

**APPENDIX D**

A Typical ISCST Output File at 15m above Ground Level

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: CO

1

ISCST3 - (DATED 99155)

ISCST3X PC (32 BIT) VERSION 3.3.0  
(C) COPYRIGHT 1991-1999, TRINITY CONSULTANTS

Run Began on 11/25/1999 at 11:36:07

```
CO STARTING
CO TITLEONE 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT
CO MODELOPT CONC URBAN GRDRIS MSGPRO
CO AVERTIME 1
CO POLLUTID CO
CO TERRHGT5 FLAT
CO FLAGPOLE 0.000000
CO RUNORNOT RUN
CO ERRORFIL F:\wha\data_chn\21270\21270-3\CO-3\COC3.ERR
CO FINISHED
SO STARTING
SO LOCATION 1 POINT 843021.00 814886.00 0.00
SO SRCPARAM 1 0.0214 8 298 4.6 1.5
SO LOCATION 2 POINT 843021.00 814886.00 0.00
SO SRCPARAM 2 0.0157 17 298 4.6 1.5
SO LOCATION 3 POINT 843021.00 814886.00 0.00
SO SRCPARAM 3 0.0106 25 298 4.6 1.5
SO LOCATION 4 POINT 843021.00 814886.00 0.00
SO SRCPARAM 4 0.0082 34 298 4.6 1.5
SO LOCATION 5 POINT 843021.00 814886.00 0.00
SO SRCPARAM 5 0.0058 42 298 4.6 1.5
SO LOCATION 6 POINT 843021.00 814886.00 0.00
SO SRCPARAM 6 0.0064 43.3 298 4.6 1.5
SO LOCATION 7 POINT 843104.00 814803.00 0.00
SO SRCPARAM 7 0.0214 8 298 4.6 1.5
SO LOCATION 8 POINT 843104.00 814803.00 0.00
SO SRCPARAM 8 0.0157 17 298 4.6 1.5
SO LOCATION 9 POINT 843104.00 814803.00 0.00
SO SRCPARAM 9 0.0106 25 298 4.6 1.5
SO LOCATION 10 POINT 843104.00 814803.00 0.00
SO SRCPARAM 10 0.0082 34 298 4.6 1.5
SO LOCATION 11 POINT 843104.00 814803.00 0.00
SO SRCPARAM 11 0.0058 42 298 4.6 1.5
SO LOCATION 12 POINT 843104.00 814803.00 0.00
SO SRCPARAM 12 0.0064 43.3 298 4.6 1.5
SO LOCATION 13 POINT 843031.00 814803.00 0.00
SO SRCPARAM 13 0.0214 8 298 4.6 1.5
SO LOCATION 14 POINT 843031.00 814803.00 0.00
SO SRCPARAM 14 0.0157 17 298 4.6 1.5
SO LOCATION 15 POINT 843031.00 814803.00 0.00
SO SRCPARAM 15 0.0106 25 298 4.6 1.5
SO LOCATION 16 POINT 843031.00 814803.00 0.00
SO SRCPARAM 16 0.0082 34 298 4.6 1.5
SO LOCATION 17 POINT 843031.00 814803.00 0.00
SO SRCPARAM 17 0.0058 42 298 4.6 1.5
SO LOCATION 18 POINT 843031.00 814803.00 0.00
SO SRCPARAM 18 0.0064 43.3 298 4.6 1.5
SO LOCATION 19 POINT 843103.00 814889.00 0.00
SO SRCPARAM 19 0.0214 8 298 4.6 1.5
SO LOCATION 20 POINT 843103.00 814889.00 0.00
SO SRCPARAM 20 0.0157 17 298 4.6 1.5
SO LOCATION 21 POINT 843103.00 814889.00 0.00
SO SRCPARAM 21 0.0106 25 298 4.6 1.5
SO LOCATION 22 POINT 843103.00 814889.00 0.00
SO SRCPARAM 22 0.0082 34 298 4.6 1.5
SO LOCATION 23 POINT 843103.00 814889.00 0.00
SO SRCPARAM 23 0.0058 42 298 4.6 1.5
SO LOCATION 24 POINT 843103.00 814889.00 0.00
SO SRCPARAM 24 0.0064 43.3 298 4.6 1.5
SO EMISFACT 1 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 1 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 1 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 1 HROFDY 1.0000 1.0000 1.0000 1.0000
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SO EMISFACT 5 HROFDY 1.0000 1.0000 1.0000 1.0000
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SO EMISFACT 6 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 7 HROFDY 1.0000 1.0000 1.0000 1.0000
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SO EMISFACT 7 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 7 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 7 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 7 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 8 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 9 HROFDY 1.0000 1.0000 1.0000 1.0000
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SO EMISFACT 9 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 9 HROFDY 1.0000 1.0000 1.0000 1.0000
SO EMISFACT 9 HROFDY 1.0000 1.0000 1.0000 1.0000
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A Typical ISCST Output File at 15m above Ground Level  
Pollutant: CO

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RE GRIDCART CART1 FLAG 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 16 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 17 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 18 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 19 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 20 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 END
RE FINISHED
ME STARTING
ME INPUTFIL F:\WHA\DATA_CHM\METLIB\ANT92.MET FREE
ME ANEMHGT 10.000 METERS
ME SURFDATA 99999 1992
ME UAIRDATA 99999 1992
ME STARTENE 1992 1 1 1 1992 12 31 24
ME WINDGATE 180.00
ME WINDGATE 1.54 3.09 5.14 8.23 10.80
ME FINISHED

