:

2. The chemicals used at this facility shall not exceed the following quantities during any 12 month period: 513,090 lbs/yr (256.6 TPY) methylene chloride; 270,000 lbs/yr (135 TPY) polymer; 8,800,000 lbs/yr (4,400 TPY) polyol; and, 4,650,000 lbs/yr (2,325 TPY) toluene diisocyanate. Cleanup solvent losses shall not exceed: 2 gallons/month isopropyl alcohol; 5,770 lbs/yr 1,1,1-trichloroethane with silicone lubricant; and, 97.5 lbs/yr mineral spirits.

Compliance with this condition shall be determined by records of purchases, inventory changes, and receipts for chemicals disposed of off site. The permittee shall maintain a log showing the amount of chemicals used each month to document compliance with these limitations.

To:

2. The chemicals used at this facility shall not exceed the following quantities during any 12 month period: 513,090 lbs/yr (256.6 TPY) methylene chloride; 1,000,000 lbs/yr (500 TPY) polymer; 15,000,000 lbs/yr (7,500 TPY) polyol; and, 10,000,000 lbs/yr (5,000 TPY) toluene diisocyanate. Cleanup solvent losses shall not exceed: 2 gallons/month isopropyl alcohol; 5,770 lbs/yr 1,1,1-trichloroethane with silicone lubricant; and, 1000 lbs/yr mineral spirits.

Compliance with this condition shall be determined by records of purchases, inventory changes, and receipts for chemicals disposed of off site. The permittee shall maintain a log showing the amount of chemicals used each month to document compliance with these limitations.

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COMMENT 2

Foamex requests a change in the maximum operating times stated in Specific Condition 3 for the Slabstock Process, Rebond Process and Foam Fabrication operations at the facility. The weekly Slabstock Process operation is requested to be increased from 4 days/wk to 5 days/wk, the daily Foam Fabrication operation is requested to be increased from 12 hrs/day to 16 hrs/day, and the daily Rebond process operation is requested to be increased from 12 hrs/day to 24 hrs/day. These changes are requested to provide for greater flexibility in production scheduling, and to allow for production of the high density foam grades as discussed under Comment 1 above. The requested increases in operating times for each operation result in an increase in the annual emission rate of TDI; this emission increase was considered along with the increase in annual TDI usage discussed under Comment 1 above. The requested increases in the operating time for the Foam Fabrication and Rebond process operations result in an increase in the maximum 24-hr average emission rates for the facility exhaust fans (Source Numbers 3 through 21) used in the dispersion modeling analysis for calculation of maximum 24-hr ground level concentrations of methylene chloride, TDI and 1,1,1-Trichloroethane. HLA/CTA revised this analysis to account for the increased emission rates, and the results are summarized below.

	As Stated in Permit Application	Revised As Per Requested Change to Specific Condition 3
Methylene Chloride 24 hr Maximum Emission Rate Exhaust Fans 3-19	0.64949 lb/hr	0.67078 lb/hr
TDI 24 hr Maximum Emission Rate Rebond Exhaust Fans 20-21	0.00115 lb/hr	0.0023 lb/hr
1,1,1-Trichloroethane 24 hr Maximum Emission Rate Exhaust Fans 3-19	0.07353 lb/hr	0.098 lb/hr
Maximum 24 hr Ground Level Concentrations:		
Methylene Chloride	84.9 $\mu\text{g}/\text{m}^3$	85.3 $\mu\text{g}/\text{m}^3$
TDI	0.02 $\mu\text{g}/\text{m}^3$	0.02 $\mu\text{g}/\text{m}^3$
1,1,1-Trichloroethane	2.3 $\mu\text{g}/\text{m}^3$	3.1 $\mu\text{g}/\text{m}^3$
FDEP AAAC - Methylene Chloride	417.6 $\mu\text{g}/\text{m}^3$ (24 hr)	
FDEP AAAC - TDI	0.0864 $\mu\text{g}/\text{m}^3$ (24 hr)	
FDEP AAAC - 1,1,1-Trichloroethane	9168 $\mu\text{g}/\text{m}^3$ (24 hr)	

These results show that the maximum 24 hr ground level concentrations for each compound remain well below the FDEP AAAC.

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The requested change in Specific Condition 2 is provided below.

From:

3. Maximum operation times for each operation at this facility are:

Operation	hrs/day	days/week	weeks/year	hrs/year
Slabstock Process	3	4	52	624
Rebond Process	12	6	52	3744
Foam Fabrication Operations	12	6	52	3744
Tank Storage	24	7	52	8760
Steam Boiler	24	7	52	8760
Environmental				400

The permittee shall maintain a log to show compliance with this condition. The log shall be kept for a minimum of 5 years and made available for Department inspection upon request.

To:

3. Maximum operation times for each operation at this facility are:

Operation	hrs/day	days/week	weeks/year	hrs/year
Slabstock Process	3	5	52	780
Rebond Process	24	6	52	7488
Foam Fabrication Operations	16	6	52	4992
Tank Storage	24	7	52	8760
Steam Boiler	24	7	52	8760
Environmental				400

The permittee shall maintain a log to show compliance with this condition. The log shall be kept for a minimum of 5 years and made available for Department inspection upon request.

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COMMENT 3

As a result of the issues addressed in Comments 1 and 2, Foamex requests a modification of the estimated emissions stated in Specific Condition 4. The requested changes in Specific Condition 4 are provided below.

From:

4. For inventory purposes, the estimated emissions from this facility (based on the emissions factors listed in the application, the limitations on operation time, and chemical usage) are:

AVERAGE EMISSIONS FROM SIX OPERATIONS:

	lbs/hr	TPY
methylene chloride	1519.11	261.03
1,1,1-trichloroethane	2.5	1.86
toluene diisocyanate	0.3746	0.129

MAXIMUM POTENTIAL EMISSIONS FROM INDIVIDUAL OPERATIONS ARE ESTIMATED TO BE:

Operation/chemical	Emissions	
	lbs/hr	TPY
I. Slabstock Polyurethane Foam Production		
a) toluene diisocyanate	0.37	0.12
b) Foam Line Stack		
methylene chloride	955.8	153.93
c) Long Bun Storage Room Stack		
methylene chloride	577.55	89.79
II. Foam Fabric Operations		
methylene chloride	5.1	14.41
1,1,1-trichloroethane	2.5	1.86
III. Rebond Polyurethane Foam Production		
toluene diisocyanate	0.0046	0.009
IV. Tank Storage (Tank No. 10)		
methylene chloride	0.66	2.92
V. Steam Boiler	Trace amounts of the normal products of combustion (less than 1 lb/hr of all pollutants)	
VI. Environmental Heating	Trace amounts of the normal products of combustion (less than 1 lb/hr of all pollutants)	

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To:

4. For inventory purposes, the estimated emissions from this facility (based on the emissions factors listed in the application, the limitations on operation time, and chemical usage) are:

AVERAGE EMISSIONS FROM SIX OPERATIONS:

	lbs/hr	TPY
methylene chloride	1519.11	261.03
1,1,1-trichloroethane	2.5	1.86
toluene diisocyanate	0.3746	0.157

MAXIMUM POTENTIAL EMISSIONS FROM INDIVIDUAL OPERATIONS ARE ESTIMATED TO BE:

Operation/chemical	Emissions	
	lbs/hr	TPY
I. Slabstock Polyurethane Foam Production		
a) toluene diisocyanate	0.37	0.14
b) Foam Line Stack methylene chloride	955.8	153.93
c) Long Bun Storage Room Stack methylene chloride	577.55	89.79
II. Foam Fabric Operations		
methylene chloride	5.1	14.41
1,1,1-trichloroethane	2.5	1.86
III. Rebond Polyurethane Foam Production		
toluene diisocyanate	0.0046	0.017
IV. Tank Storage (Tank No. 10)		
methylene chloride	0.66	2.92
V. Steam Boiler	Trace amounts of the normal products of combustion (less than 1 lb/hr of all pollutants)	
VI. Environmental Heating	Trace amounts of the normal products of combustion (less than 1 lb/hr of all pollutants)	

Attachment 1
Material Safety Data Sheets (MSDS)
Polyol
Polymer

Polyol

MATERIAL SAFETY DATA SHEET

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BASF CORPORATION
1419 BIDDLE AVENUE

WYANDOTTE, MI 48192
(313) 246-5246

Original Date: 11/14/7
Revision Date: 11/14/7

Emergency Telephone: (800) 424-9300 (CHEMTREC)
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

Tradename:
PLURACOL-POLYOL 924

Common Chemical Name:
POLYETHER POLYOL

Synonyms:
CONVENTIONAL POLYOL

Molecular Formula:
CONVENTIONAL POLYOL

Molecular Wt.: NOT ESTABLISHED

Chemical Family: Polyether polyol

SECTION 2 - INGREDIENTS

Chemical Name:	CAS Number:	Amount:	PEL/TLV Data:
PLURACOL Polyol 924	9082-00-2	100.0 X	NOT ESTABLISHED

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

SECTION 3 - PHYSICAL PROPERTIES

Color: Water White
Form/Appearance: Liquid
Odor: Polyol
Odor Intensity: Low

	Typical	Low-RANGE-High	Unit of Measure	
Sp. Gravity:	1.020			
Bulk Density:	8.5100		LB/GAL	
Viscosity:	565.000		CP @ 25.0 DEG	
pH:	NOT AVAILABLE			
	Typical	Low-RANGE-High	Deg.	@ Pressure
Boiling Pt:	NOT AVAILABLE			
Freezing Pt:	NOT AVAILABLE			
Decomp. Temp:	NOT AVAILABLE			

Solubility in Water Description: Slightly Soluble
Vapor Density: LOW, NO DATA

pH: Neutral

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low-RANGE-High	Deg.	Method
Flash Point:	400.0			F PENSKY-MARTINS CLOS
Autoignition:	NOT AVAILABLE			

Extinguishing Media:

Use water fog, foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:

None known.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gasses include inhalation and eye and skin contact.

PLURACOL Polyol 924 - Low hazard liquid.

Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation. Inhalation of the vapors or mists may result in respiratory irritation. Ingestion of the liquid may result in gastric disturbances. There are no other known acute effects associated with this material.

Chronic Overexposure Effects:

There are no other known chronic effects associated with this material.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

First Aid Procedures - Eyes:

Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

SECTION 5 - HEALTH EFFECTS (Cont.)

First Aid Procedures - Special Precautions:
None

SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:

Stable

Reactivity - Incompatibility:

Avoid moisture to protect product quality.

Reactivity - Conditions/Hazards to Avoid:

Exposure to moisture and temperatures > 80F.

Reactivity - Hazardous Decomposition/Polymerization:

Hazardous decomposition products: CO and CO₂.

Reactivity - Corrosive Properties:

Not Corrosive.

Reactivity - Oxidizer Properties:

Not an oxidizer

Other Reactivity Data:

None known.

SECTION 7 - PERSONAL PROTECTION

Personal Protection - Clothing:

Gloves, coveralls, apron, boots as necessary to prevent skin contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

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SECTION 7 - PERSONAL PROTECTION (Cont.)

Personal Protection - Respiration:

Approved organic vapor mist respirator as necessary.

Personal Protection - Ventilation:

Use local exhaust to control vapors/mists.

Personal Protection - Explosion Proofing:

None required.

Other Personal Protection Data:

Avoid contact with skin as required by good normal hygiene practices.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal at a licensed facility.

Spill/Leak Procedures - Waste Disposal:

Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Spill/Leak Procedures - Container Disposal:

Steel drums must be emptied (as defined by RCRA, Section 261.7 or state regulations that may be more stringent) and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Drums destined for a scrap dealer or landfill must be punctured or crushed to prevent reuse.

SECTION 9 - STORAGE AND HANDLING

Storage and Handling - General:

Store in a ventilated storage area between 70-80F. Avoid excessive

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

SECTION 9 - STORAGE AND HANDLING (Cont.)

temperatures, low or high. Avoid moisture.

Other Storage and Handling Data:

No other specific storage requirements.

SECTION 10A - FEDERAL REGULATORY INFORMATION

TSCA Inventory Status:

Listed on Inventory: YES

RCRA Haz. Waste No.: N/A

CERCLA: NO Reportable Qty.: (IF YES)

SARA TITLE III; SECTION 313: NOT LISTED

SECTION 10B - STATE REGULATORY INFORMATION

State Regulatory Information: (By Component)

NJ/PA/VA/DC

CAS #: 9082-00-2 Name: PLURACOL Polyol 924

YES

SECTION 10C - OTHER REGULATORY INFORMATION

Hazard Ratings:

HMIS

Health:

1

Fire:

0

Reactivity:

0

Special:

FEMA Approved: NO

No: X

RIFM Approved: NO

No: X

IFRA Guideline: NO

Product Grades: USP:

NF:

FCC:

FDA Approved: NO

Use:

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

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SECTION 10D - ADDITIONAL REGULATORY TEXT

This product contains a chemical known to the State of California to cause cancer, birth defects and/or reproductive harm.

Product ID: NPU 583541

Name: PLURACOL-POLYOL 924

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SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class:

NONE

DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

DOT Placard Required:

ONE

DOT Poison Constituent:

NONE

BASF Commodity Codes: 344

UN/NA Code: N/A E/R Guide: NA

Bill of Lading Description:

POLYPROPYLENE GLYCOL

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END OF DATA SHEET

Polymer

MATERIAL SAFETY DATA SHEET

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BASF CORPORATION
1419 BIDDLE AVENUE

WYANDOTTE, MI 48192
(313) 246-5244

Original Date: 11/25/1991

Revision Date: 11/25/1991

Emergency Telephone: (800) 424-9300 (CHEMTREC)
(800) 932-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

Product ID: NPU 585015
PLURACOL®POLYOL 1103

Common Chemical Name:
POLYETHER POLYOL

Synonyms:
GRAFT POLYOL

Molecular Formula:
N/A

Molecular Wt.: NOT ESTABLISHED
Chemical Family: Polyether polyol

SECTION 2 - INGREDIENTS

Chemical Name:	CAS #:	Amount:	PEL/TLV Data:
PLURACOL Polyol 1103 STYRENE (MONOMER)	INHPC PROPRIETARY 100-42-5	100.0 % < 0.1 %	NOT ESTABLISHED OSHA STEL 200 PPM TRANSITIONAL OSHA TWA 100 PPM TRANSITIONAL OSHA STEL 100 PPM OSHA STEL 425 MG/CU. M OSHA TWA 50 PPM OSHA TWA 215 MG/CU. M ACGIH STEL 100 PPM ACGIH TWA 50 PPM OSHA TWA 2 PPM
ACRYLONITRILE (AN)	C 107-13-1	< 0.1 %	

SECTION 2 - INGREDIENTS (Cont.)

Chemical Name:	CAS #:	Amount:	PEL/TLV Data:
I - Denotes an IARC listed carcinogen N - Denotes an NTP listed carcinogen O - Denotes an OSHA carcinogen H - Denotes an OSHA health hazard P - Denotes an OSHA physical hazard C - Denotes a CERCLA listed chemical See section 10A for SARA-313 list.			TRANSITIONAL OSHA CEIL 10 PPM OSHA TWA 2 PPM ACGIH SKIN ACGIH TWA 2 PPM

SECTION 3 - PHYSICAL PROPERTIES

Color:	White to Opaque		
Form/Appearance:	Liquid		
Odor:	Sweet		
Odor Intensity:	Slight		
	Typical	Low-RANGE-High	U. O. M.
Spc. Gravity:	1.048		
Bulk Density:	8.7		LB/GAL
pH:	NOT AVAILABLE		
	Typical	Low-RANGE-High	Deg. @ Pressure
Boiling Pt:	NOT AVAILABLE		
Freezing Pt:	NOT AVAILABLE		
Decomp. Tmp:	NOT AVAILABLE		

Solubility in Water Description: Slightly Soluble
 Vapor Density: LOW, NO DATA

 ph: Neutral
 Viscosity: 5500 cps @ 25 deg. C. (Brookfield)
 Water, wt. % max. = 0.05

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: > 400 F PENSKEY-MARTINS CLOSED-CUP
Autoignition: NOT AVAILABLE

Extinguishing Media:

Use water fog, foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Unusual Hazards:

None known.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gasses include inhalation and eye and skin contact.

PLURACOL Polyol 1103 - Low hazard liquid

Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation. Inhalation of the vapors or mists may result in respiratory irritation. Ingestion of the liquid may result in gastric disturbances. There are no other known acute effects associated with this material. Although at excessive exposure levels AN presents a cancer hazard, this polyol had low residual AN levels and meets performance exemption (a)(2)(i.i.) of the OSHA AN standard. No special handling, labeling or surveillance are required.

Chronic Overexposure Effects:

There are no other known chronic effects associated with this material.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

SECTION 5 - HEALTH EFFECTS (Cont.)

First Aid Procedures - Eyes:

Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Reactivity - Stability Data:

Stable

Reactivity - Incompatibility:

Avoid moisture to protect product quality.

Reactivity - Conditions/Hazards to Avoid:

Exposure to moisture and temperatures > 80F.

SECTION 6 - REACTIVITY DATA (Cont.)

Reactivity - Hazardous Decomposition/Polymerization:

Hazardous decomposition products: CO and CO₂.

Reactivity - Corrosive Properties:

Not Corrosive.

Reactivity - Oxidizer Properties:

Not an oxidizer

Other Reactivity Data:

None known.

SECTION 7 - PERSONAL PROTECTION

Personal Protection - Clothing:

Gloves, coveralls, apron, boots as necessary to prevent skin contact.

Personal Protection - Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists.

Personal Protection - Respiration:

Approved organic vapor mist respirator as necessary.

Personal Protection - Ventilation:

Use local exhaust to control vapors/mists.

Personal Protection - Explosion Proofing:

None required.

Other Personal Protection Data:

Avoid contact with skin as required by good normal hygiene practices.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (Cont.)

Spill/Leak Procedures - General:

Spills should be contained, solidified and placed in suitable containers for disposal at a licensed facility.

Spill/Leak Procedures - Waste Disposal:

Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Spill/Leak Procedures - Container Disposal:

Steel drums must be emptied (as defined by RCRA, Section 261.7 or state regulations that may be more stringent) and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Drums destined for a scrap dealer or landfill must be punctured or crushed to prevent reuse.

SECTION 9 - STORAGE AND HANDLING

Storage and Handling - General:

Store in a ventilated storage area between 70-80F. Avoid excessive temperatures, low or high. Avoid moisture.

Other Storage and Handling Data:

No other specific storage requirements.

SECTION 10A - FEDERAL REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: N/A

CERCLA: NO Reportable Qty.: (If YES)

SARA TITLE III; SECTION 313: NOT LISTED

Product ID: NPU 585015
PLURACOL-POLYOL 1103

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SECTION 10B - STATE REGULATORY INFORMATION

State Regulatory Information: (By Component)	NJ/PA/MA	RTK
CAS #: 9082-00-2 NAME: OXIRANE, METHYL-, POLYMER		YES
CAS #: 58050-75-2 NAME: 2-PROPENENITRILE, POLYMER		YES

SECTION 10C - OTHER REGULATORY INFORMATION

Hazard Ratings:	Health:	Fire:	Reactivity:	Special:
HMIS	1	0	0	

SECTION 10D - ADDITIONAL REGULATORY TEXT

THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND/OR OTHER REPRODUCTIVE HARM.

Product ID: NPU 585015
PLURACOL®POLYOL 1103

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SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

NONE

DOT Technical Name:

NONE

DOT Primary Hazard Class:

NONE

DOT Secondary Hazard Class:

NONE

DOT Label Required:

NONE

DOT Placard Required:

NONE

DOT Poison Constituent:

NONE

BASF commodity Codes: 344

UN/NA Code: NONE E/R Guide: NA

Bill of Lading Description:

POLYPROPYLENE GLYCOL

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END OF DATA SHEET

Attachment 2
Revised Pages From
Application For Permit To
Construct Air Pollution Source
Volume I

product is then bonded to a polyethylene film. Finally the foam sheet product is cut to length and packaged into rolls, per customer order.

The TDI emissions from the Rebond process are currently vented to the atmosphere through two identical 1,000 CFM exhaust fans located in the ceiling directly above the process. These two exhaust fans will be increased in size to 15,000 CFM each and will be fitted with extensions to increase their stack heights to 53 feet above ground level.

2.2.3 Tank Storage

The Foamex facility includes eleven above ground storage tanks for receiving and holding of the various raw materials used in the foam production processes. Table 3.3 provides a summary of the tanks, dimensions and products stored. Only one tank, Tank 10, is used for storage of methylene chloride. Foamex proposes to install a pressure relief valve on Tank 10 to minimize standing losses of methylene chloride. No physical or operational changes to the remaining storage tanks are proposed.

2.2.4 Steam Boiler

Foamex operates a natural gas fired industrial boiler rated at 100 HP. This boiler is used to convert an average of 1,570 gallons of water to steam each day for use in the Rebond process. No changes to the operation of the steam boiler are proposed.

2.2.5 Environmental Heating

There are thirteen indirect natural gas fired heaters existing at the Foamex facility. Of these, nine are used as needed during the winter months for heating the manufacturing and administrative areas of the facility. It is estimated that these heaters operate less than 400 hours per year. The remaining four heaters are not operational. Table 3.4 provides a listing of the individual heaters and the rated capacity of each heater.

2.2.6 Foam Fabrication Operations

During foam fabrication operations, the foam buns manufactured during the Slabstock process are cut to size, assembled, and glued according to customer specifications. The fabrication operations take place throughout the facility, except for the long bun storage room. Approximately 3.1 lbs/hr of glue is used during these operations. Foamex primarily uses methylene chloride based glue in the foam fabrication operations, but may also occasionally use 1,1,1-trichloroethane based glue. The methylene chloride based glue has a maximum methylene chloride content of 70% by weight. The 1,1,1-trichloroethane based glue has a maximum concentration of 1,1,1-trichloroethane of 81% by weight. The emissions from the gluing process are vented to the atmosphere through the seventeen exhaust fans located in the ceiling throughout the facility, which will be modified as part of the proposed enhanced collection and dispersion system as described in Section 2.2.1.

2.3 Requested Permitted Operating Time

For the processes and supporting operations discussed above, the requested hours of operation in the permit application are as follows:

- Slabstock Polyurethane Foam Production: 3 hrs/day; 5 days/wk; 52 wks/yr;

- Rebond Polyurethane Foam Production: 24 hrs/day, 6 days/wk, 52 wks/yr;
- Tank Storage: 24 hrs/day, 7 days/wk, 52 wks/yr;
- Steam Boiler: 24 hrs/day, 7 days/wk, 52 wks/yr;
- Environmental Heating: 400 hrs/yr; and
- Foam Fabrication Operations: 16 hrs/day, 6 days/wk, 52 wks/yr.

**Table 2.1. Summary of Emission Sources
Foamex, L.P. - Orlando, Florida**

Process Emission Source	Emission Point Number	Description
Slabstock Polyurethane Foam Production	1	Foam Line Stack
Slabstock Polyurethane Foam Production	2	Long Bun Storage Room Stack
Slabstock Foam Production/Foam Fabrication Operations	3	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	4	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	5	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	6	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	7	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	8	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	9	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	10	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	11	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	12	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	13	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	14	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	15	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	16	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	17	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	18	Exhaust Fan
Slabstock Foam Production/Foam Fabrication Operations	19	Exhaust Fan
Rebond Polyurethane Foam Production	20	Rebond Exhaust Fan
Rebond Polyurethane Foam Production	21	Rebond Exhaust Fan
Tank Storage	22	Tank #10
Steam Boiler	23	Boiler Stack
Environmental Heating	24	Natural Gas Heaters

**Table 3.3. Tanks Storage Process Rates
Foamex, L.P. - Orlando, Florida**

Tank Number	Product	Height (feet)	Diameter (feet)	Throughput (lbs/yr)
1	Polyol	35	12	Note 1
2	Polyol	35	12	Note 1
3	TDI	35	12	Note 2
4	Polyol	35	12	Note 1
5	Polyol	35	12	Note 1
6	TDI	35	12	Note 2
7	Empty	16	10.5	0
8	Polymer	16	10.5	1,000,000
9	Empty	35	12	0
10	Methylene Chloride	37 (long)	7	513,090
11	Empty	30 (long)	7	0

Note 1: Total Polyol Throughput = 15,000,000 lbs/yr

Note 2: Total TDI Throughput = 10,000,000 lbs/yr

3.1.4 Steam Boiler

The industrial boiler used for steam production is rated at 100 hp and is fired by natural gas. The boiler is used to convert an average of 1,570 gallons of water to steam each day for the Rebond process. The maximum heat input for the boiler is 4.2 mmBtu/hr with a maximum natural gas consumption rate of 4,200 cf/hr. The maximum operating schedule for the boiler is 8760 hrs/yr.

3.1.5 Environmental Heating

There are thirteen indirect natural gas fired heaters at the Foamex facility. Of these, nine are used as needed during the winter months for heating the manufacturing and administrative areas of the facility. It is estimated that these heaters operate less than 400 hours per year. The total maximum heat input for the heaters is 1.85 mmBtu/hr, with a maximum natural gas usage rate of 1850 cf/hr. On an average basis, the natural gas usage rate is 200 cf/hr. Table 3.4 provides a listing of the individual heaters and heat input rates.

**Table 3.5. TDI Emissions Test Summary
Foamex, L.P. - Orlando, Florida**

	TDI Isomer Emissions (lb/hr)		
	2,4-TDI	2,6-TDI	Total
Run 1	0.10	0.27	0.37
Run 2	0.04	0.10	0.14
Run 3	0.07	0.15	0.22
Average	0.07	0.17	0.24

Based on the highest results for a single run, the maximum TDI emissions are 0.37 lbs/hr. The maximum operating schedule of the Slabstock process is specified in Section 2.3 of this application as 3 hrs/day, 5 days/wk, 52 wks/yr. Therefore, the maximum annual hours during which TDI emissions occur based on the hours of operation is 624 hrs/yr. Therefore, the annual emissions of TDI are be calculated as follows:

$$\begin{aligned} \text{Maximum hourly emission rate} &= 0.37 \text{ lbs/hr} \\ \text{Maximum annual emissions} &= (0.37 \text{ lbs/hr}) \times (780 \text{ hrs/yr}) \div (2000 \text{ lbs/ton}) \\ &= 0.14 \text{ tons/yr} \end{aligned}$$

3.2.2 Rebond Polyurethane Foam Production

The TDI emissions estimated above for the Slabstock process are due to due evaporation of the chemical during its use. Although no testing has been conducted, it is assumed that similar emissions are generated from the Rebond process. To estimate the quantity of TDI emissions from the Rebond process, an emission factor was developed based on the maximum hourly emission rate and the typical TDI usage rate specified in section 3.2.1 for the Slabstock process. This emission factor can then be applied to the TDI usage rate for the Rebond process to obtain the emission rate. This emission rate is calculated as follows:

$$\begin{aligned} \text{TDI emission factor} &= (0.37 \text{ lbs/hr emissions}) \div (13,420 \text{ lbs/hr usage}) \\ &= 0.000028 \text{ lbs/lb} \\ \text{Maximum hourly Rebond process TDI emission rate} &= 0.000028 \text{ lbs/lb} \times 164 \text{ lbs/hr} \\ &= 0.0046 \text{ lbs/hr} \end{aligned}$$

Using the maximum operating schedule for the Rebond process of 24 hrs/day, 6 days/wk, 52 wks/yr (7,488 hrs/yr), the maximum annual emissions are calculated as follows:

$$\begin{aligned} \text{Maximum annual Rebond process TDI emissions} &= 0.0046 \text{ lbs/hr} \times 7,488 \text{ hrs/yr} \\ &= 34.4 \text{ lbs/yr} \\ &= 0.017 \text{ tons/yr} \end{aligned}$$

3.2.3 Tank Storage

Appendix C provides detailed reports of emissions calculations for Tank 10, the methylene chloride storage tank. These reports were generated using EPA's TANKS Storage Tank Emissions Calculation Software,

**Table 3.8. Emissions Summary
Foamex, L.P. - Orlando Facility**

Contaminant	Emission Source	Emissions ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emissions (lbs/hr)	Potential ⁴ Emissions	
		Maximum (lbs/hr)	Actual (T/yr)			(lbs/hr)	(T/yr)
Methylene Chloride	Slabstock Process	1513.35	243.72	N/A	N/A	1513.35	243.72
	Tank Storage	0.66	2.9	N/A	N/A	0.69	3
	Foam Fabrication	5.1	14.41	N/A	N/A	5.1	14.41
	Subtotal	1519.11	261.03	N/A	N/A	1519.14	261.13
1,1,1 Trichloroethane	Foam Fabrication	2.5	1.86	N/A	N/A	2.5	1.86
	Subtotal	2.5	1.86	N/A	N/A	2.5	1.86
Toluene Diisocyanate	Slabstock Process	0.37	0.14	N/A	N/A	0.37	0.14
	Rebond Process	0.0046	0.017	N/A	N/A	0.0046	0.017
	Subtotal	0.3746	0.157	N/A	N/A	0.3746	0.157
Particulate	Steam Boiler	0.021	0.092	N/A	N/A	0.021	0.092
	Environmental Heating	0.00925	0.00185	N/A	N/A	0.00925	0.00185
	Subtotal	0.03025	0.09385	N/A	N/A	0.03025	0.09385
Sulfur Dioxide	Steam Boiler	0.0025	0.011	N/A	N/A	0.0025	0.011
	Environmental Heating	0.00111	0.000222	N/A	N/A	0.00111	0.000222
	Subtotal	0.00361	0.011222	N/A	N/A	0.00361	0.011222
Nitrogen Oxides	Steam Boiler	0.59	2.58	N/A	N/A	0.59	2.58
	Environmental Heating	0.259	0.0518	N/A	N/A	0.259	0.0518
	Subtotal	0.849	2.6318	N/A	N/A	0.849	2.6318
Carbon Monoxide	Steam Boiler	0.147	0.64	N/A	N/A	0.147	0.64
	Environmental Heating	0.06475	0.01295	N/A	N/A	0.06475	0.01295
	Subtotal	0.21175	0.65295	N/A	N/A	0.21175	0.65295
Total Hydrocarbons	Steam Boiler	0.013	0.055	N/A	N/A	0.013	0.055
	Environmental Heating	0.00555	0.00111	N/A	N/A	0.00555	0.00111
	Subtotal	0.01855	0.05611	N/A	N/A	0.01855	0.05611

1. See Section V, Item 2 (Application Section 3.2)
2. Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)
3. Calculated from operating rate and applicable standard.
4. Emission, if source operated without control (See Section V, Item 3).

Attachment 3
Revised Pages From
Application For Permit To
Construct Ai Pollution Source
Volume II - Dispersion Modeling Analysis

2.5 Environmental Heating

There are thirteen indirect natural gas fired heaters existing at the Foamex facility. Of these, nine are used as needed during the winter months for heating the manufacturing and administrative areas of the facility. It is estimated that these heaters operate less than 400 hours per year. The remaining four heaters are not operational. Table 2 provides a listing of the individual heaters and the rated capacity of each heater. Emissions from the heaters are not addressed in this dispersion modeling analysis.

2.6 Foam Fabrication Operations

During foam fabrication operations, the foam buns manufactured during the Slabstock process are cut to size, assembled, and glued according to customer specifications. The fabrication operations take place throughout the facility, except for the long bun storage room. Approximately 3.1 lbs/hr of glue is used during these operations. Foamex primarily uses methylene chloride based glue in the foam fabrication operations, but may also occasionally use 1,1,1-trichloroethane based glue. The methylene chloride based glue has a maximum methylene chloride content of 70% by weight. The 1,1,1-trichloroethane based glue has a maximum concentration of 1,1,1-trichloroethane of 81% by weight. The emissions of methylene chloride and 1,1,1-trichloroethane from the gluing process are analyzed in this dispersion modeling analysis. The emissions from the gluing process are vented to the atmosphere through the seventeen exhaust fans located in the ceiling throughout the facility, which will be modified as part of the proposed enhanced collection and dispersion system as described in Section 2.1.

2.7 Requested Permitted Operating Time

For the processes and supporting operations discussed above, the requested hours of operation in the permit application are as follows:

- Slabstock Polyurethane Foam Production: 3 hrs/day; 5 days/wk; 52 wks/yr;
- Rebond Polyurethane Foam Production: 24 hrs/day, 6 days/wk, 52 wks/yr;
- Tank Storage: 24 hrs/day, 7 days/wk, 52 wks/yr;
- Steam Boiler: 24 hrs/day, 7 days/wk, 52 wks/yr;
- Environmental Heating: 400 hrs/yr; and
- Foam Fabrication Operations: 16 hrs/day, 6 days/wk, 52 wks/yr.

13.0 EMISSION RATES

Maximum hourly and daily usage rates were used to calculate the 8-hour and 24-hour average emission rates for each compound listed in Table 6. The maximum annual usage of methylene chloride was used to calculate the annual average emission rates of methylene chloride from the facility. The calculation of the emission rates used in the analysis is shown below and summarized in Table 7.

Compounds modeled:

Methylene Chloride
Toluene Diisocyanate (TDI)
1,1,1-Trichloroethane

Slabstock Foam Production Methylene Chloride emission distribution:

Foam Line Stack = 60%
Long Bun Storage Room Stack = 35%
17 Exhaust Fans = 5%

It is assumed that the 17 exhaust fans' emissions are equally distributed among all 17 exhaust fans.