```

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OU STARTING
OU RECTABLE 1 FIRST
OU MAXIFILE 1 ALL 800.00 F:\w\ha\data_chm\21270\21270-3\CO-3\COC3.MAX 50
OU POSTFILE 1 ALL UNIFORM F:\w\ha\data_chm\21270\21270-3\CO-3\COC3.HRL 60
OU FINISHED

```

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

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1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** *** 11:36:08
**MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 1
CONC

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\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

\*\*Intermediate Terrain Processing is Selected

\*\*Model is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --  
\*\*Model Uses NO DRY DEPLETION. DDPLETE = F  
\*\*Model Uses NO WET DEPLETION. WDPLETE = F  
\*\*NO WET SCAVENGING Data Provided.  
\*\*NO GAS DRY DEPOSITION Data Provided.  
\*\*Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

\*\*Model Uses URBAN Dispersion.

\*\*Model Uses User-Specified Options:  
1. Gradual Plume Rise.  
2. Stack-tip Downwash.  
3. Buoyancy-induced Dispersion.  
4. Calms Processing Routine.  
5. Missing Data Processing Routine.  
6. Default Wind Profile Exponents.  
7. Default Vertical Potential Temperature Gradients.

\*\*Model Assumes Receptors on FLAT Terrain.

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*Model Calculates 1 Short Term Average(s) of: 1-HR

\*\*This Run Includes: 24 Source(s); 1 Source Group(s); and 340 Receptor(s)

\*\*The Model Assumes A Pollutant Type of: CO

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*Output Options Selected:  
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)  
Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)  
Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
m for Missing Hours  
b for Both Calm and Missing Hours

\*\*Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 180.0  
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 1.2 MB of RAM.

\*\*Input Runstream File: F:\WHA\DATA\_CHM\21270\21270-3\CO-3\COC3.DAT

\*\*Output Print File: F:\WHA\DATA\_CHM\21270\21270-3\CO-3\COC3.LST

\*\*Detailed Error/Message File: F:\w\ha\data\_chm\21270\21270-3\CO-3\COC3.ERR

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1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** *** 11:36:08
**MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 2
CONC

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\*\*\* POINT SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	0.21400E-01	843021.0	814886.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
2	0	0.15700E-01	843021.0	814886.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
3	0	0.10600E-01	843021.0	814886.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
4	0	0.82000E-02	843021.0	814886.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
5	0	0.58000E-02	843021.0	814886.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
6	0	0.64000E-02	843021.0	814886.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
7	0	0.21400E-01	843104.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
8	0	0.15700E-01	843104.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
9	0	0.10600E-01	843104.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
10	0	0.82000E-02	843104.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
11	0	0.58000E-02	843104.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
12	0	0.64000E-02	843104.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
13	0	0.21400E-01	843031.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: CO

14	0	0.15700E-01	843031.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
15	0	0.10600E-01	843031.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
16	0	0.82000E-02	843031.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
17	0	0.58000E-02	843031.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
18	0	0.64000E-02	843031.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
19	0	0.21400E-01	843103.0	814889.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
20	0	0.15700E-01	843103.0	814889.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
21	0	0.10600E-01	843103.0	814889.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
22	0	0.82000E-02	843103.0	814889.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
23	0	0.58000E-02	843103.0	814889.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
24	0	0.64000E-02	843103.0	814889.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY

1 \*\*\* ISCST3 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT      \*\*\*      11/25/99  
 \*\*\*      \*\*\*      \*\*\*      11:36:08  