Maximum hourly slabstock foam production methylene chloride usage rate = 1,593 lb/hr

Maximum daily slabstock foam production hours of operation = 3.0 hr/day

Maximum daily slabstock foam production methylene chloride usage = 1,593 lb/hr x 3.0 hr/day
= 4,779 lb/day

8-hour average slabstock foam production methylene chloride emission rate = 4,779 lb/day ÷ 8 hr/day
= 597.375 lb/hr

Distributed 8-hour average slabstock foam production methylene chloride emission rates:

Foam Line Stack = 597.375 lb/hr x 60% = 358.425 lb/hr
Long Bun Storage Room Stack = 597.375 lb/hr x 35% = 209.08125 lb/hr
17 Exhaust Fans = 597.375 lb/hr x 5% = 29.86875 lb/hr

Maximum hourly glue usage rate = 3.1 lb/hr

Maximum methylene chloride content of glue = 70%

Maximum hourly gluing process methylene chloride emission rate = 3.1 lb/hr x 70% = 2.17 lb/hr

Maximum daily foam fabrication hours of operation = 16.0 hr/day

8-hour average gluing process methylene chloride emission rate:

$$17 \text{ Exhaust Fans} = 2.17 \text{ lb/hr} \times 8 \text{ hr/day} \div 8 \text{ hr/day} = 2.17 \text{ lb/hr}$$

Distributed 8-hour average total methylene chloride emission rates:

$$\begin{aligned} \text{Foam Line Stack} &= 358.425 \text{ lb/hr} \\ \text{Long Bun Storage Room Stack} &= 209.08125 \text{ lb/hr} \\ 17 \text{ Exhaust Fans} &= 29.89875 \text{ lb/hr} + 2.17 \text{ lb/hr} = 32.03875 \text{ lb/hr} \\ \text{Each Exhaust Fan} &= 32.03875 \text{ lb/hr} \div 17 = 1.884632 \text{ lb/hr} \end{aligned}$$

$$\begin{aligned} 24\text{-hour average slabstock foam production methylene chloride emission rate} &= 4,779 \text{ lb/day} \div 24 \text{ hr/day} \\ &= 199.125 \text{ lb/hr} \end{aligned}$$

Distributed 24-hour average slabstock foam production methylene chloride emission rates:

$$\begin{aligned} \text{Foam Line Stack} &= 199.125 \text{ lb/hr} \times 60\% = 119.475 \text{ lb/hr} \\ \text{Long Bun Storage Room Stack} &= 199.125 \text{ lb/hr} \times 35\% = 69.69375 \text{ lb/hr} \\ 17 \text{ Exhaust Fans} &= 199.125 \text{ lb/hr} \times 5\% = 9.95625 \text{ lb/hr} \end{aligned}$$

24-hour average gluing process methylene chloride emission rate:

$$17 \text{ Exhaust Fans} = 2.17 \text{ lb/hr} \times 16 \text{ hr/day} \div 24 \text{ hr/day} = 1.447 \text{ lb/hr}$$

Distributed 24-hour average total methylene chloride emission rates:

$$\begin{aligned} \text{Foam Line Stack} &= 119.475 \text{ lb/hr} \\ \text{Long Bun Storage Room Stack} &= 69.69375 \text{ lb/hr} \\ 17 \text{ Exhaust Fans} &= 9.95625 \text{ lb/hr} + 1.447 \text{ lb/hr} = 11.40325 \text{ lb/hr} \\ \text{Each Exhaust Fan} &= 11.40325 \text{ lb/hr} \div 17 = 0.67078 \text{ lb/hr} \end{aligned}$$

Maximum annual slabstock foam production methylene chloride usage = 513,090 lb/yr

$$\begin{aligned} \text{Annual slabstock foam production average methylene chloride emission rate} &= 513,090 \text{ lb/yr} \div 8,760 \text{ hr/yr} \\ &= 58.572 \text{ lb/hr} \end{aligned}$$

Distributed annual slabstock foam production average methylene chloride emission rates:

$$\begin{aligned} \text{Foam Line Stack} &= 58.572 \text{ lb/hr} \times 60\% = 35.1432 \text{ lb/hr} \\ \text{Long Bun Storage Room Stack} &= 58.572 \text{ lb/hr} \times 35\% = 20.5002 \text{ lb/hr} \\ 17 \text{ Exhaust Fans} &= 58.572 \text{ lb/hr} \times 5\% = 2.9286 \text{ lb/hr} \end{aligned}$$

Maximum annual glue usage = 4,600 lb/yr

$$\begin{aligned} \text{Annual gluing process average methylene chloride emission rate} &= 4,600 \text{ lb/yr} \times 70\% \div 8,760 \text{ hr/yr} \\ &= 0.3676 \text{ lb/hr} \end{aligned}$$

Distributed annual average total methylene chloride emission rates:

Foam Line Stack	=	35.1432 lb/hr		
Long Bun Storage Room Stack	=	20.5002 lb/hr		
17 Exhaust Fans	=	2.9286 lb/hr + 0.3676 lb/hr	=	3.2962 lb/hr
Each Exhaust Fan	=	3.2962 lb/hr ÷ 17	=	0.19389 lb/hr

Maximum slabstock foam production TDI emission rate = 0.37 lb/hr

Maximum daily slabstock foam production hours of operation = 3.0 hr/day

Maximum daily slabstock foam production TDI emissions = 0.37 lb/hr x 3.0 hr/day = 1.11 lb/day

TDI emission factor = 0.000028 lb emitted/lb used

Maximum hourly rebond process TDI usage rate = 164 lb/hr

Maximum hourly rebond process TDI emission rate = 164 lb/hr x 0.000028 lb/lb = 0.0046 lb/hr

Maximum daily rebond process hours of operation = 24.0 hr/day

8-hour average TDI emission rates:

Foam Line Stack	=	1.11 lb/day ÷ 8 hr/day	=	0.13875 lb/hr
2 Rebond Exhaust Fans	=	0.0046 lb/hr x 8 hr/day ÷ 8 hr/day	=	0.0046 lb/hr
Each Rebond Exhaust Fan	=	0.0046 lb/hr ÷ 2	=	0.0023 lb/hr

24-hour average TDI emission rates:

Foam Line Stack	=	1.11 lb/day ÷ 24 hr/day	=	0.04625 lb/hr
2 Rebond Exhaust Fans	=	0.0046 lb/hr x 24 hr/day ÷ 24 hr/day	=	0.0046 lb/hr
Each Rebond Exhaust Fan	=	0.0023 lb/hr ÷ 2	=	0.0023 lb/hr

Maximum hourly glue usage rate = 3.1 lb/hr

Maximum 1,1,1-trichloroethane content of glue = 81%

Maximum hourly 1,1,1-trichloroethane emission rate = 3.1 lb/hr x 81% = 2.5 lb/hr

Maximum daily foam fabrication hours of operation = 16.0 hr/day

8-hour average 1,1,1-trichloroethane emission rates:

17 Exhaust Fans	=	2.5 lb/hr x 8 hr/day ÷ 8 hr/day	=	2.5 lb/hr
Each Exhaust Fan	=	2.5 lb/hr ÷ 17	=	0.14706 lb/hr

24-hour average 1,1,1-trichloroethane emission rates:

$$\begin{aligned}
 17 \text{ Exhaust Fans} &= 2.5 \text{ lb/hr} \times 16 \text{ hr/day} \div 24 \text{ hr/day} = 1.667 \text{ lb/hr} \\
 \text{Each Exhaust Fan} &= 1.667 \text{ lb/hr} \div 17 = 0.098 \text{ lb/hr}
 \end{aligned}$$

**Table 7. Emission Rates
Foamex, L.P. - Orlando, Florida**

		Emission Rates for Compounds Modeled						
Source Number	Source Description	Methylene Chloride			Toluene Diisocyanate		1,1,1-Trichloroethane	
		8-hour (lb/hr)	24-hour (lb/hr)	Annual (lb/hr)	8-hour (lb/hr)	24-hour (lb/hr)	8-hour (lb/hr)	24-hour (lb/hr)
1	Foam Line Stack	358.425	119.475	35.1432	0.13875	0.04625	0.0	0.0
2	Long Bun Storage Room Stack	209.08125	69.69375	20.5002	0.0	0.0	0.0	0.0
3	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
4	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
5	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
6	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
7	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
8	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
9	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
10	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
11	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
12	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
13	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
14	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
15	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
16	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
17	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
18	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
19	Exhaust Fan	1.884632	0.67078	0.19389	0.0	0.0	0.14706	0.098
20	Rebond Exhaust Fan	0.0	0.0	0.0	0.0023	0.0023	0.0	0.0
21	Rebond Exhaust Fan	0.0	0.0	0.0	0.0023	0.0023	0.0	0.0

14.0 RESULTS

The ISCST2 modeling was conducted for each compound and each averaging using the emission rates presented in Section 13.0. The overall maximum ground level concentrations from the ISCST2 modeling for each case are presented in Table 8 below. The output listings for each case are presented in Appendixes D through J. For comparison, Table 8 also shows the applicable FDEP AAAC's for each compound and averaging time. For the 8-hour and 24-hour averaging times for each compound the maximum ground level concentrations are less than half of the applicable FDEP AAAC's. The resulting maximum annual ground level concentration for methylene chloride is $1.9 \mu\text{g}/\text{m}^3$, which is approximately 10% below the FDEP annual AAAC for methylene chloride of $2.1 \mu\text{g}/\text{m}^3$. Therefore, based on the results of this dispersion modeling analysis, the emissions from the Foamex facility comply with FDEP's request that concentrations resulting from facility emissions be approximately 10% below FDEP's AAAC's.

**Table 8. ISCST2 Modeling Results and Comparison with FDEP AAAC's
Foamex, L.P. - Orlando, Florida**

Compound	Averaging Time	Maximum ISCST2 Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	FDEP AAAC ($\mu\text{g}/\text{m}^3$)
Methylene Chloride	8-hour	517.4	1,740
	24-hour	85.3	417.6
	Annual	1.9	2.1
Toluene Diisocyanate	8-hour	0.15	0.36
	24-hour	0.02	0.0864
1,1,1-Trichloroethane	8-hour	7.5	38,200
	24-hour	3.1	9,168

APPENDIX E
ISCST2 OUTPUT LISTING
METHYLENE CHLORIDE 24-HOUR AVERAGE EMISSIONS
RUN: FMXMC24

ISCST2 - (DATED 93109)

IBM-PC VERSION (2.11) ISCST2F

(C) COPYRIGHT 1992, TRINITY CONSULTANTS, INC.

SERIAL NUMBER 10573 SOLD TO CROSS, TESSITORE & ASSOC.

Run Began on 9/22/1994 at 20:05:15

*** TRINITY SOURCE FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXSRC.PNT

*** TRINITY DOWNWASH FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXBPIP.WAK

*** TRINITY RECEPTOR FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXREC.REC

CO STARTING

CO TITLEONE Foamex - 125 ft Foam Line & LBSR Stacks (GEP), 53 ft Exhaust Stacks

CO TITLETWO Methylene Chloride 24-hr Average Emissions

CO MODELOPT DFAULT CONC RURAL

CO AVERTIME 24

CO POLLUTID MC_24

CO TERRHGTs FLAT

CO ELEVUNIT FEET

CO RUNORNOT RUN

CO FINISHED

SO STARTING

SO LOCATION FOAMLINE POINT	175.87	119.79	0.00	
SO SRCPARAM FOAMLINE 15.05358	38.10	299.82	24.5307	0.857
SO LOCATION LONGBUN POINT	152.40	17.07	0.00	
SO SRCPARAM LONGBUN 8.781254	38.10	299.82	24.5307	0.857
SO LOCATION EXFAN_3 POINT	108.51	97.23	0.00	
SO SRCPARAM EXFAN_3 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_4 POINT	108.51	110.64	0.00	
SO SRCPARAM EXFAN_4 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_5 POINT	108.51	119.79	0.00	
SO SRCPARAM EXFAN_5 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_6 POINT	108.51	135.64	0.00	
SO SRCPARAM EXFAN_6 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_7 POINT	108.51	152.71	0.00	
SO SRCPARAM EXFAN_7 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_8 POINT	108.51	168.86	0.00	
SO SRCPARAM EXFAN_8 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_9 POINT	108.51	183.79	0.00	
SO SRCPARAM EXFAN_9 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_10 POINT	108.51	192.94	0.00	
SO SRCPARAM EXFAN_10 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_11 POINT	147.52	97.23	0.00	
SO SRCPARAM EXFAN_11 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_12 POINT	147.52	110.64	0.00	
SO SRCPARAM EXFAN_12 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_13 POINT	147.52	119.79	0.00	
SO SRCPARAM EXFAN_13 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_14 POINT	147.52	135.64	0.00	
SO SRCPARAM EXFAN_14 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_15 POINT	147.52	152.71	0.00	
SO SRCPARAM EXFAN_15 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_16 POINT	147.52	168.86	0.00	
SO SRCPARAM EXFAN_16 0.084517	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_17 POINT	147.52	183.79	0.00	
SO SRCPARAM EXFAN_17 0.084517	16.15	299.82	24.6109	1.105

SO LOCATION EXFAN_18 POINT	147.52	192.94	0.00			
SO SRCPARAM EXFAN_18 0.084517	16.15	299.82	24.6109	1.105		
SO LOCATION EXFAN_19 POINT	182.88	102.56	0.00			
SO SRCPARAM EXFAN_19 0.084517	16.15	299.82	24.6109	1.105		
SO BUILDHGT FOAMLIN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT FOAMLIN	12.19	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT FOAMLIN	12.19	12.19	15.24	15.24	15.24	12.19
SO BUILDHGT FOAMLIN	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT FOAMLIN	12.19	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT FOAMLIN	12.19	12.19	15.24	15.24	15.24	15.24
SO BUILDWID FOAMLIN	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID FOAMLIN	39.97	39.64	38.10	39.64	39.97	39.09
SO BUILDWID FOAMLIN	37.02	33.83	93.48	88.29	80.42	12.19
SO BUILDWID FOAMLIN	18.62	88.29	93.48	95.83	95.26	91.81
SO BUILDWID FOAMLIN	39.97	39.64	38.10	39.64	39.97	39.09
SO BUILDWID FOAMLIN	37.02	33.83	93.48	88.29	80.42	70.11
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT LONGBUN	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID LONGBUN	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID LONGBUN	85.56	76.71	65.53	76.71	85.56	91.81
SO BUILDWID LONGBUN	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDWID LONGBUN	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID LONGBUN	85.56	76.71	65.53	76.71	85.56	91.81
SO BUILDWID LONGBUN	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT EXFAN_3	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_3	12.19	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT EXFAN_3	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDHGT EXFAN_3	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_3	12.19	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT EXFAN_3	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID EXFAN_3	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_3	101.55	104.18	103.63	76.71	85.56	91.81
SO BUILDWID EXFAN_3	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDWID EXFAN_3	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_3	39.97	39.64	38.10	76.71	85.56	91.81
SO BUILDWID EXFAN_3	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT EXFAN_4	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_4	10.67	12.19	12.19	12.19	15.24	15.24
SO BUILDHGT EXFAN_4	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDHGT EXFAN_4	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_4	10.67	12.19	12.19	12.19	15.24	15.24
SO BUILDHGT EXFAN_4	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID EXFAN_4	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_4	146.50	104.18	103.63	114.23	85.56	91.81
SO BUILDWID EXFAN_4	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDWID EXFAN_4	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_4	146.50	39.64	38.10	39.64	85.56	91.81
SO BUILDWID EXFAN_4	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT EXFAN_5	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_5	10.67	10.67	12.19	12.19	15.24	15.24
SO BUILDHGT EXFAN_5	10.67	10.67	10.67	12.19	12.19	10.67
SO BUILDHGT EXFAN_5	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_5	10.67	10.67	12.19	12.19	15.24	15.24

SO BUILDHGT EXFAN_5	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID EXFAN_5	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_5	146.50	135.51	103.63	114.23	85.56	91.81
SO BUILDWID EXFAN_5	150.26	148.19	141.62	101.32	87.04	97.54
SO BUILDWID EXFAN_5	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_5	146.50	135.51	38.10	39.64	85.56	91.81
SO BUILDWID EXFAN_5	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_6	10.67	10.67	10.67	12.19	10.67	10.67
SO BUILDHGT EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_6	10.67	10.67	10.67	12.19	12.19	15.24
SO BUILDHGT EXFAN_6	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID EXFAN_6	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_6	146.50	135.51	120.40	114.23	140.77	147.76
SO BUILDWID EXFAN_6	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID EXFAN_6	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_6	146.50	135.51	120.40	39.64	39.97	91.81
SO BUILDWID EXFAN_6	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_7	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID EXFAN_7	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_7	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_7	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID EXFAN_7	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_7	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_7	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID EXFAN_8	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_8	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_8	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID EXFAN_8	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_8	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_8	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID EXFAN_9	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_9	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_9	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID EXFAN_9	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_9	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_9	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67

SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID EXFAN_10	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_10	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_10	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID EXFAN_10	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID EXFAN_10	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID EXFAN_10	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT EXFAN_11	15.24	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT EXFAN_11	15.24	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID EXFAN_11	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID EXFAN_11	85.56	104.18	103.63	76.71	85.56	91.81
SO BUILDWID EXFAN_11	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDWID EXFAN_11	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID EXFAN_11	85.56	39.64	38.10	76.71	85.56	91.81
SO BUILDWID EXFAN_11	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT EXFAN_12	15.24	15.24	15.24	15.24	15.24	12.19
SO BUILDHGT EXFAN_12	12.19	12.19	12.19	12.19	12.19	15.24
SO BUILDHGT EXFAN_12	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT EXFAN_12	15.24	15.24	15.24	15.24	15.24	12.19
SO BUILDHGT EXFAN_12	12.19	12.19	12.19	12.19	12.19	15.24
SO BUILDHGT EXFAN_12	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID EXFAN_12	80.42	88.29	93.48	95.83	95.26	39.09
SO BUILDWID EXFAN_12	39.97	39.64	103.63	114.23	39.97	91.81
SO BUILDWID EXFAN_12	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDWID EXFAN_12	80.42	88.29	93.48	95.83	95.26	39.09
SO BUILDWID EXFAN_12	39.97	39.64	38.10	39.64	39.97	91.81
SO BUILDWID EXFAN_12	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT EXFAN_13	15.24	15.24	15.24	15.24	10.67	10.67
SO BUILDHGT EXFAN_13	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT EXFAN_13	15.24	15.24	15.24	15.24	12.19	12.19
SO BUILDHGT EXFAN_13	15.24	15.24	15.24	15.24	10.67	10.67
SO BUILDHGT EXFAN_13	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT EXFAN_13	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID EXFAN_13	80.42	88.29	93.48	95.83	154.93	153.04
SO BUILDWID EXFAN_13	146.50	39.64	103.63	114.23	121.36	124.80
SO BUILDWID EXFAN_13	95.26	95.83	93.48	88.29	87.04	70.11
SO BUILDWID EXFAN_13	80.42	88.29	93.48	95.83	154.93	153.04
SO BUILDWID EXFAN_13	146.50	39.64	38.10	39.64	39.97	39.09
SO BUILDWID EXFAN_13	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT EXFAN_14	15.24	15.24	15.24	10.67	10.67	10.67
SO BUILDHGT EXFAN_14	10.67	10.67	10.67	10.67	12.19	12.19
SO BUILDHGT EXFAN_14	12.19	15.24	10.67	12.19	12.19	12.19
SO BUILDHGT EXFAN_14	12.19	12.19	15.24	10.97	10.97	10.67
SO BUILDHGT EXFAN_14	10.67	10.67	10.67	10.67	12.19	12.19
SO BUILDHGT EXFAN_14	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDWID EXFAN_14	80.42	88.29	93.48	152.11	154.93	153.04
SO BUILDWID EXFAN_14	146.50	135.51	120.40	129.50	121.36	124.80
SO BUILDWID EXFAN_14	124.45	95.83	141.62	101.32	87.04	70.11
SO BUILDWID EXFAN_14	80.42	88.29	93.48	24.97	24.41	153.04
SO BUILDWID EXFAN_14	146.50	135.51	120.40	129.50	39.97	39.09

SO BUILDWID	EXFAN_14	37.02	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_15	15.24	15.24	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	12.19	10.67	10.97	10.97	10.97
SO BUILDHGT	EXFAN_15	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	12.19	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_15	80.42	88.29	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_15	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_15	124.45	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_15	80.42	88.29	144.67	24.97	24.41	23.11
SO BUILDWID	EXFAN_15	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_15	37.02	33.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_16	12.19	12.19	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.97	10.97
SO BUILDHGT	EXFAN_16	10.97	10.97	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDWID	EXFAN_16	80.42	88.29	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_16	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_16	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_16	116.96	132.83	144.67	152.11	24.41	23.11
SO BUILDWID	EXFAN_16	21.10	18.45	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_16	150.26	33.83	29.61	24.49	87.04	70.11
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.97	10.97	10.97	10.97	10.97	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_17	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_17	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_17	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_17	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_17	21.10	18.45	15.24	18.45	21.10	147.76
SO BUILDWID	EXFAN_17	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.97	10.97	10.97	10.97
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_18	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_18	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_18	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_18	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_18	146.50	135.51	15.24	18.45	21.10	23.11
SO BUILDWID	EXFAN_18	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_19	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_19	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_19	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_19	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_19	85.56	39.64	38.10	39.64	39.97	39.09

SO BUILDWID	EXFAN_19	37.02	95.83	93.48	88.29	80.42	70.11
SO BUILDWID	EXFAN_19	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_19	85.56	39.64	38.10	39.64	39.97	39.09
SO BUILDWID	EXFAN_19	37.02	95.83	93.48	88.29	80.42	70.11

SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
 SO SRCGROUP ALL
 SO FINISHED
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 RE GRIDPOLR POLAR_1 ORIG 106.68 110.64
 RE GRIDPOLR POLAR_1 DIST 150.00 200.00 250.00 300.00
 RE GRIDPOLR POLAR_1 DIST 350.00 400.00 450.00 500.00
 RE GRIDPOLR POLAR_1 DIST 550.00 600.00 650.00 700.00
 RE GRIDPOLR POLAR_1 DIST 750.00 800.00 850.00 900.00
 RE GRIDPOLR POLAR_1 DIST 950.00 1000.00
 RE GRIDPOLR POLAR_1 GDIR 36 10.00 10.00
 RE GRIDPOLR POLAR_1 END
 RE DISCCART 0.00 0.00
 RE DISCCART 15.24 0.00
 RE DISCCART 30.48 0.00
 RE DISCCART 45.72 0.00
 RE DISCCART 60.96 0.00
 RE DISCCART 76.20 0.00
 RE DISCCART 91.44 0.00
 RE DISCCART 106.68 0.00
 RE DISCCART 121.92 0.00
 RE DISCCART 137.16 0.00
 RE DISCCART 152.40 0.00
 RE DISCCART 167.64 0.00
 RE DISCCART 182.88 0.00
 RE DISCCART 198.12 0.00
 RE DISCCART 213.36 0.00
 RE DISCCART 213.36 15.24
 RE DISCCART 213.36 30.48
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 RE DISCCART 213.36 106.68
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RE FINISHED
ME STARTING
ME INPUTFIL D:\MODEL\ISCST2\FMXTEMP\ORLPRE86.BIN UNFORM
ME ANEMHGHT 10.000 METERS
ME SURFDATA 12815 1986 ORLANDO
ME UAIRDATA 12842 1986 TAMPA
ME STARTEND 1986 1 1 1 1986 12 31 24
ME FINISHED
OU STARTING
OU RECTABLE 24 FIRST
OU MAXTABLE 24 50
OU FINISHED

*** SETUP Finishes Successfully ***

*** 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
FOAMLINE	0	0.15054E+02	175.9	119.8	0.0	38.10	299.82	24.53	0.86	YES	
LONGBUN	0	0.87813E+01	152.4	17.1	0.0	38.10	299.82	24.53	0.86	YES	
EXFAN_3	0	0.84517E-01	108.5	97.2	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_4	0	0.84517E-01	108.5	110.6	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_5	0	0.84517E-01	108.5	119.8	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_6	0	0.84517E-01	108.5	135.6	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_7	0	0.84517E-01	108.5	152.7	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_8	0	0.84517E-01	108.5	168.9	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_9	0	0.84517E-01	108.5	183.8	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_10	0	0.84517E-01	108.5	192.9	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_11	0	0.84517E-01	147.5	97.2	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_12	0	0.84517E-01	147.5	110.6	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_13	0	0.84517E-01	147.5	119.8	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_14	0	0.84517E-01	147.5	135.6	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_15	0	0.84517E-01	147.5	152.7	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_16	0	0.84517E-01	147.5	168.9	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_17	0	0.84517E-01	147.5	183.8	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_18	0	0.84517E-01	147.5	192.9	0.0	16.15	299.82	24.61	1.11	YES	
EXFAN_19	0	0.84517E-01	182.9	102.6	0.0	16.15	299.82	24.61	1.11	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: FOAMLINE

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	15.2,	91.8,	0
7	12.2,	40.0,	0	8	12.2,	39.6,	0	9	12.2,	38.1,	0	10	12.2,	39.6,	0	11	12.2,	40.0,	0	12	12.2,	39.1,	0
13	12.2,	37.0,	0	14	12.2,	33.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	12.2,	12.2,	0
19	12.2,	18.6,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	15.2,	91.8,	0
25	12.2,	40.0,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	12.2,	40.0,	0	30	12.2,	39.1,	0
31	12.2,	37.0,	0	32	12.2,	33.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: LONGBUN

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	15.2,	91.8,	0
7	15.2,	85.6,	0	8	15.2,	76.7,	0	9	15.2,	65.5,	0	10	15.2,	76.7,	0	11	15.2,	85.6,	0	12	15.2,	91.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	15.2,	70.1,	0
19	15.2,	80.4,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	15.2,	91.8,	0
25	15.2,	85.6,	0	26	15.2,	76.7,	0	27	15.2,	65.5,	0	28	15.2,	76.7,	0	29	15.2,	85.6,	0	30	15.2,	91.8,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: EXFAN_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	10.7,	117.0,	0	2	10.7,	132.8,	0	3	10.7,	144.7,	0	4	10.7,	152.1,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	12.2,	101.6,	0	8	12.2,	104.2,	0	9	12.2,	103.6,	0	10	15.2,	76.7,	0	11	15.2,	85.6,	0	12	15.2,	91.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	10.7,	97.5,	0
19	10.7,	117.0,	0	20	10.7,	132.8,	0	21	10.7,	144.7,	0	22	10.7,	152.1,	0	23	10.7,	154.9,	0	24	10.7,	153.0,	0
25	12.2,	40.0,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	15.2,	76.7,	0	29	15.2,	85.6,	0	30	15.2,	91.8,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	10.7,	97.5,	0

SOURCE ID: EXFAN_4

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7,	117.0,	0	2	10.7,	132.8,	0	3	10.7,	144.7,	0	4	10.7,	152.1,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	10.7,	146.5,	0	8	12.2,	104.2,	0	9	12.2,	103.6,	0	10	12.2,	114.2,	0	11	15.2,	85.6,	0	12	15.2,	91.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	10.7,	97.5,	0
19	10.7,	117.0,	0	20	10.7,	132.8,	0	21	10.7,	144.7,	0	22	10.7,	152.1,	0	23	10.7,	154.9,	0	24	10.7,	153.0,	0
25	10.7,	146.5,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	15.2,	85.6,	0	30	15.2,	91.8,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	10.7,	97.5,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_5

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	12.2	103.6	0	10	12.2	114.2	0	11	15.2	85.6	0	12	15.2	91.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	12.2	101.3	0	17	12.2	87.0	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	12.2	38.1	0	28	12.2	39.6	0	29	15.2	85.6	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_6

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	12.2	114.2	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	12.2	39.6	0	29	12.2	40.0	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_7

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_8

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_9

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_10

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_11

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	80.4	0	2	15.2	88.3	0	3	15.2	93.5	0	4	15.2	95.8	0	5	15.2	95.3	0	6	15.2	91.8	0
7	15.2	85.6	0	8	12.2	104.2	0	9	12.2	103.6	0	10	15.2	76.7	0	11	15.2	85.6	0	12	15.2	91.8	0
13	15.2	95.3	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	15.2	80.4	0	18	15.2	70.1	0
19	15.2	80.4	0	20	15.2	88.3	0	21	15.2	93.5	0	22	15.2	95.8	0	23	15.2	95.3	0	24	15.2	91.8	0
25	15.2	85.6	0	26	12.2	39.6	0	27	12.2	38.1	0	28	15.2	76.7	0	29	15.2	85.6	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

SOURCE ID: EXFAN_12

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	80.4	0	2	15.2	88.3	0	3	15.2	93.5	0	4	15.2	95.8	0	5	15.2	95.3	0	6	12.2	39.1	0
7	12.2	40.0	0	8	12.2	39.6	0	9	12.2	103.6	0	10	12.2	114.2	0	11	12.2	40.0	0	12	15.2	91.8	0
13	15.2	95.3	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	15.2	80.4	0	18	15.2	70.1	0
19	15.2	80.4	0	20	15.2	88.3	0	21	15.2	93.5	0	22	15.2	95.8	0	23	15.2	95.3	0	24	12.2	39.1	0
25	12.2	40.0	0	26	12.2	39.6	0	27	12.2	38.1	0	28	12.2	39.6	0	29	12.2	40.0	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DEFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_13

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	80.4	0	2	15.2	88.3	0	3	15.2	93.5	0	4	15.2	95.8	0	5	10.7	154.9	0	6	10.7	153.0	0	7	10.7	146.5	0	8	12.2	39.6	0	9	12.2	103.6	0	10	12.2	114.2	0	11	12.2	121.4	0	12	12.2	124.8	0	13	15.2	95.3	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	12.2	87.0	0	18	12.2	70.1	0	19	15.2	80.4	0	20	15.2	88.3	0	21	15.2	93.5	0	22	15.2	95.8	0	23	10.7	154.9	0	24	10.7	153.0	0	25	10.7	146.5	0	26	12.2	39.6	0	27	12.2	38.1	0	28	12.2	39.6	0	29	12.2	40.0	0	30	12.2	39.1	0	31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

SOURCE ID: EXFAN_14

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	80.4	0	2	15.2	88.3	0	3	15.2	93.5	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0	7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	12.2	121.4	0	12	12.2	124.8	0	13	12.2	124.5	0	14	15.2	95.8	0	15	10.7	141.6	0	16	12.2	101.3	0	17	12.2	87.0	0	18	12.2	70.1	0	19	12.2	80.4	0	20	12.2	88.3	0	21	15.2	93.5	0	22	11.0	25.0	0	23	11.0	24.4	0	24	10.7	153.0	0	25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	12.2	40.0	0	30	12.2	39.1	0	31	12.2	37.0	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

SOURCE ID: EXFAN_15

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	80.4	0	2	15.2	88.3	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0	7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0	13	12.2	124.5	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0	19	12.2	80.4	0	20	12.2	88.3	0	21	10.7	144.7	0	22	11.0	25.0	0	23	11.0	24.4	0	24	11.0	23.1	0	25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0	31	12.2	37.0	0	32	12.2	33.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

SOURCE ID: EXFAN_16

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	80.4	0	2	12.2	88.3	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0	7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0	13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0	19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	11.0	24.4	0	24	11.0	23.1	0	25	11.0	21.1	0	26	11.0	18.4	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0	31	10.7	150.3	0	32	12.2	33.8	0	33	12.2	29.6	0	34	12.2	24.5	0	35	12.2	87.0	0	36	12.2	70.1	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_17

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	11.0	21.1	0	26	11.0	18.4	0	27	11.0	15.2	0	28	11.0	18.4	0	29	11.0	21.1	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_18

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	11.0	15.2	0	28	11.0	18.4	0	29	11.0	21.1	0	30	11.0	23.1	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_19

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	80.4	0	2	15.2	88.3	0	3	15.2	93.5	0	4	15.2	95.8	0	5	15.2	95.3	0	6	15.2	91.8	0
7	15.2	85.6	0	8	12.2	39.6	0	9	12.2	38.1	0	10	12.2	39.6	0	11	12.2	40.0	0	12	12.2	39.1	0
13	12.2	37.0	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	15.2	80.4	0	18	15.2	70.1	0
19	15.2	80.4	0	20	15.2	88.3	0	21	15.2	93.5	0	22	15.2	95.8	0	23	15.2	95.3	0	24	15.2	91.8	0
25	15.2	85.6	0	26	12.2	39.6	0	27	12.2	38.1	0	28	12.2	39.6	0	29	12.2	40.0	0	30	12.2	39.1	0
31	12.2	37.0	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	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, 221.0, 0.0, 0.0);
(198.1, 221.0, 0.0, 0.0);	(182.9, 221.0, 0.0, 0.0);
(167.6, 221.0, 0.0, 0.0);	(152.4, 221.0, 0.0, 0.0);
(137.2, 221.0, 0.0, 0.0);	(121.9, 221.0, 0.0, 0.0);
(106.7, 221.0, 0.0, 0.0);	(91.4, 221.0, 0.0, 0.0);
(76.2, 221.0, 0.0, 0.0);	(61.0, 221.0, 0.0, 0.0);
(45.7, 221.0, 0.0, 0.0);	(30.5, 221.0, 0.0, 0.0);
(15.2, 221.0, 0.0, 0.0);	(0.0, 221.0, 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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, LONGBUN , EXFAN_3 , EXFAN_4 , EXFAN_5 , EXFAN_6 , EXFAN_7 ,
 EXFAN_8 , EXFAN_9 , EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