 \*\*MODELOPTS:      URBAN FLAT FLGPOL      GRDRIS      MSGPRO      PAGE 3  
 CONC

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs																							
ALL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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 \*\*\*      \*\*\*      \*\*\*      11:36:08  
 \*\*MODELOPTS:      URBAN FLAT FLGPOL      GRDRIS      MSGPRO      PAGE 4  
 CONC

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

SOURCE ID = 1 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 2 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 3 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 4 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 5 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

1 \*\*\* ISCST3 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT      \*\*\*      11/25/99  
 \*\*\*      \*\*\*      \*\*\*      11:36:08  
 \*\*MODELOPTS:      URBAN FLAT FLGPOL      GRDRIS      MSGPRO      PAGE 5  
 CONC

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR	GROUP	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

SOURCE ID = 6 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 7 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 8 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 9 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 10 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
---	------------	---	------------	---	------------	---	------------	---	------------	---	------------



A Typical ISCST Output File at 15m above Ground Level  
Pollutant: CO

SOURCE ID = 22 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 23 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 24 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

1 \*\*\* ISCAST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 11:36:08  
 \*\*MODELOPTS: PAGE 9  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

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

842445.0, 842495.0, 842545.0, 842595.0, 842645.0, 842695.0, 842745.0, 842795.0, 842845.0, 842895.0,  
 842945.0, 842995.0, 843045.0, 843095.0, 843145.0, 843195.0, 843245.0,

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

814375.0, 814435.0, 814495.0, 814555.0, 814615.0, 814675.0, 814735.0, 814795.0, 814855.0, 814915.0,  
 814975.0, 815035.0, 815095.0, 815155.0, 815215.0, 815275.0, 815335.0, 815395.0, 815455.0, 815515.0,

1 \*\*\* ISCAST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
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 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842445.00	842495.00	842545.00	842595.00	842645.00	842695.00	842745.00	842795.00	842845.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCAST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 11:36:08  
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 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842895.00	842945.00	842995.00	843045.00	843095.00	843145.00	843195.00	843245.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCAST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 11:36:08  
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 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO







A Typical ISCST Output File at 15m above Ground Level  
Pollutant: CO

```

815515.0 | 18.99540 (92042824) 14.36653 (92042824)
815455.0 | 19.92574 (92042824) 17.75408 (92072104)
815395.0 | 20.44722 (92042824) 21.03218 (92072104)
815335.0 | 20.41284 (92042824) 23.52764 (92072104)
815275.0 | 23.18231 (92072104) 24.52129 (92072104)
815215.0 | 26.47817 (92072104) 23.39018 (92053017)
815155.0 | 29.52860 (92072104) 29.07685 (92053017)
815095.0 | 29.32671 (92072104) 28.06327 (92053017)
815035.0 | 37.16868 (92053017) 32.21487 (92061806)
814975.0 | 41.22666 (92071502) 35.11286 (92042724)
814915.0 | 52.99032 (92051806) 44.43950 (92051806)
814855.0 | 50.18171 (92041920) 40.42562 (92091504)
814795.0 | 57.56300 (92071506) 42.81226 (92071506)
814735.0 | 50.24388 (92050723) 34.73830 (92051719)
814675.0 | 37.12449 (92050722) 36.07790 (92050723)
814615.0 | 31.30186 (92061002) 32.33664 (92050722)
814555.0 | 29.13347 (92070823) 29.69259 (92061002)
814495.0 | 27.53778 (92070823) 26.59928 (92061002)
814435.0 | 25.22985 (92070823) 24.05983 (92070823)
814375.0 | 21.22739 (92070823) 24.24087 (92070823)
1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT ***

```

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11:36:08  
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```

**MODELOFTs:
CONC          URBAN FLAT  FLGPOL          GRDRIS          MSGPRO

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