*** NETWORK ID: POLAR_1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF MC_24 IN MICROGRAMS/M**3 **

DIRECTION (DEGREES)	DISTANCE (METERS)				
	150.00	200.00	250.00	300.00	350.00
10.0	19.21289c(86071324)	35.16600c(86071324)	50.65448c(86071324)	60.25093c(86071324)	63.84105c(86071324)
20.0	15.83821c(86071324)	26.97327c(86071324)	35.94915c(86071324)	39.15234c(86071324)	37.72186c(86071324)
30.0	12.03480c(86060824)	20.98272c(86060824)	27.41836c(86060824)	30.04874c(86053124)	32.08131c(86053124)
40.0	10.70153c(86060824)	17.13762c(86053124)	29.97893c(86053124)	37.42680c(86053124)	46.91085 (86080424)
50.0	8.50263 (86022724)	16.85438c(86053124)	26.15456c(86053124)	33.57967 (86072624)	43.75244 (86072624)
60.0	8.09543 (86022724)	12.16617c(86071524)	21.61551c(86071524)	31.98387c(86072024)	42.27779c(86072024)
70.0	7.05003 (86011924)	11.11646c(86071524)	19.39050c(86072024)	33.38242c(86072024)	44.56841c(86072024)
80.0	8.47138 (86012724)	9.50061c(86071524)	17.14726c(86071524)	25.58853 (86091224)	35.25631 (86091224)
90.0	8.82883 (86012724)	10.09588 (86012724)	16.77104c(86071524)	27.62041c(86071524)	35.12342c(86071524)
100.0	9.52281 (86012724)	10.43049 (86012724)	12.31142c(86050824)	23.42595c(86071524)	31.82590c(86071524)
110.0	8.95988 (86012724)	9.91207 (86042924)	15.86384 (86042924)	25.28887 (86042924)	37.17431 (86042924)
120.0	6.90428c(86012824)	11.16449 (86042624)	19.38500 (86042624)	30.07590c(86090224)	38.89217 (86042824)
130.0	7.22453c(86012824)	10.26752 (86042624)	19.51854 (86042624)	32.59119 (86042624)	44.33689 (86042624)
140.0	9.49627 (86011124)	10.42044 (86032124)	14.28821 (86050324)	23.29163 (86042824)	34.44096 (86042824)
150.0	13.62707 (86011124)	15.55670 (86011124)	17.87601 (86101624)	28.80737 (86101624)	40.44641 (86101624)
160.0	9.73396 (86011124)	11.92202 (86110324)	21.15254 (86110324)	29.19913 (86110324)	34.43181 (86110324)
170.0	12.01786 (86032224)	16.78436c(86082324)	26.81948c(86082324)	35.69439 (86110324)	47.25989 (86110324)
180.0	9.01439c(86111324)	18.02235c(86082324)	29.07382c(86082324)	39.38177c(86082324)	44.96566c(86082324)
190.0	12.36425c(86111324)	20.36094c(86082324)	29.45983c(86082324)	36.76918c(86082324)	40.56614c(86082324)
200.0	16.23201c(86111324)	26.39407c(86082324)	36.85739c(86082324)	43.42373c(86082324)	46.85451c(86111324)
210.0	16.80965c(86082324)	29.63806c(86082324)	41.40029c(86082324)	49.40868c(86082324)	52.18731c(86082324)
220.0	14.51405c(86082324)	25.81911c(86082324)	35.64837c(86082324)	42.53349c(86082324)	45.93727c(86082324)
230.0	17.50977c(86051724)	26.67216c(86051124)	37.27335 (86062624)	45.21550 (86062624)	48.82360 (86062624)
240.0	19.00888c(86051724)	25.33180 (86062624)	37.02564 (86062624)	45.61697 (86062624)	49.91718 (86062624)
250.0	19.12439c(86051724)	26.05610c(86051724)	33.61567 (86062624)	40.31384 (86062624)	44.30376 (86091524)
260.0	17.57105c(86051724)	24.40035c(86051324)	35.12501c(86051324)	42.31367c(86051324)	46.28143c(86051324)
270.0	17.75979c(86051724)	26.72796 (86043024)	35.16544c(86051324)	42.19120c(86051324)	45.99463c(86051324)
280.0	21.99438 (86043024)	33.86097 (86043024)	40.44831 (86043024)	42.54848 (86043024)	47.00491 (86062324)
290.0	22.42081c(86051724)	35.30796 (86040624)	46.53676 (86040624)	52.21460 (86040624)	53.91525 (86040624)
300.0	23.23449c(86051724)	38.22986 (86040624)	52.46289 (86040624)	60.88551 (86040624)	64.46798 (86040624)
310.0	21.92582c(86051724)	36.78947 (86040624)	49.52839 (86040624)	55.14212 (86040624)	55.46107 (86040624)
320.0	21.22600 (86071724)	34.97970c(86052924)	45.21581c(86052924)	48.59109c(86052924)	46.76612c(86052924)
330.0	18.90388 (86071724)	29.81252c(86052924)	35.54819c(86052924)	41.34567c(86082524)	46.06298c(86082524)
340.0	20.04225 (86080524)	28.57776 (86080524)	35.83453c(86082724)	42.41248c(86082724)	46.22682 (86031224)
350.0	20.81427 (86080524)	31.93505 (86080524)	41.09853c(86071324)	48.01825c(86071324)	50.51293c(86071324)
360.0	19.68447c(86071324)	35.00948c(86071324)	50.33847c(86071324)	60.42027c(86071324)	65.11950c(86071324)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, LONGBUN , EXFAN_3 , EXFAN_4 , EXFAN_5 , EXFAN_6 , EXFAN_7 ,
 EXFAN_8 , EXFAN_9 , EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

*** NETWORK ID: POLAR_1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF MC_24 IN MICROGRAMS/M**3 **

DIRECTION (DEGREES)	DISTANCE (METERS)				
	650.00	700.00	750.00	800.00	850.00
10.0	50.83165 (86082024)	54.26616 (86082024)	57.00451 (86082024)	59.07843 (86082024)	60.54585 (86082024)
20.0	45.99696 (86072324)	47.57876 (86072324)	48.33075 (86072324)	48.43596 (86072324)	48.04358 (86072324)
30.0	41.68153c(86081924)	41.77205c(86081924)	41.24999c(86081924)	40.29588c(86081924)	39.05595c(86081924)
40.0	49.10459 (86072824)	47.17354 (86072824)	44.96543 (86072824)	43.12300 (86070224)	42.92927 (86070224)
50.0	43.00193 (86072624)	40.21092 (86072624)	37.62410 (86072624)	38.33976 (86112024)	39.84991 (86112024)
60.0	57.44503 (86100424)	54.90764 (86100424)	51.93306 (86100424)	48.79451 (86100424)	45.66292 (86100424)
70.0	75.42812c(86081824)	74.79028c(86081824)	73.25744c(86081824)	71.18406c(86081824)	68.81012c(86081824)
80.0	46.88373c(86081824)	45.85419c(86081824)	44.65121c(86081824)	43.37585c(86081824)	42.06997c(86081824)
90.0	51.52940c(86071924)	50.19922c(86071924)	48.71362c(86071924)	47.24688c(86071924)	45.87514c(86071924)
100.0	50.18634c(86071924)	49.10836c(86071924)	47.69270c(86071924)	46.06800c(86071924)	44.29633c(86071924)
110.0	65.98115 (86042924)	64.77801 (86042924)	63.01385 (86042924)	60.96973 (86042924)	58.78015 (86042924)
120.0	59.44602 (86042924)	57.81686 (86042924)	55.47047 (86042924)	52.73251 (86042924)	49.82354 (86042924)
130.0	61.49913c(86012824)	61.17161c(86012824)	60.01784c(86012824)	58.32496c(86012824)	56.30238c(86012824)
140.0	45.76344 (86042624)	43.94667 (86042624)	42.03223 (86042624)	40.12000 (86042624)	38.25927 (86042624)
150.0	59.53606 (86101624)	56.80478 (86101624)	53.66433 (86101624)	50.35979 (86101624)	47.05161 (86101624)
160.0	77.25191 (86101624)	80.39897 (86101624)	82.67328 (86101624)	84.17865 (86101624)	85.01288 (86101624)
170.0	54.70190 (86110324)	57.13231 (86120524)	61.47624 (86120524)	64.64227 (86120524)	66.72817 (86120524)
180.0	58.74783 (86110324)	58.50882 (86110324)	57.80612 (86110324)	59.57666 (86122824)	62.64777 (86122824)
190.0	35.95058 (86102124)	34.79476 (86102124)	34.13579c(86111324)	33.48305c(86111324)	34.42293c(86122624)
200.0	50.34886 (86120424)	48.18744 (86120424)	45.71047 (86120424)	45.27481 (86102824)	47.12515 (86102824)
210.0	52.18493c(86111324)	50.39433c(86111324)	48.38015c(86111324)	46.23483c(86111324)	44.02668c(86111324)
220.0	59.46845 (86060524)	59.52536 (86060524)	58.94046 (86060524)	58.66697 (86010824)	60.16285 (86010824)
230.0	49.68893 (86010924)	53.91705 (86010924)	57.17914 (86010924)	59.54775 (86010924)	61.12600 (86010924)
240.0	44.82492 (86010924)	48.32418 (86010924)	51.15205 (86010924)	53.34934 (86010924)	54.97591 (86010924)
250.0	51.80884 (86091524)	50.30502 (86091524)	48.59318 (86091524)	46.79280 (86091524)	44.98551 (86091524)
260.0	41.69749c(86051324)	39.88858c(86051324)	38.21129c(86051324)	36.69004c(86051324)	36.61316c(86091024)
270.0	40.66679 (86051624)	41.04308 (86051624)	41.59497 (86051524)	42.05201 (86051524)	42.18825 (86051524)
280.0	53.91301 (86062324)	52.24080 (86062324)	50.32566 (86062324)	48.27711 (86062324)	46.17244 (86062324)
290.0	46.32534 (86062324)	45.65886 (86052624)	44.75626 (86052624)	43.64638 (86052624)	43.28691 (86030924)
300.0	61.62256 (86030924)	63.05400 (86030924)	63.64661 (86030924)	63.56874 (86030924)	62.99230 (86030924)
310.0	41.39728 (86122324)	43.96960 (86122324)	45.85579 (86122324)	47.12233 (86122324)	47.85070 (86122324)
320.0	41.55578 (86081124)	39.55896 (86081124)	37.59502 (86081124)	35.72335 (86081124)	33.97271 (86081124)
330.0	59.64785 (86031324)	62.22795 (86031324)	64.10241 (86031324)	65.34868 (86031324)	66.09945 (86031324)
340.0	67.29148 (86031224)	65.96335 (86031224)	64.05233 (86031224)	61.76405 (86031224)	59.25382 (86031224)
350.0	49.11350 (86100924)	47.30086 (86100924)	45.55387 (86100924)	43.89539 (86100924)	42.32916 (86100924)
360.0	56.13148c(86071324)	55.02855 (86112624)	54.09755 (86112624)	53.44072 (86082024)	56.64286 (86082024)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, LONGBUN, EXFAN_3, EXFAN_4, EXFAN_5, EXFAN_6, EXFAN_7,
 EXFAN_8, EXFAN_9, EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

*** NETWORK ID: POLAR_1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF MC_24 IN MICROGRAMS/M**3 **

DIRECTION (DEGREES)	DISTANCE (METERS)		
	900.00	950.00	1000.00
10.0	61.47939 (86082024)	61.78748 (86082024)	61.66932 (86082024)
20.0	47.28211 (86072324)	46.21270 (86072324)	45.55090 (86011024)
30.0	37.97364 (86071024)	37.99694 (86071024)	37.89942 (86071024)
40.0	42.38544 (86070224)	41.59560 (86070224)	40.53814 (86070224)
50.0	40.92763 (86112024)	41.62252 (86112024)	41.90209 (86112024)
60.0	42.63971 (86100424)	39.78183 (86100424)	37.11136 (86100424)
70.0	66.29390c(86081824)	63.73725c(86081824)	61.20436c(86081824)
80.0	40.74942c(86081824)	39.42107c(86081824)	38.08971c(86081824)
90.0	44.63888c(86071924)	43.54913c(86071924)	42.60070c(86071924)
100.0	42.45922c(86071924)	40.59378c(86071924)	38.73312c(86071924)
110.0	56.54502 (86042924)	54.31955 (86042924)	52.14558 (86042924)
120.0	46.88922 (86042924)	45.88736 (86022024)	45.71753 (86022024)
130.0	54.10355c(86012824)	51.82359c(86012824)	49.52098c(86012824)
140.0	37.19200 (86032124)	37.92984 (86122924)	38.98429 (86122924)
150.0	43.84021 (86101624)	42.07523 (86032124)	41.67598 (86032124)
160.0	85.27010 (86101624)	85.02628 (86101624)	84.39159 (86101624)
170.0	67.88764 (86120524)	68.28458 (86120524)	68.02428 (86120524)
180.0	64.89371 (86122824)	66.35694 (86122824)	67.05482 (86122824)
190.0	36.41986c(86122624)	38.02531c(86122624)	39.13505c(86122624)
200.0	48.59455 (86102824)	49.72063 (86102824)	50.29570 (86102824)
210.0	42.44152 (86101924)	42.00939 (86101924)	42.48970 (86010724)
220.0	61.01260 (86010824)	61.26752 (86010824)	60.81559 (86010824)
230.0	62.03669 (86010924)	62.32823 (86010924)	61.88034 (86010924)
240.0	56.10402 (86010924)	56.67295 (86010924)	56.65187 (86010924)
250.0	43.22361 (86091524)	41.51110 (86091524)	39.83360 (86091524)
260.0	37.16794c(86091024)	37.38861c(86091024)	37.14634c(86091024)
270.0	42.06331 (86051524)	41.66572 (86051524)	40.94498 (86051524)
280.0	44.06821 (86062324)	41.97417 (86062324)	39.88252 (86062324)
290.0	43.14116 (86030924)	42.57523 (86030924)	41.61951 (86030924)
300.0	62.02391 (86030924)	60.62857 (86030924)	58.79666 (86030924)
310.0	48.14041 (86122324)	48.00949 (86122324)	47.25389 (86122324)
320.0	33.00099 (86031324)	32.64396 (86031324)	32.08194 (86031324)
330.0	66.33942 (86031324)	65.97886 (86031324)	65.17081 (86031324)
340.0	56.64045 (86031224)	53.99226 (86031224)	51.33851 (86031224)
350.0	40.84889 (86100924)	39.37796 (86100924)	37.96184 (86100924)
360.0	59.30296 (86082024)	61.19704 (86082024)	62.60298 (86082024)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, LONGBUN , EXFAN_3 , EXFAN_4 , EXFAN_5 , EXFAN_6 , EXFAN_7 ,
 EXFAN_8 , EXFAN_9 , EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

		** CONC OF MC_24 IN MICROGRAMS/M**3				**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	16.33188c	(86051724)	15.24	0.00	13.19235c	(86082324)
30.48	0.00	12.33358c	(86082324)	45.72	0.00	10.96833	(86010824)
60.96	0.00	11.40465c	(86111324)	76.20	0.00	10.15425c	(86111324)
91.44	0.00	7.72673c	(86111324)	106.68	0.00	7.99928c	(86111324)
121.92	0.00	7.41947	(86032224)	137.16	0.00	11.82891	(86032224)
152.40	0.00	7.92023	(86011124)	167.64	0.00	9.02386	(86011124)
182.88	0.00	13.09310	(86011124)	198.12	0.00	9.44337	(86011124)
213.36	0.00	9.03226	(86011124)	213.36	15.24	7.37223	(86011124)
213.36	30.48	5.94005c	(86012824)	213.36	45.72	5.48672	(86012724)
213.36	60.96	7.87874	(86012724)	213.36	76.20	8.84063	(86012724)
213.36	91.44	7.23086	(86012724)	213.36	106.68	5.49429	(86012724)
213.36	121.92	6.01406	(86012724)	213.36	137.16	5.77642	(86012724)
213.36	152.40	5.33952	(86012724)	213.36	167.64	6.67853	(86022724)
213.36	182.88	7.09021	(86022724)	213.36	198.12	7.67141	(86022724)
213.36	213.36	8.89341c	(86060824)	213.36	220.98	9.91694c	(86060824)
198.12	220.98	10.06090c	(86060824)	182.88	220.98	9.63080c	(86060824)
167.64	220.98	8.61704c	(86060824)	152.40	220.98	9.51688c	(86071324)
137.16	220.98	10.09852c	(86071324)	121.92	220.98	10.33587c	(86071324)
106.68	220.98	10.52476	(86031324)	91.44	220.98	12.45442	(86031324)
76.20	220.98	16.26117	(86031324)	60.96	220.98	14.43463	(86031324)
45.72	220.98	13.75408	(86080524)	30.48	220.98	16.40115	(86071724)
15.24	220.98	19.51304	(86071724)	0.00	220.98	22.46002	(86071724)
0.00	213.36	21.16056	(86071724)	0.00	198.12	18.89425c	(86051724)
0.00	182.88	17.07278c	(86051724)	0.00	167.64	15.24057c	(86051724)
0.00	152.40	13.44014c	(86051724)	0.00	137.16	11.72725c	(86051724)
0.00	121.92	10.46024c	(86051724)	0.00	106.68	9.89168c	(86051724)
0.00	91.44	10.25786c	(86051724)	0.00	76.20	11.54786c	(86051724)
0.00	60.96	13.05693c	(86051724)	0.00	45.72	14.32225c	(86051724)
0.00	30.48	15.26259c	(86051724)	0.00	15.24	15.94010c	(86051724)

APPENDIX H
ISCST2 OUTPUT LISTING
TOLUENE DIISOCYANATE 24-HOUR AVERAGE EMISSIONS
RUN: FMXTDI24

ISCST2 - (DATED 93109)

IBM-PC VERSION (2.11) ISCST2F

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SERIAL NUMBER 10573 SOLD TO CROSS, TESSITORE & ASSOC.