```

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZEELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 373.87131	ON 92011021	AT ( 843095.00, 814795.00, 0.00, 15.00)	GC	CART1

```

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

```

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (CO) FIRST BUS PERMANENT DEPOT ***
**MODELOFTs:
CONC          URBAN FLAT  FLGPOL          GRDRIS          MSGPRO

```

11/25/99  
11:36:08  
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\*\*\* Message Summary : ISCST3 Model Execution \*\*\*

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 289 Informational Message(s)

A Total of 27 Calm Hours Identified
A Total of 262 Missing Hours Identified

```

```

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

```

```

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

```

```

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

```





A Typical ISCST Output File at 15m above Ground Level  
Pollutant: NO<sub>2</sub>

```

RE GRIDCART CART1 FLAG 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 16 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 17 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 18 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 19 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 20 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 END

```

```

RE FINISHED
ME STARTING
ME INPUTFIL F:\WHA\DATA_CHM\METLIB\KT92.MET FREE
ME ANEMHGT 10.00 METERS
ME SURFDATA 99999 1992
ME URDATA 99999 1992
ME STARTEND 1992 1 1 1 1992 12 31 24
ME WINDGATE 180.00
ME WINDGATS 1.54 3.09 5.14 8.23 10.80
ME FINISHED
OU STARTING
OU RECTABLE 1 FIRST
OU MAXIFILE 1 ALL 800.00 F:\wha\data_chm\21270\21270-3\NO-3\NOC3.MAX 50
OU POSTFILE 1 ALL UNIFORM F:\wha\data_chm\21270\21270-3\NO-3\NOC3.HRL 60
OU FINISHED

```

\*\*\* SETUP Finishes Successfully \*\*\*

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT *** 11/29/99
*** 16:51:27
**MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO ***
CONC PAGE 1

```

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

```

-- Intermediate Terrain Processing is Selected
-- Model Is Setup For Calculation of Average CONCENTRATION Values.
-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations
**Model Uses URBAN Dispersion.
**Model Uses User-Specified Options:
1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
**Model Assumes Receptors on FLAT Terrain.
**Model Accepts FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR
**This Run Includes: 24 Source(s); 1 Source Group(s); and 340 Receptor(s)
**The Model Assumes A Pollutant Type of: NO2
**Model Set To Continue RUNNING After the Setup Testing.
**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)
Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 180.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 1.2 MB of RAM.
**Input Runstream File: F:\WHA\DATA_CHM\21270\21270-3\NO-3\NOC3.DAT
**Output Print File: F:\WHA\DATA_CHM\21270\21270-3\NO-3\NOC3.LST
**Detailed Error/Message File: F:\wha\data_chm\21270\21270-3\NO-3\NOC3.ERR

```

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT *** 11/29/99
*** 16:51:27
**MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO ***
CONC PAGE 2

```

\*\*\* POINT SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG. K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	0.49000E-02	843021.0	814886.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
2	0	0.36000E-02	843021.0	814886.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
3	0	0.24000E-02	843021.0	814886.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
4	0	0.19000E-02	843021.0	814886.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
5	0	0.13000E-02	843021.0	814886.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
6	0	0.15000E-02	843021.0	814886.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
7	0	0.49000E-02	843104.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
8	0	0.36000E-02	843104.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
9	0	0.24000E-02	843104.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
10	0	0.19000E-02	843104.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
11	0	0.13000E-02	843104.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
12	0	0.15000E-02	843104.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
13	0	0.49000E-02	843031.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY

A Typical ISCST Output File at 15m above Ground Level

Pollutant: NO<sub>2</sub>

14	0	0.36000E-02	843031.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
15	0	0.24000E-02	843031.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
16	0	0.19000E-02	843031.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
17	0	0.13000E-02	843031.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
18	0	0.15000E-02	843031.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
19	0	0.49000E-02	843103.0	814889.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
20	0	0.36000E-02	843103.0	814889.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
21	0	0.24000E-02	843103.0	814889.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
22	0	0.19000E-02	843103.0	814889.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
23	0	0.13000E-02	843103.0	814889.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
24	0	0.15000E-02	843103.0	814889.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY

1 \*\*\* ISCS73 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT      \*\*\*      11/29/99  
 \*\*\*      \*\*\*      \*\*\*      16:51:27  
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\*\*MODELOPTS:  
 CONC                                URBAN FLAT FLGPOL                                GRDRIS                                MSGPRO

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs																							
ALL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

1 \*\*\* ISCS73 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT      \*\*\*      11/29/99  
 \*\*\*      \*\*\*      \*\*\*      16:51:27  
 \*\*\*      \*\*\*      \*\*\*      PAGE 4

\*\*MODELOPTS:  
 CONC                                URBAN FLAT FLGPOL                                GRDRIS                                MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR																																						
SOURCE ID = 1		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 2		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
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SOURCE ID = 3		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
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SOURCE ID = 4		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
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SOURCE ID = 5		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
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1 \*\*\* ISCS73 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT      \*\*\*      11/29/99  
 \*\*\*      \*\*\*      \*\*\*      16:51:27  
 \*\*\*      \*\*\*      \*\*\*      PAGE 5

\*\*MODELOPTS:  
 CONC                                URBAN FLAT FLGPOL                                GRDRIS                                MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

SOURCE ID = 6		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
---------------	--	---------------------	--	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------

SOURCE ID = 7		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
---------------	--	---------------------	--	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------

SOURCE ID = 8		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
---------------	--	---------------------	--	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------

SOURCE ID = 9		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01	7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01	13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01	19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01
---------------	--	---------------------	--	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	---	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------	----	------------

SOURCE ID = 10		SOURCE TYPE = POINT		1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
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A Typical ISCST Output File at 15m above Ground Level  
Pollutant: NO<sub>2</sub>

SOURCE ID = 22 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 23 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 24 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

\*\*\* ISCS3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*\* 16:51:27  
 \*\*MODELOPTS: PAGE 9  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

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

842445.0, 842495.0, 842545.0, 842595.0, 842645.0, 842695.0, 842745.0, 842795.0, 842845.0, 842895.0,  
 842945.0, 842995.0, 843045.0, 843095.0, 843145.0, 843195.0, 843245.0,

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

814375.0, 814435.0, 814495.0, 814555.0, 814615.0, 814675.0, 814735.0, 814795.0, 814855.0, 814915.0,  
 814975.0, 815035.0, 815095.0, 815155.0, 815215.0, 815275.0, 815335.0, 815395.0, 815455.0, 815515.0,

\*\*\* ISCS3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*\* 16:51:27  
 \*\*MODELOPTS: PAGE 10  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842445.00	842495.00	842545.00	842595.00	842645.00	842695.00	842745.00	842795.00	842845.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

\*\*\* ISCS3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*\* 16:51:27  
 \*\*MODELOPTS: PAGE 11  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842895.00	842945.00	842995.00	843045.00	843095.00	843145.00	843195.00	843245.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

\*\*\* ISCS3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*\* 16:51:27  
 \*\*MODELOPTS: PAGE 12  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO



# A Typical ISCST Output File at 15m above Ground Level Pollutant: NO<sub>2</sub>

\*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\*  
(1=YES; 0=NO)

```

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
  
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 1992 1 1 1  
AND END DATE: 1992 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*  
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

\*\*\* WIND PROFILE EXPONENTS \*\*\*

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
B	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
C	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00
D	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00
E	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00
F	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00

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

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

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*MODELOPTS: \*\*\* \*\* \*\*\* \*\* 16:51:27  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 13

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

FILE: F:\WHA\DATA\_CHM\METLIB\KRT92.MET  
 FORMAT: FREE  
 SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999  
 NAME: UNKNOWN NAME: UNKNOWN  
 YEAR: 1992 YEAR: 1992

YR MN DY HR	VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M)	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
92 01 01 01	90.0	2.00	289.3	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 02	70.0	3.00	289.3	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 03	70.0	1.50	289.2	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 04	140.0	2.00	289.3	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 05	140.0	2.50	289.3	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 06	170.0	2.50	289.2	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 07	230.0	3.50	288.8	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 08	250.0	2.50	288.8	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 09	200.0	2.00	289.3	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 10	270.0	1.00	290.1	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 11	240.0	3.00	290.6	3	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 12	230.0	3.50	291.5	3	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 13	240.0	3.00	291.4	3	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 14	230.0	5.00	290.8	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 15	250.0	2.50	289.8	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 16	260.0	3.00	289.6	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 17	250.0	3.50	290.2	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 18	260.0	1.50	289.9	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 19	240.0	3.00	290.0	4	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 20	240.0	2.00	289.8	5	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 21	230.0	0.50	290.0	6	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 22	230.0	1.00	289.9	6	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 23	250.0	0.50	289.7	6	393.2	393.2	0.0000	0.0	0.0000	0 0.00
92 01 01 24	250.0	0.50	289.6	6	393.2	393.2	0.0000	0.0	0.0000	0 0.00

\*\*\* NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.  
 FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.  
 1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/29/99  
 \*\*MODELOPTS: \*\*\* \*\* \*\*\* \*\* 16:51:27  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 14

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*

INCLUDING SOURCE(S):

8	9	10	11	12	13	14	15	16	17	18	19
20	21	22	23	24							

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS) | 842445.00 | 842495.00 | X-COORD (METERS) | 842545.00 | 842595.00 | 842645.00



A Typical ISCST Output File at 15m above Ground Level  
Pollutant: NO<sub>2</sub>

```

815015.0 | 4.34951 (92042824) 3.28963 (92042824)
815455.0 | 4.56236 (92042824) 4.06515 (92072104)
815395.0 | 4.68156 (92042824) 4.81555 (92072104)
815335.0 | 4.67345 (92042824) 5.38665 (92072104)
815275.0 | 5.30724 (92072104) 5.61385 (92072104)
815215.0 | 6.06138 (92072104) 5.35460 (92053017)
915155.0 | 6.75917 (92072104) 6.65597 (92053017)
815095.0 | 6.71252 (92072104) 6.42354 (92053017)
815035.0 | 8.50757 (92053017) 7.37356 (92061806)
814975.0 | 9.43820 (92071502) 8.03714 (92042724)
814915.0 | 12.13225 (92051806) 10.17260 (92051806)
814855.0 | 11.49072 (92041920) 9.25368 (92091504)
814795.0 | 13.17976 (92071506) 9.80015 (92071506)
814735.0 | 11.50293 (92050723) 7.95160 (92051719)
814675.0 | 8.49775 (92050722) 8.25775 (92050723)
814615.0 | 7.16459 (92061002) 7.40158 (92050722)
814555.0 | 6.66854 (92070823) 6.79674 (92061002)
814495.0 | 6.30379 (92070823) 6.08912 (92061002)
814435.0 | 5.77587 (92070823) 5.50809 (92070823)
814375.0 | 4.85987 (92070823) 5.54985 (92070823)

```

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT *** 11/29/99
*** 16:51:27
**MODELPTS:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 18

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

\*\* CONC OF NO2 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL HIGH 1ST HIGH VALUE IS	85.60607	ON 92011021: AT (	843095.00, 814795.00, 0.00, 15.00)	GC	CART1