Run Began on 9/23/1994 at 0:40:30

*** TRINITY SOURCE FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXSRC.PNT

*** TRINITY DOWNWASH FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXBP.P

*** TRINITY RECEPTOR FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXREC.REC

CO STARTING

CO TITLEONE Foamex - 125 ft Foam Line & LBSR Stacks (GEP), 53 ft Exhaust Stacks

CO TITLETWO TDI 24-hr Average Emissions

CO MODELOPT DFAULT CONC RURAL

CO AVERTIME 24

CO POLLUTID TDI_24

CO TERRHGT FLAT

CO ELEVUNIT FEET

CO RUNORNOT RUN

CO FINISHED

SO STARTING

SO LOCATION	FOAMLINE POINT	175.87	119.79	0.00		
SO SRCPARAM	FOAMLINE 0.005825	38.10	299.82	24.5307	0.857	
SO LOCATION	REBND_20 POINT	141.43	162.76	0.00		
SO SRCPARAM	REBND_20 0.000290	16.15	299.82	24.2552	0.610	
SO LOCATION	REBND_21 POINT	141.43	166.42	0.00		
SO SRCPARAM	REBND_21 0.000290	16.15	299.82	24.2552	0.610	
SO BUILDHGT	FOAMLINE	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	FOAMLINE	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	FOAMLINE	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT	FOAMLINE	12.19	15.24	15.24	15.24	15.24
SO BUILDHGT	FOAMLINE	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	FOAMLINE	12.19	12.19	15.24	15.24	15.24
SO BUILDWID	FOAMLINE	80.42	88.29	93.48	95.83	95.26
SO BUILDWID	FOAMLINE	39.97	39.64	38.10	39.64	39.97
SO BUILDWID	FOAMLINE	37.02	33.83	93.48	88.29	80.42
SO BUILDWID	FOAMLINE	18.62	88.29	93.48	95.83	95.26
SO BUILDWID	FOAMLINE	39.97	39.64	38.10	39.64	39.97
SO BUILDWID	FOAMLINE	37.02	33.83	93.48	88.29	80.42
SO BUILDHGT	REBND_20	12.19	12.19	10.67	10.67	10.67
SO BUILDHGT	REBND_20	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_20	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_20	10.67	12.19	10.67	10.67	10.97
SO BUILDHGT	REBND_20	10.97	10.97	10.67	10.67	10.67
SO BUILDHGT	REBND_20	12.19	12.19	12.19	12.19	12.19
SO BUILDWID	REBND_20	80.42	88.29	144.67	152.11	154.93
SO BUILDWID	REBND_20	146.50	135.51	120.40	129.50	140.77
SO BUILDWID	REBND_20	150.26	148.19	141.62	130.75	115.90
SO BUILDWID	REBND_20	116.96	88.29	144.67	152.11	24.41
SO BUILDWID	REBND_20	21.10	18.45	120.40	129.50	140.77
SO BUILDWID	REBND_20	37.02	33.83	29.61	101.32	87.04
SO BUILDHGT	REBND_21	12.19	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_21	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_21	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_21	10.67	10.67	10.67	10.67	10.97

SO BUILDHGT	REBND_21	10.97	10.97	10.67	10.67	10.67	10.67
SO BUILDHGT	REBND_21	12.19	12.19	12.19	12.19	12.19	12.19
SO BUILDWID	REBND_21	80.42	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	REBND_21	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	REBND_21	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	REBND_21	116.96	132.83	144.67	152.11	24.41	23.11
SO BUILDWID	REBND_21	21.10	18.45	120.40	129.50	140.77	147.76
SO BUILDWID	REBND_21	37.02	33.83	29.61	24.49	87.04	70.11

SO EMISUNIT 1000000.000000 GRAMS/SEC MICROGRAMS/M**3
 SO SRCGROUP ALL
 SO FINISHED
 RE STARTING
 RE GRIDPOLR POLAR_1 STA
 RE GRIDPOLR POLAR_1 ORIG 106.68 110.64
 RE GRIDPOLR POLAR_1 DIST 150.00 200.00 250.00 300.00
 RE GRIDPOLR POLAR_1 DIST 350.00 400.00 450.00 500.00
 RE GRIDPOLR POLAR_1 DIST 550.00 600.00 650.00 700.00
 RE GRIDPOLR POLAR_1 DIST 750.00 800.00 850.00 900.00
 RE GRIDPOLR POLAR_1 DIST 950.00 1000.00
 RE GRIDPOLR POLAR_1 GDIR 36 10.00 10.00
 RE GRIDPOLR POLAR_1 END
 RE DISCCART 0.00 0.00
 RE DISCCART 15.24 0.00
 RE DISCCART 30.48 0.00
 RE DISCCART 45.72 0.00
 RE DISCCART 60.96 0.00
 RE DISCCART 76.20 0.00
 RE DISCCART 91.44 0.00
 RE DISCCART 106.68 0.00
 RE DISCCART 121.92 0.00
 RE DISCCART 137.16 0.00
 RE DISCCART 152.40 0.00
 RE DISCCART 167.64 0.00
 RE DISCCART 182.88 0.00
 RE DISCCART 198.12 0.00
 RE DISCCART 213.36 0.00
 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 213.36 220.98
 RE DISCCART 198.12 220.98
 RE DISCCART 182.88 220.98
 RE DISCCART 167.64 220.98
 RE DISCCART 152.40 220.98
 RE DISCCART 137.16 220.98
 RE DISCCART 121.92 220.98

RE DISCCART 106.68 220.98
RE DISCCART 91.44 220.98
RE DISCCART 76.20 220.98
RE DISCCART 60.96 220.98
RE DISCCART 45.72 220.98
RE DISCCART 30.48 220.98
RE DISCCART 15.24 220.98
RE DISCCART 0.00 220.98
RE DISCCART 0.00 213.36
RE DISCCART 0.00 198.12
RE DISCCART 0.00 182.88
RE DISCCART 0.00 167.64
RE DISCCART 0.00 152.40
RE DISCCART 0.00 137.16
RE DISCCART 0.00 121.92
RE DISCCART 0.00 106.68
RE DISCCART 0.00 91.44
RE DISCCART 0.00 76.20
RE DISCCART 0.00 60.96
RE DISCCART 0.00 45.72
RE DISCCART 0.00 30.48
RE DISCCART 0.00 15.24
RE FINISHED
ME STARTING
ME INPUTFIL D:\MODEL DAT\ISCST2\FMXTEMP\ORLPRE86.BIN UNIFORM
ME ANEMHGHT 10.000 METERS
ME SURFDATA 12815 1986 ORLANDO
ME UAIRDATA 12842 1986 TAMPA
ME STARTEND 1986 1 1 1 1986 12 31 24
ME FINISHED
OU STARTING
OU RECTABLE 24 FIRST
OU MAXTABLE 24 50
OU FINISHED

*** SETUP Finishes Successfully ***

*** ISCST2 - VERSION 93109 ***

*** Foamex - 125 ft Foam Line & LBSR Stacks (GEP), 53 ft Exhaust Stacks ***

09/23/94

*** TDI 24-hr Average Emissions ***

00:40:31

PAGE 2

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION RATE
					ELEV. (METERS)	HEIGHT (METERS)	TEMP. (DEG.K)	EXIT VEL. (M/SEC)	DIAMETER (METERS)	EXISTS	SCALAR VARY BY
FOAMLINE	0	0.58250E-02	175.9	119.8	0.0	38.10	299.82	24.53	0.86	YES	
REBND_20	0	0.29000E-03	141.4	162.8	0.0	16.15	299.82	24.26	0.61	YES	
REBND_21	0	0.29000E-03	141.4	166.4	0.0	16.15	299.82	24.26	0.61	YES	

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: FOAMLINE

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK				
1	15.2,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	15.2,	91.8,	0
7	12.2,	40.0,	0	8	12.2,	39.6,	0	9	12.2,	38.1,	0	10	12.2,	39.6,	0	11	12.2,	40.0,	0	12	12.2,	39.1,	0
13	12.2,	37.0,	0	14	12.2,	33.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	12.2,	12.2,	0
19	12.2,	18.6,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	15.2,	91.8,	0
25	12.2,	40.0,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	12.2,	40.0,	0	30	12.2,	39.1,	0
31	12.2,	37.0,	0	32	12.2,	33.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: REBND_20

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK				
1	12.2,	80.4,	0	2	12.2,	88.3,	0	3	10.7,	144.7,	0	4	10.7,	152.1,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	10.7,	146.5,	0	8	10.7,	135.5,	0	9	10.7,	120.4,	0	10	10.7,	129.5,	0	11	10.7,	140.8,	0	12	10.7,	147.8,	0
13	10.7,	150.3,	0	14	10.7,	148.2,	0	15	10.7,	141.6,	0	16	10.7,	130.8,	0	17	10.7,	115.9,	0	18	10.7,	97.5,	0
19	10.7,	117.0,	0	20	12.2,	88.3,	0	21	10.7,	144.7,	0	22	10.7,	152.1,	0	23	11.0,	24.4,	0	24	11.0,	23.1,	0
25	11.0,	21.1,	0	26	11.0,	18.4,	0	27	10.7,	120.4,	0	28	10.7,	129.5,	0	29	10.7,	140.8,	0	30	10.7,	147.8,	0
31	12.2,	37.0,	0	32	12.2,	33.8,	0	33	12.2,	29.6,	0	34	12.2,	101.3,	0	35	12.2,	87.0,	0	36	12.2,	70.1,	0

SOURCE ID: REBND_21

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK				
1	12.2,	80.4,	0	2	10.7,	132.8,	0	3	10.7,	144.7,	0	4	10.7,	152.1,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	10.7,	146.5,	0	8	10.7,	135.5,	0	9	10.7,	120.4,	0	10	10.7,	129.5,	0	11	10.7,	140.8,	0	12	10.7,	147.8,	0
13	10.7,	150.3,	0	14	10.7,	148.2,	0	15	10.7,	141.6,	0	16	10.7,	130.8,	0	17	10.7,	115.9,	0	18	10.7,	97.5,	0
19	10.7,	117.0,	0	20	10.7,	132.8,	0	21	10.7,	144.7,	0	22	10.7,	152.1,	0	23	11.0,	24.4,	0	24	11.0,	23.1,	0
25	11.0,	21.1,	0	26	11.0,	18.4,	0	27	10.7,	120.4,	0	28	10.7,	129.5,	0	29	10.7,	140.8,	0	30	10.7,	147.8,	0
31	12.2,	37.0,	0	32	12.2,	33.8,	0	33	12.2,	29.6,	0	34	12.2,	24.5,	0	35	12.2,	87.0,	0	36	12.2,	70.1,	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, 221.0, 0.0, 0.0);
(198.1, 221.0, 0.0, 0.0);	(182.9, 221.0, 0.0, 0.0);
(167.6, 221.0, 0.0, 0.0);	(152.4, 221.0, 0.0, 0.0);
(137.2, 221.0, 0.0, 0.0);	(121.9, 221.0, 0.0, 0.0);
(106.7, 221.0, 0.0, 0.0);	(91.4, 221.0, 0.0, 0.0);
(76.2, 221.0, 0.0, 0.0);	(61.0, 221.0, 0.0, 0.0);
(45.7, 221.0, 0.0, 0.0);	(30.5, 221.0, 0.0, 0.0);
(15.2, 221.0, 0.0, 0.0);	(0.0, 221.0, 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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, REBND_20, REBND_21,

*** NETWORK ID: POLAR_1 ; NETWORK TYPE: GRIDPOLR ***

** CONC OF TDI_24 IN MICROGRAMS/M**3 **

DIRECTION (DEGREES)	DISTANCE (METERS)				
	150.00	200.00	250.00	300.00	350.00
10.0	0.00776c(86071324)	0.01449c(86071324)	0.01903c(86071324)	0.02141c(86071324)	0.02173c(86071324)
20.0	0.00539 (86080224)	0.01017 (86080224)	0.01267 (86080224)	0.01351 (86080224)	0.01333 (86080224)
30.0	0.00929 (86072824)	0.01199c(86060824)	0.01361c(86060824)	0.01349c(86060824)	0.01238c(86060824)
40.0	0.00977 (86030324)	0.01140 (86030324)	0.00915c(86053124)	0.01154c(86053124)	0.01430 (86080424)
50.0	0.01141 (86022724)	0.01220 (86030424)	0.01126c(86072024)	0.01319c(86072024)	0.01438c(86072024)
60.0	0.01022 (86022424)	0.01301 (86042124)	0.01126 (86042124)	0.01179c(86072024)	0.01351c(86072024)
70.0	0.01492 (86012024)	0.01117c(86041624)	0.00897c(86041624)	0.01080c(86072024)	0.01405c(86072024)
80.0	0.00975 (86042224)	0.01161 (86012024)	0.01053 (86012024)	0.01103c(86071924)	0.01266c(86071924)
90.0	0.01421 (86011324)	0.01046 (86042924)	0.00775 (86042224)	0.00892c(86071524)	0.01191c(86071924)
100.0	0.00979 (86011324)	0.01276 (86011324)	0.01111 (86042924)	0.01249 (86042924)	0.01266 (86042924)
110.0	0.01017c(86012824)	0.00947c(86012824)	0.00880c(86052224)	0.01123 (86042824)	0.01415 (86042924)
120.0	0.01036c(86012824)	0.00871 (86122924)	0.00917 (86042624)	0.01189c(86090224)	0.01421c(86090224)
130.0	0.00908 (86032124)	0.00823 (86032124)	0.00858 (86042824)	0.01279 (86042624)	0.01597 (86042624)
140.0	0.01676 (86011124)	0.01059 (86101624)	0.00856 (86101624)	0.01048 (86050324)	0.01159 (86050324)
150.0	0.01401 (86101724)	0.01492 (86011124)	0.01647 (86101624)	0.01844 (86101624)	0.02040 (86101624)
160.0	0.01661 (86120524)	0.01219 (86120524)	0.00993 (86110324)	0.01194 (86110324)	0.01322 (86101624)
170.0	0.01167 (86120524)	0.01328 (86120524)	0.01353 (86120524)	0.01411 (86110324)	0.01623 (86110324)
180.0	0.01008 (86120624)	0.00881 (86120624)	0.01124c(86082324)	0.01265c(86082324)	0.01281 (86110324)
190.0	0.01192c(86111324)	0.01145c(86111324)	0.01092c(86111324)	0.01153c(86082324)	0.01151 (86102124)
200.0	0.01012c(86111324)	0.01259c(86111324)	0.01433c(86111324)	0.01517c(86111324)	0.01528c(86111324)
210.0	0.00899c(86111324)	0.01229c(86082324)	0.01440c(86082324)	0.01480c(86111324)	0.01543c(86111324)
220.0	0.01283 (86010824)	0.01177c(86082324)	0.01397c(86082324)	0.01462c(86082324)	0.01414c(86082324)
230.0	0.01356 (86010824)	0.01248c(86051124)	0.01442c(86051124)	0.01512c(86051124)	0.01505c(86051124)
240.0	0.00991c(86051124)	0.01245 (86062624)	0.01412 (86062624)	0.01474 (86062624)	0.01464 (86062624)
250.0	0.01097 (86062624)	0.01288 (86062624)	0.01406 (86062624)	0.01541 (86091524)	0.01694 (86091524)
260.0	0.00969 (86062624)	0.01128 (86062624)	0.01284 (86062624)	0.01383 (86062624)	0.01424 (86062624)
270.0	0.01052 (86091524)	0.01149c(86051324)	0.01472c(86051324)	0.01657c(86051324)	0.01722c(86051324)
280.0	0.00867c(86051324)	0.01220c(86051324)	0.01386c(86051324)	0.01532 (86062324)	0.01697 (86062324)
290.0	0.01109 (86051524)	0.01514 (86043024)	0.01535 (86043024)	0.01526 (86062324)	0.01642 (86062324)
300.0	0.01462 (86052724)	0.01593c(86093024)	0.01728 (86040624)	0.01896 (86040624)	0.01931 (86040624)
310.0	0.01259c(86080924)	0.01637 (86040624)	0.01987 (86040624)	0.02092 (86040624)	0.02030 (86040624)
320.0	0.01705 (86030924)	0.01409 (86071724)	0.01662c(86052924)	0.01708c(86052924)	0.01625 (86112524)
330.0	0.01168 (86071724)	0.01390c(86052924)	0.01524c(86052924)	0.01557c(86053024)	0.01627c(86053024)
340.0	0.00943 (86071724)	0.01336 (86031324)	0.01835 (86031324)	0.01848 (86031324)	0.01687 (86031324)
350.0	0.01204 (86031324)	0.01155c(86082724)	0.01599 (86031224)	0.01749 (86031224)	0.01811 (86031224)
360.0	0.00790 (86080524)	0.01272c(86071324)	0.01664c(86071324)	0.01923c(86071324)	0.02033c(86071324)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLIN, REBND_20, REBND_21,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TDI_24 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	0.01406	(86010824)	15.24	0.00	0.01278	(86010824)
30.48	0.00	0.01015	(86010824)	45.72	0.00	0.00913	(86120424)
60.96	0.00	0.00967	(86120424)	76.20	0.00	0.01064c	(86111324)
91.44	0.00	0.01157c	(86111324)	106.68	0.00	0.01123	(86120624)
121.92	0.00	0.01140	(86120624)	137.16	0.00	0.01383	(86120524)
152.40	0.00	0.01786	(86120524)	167.64	0.00	0.01241	(86120524)
182.88	0.00	0.01652	(86011124)	198.12	0.00	0.01831	(86011124)
213.36	0.00	0.01178	(86011124)	213.36	15.24	0.00970	(86011124)
213.36	30.48	0.00949	(86032124)	213.36	45.72	0.00985	(86032124)
213.36	60.96	0.01309c	(86012824)	213.36	76.20	0.01341c	(86012824)
213.36	91.44	0.00965c	(86012824)	213.36	106.68	0.00726c	(86012824)
213.36	121.92	0.01378	(86011324)	213.36	137.16	0.00917	(86011324)
213.36	152.40	0.00917	(86012724)	213.36	167.64	0.00923c	(86041624)
213.36	182.88	0.00882	(86011924)	213.36	198.12	0.00959	(86022724)
213.36	213.36	0.01125	(86030424)	213.36	220.98	0.00917	(86030424)
198.12	220.98	0.00887	(86030324)	182.88	220.98	0.00695	(86021024)
167.64	220.98	0.00563	(86072824)	152.40	220.98	0.00253	(86072924)
137.16	220.98	0.00220c	(86121124)	121.92	220.98	0.00355	(86031324)
106.68	220.98	0.00570	(86031324)	91.44	220.98	0.00377	(86031324)
76.20	220.98	0.00578	(86071724)	60.96	220.98	0.00961	(86030924)
45.72	220.98	0.01582	(86030924)	30.48	220.98	0.01806	(86030924)
15.24	220.98	0.01657	(86030924)	0.00	220.98	0.01340	(86030924)
0.00	213.36	0.01264c	(86080924)	0.00	198.12	0.01370c	(86093024)
0.00	182.88	0.01543	(86052724)	0.00	167.64	0.01154	(86051524)
0.00	152.40	0.00857	(86051624)	0.00	137.16	0.00666	(86062624)
0.00	121.92	0.00927	(86091524)	0.00	106.68	0.00915	(86091524)
0.00	91.44	0.00881	(86062624)	0.00	76.20	0.00937	(86062624)
0.00	60.96	0.00902	(86062624)	0.00	45.72	0.00899	(86060524)
0.00	30.48	0.01254	(86010824)	0.00	15.24	0.01427	(86010824)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): FOAMLINE, REBND_20, REBND_21,

** CONC OF TDI_24 IN MICROGRAMS/M**3 **

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	0.02352c(86081824)	AT (	670.50, 315.85) GP	26.	0.02101c(86071324)	AT (	176.14, 504.56) GP
2.	0.02338c(86081824)	AT (	717.48, 332.95) GP	27.	0.02099 (86042924)	AT (	764.46, -128.77) GP
3.	0.02309c(86081824)	AT (	623.51, 298.75) GP	28.	0.02092 (86040624)	AT (	-123.13, 303.48) GP
4.	0.02288c(86081824)	AT (	764.46, 350.05) GP	29.	0.02067 (86101624)	AT (	328.99, -500.16) GP
5.	0.02281 (86101624)	AT (	356.68, -322.37) GP	30.	0.02052c(86081824)	AT (	905.42, 401.36) GP
6.	0.02270 (86101624)	AT (	331.68, -279.07) GP	31.	0.02042c(86071324)	AT (	106.68, 510.64) GP
7.	0.02233 (86101624)	AT (	381.68, -365.67) GP	32.	0.02040 (86101624)	AT (	281.68, -192.47) GP
8.	0.02221 (86042924)	AT (	623.51, -77.47) GP	33.	0.02035 (86120524)	AT (	254.28, -726.45) GP
9.	0.02218c(86081824)	AT (	811.45, 367.16) GP	34.	0.02033c(86071324)	AT (	106.68, 460.64) GP
10.	0.02212 (86042924)	AT (	670.50, -94.57) GP	35.	0.02032 (86120524)	AT (	262.96, -775.69) GP
11.	0.02203 (86101624)	AT (	397.40, -688.10) GP	36.	0.02031 (86101624)	AT (	431.68, -452.28) GP
12.	0.02203 (86101624)	AT (	414.50, -735.08) GP	37.	0.02030 (86040624)	AT (	-161.44, 335.62) GP
13.	0.02192 (86101624)	AT (	380.30, -641.11) GP	38.	0.02029 (86042924)	AT (	529.54, -43.27) GP
14.	0.02192 (86101624)	AT (	431.60, -782.07) GP	39.	0.02020 (86042924)	AT (	811.45, -145.88) GP
15.	0.02189 (86101624)	AT (	306.68, -235.77) GP	40.	0.02018 (86120524)	AT (	245.60, -677.21) GP
16.	0.02179c(86081824)	AT (	576.53, 281.65) GP	41.	0.02013 (86120524)	AT (	271.65, -824.93) GP
17.	0.02173c(86071324)	AT (	167.46, 455.32) GP	42.	0.02001c(86071324)	AT (	106.68, 560.64) GP
18.	0.02172 (86101624)	AT (	448.70, -829.05) GP	43.	0.01993 (86101624)	AT (	311.89, -453.18) GP
19.	0.02169 (86042924)	AT (	576.53, -60.37) GP	44.	0.01987 (86040624)	AT (	-84.83, 271.34) GP
20.	0.02167 (86101624)	AT (	363.20, -594.13) GP	45.	0.01985c(86071324)	AT (	184.82, 553.80) GP
21.	0.02166 (86042924)	AT (	717.48, -111.67) GP	46.	0.01981 (86120524)	AT (	280.33, -874.17) GP
22.	0.02144 (86101624)	AT (	406.68, -408.98) GP	47.	0.01977 (86120524)	AT (	236.92, -627.97) GP
23.	0.02141c(86071324)	AT (	158.77, 406.08) GP	48.	0.01967c(86081824)	AT (	952.40, 418.46) GP
24.	0.02137c(86081824)	AT (	858.43, 384.26) GP	49.	0.01950 (86031224)	AT (	-98.53, 674.46) GP
25.	0.02123 (86101624)	AT (	346.09, -547.14) GP	50.	0.01939 (86030924)	AT (	-542.84, 485.64) GP

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

APPENDIX J

ISCST2 OUTPUT LISTING

1,1,1-TRICHLOROETHANE 24-HOUR AVERAGE EMISSIONS

RUN: FMX11124

ISCST2 - (DATED 93109)

IBM-PC VERSION (2.11) ISCST2F

(C) COPYRIGHT 1992, TRINITY CONSULTANTS, INC.

SERIAL NUMBER 10573 SOLD TO CROSS, TESSITORE & ASSOC.

Run Began on 9/22/1994 at 23:26:06

*** TRINITY SOURCE FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXSRC.PNT

*** TRINITY DOWNWASH FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXBPIP.WAK

*** TRINITY RECEPTOR FILE NAME: D:\MODEL\ISCST2\FMXTEMP\FMXREC.REC

CO STARTING

CO TITLEONE Foamex - 125 ft Foam Line & LBSR Stacks (GEP), 53 ft Exhaust Stacks

CO TITLETWO 1,1,1-Trichloroethane 24-hr Average Emissions

CO MODELOPT DFAULT CONC RURAL

CO AVERTIME 24

CO POLLUTID 111_24

CO TERRHGTS FLAT

CO ELEVUNIT FEET

CO RUNORNOT RUN

CO FINISHED

SO STARTING

SO LOCATION EXFAN_3 POINT	108.51	97.23	0.00	
SO SRCPARAM EXFAN_3 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_4 POINT	108.51	110.64	0.00	
SO SRCPARAM EXFAN_4 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_5 POINT	108.51	119.79	0.00	
SO SRCPARAM EXFAN_5 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_6 POINT	108.51	135.64	0.00	
SO SRCPARAM EXFAN_6 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_7 POINT	108.51	152.71	0.00	
SO SRCPARAM EXFAN_7 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_8 POINT	108.51	168.86	0.00	
SO SRCPARAM EXFAN_8 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_9 POINT	108.51	183.79	0.00	
SO SRCPARAM EXFAN_9 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_10 POINT	108.51	192.94	0.00	
SO SRCPARAM EXFAN_10 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_11 POINT	147.52	97.23	0.00	
SO SRCPARAM EXFAN_11 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_12 POINT	147.52	110.64	0.00	
SO SRCPARAM EXFAN_12 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_13 POINT	147.52	119.79	0.00	
SO SRCPARAM EXFAN_13 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_14 POINT	147.52	135.64	0.00	
SO SRCPARAM EXFAN_14 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_15 POINT	147.52	152.71	0.00	
SO SRCPARAM EXFAN_15 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_16 POINT	147.52	168.86	0.00	
SO SRCPARAM EXFAN_16 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_17 POINT	147.52	183.79	0.00	
SO SRCPARAM EXFAN_17 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_18 POINT	147.52	192.94	0.00	
SO SRCPARAM EXFAN_18 0.012348	16.15	299.82	24.6109	1.105
SO LOCATION EXFAN_19 POINT	182.88	102.56	0.00	
SO SRCPARAM EXFAN_19 0.012348	16.15	299.82	24.6109	1.105

SO BUILDHGT	EXFAN_3	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_3	12.19	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT	EXFAN_3	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDHGT	EXFAN_3	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_3	12.19	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT	EXFAN_3	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID	EXFAN_3	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_3	101.55	104.18	103.63	76.71	85.56	91.81
SO BUILDWID	EXFAN_3	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDWID	EXFAN_3	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_3	39.97	39.64	38.10	76.71	85.56	91.81
SO BUILDWID	EXFAN_3	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT	EXFAN_4	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_4	10.67	12.19	12.19	12.19	15.24	15.24
SO BUILDHGT	EXFAN_4	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDHGT	EXFAN_4	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_4	10.67	12.19	12.19	12.19	15.24	15.24
SO BUILDHGT	EXFAN_4	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID	EXFAN_4	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_4	146.50	104.18	103.63	114.23	85.56	91.81
SO BUILDWID	EXFAN_4	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDWID	EXFAN_4	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_4	146.50	39.64	38.10	39.64	85.56	91.81
SO BUILDWID	EXFAN_4	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT	EXFAN_5	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_5	10.67	10.67	12.19	12.19	15.24	15.24
SO BUILDHGT	EXFAN_5	10.67	10.67	10.67	12.19	12.19	10.67
SO BUILDHGT	EXFAN_5	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_5	10.67	10.67	12.19	12.19	15.24	15.24
SO BUILDHGT	EXFAN_5	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID	EXFAN_5	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_5	146.50	135.51	103.63	114.23	85.56	91.81
SO BUILDWID	EXFAN_5	150.26	148.19	141.62	101.32	87.04	97.54
SO BUILDWID	EXFAN_5	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_5	146.50	135.51	38.10	39.64	85.56	91.81
SO BUILDWID	EXFAN_5	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT	EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_6	10.67	10.67	10.67	12.19	10.67	10.67
SO BUILDHGT	EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_6	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_6	10.67	10.67	10.67	12.19	12.19	15.24
SO BUILDHGT	EXFAN_6	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID	EXFAN_6	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_6	146.50	135.51	120.40	114.23	140.77	147.76
SO BUILDWID	EXFAN_6	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_6	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_6	146.50	135.51	120.40	39.64	39.97	91.81
SO BUILDWID	EXFAN_6	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT	EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_7	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_7	15.24	15.24	15.24	15.24	15.24	10.67
SO BUILDWID	EXFAN_7	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_7	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_7	150.26	148.19	141.62	130.75	115.90	97.54

SO BUILDWID	EXFAN_7	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_7	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_7	95.26	95.83	93.48	88.29	80.42	97.54
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_8	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_8	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_8	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_8	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_8	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_8	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_8	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_9	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_9	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_9	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_9	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_9	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_9	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_9	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_10	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_10	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_10	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_10	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_10	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_10	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_10	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_11	15.24	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT	EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_11	15.24	12.19	12.19	15.24	15.24	15.24
SO BUILDHGT	EXFAN_11	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_11	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_11	85.56	104.18	103.63	76.71	85.56	91.81
SO BUILDWID	EXFAN_11	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDWID	EXFAN_11	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_11	85.56	39.64	38.10	76.71	85.56	91.81
SO BUILDWID	EXFAN_11	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_12	15.24	15.24	15.24	15.24	15.24	12.19
SO BUILDHGT	EXFAN_12	12.19	12.19	12.19	12.19	12.19	15.24
SO BUILDHGT	EXFAN_12	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_12	15.24	15.24	15.24	15.24	15.24	12.19
SO BUILDHGT	EXFAN_12	12.19	12.19	12.19	12.19	12.19	15.24
SO BUILDHGT	EXFAN_12	15.24	15.24	15.24	15.24	15.24	15.24

SO BUILDWID	EXFAN_12	80.42	88.29	93.48	95.83	95.26	39.09
SO BUILDWID	EXFAN_12	39.97	39.64	103.63	114.23	39.97	91.81
SO BUILDWID	EXFAN_12	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDWID	EXFAN_12	80.42	88.29	93.48	95.83	95.26	39.09
SO BUILDWID	EXFAN_12	39.97	39.64	38.10	39.64	39.97	91.81
SO BUILDWID	EXFAN_12	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_13	15.24	15.24	15.24	15.24	10.67	10.67
SO BUILDHGT	EXFAN_13	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_13	15.24	15.24	15.24	15.24	12.19	12.19
SO BUILDHGT	EXFAN_13	15.24	15.24	15.24	15.24	10.67	10.67
SO BUILDHGT	EXFAN_13	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_13	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_13	80.42	88.29	93.48	95.83	154.93	153.04
SO BUILDWID	EXFAN_13	146.50	39.64	103.63	114.23	121.36	124.80
SO BUILDWID	EXFAN_13	95.26	95.83	93.48	88.29	87.04	70.11
SO BUILDWID	EXFAN_13	80.42	88.29	93.48	95.83	154.93	153.04
SO BUILDWID	EXFAN_13	146.50	39.64	38.10	39.64	39.97	39.09
SO BUILDWID	EXFAN_13	95.26	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_14	15.24	15.24	15.24	10.67	10.67	10.67
SO BUILDHGT	EXFAN_14	10.67	10.67	10.67	10.67	12.19	12.19
SO BUILDHGT	EXFAN_14	12.19	15.24	10.67	12.19	12.19	12.19
SO BUILDHGT	EXFAN_14	12.19	12.19	15.24	10.97	10.97	10.67
SO BUILDHGT	EXFAN_14	10.67	10.67	10.67	10.67	12.19	12.19
SO BUILDHGT	EXFAN_14	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_14	80.42	88.29	93.48	152.11	154.93	153.04
SO BUILDWID	EXFAN_14	146.50	135.51	120.40	129.50	121.36	124.80
SO BUILDWID	EXFAN_14	124.45	95.83	141.62	101.32	87.04	70.11
SO BUILDWID	EXFAN_14	80.42	88.29	93.48	24.97	24.41	153.04
SO BUILDWID	EXFAN_14	146.50	135.51	120.40	129.50	39.97	39.09
SO BUILDWID	EXFAN_14	37.02	95.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_15	15.24	15.24	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	12.19	10.67	10.97	10.97	10.97
SO BUILDHGT	EXFAN_15	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_15	12.19	12.19	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_15	80.42	88.29	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_15	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_15	124.45	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_15	80.42	88.29	144.67	24.97	24.41	23.11
SO BUILDWID	EXFAN_15	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_15	37.02	33.83	93.48	88.29	80.42	70.11
SO BUILDHGT	EXFAN_16	12.19	12.19	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	10.67	10.67	10.67	10.97	10.97
SO BUILDHGT	EXFAN_16	10.97	10.97	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_16	10.67	12.19	12.19	12.19	12.19	12.19
SO BUILDWID	EXFAN_16	80.42	88.29	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_16	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_16	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_16	116.96	132.83	144.67	152.11	24.41	23.11
SO BUILDWID	EXFAN_16	21.10	18.45	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_16	150.26	33.83	29.61	24.49	87.04	70.11
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67

SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_17	10.97	10.97	10.97	10.97	10.97	10.67
SO BUILDHGT	EXFAN_17	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_17	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_17	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_17	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_17	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_17	21.10	18.45	15.24	18.45	21.10	147.76
SO BUILDWID	EXFAN_17	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDHGT	EXFAN_18	10.67	10.67	10.97	10.97	10.97	10.97
SO BUILDHGT	EXFAN_18	10.67	10.67	10.67	10.67	10.67	10.67
SO BUILDWID	EXFAN_18	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_18	146.50	135.51	120.40	129.50	140.77	147.76
SO BUILDWID	EXFAN_18	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDWID	EXFAN_18	116.96	132.83	144.67	152.11	154.93	153.04
SO BUILDWID	EXFAN_18	146.50	135.51	15.24	18.45	21.10	23.11
SO BUILDWID	EXFAN_18	150.26	148.19	141.62	130.75	115.90	97.54
SO BUILDHGT	EXFAN_19	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_19	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	15.24	15.24	15.24	15.24	15.24
SO BUILDHGT	EXFAN_19	15.24	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	EXFAN_19	12.19	15.24	15.24	15.24	15.24	15.24
SO BUILDWID	EXFAN_19	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_19	85.56	39.64	38.10	39.64	39.97	39.09
SO BUILDWID	EXFAN_19	37.02	95.83	93.48	88.29	80.42	70.11
SO BUILDWID	EXFAN_19	80.42	88.29	93.48	95.83	95.26	91.81
SO BUILDWID	EXFAN_19	85.56	39.64	38.10	39.64	39.97	39.09
SO BUILDWID	EXFAN_19	37.02	95.83	93.48	88.29	80.42	70.11
SO EMISUNIT	1000000.000000	GRAMS/SEC MICROGRAMS/M**3					
SO SRCGROUP	ALL						
SO FINISHED							
RE STARTING							
RE GRIDPOLR	POLAR_1	STA					
RE GRIDPOLR	POLAR_1	ORIG	106.68	110.64			
RE GRIDPOLR	POLAR_1	DIST	150.00	200.00	250.00	300.00	
RE GRIDPOLR	POLAR_1	DIST	350.00	400.00	450.00	500.00	
RE GRIDPOLR	POLAR_1	DIST	550.00	600.00	650.00	700.00	
RE GRIDPOLR	POLAR_1	DIST	750.00	800.00	850.00	900.00	
RE GRIDPOLR	POLAR_1	DIST	950.00	1000.00			
RE GRIDPOLR	POLAR_1	GDIR	36	10.00	10.00		
RE GRIDPOLR	POLAR_1	END					
RE DISCCART	0.00	0.00					
RE DISCCART	15.24	0.00					
RE DISCCART	30.48	0.00					
RE DISCCART	45.72	0.00					
RE DISCCART	60.96	0.00					
RE DISCCART	76.20	0.00					
RE DISCCART	91.44	0.00					
RE DISCCART	106.68	0.00					
RE DISCCART	121.92	0.00					
RE DISCCART	137.16	0.00					
RE DISCCART	152.40	0.00					