```

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

```

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (NO2) FIRST BUS PERMANENT DEPOT *** 11/29/99
*** 16:51:27
**MODELPTS:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 19

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\*\*\* Message Summary : ISCST3 Model Execution \*\*\*

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 289 Informational Message(s)
A Total of 27 Calm Hours Identified
A Total of 262 Missing Hours Identified

```

```

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

```

```

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

```

```

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

```





A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

```

RE GRIDCART CART1 FLAG 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 16 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 17 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 18 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 19 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 20 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 END
RE FINISHED
ME STARTING
ME INPUTFIL F:\WHA\DATA_CHM\METLIB\KT92.MET FREE
ME ANEMHGT 10.000 METERS
ME CURFDATA 99999 1992
ME UAIRDATA 99999 1992
ME STARTEND 1992 1 1 1992 12 31 24
ME WINDRATE 180.00
ME WINDCATS 1.54 3.09 5.14 8.23 10.80
ME FINISHED
OU STARTING
OU RECTABLE 1 FIRST
OU RECTABLE 24 FIRST
OU MAXIFILE 1 ALL 800.00 F:\wha\data_chm\21270\21270-3\RSP-3\RPC3.MAX 50
OU MAXIFILE 24 ALL 350.00 F:\wha\data_chm\21270\21270-3\RSP-3\RPC3.MAX 50
OU POSTFILE 1 ALL UNIFORM F:\wha\data_chm\21270\21270-3\RSP-3\RPC3.HRL 60
OU POSTFILE 24 ALL UNIFORM F:\wha\data_chm\21270\21270-3\RSP-3\RPC3.HRL 60
OU FINISHED

```

```

*****
*** SETUP Finished Successfully ***
*****
1 *** ISCS3 - VERSION 99155 ***      *** 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT      ***      11/25/99
***                                     ***                                     ***      10:34:35
**MODELOPTS:                                **                                     **      PAGE 1
CONC                URBAN  FLAT  FLGPOL      GRDRIS                MSGPRO

```

\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

```

-----
**Intermediate Terrain Processing is Selected
**Model Is Setup For Calculation of Average CONCENTRATION Values.
  -- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  ODDLETE = F
**Model Uses NO WET DEPLETION.  WDDLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations
**Model Uses URBAN Dispersion.
**Model Uses User-Specified Options:
  1. Gradual Plume Rise.
  2. Stack-tip Downwash.
  3. Buoyancy-induced Dispersion.
  4. Calms Processing Routine.
  5. Missing Data Processing Routine.
  6. Default Wind Profile Exponents.
  7. Default Vertical Potential Temperature Gradients.
**Model Assumes Receptors on FLAT Terrain.
**Model Accepts FLAGPOLE Receptor Heights.
**Model Calculates 2 Short Term Average(s) of:  1-HR  24-HR
**This Run Includes:  24 Source(s);  1 Source Group(s); and  340 Receptor(s)
**The Model Assumes A Pollutant Type of:  RSP
**Model Set To Continue RUNNING After the Setup Testing.
**Output Options Selected:
  Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
  Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)
  Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE Keyword)
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                    m for Missing Hours
                                                    b for Both Calm and Missing Hours
**Misc. Inputs:  Anem. Hgt. (m) = 10.00 ;  Decay Coef. = 0.0000 ;  Rot. Angle = 180.0
                  Emission Units = GRAMS/SEC ;  Emission Rate Unit Factor = 0.10000E+07
                  Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 1.2 MB of RAM.
**Input Runstream File:  F:\WHA\DATA_CHM\21270\21270-3\RSP-3\RPC3.DAT
**Output Print File:  F:\WHA\DATA_CHM\21270\21270-3\RSP-3\RPC3.LST
**Detailed Error/Message File:  F:\wha\data_chm\21270\21270-3\RSP-3\RPC3.ERR
1 *** ISCS3 - VERSION 99155 ***      *** 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT      ***      11/25/99
***                                     ***                                     ***      10:34:35
**MODELOPTS:                                **                                     **      PAGE 2
CONC                URBAN  FLAT  FLGPOL      GRDRIS                MSGPRO