RE DISCCART 167.64 0.00
RE DISCCART 182.88 0.00
RE DISCCART 198.12 0.00
RE DISCCART 213.36 0.00
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 213.36 220.98
RE DISCCART 198.12 220.98
RE DISCCART 182.88 220.98
RE DISCCART 167.64 220.98
RE DISCCART 152.40 220.98
RE DISCCART 137.16 220.98
RE DISCCART 121.92 220.98
RE DISCCART 106.68 220.98
RE DISCCART 91.44 220.98
RE DISCCART 76.20 220.98
RE DISCCART 60.96 220.98
RE DISCCART 45.72 220.98
RE DISCCART 30.48 220.98
RE DISCCART 15.24 220.98
RE DISCCART 0.00 220.98
RE DISCCART 0.00 213.36
RE DISCCART 0.00 198.12
RE DISCCART 0.00 182.88
RE DISCCART 0.00 167.64
RE DISCCART 0.00 152.40
RE DISCCART 0.00 137.16
RE DISCCART 0.00 121.92
RE DISCCART 0.00 106.68
RE DISCCART 0.00 91.44
RE DISCCART 0.00 76.20
RE DISCCART 0.00 60.96
RE DISCCART 0.00 45.72
RE DISCCART 0.00 30.48
RE DISCCART 0.00 15.24
RE FINISHED
ME STARTING
ME INPUTFIL D:\MODEL\DAT\ISCST2\FMXTEMP\ORLPRE86.BIN UNIFORM
ME ANEMHGHT 10.000 METERS
ME SURFDATA 12815 1986 ORLANDO
ME UAIRDATA 12842 1986 TAMPA
ME STARTEND 1986 1 1 1 1986 12 31 24
ME FINISHED
OU STARTING
OU RECTABLE 24 FIRST

OU MAXTABLE 24 50
OU FINISHED

*** SETUP Finishes Successfully ***

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X Y		BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE	
			(METERS)	(METERS)							SCALAR	VARY BY
EXFAN_3	0	0.12348E-01	108.5	97.2	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_4	0	0.12348E-01	108.5	110.6	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_5	0	0.12348E-01	108.5	119.8	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_6	0	0.12348E-01	108.5	135.6	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_7	0	0.12348E-01	108.5	152.7	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_8	0	0.12348E-01	108.5	168.9	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_9	0	0.12348E-01	108.5	183.8	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_10	0	0.12348E-01	108.5	192.9	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_11	0	0.12348E-01	147.5	97.2	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_12	0	0.12348E-01	147.5	110.6	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_13	0	0.12348E-01	147.5	119.8	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_14	0	0.12348E-01	147.5	135.6	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_15	0	0.12348E-01	147.5	152.7	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_16	0	0.12348E-01	147.5	168.9	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_17	0	0.12348E-01	147.5	183.8	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_18	0	0.12348E-01	147.5	192.9	0.0	16.15	299.82	24.61	1.11	YES		
EXFAN_19	0	0.12348E-01	182.9	102.6	0.0	16.15	299.82	24.61	1.11	YES		

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_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	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	12.2	101.6	0	8	12.2	104.2	0	9	12.2	103.6	0	10	15.2	76.7	0	11	15.2	85.6	0	12	15.2	91.8	0
13	15.2	95.3	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	15.2	80.4	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	12.2	40.0	0	26	12.2	39.6	0	27	12.2	38.1	0	28	15.2	76.7	0	29	15.2	85.6	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_4

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	12.2	104.2	0	9	12.2	103.6	0	10	12.2	114.2	0	11	15.2	85.6	0	12	15.2	91.8	0
13	15.2	95.3	0	14	15.2	95.8	0	15	15.2	93.5	0	16	15.2	88.3	0	17	15.2	80.4	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	12.2	39.6	0	27	12.2	38.1	0	28	12.2	39.6	0	29	15.2	85.6	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_5

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	12.2	103.6	0	10	12.2	114.2	0	11	15.2	85.6	0	12	15.2	91.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	12.2	101.3	0	17	12.2	87.0	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	12.2	38.1	0	28	12.2	39.6	0	29	15.2	85.6	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_6

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	12.2	114.2	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	12.2	39.6	0	29	12.2	40.0	0	30	15.2	91.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_7

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	15.2	95.3	0	32	15.2	95.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	10.7	97.5	0

SOURCE ID: EXFAN_8

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_9

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_10

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_11

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	15.2,	91.8,	0
7	15.2,	85.6,	0	8	12.2,	104.2,	0	9	12.2,	103.6,	0	10	15.2,	76.7,	0	11	15.2,	85.6,	0	12	15.2,	91.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	15.2,	70.1,	0
19	15.2,	80.4,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	15.2,	91.8,	0
25	15.2,	85.6,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	15.2,	76.7,	0	29	15.2,	85.6,	0	30	15.2,	91.8,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: EXFAN_12

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	12.2,	39.1,	0
7	12.2,	40.0,	0	8	12.2,	39.6,	0	9	12.2,	103.6,	0	10	12.2,	114.2,	0	11	12.2,	40.0,	0	12	15.2,	91.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	15.2,	70.1,	0
19	15.2,	80.4,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	12.2,	39.1,	0
25	12.2,	40.0,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	12.2,	40.0,	0	30	15.2,	91.8,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: EXFAN_13

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	10.7,	146.5,	0	8	12.2,	39.6,	0	9	12.2,	103.6,	0	10	12.2,	114.2,	0	11	12.2,	121.4,	0	12	12.2,	124.8,	0
13	15.2,	95.3,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	12.2,	87.0,	0	18	12.2,	70.1,	0
19	15.2,	80.4,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	10.7,	154.9,	0	24	10.7,	153.0,	0
25	10.7,	146.5,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	12.2,	40.0,	0	30	12.2,	39.1,	0
31	15.2,	95.3,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

SOURCE ID: EXFAN_14

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,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	10.7,	152.1,	0	5	10.7,	154.9,	0	6	10.7,	153.0,	0
7	10.7,	146.5,	0	8	10.7,	135.5,	0	9	10.7,	120.4,	0	10	10.7,	129.5,	0	11	12.2,	121.4,	0	12	12.2,	124.8,	0
13	12.2,	124.5,	0	14	15.2,	95.8,	0	15	10.7,	141.6,	0	16	12.2,	101.3,	0	17	12.2,	87.0,	0	18	12.2,	70.1,	0
19	12.2,	80.4,	0	20	12.2,	88.3,	0	21	15.2,	93.5,	0	22	11.0,	25.0,	0	23	11.0,	24.4,	0	24	10.7,	153.0,	0
25	10.7,	146.5,	0	26	10.7,	135.5,	0	27	10.7,	120.4,	0	28	10.7,	129.5,	0	29	12.2,	40.0,	0	30	12.2,	39.1,	0
31	12.2,	37.0,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	0

*** MODELING OPTIONS USED: CONC RURAL FLAT DEFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_15

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	80.4	0	2	15.2	88.3	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	12.2	124.5	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	12.2	80.4	0	20	12.2	88.3	0	21	10.7	144.7	0	22	11.0	25.0	0	23	11.0	24.4	0	24	11.0	23.1	0
25	10.7	146.5	0	26	10.7	135.5	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	12.2	37.0	0	32	12.2	33.8	0	33	15.2	93.5	0	34	15.2	88.3	0	35	15.2	80.4	0	36	15.2	70.1	0

SOURCE ID: EXFAN_16

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	80.4	0	2	12.2	88.3	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	11.0	24.4	0	24	11.0	23.1	0
25	11.0	21.1	0	26	11.0	18.4	0	27	10.7	120.4	0	28	10.7	129.5	0	29	10.7	140.8	0	30	10.7	147.8	0
31	10.7	150.3	0	32	12.2	33.8	0	33	12.2	29.6	0	34	12.2	24.5	0	35	12.2	87.0	0	36	12.2	70.1	0

SOURCE ID: EXFAN_17

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	11.0	21.1	0	26	11.0	18.4	0	27	11.0	15.2	0	28	11.0	18.4	0	29	11.0	21.1	0	30	10.7	147.8	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

SOURCE ID: EXFAN_18

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	10.7	117.0	0	2	10.7	132.8	0	3	10.7	144.7	0	4	10.7	152.1	0	5	10.7	154.9	0	6	10.7	153.0	0
7	10.7	146.5	0	8	10.7	135.5	0	9	10.7	120.4	0	10	10.7	129.5	0	11	10.7	140.8	0	12	10.7	147.8	0
13	10.7	150.3	0	14	10.7	148.2	0	15	10.7	141.6	0	16	10.7	130.8	0	17	10.7	115.9	0	18	10.7	97.5	0
19	10.7	117.0	0	20	10.7	132.8	0	21	10.7	144.7	0	22	10.7	152.1	0	23	10.7	154.9	0	24	10.7	153.0	0
25	10.7	146.5	0	26	10.7	135.5	0	27	11.0	15.2	0	28	11.0	18.4	0	29	11.0	21.1	0	30	11.0	23.1	0
31	10.7	150.3	0	32	10.7	148.2	0	33	10.7	141.6	0	34	10.7	130.8	0	35	10.7	115.9	0	36	10.7	97.5	0

*** ISCST2 - VERSION 93109 ***

*** Foamex - 125 ft Foam Line & LBSR Stacks (GEP), 53 ft Exhaust Stacks ***

09/22/94

*** 1,1,1-Trichloroethane 24-hr Average Emissions ***

23:26:08

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*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: EXFAN_19

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK				
1	15.2,	80.4,	0	2	15.2,	88.3,	0	3	15.2,	93.5,	0	4	15.2,	95.8,	0	5	15.2,	95.3,	0	6	15.2,	91.8,	0
7	15.2,	85.6,	0	8	12.2,	39.6,	0	9	12.2,	38.1,	0	10	12.2,	39.6,	0	11	12.2,	40.0,	0	12	12.2,	39.1,	0
13	12.2,	37.0,	0	14	15.2,	95.8,	0	15	15.2,	93.5,	0	16	15.2,	88.3,	0	17	15.2,	80.4,	0	18	15.2,	70.1,	0
19	15.2,	80.4,	0	20	15.2,	88.3,	0	21	15.2,	93.5,	0	22	15.2,	95.8,	0	23	15.2,	95.3,	0	24	15.2,	91.8,	0
25	15.2,	85.6,	0	26	12.2,	39.6,	0	27	12.2,	38.1,	0	28	12.2,	39.6,	0	29	12.2,	40.0,	0	30	12.2,	39.1,	0
31	12.2,	37.0,	0	32	15.2,	95.8,	0	33	15.2,	93.5,	0	34	15.2,	88.3,	0	35	15.2,	80.4,	0	36	15.2,	70.1,	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, 221.0, 0.0, 0.0);
(198.1, 221.0, 0.0, 0.0);	(182.9, 221.0, 0.0, 0.0);
(167.6, 221.0, 0.0, 0.0);	(152.4, 221.0, 0.0, 0.0);
(137.2, 221.0, 0.0, 0.0);	(121.9, 221.0, 0.0, 0.0);
(106.7, 221.0, 0.0, 0.0);	(91.4, 221.0, 0.0, 0.0);
(76.2, 221.0, 0.0, 0.0);	(61.0, 221.0, 0.0, 0.0);
(45.7, 221.0, 0.0, 0.0);	(30.5, 221.0, 0.0, 0.0);
(15.2, 221.0, 0.0, 0.0);	(0.0, 221.0, 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

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): EXFAN_3 , EXFAN_4 , EXFAN_5 , EXFAN_6 , EXFAN_7 , EXFAN_8 , EXFAN_9 ,
 EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF 111_24 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
0.00	0.00	1.32788	(86010824)	15.24	0.00	1.43555	(86010824)
30.48	0.00	1.55058	(86010824)	45.72	0.00	1.60247	(86010824)
60.96	0.00	1.42274	(86010824)	76.20	0.00	1.26600c	(86111324)
91.44	0.00	1.00509c	(86111324)	106.68	0.00	1.11325c	(86111324)
121.92	0.00	1.08399	(86032224)	137.16	0.00	1.72818	(86032224)
152.40	0.00	1.15715	(86011124)	167.64	0.00	1.31839	(86011124)
182.88	0.00	1.91291	(86011124)	198.12	0.00	1.37968	(86011124)
213.36	0.00	1.31962	(86011124)	213.36	15.24	1.07709	(86011124)
213.36	30.48	0.86785c	(86012824)	213.36	45.72	0.80161	(86012724)
213.36	60.96	1.15109	(86012724)	213.36	76.20	1.29162	(86012724)
213.36	91.44	1.05643	(86012724)	213.36	106.68	0.80272	(86012724)
213.36	121.92	0.87866	(86012724)	213.36	137.16	0.84394	(86012724)
213.36	152.40	0.78011	(86012724)	213.36	167.64	0.97574	(86022724)
213.36	182.88	1.03589	(86022724)	213.36	198.12	1.12080	(86022724)
213.36	213.36	1.20338	(86022724)	213.36	220.98	1.27821	(86022724)
198.12	220.98	1.23047	(86022724)	182.88	220.98	1.13169	(86072924)
167.64	220.98	1.15727	(86072924)	152.40	220.98	1.30489c	(86121124)
137.16	220.98	0.95483	(86031924)	121.92	220.98	1.16878	(86031324)
106.68	220.98	1.53752	(86031324)	91.44	220.98	1.81905	(86031324)
76.20	220.98	2.37385	(86031324)	60.96	220.98	2.10176	(86031324)
45.72	220.98	1.84893	(86031324)	30.48	220.98	1.48558	(86031324)
15.24	220.98	1.04552	(86031324)	0.00	220.98	1.25976	(86030924)
0.00	213.36	1.33966	(86030924)	0.00	198.12	1.48365	(86030924)
0.00	182.88	1.53841	(86030924)	0.00	167.64	1.33902	(86030924)
0.00	152.40	1.10520c	(86050524)	0.00	137.16	1.07741c	(86050524)
0.00	121.92	0.90807c	(86050524)	0.00	106.68	0.55341c	(86050524)
0.00	91.44	0.57099	(86101924)	0.00	76.20	0.62551	(86101924)
0.00	60.96	0.68269	(86032524)	0.00	45.72	0.77229	(86010824)
0.00	30.48	0.92079	(86010824)	0.00	15.24	1.09914	(86010824)

*** MODELING OPTIONS USED: CONC RURAL FLAT DFAULT

*** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): EXFAN_3 , EXFAN_4 , EXFAN_5 , EXFAN_6 , EXFAN_7 , EXFAN_8 , EXFAN_9 ,
 EXFAN_10, EXFAN_11, EXFAN_12, EXFAN_13, EXFAN_14, EXFAN_15, EXFAN_16, EXFAN_17, EXFAN_18, EXFAN_19,

** CONC OF 111_24 IN MICROGRAMS/M**3 **

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	3.08826	(86031324) AT (	38.28, 298.58) GP	26.	2.14523	(86011124) AT (	231.68, -105.87) GP
2.	2.95951	(86031324) AT (	21.17, 345.56) GP	27.	2.11739	(86030924) AT (	-326.33, 360.64) GP
3.	2.83446	(86031324) AT (	-43.32, 370.45) GP	28.	2.11234	(86030924) AT (	-123.13, 303.48) GP
4.	2.79579	(86031324) AT (	-68.32, 413.75) GP	29.	2.10266	(86010824) AT (	-150.44, -195.78) GP
5.	2.79303	(86031324) AT (	-18.32, 327.15) GP	30.	2.10176	(86031324) AT (	60.96, 220.98) DC
6.	2.76101	(86031324) AT (	55.38, 251.59) GP	31.	2.09438	(86031324) AT (	31.68, 240.54) GP
7.	2.70419	(86031324) AT (	-93.32, 457.05) GP	32.	2.07457	(86030924) AT (	-84.83, 271.34) GP
8.	2.68442	(86031324) AT (	4.07, 392.55) GP	33.	2.06988	(86031324) AT (	-30.13, 486.52) GP
9.	2.58271	(86031324) AT (	6.68, 283.85) GP	34.	2.06366	(86010824) AT (	-54.02, -80.87) GP
10.	2.58263	(86031324) AT (	-118.32, 500.35) GP	35.	2.06326	(86120524) AT (	176.14, -283.28) GP
11.	2.44754	(86031324) AT (	-143.32, 543.65) GP	36.	2.05645	(86120524) AT (	184.82, -332.52) GP
12.	2.39337	(86031324) AT (	80.63, 258.36) GP	37.	2.05037	(86101624) AT (	277.69, -359.21) GP
13.	2.37385	(86031324) AT (	76.20, 220.98) DC	38.	2.03982	(86031324) AT (	-218.32, 673.56) GP
14.	2.37296	(86031324) AT (	-13.03, 439.53) GP	39.	2.03950c	(86121124) AT (	150.09, 356.84) GP
15.	2.30871	(86031324) AT (	-168.32, 586.95) GP	40.	2.03730	(86101624) AT (	260.59, -312.22) GP
16.	2.27992	(86030924) AT (	-196.43, 285.64) GP	41.	2.03181	(86101624) AT (	294.79, -406.19) GP
17.	2.27284	(86011124) AT (	206.68, -62.57) GP	42.	2.02252	(86010824) AT (	-182.57, -234.08) GP
18.	2.25747	(86030924) AT (	-239.73, 310.64) GP	43.	2.02204	(86030924) AT (	-161.44, 335.62) GP
19.	2.25604	(86030924) AT (	-153.13, 260.64) GP	44.	2.01729	(86030924) AT (	-369.63, 385.64) GP
20.	2.24005	(86031324) AT (	71.95, 307.60) GP	45.	2.01330	(86030924) AT (	-66.53, 210.64) GP
21.	2.20029	(86030924) AT (	-283.03, 335.64) GP	46.	2.00743	(86042924) AT (	388.59, 8.03) GP
22.	2.17374	(86030924) AT (	-109.83, 235.64) GP	47.	2.00222	(86120524) AT (	193.50, -381.76) GP
23.	2.17175	(86031324) AT (	-193.32, 630.26) GP	48.	2.00081	(86120524) AT (	167.46, -234.04) GP
24.	2.15215	(86010824) AT (	-118.30, -157.48) GP	49.	1.99139	(86042924) AT (	435.57, -9.07) GP
25.	2.15008	(86010824) AT (	-86.16, -119.17) GP	50.	1.99093	(86011124) AT (	181.68, -19.26) GP

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