```

\*\*\* POINT SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	0.17000E-02	843021.0	814886.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
2	0	0.13000E-02	843021.0	814886.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
3	0	0.80000E-03	843021.0	814886.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
4	0	0.60000E-03	843021.0	814886.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
5	0	0.50000E-03	843021.0	814886.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
6	0	0.60000E-03	843021.0	814886.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
7	0	0.17000E-02	843104.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
8	0	0.13000E-02	843104.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
9	0	0.80000E-03	843104.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
10	0	0.60000E-03	843104.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

Line	Conc	Model	X	Y	Z	U	V	W	H	Dir	Disp
11	0	0.50000E-03	843104.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
12	0	0.60000E-03	843104.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
13	0	0.17000E-02	843031.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
14	0	0.13000E-02	843031.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
15	0	0.80000E-03	843031.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
16	0	0.60000E-03	843031.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
17	0	0.50000E-03	843031.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
18	0	0.60000E-03	843031.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
19	0	0.17000E-02	843103.0	814889.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
20	0	0.13000E-02	843103.0	814889.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
21	0	0.80000E-03	843103.0	814889.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
22	0	0.60000E-03	843103.0	814889.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
23	0	0.50000E-03	843103.0	814889.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
24	0	0.60000E-03	843103.0	814889.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY

1 \*\*\* ISCS3 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT      \*\*\*      11/25/99  
 \*\*\*      \*\*\*      \*\*\*      10:34:35  
 \*\*\*      \*\*\*      \*\*\*      PAGE 3

\*\*MODELOPTS:  
CONC

URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs																							
ALL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

1 \*\*\* ISCS3 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT      \*\*\*      11/25/99  
 \*\*\*      \*\*\*      \*\*\*      10:34:35  
 \*\*\*      \*\*\*      \*\*\*      PAGE 4

\*\*MODELOPTS:  
CONC

URBAN FLAT FLGPOL GRDRIS MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

SOURCE ID	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR											
SOURCE ID = 1 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 2 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 3 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 4 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 5 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01

1 \*\*\* ISCS3 - VERSION 99155 \*\*\*      \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT      \*\*\*      11/25/99  
 \*\*\*      \*\*\*      \*\*\*      10:34:35  
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\*\*MODELOPTS:  
CONC

URBAN FLAT FLGPOL GRDRIS MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

SOURCE ID	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR	SCALAR											
SOURCE ID = 6 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 7 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 8 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01
SOURCE ID = 9 ; SOURCE TYPE = POINT :	1 .10000E+01	2 .10000E+01	3 .10000E+01	4 .10000E+01	5 .10000E+01	6 .10000E+01	7 .10000E+01	8 .10000E+01	9 .10000E+01	10 .10000E+01	11 .10000E+01	12 .10000E+01	13 .10000E+01	14 .10000E+01	15 .10000E+01	16 .10000E+01	17 .10000E+01	18 .10000E+01	19 .10000E+01	20 .10000E+01	21 .10000E+01	22 .10000E+01	23 .10000E+01	24 .10000E+01





A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 22 ; SOURCE TYPE = POINT ;  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 23 ; SOURCE TYPE = POINT ;  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 24 ; SOURCE TYPE = POINT ;  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:34:35  
 \*\*MODELOPTS: PAGE 9  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

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

842445.0, 842495.0, 842545.0, 842595.0, 842645.0, 842695.0, 842745.0, 842795.0, 842845.0, 842895.0,  
 842945.0, 842995.0, 843045.0, 843095.0, 843145.0, 843195.0, 843245.0,

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

814375.0, 814435.0, 814495.0, 814555.0, 814615.0, 814675.0, 814735.0, 814795.0, 814855.0, 814915.0,  
 814975.0, 815035.0, 815095.0, 815155.0, 815215.0, 815275.0, 815335.0, 815395.0, 815455.0, 815515.0,

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
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 \*\*MODELOPTS: PAGE 10  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842445.00	842495.00	842545.00	842595.00	842645.00	842695.00	842745.00	842795.00	842845.00	842895.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:34:35  
 \*\*MODELOPTS: PAGE 11  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842895.00	842945.00	842995.00	843045.00	843095.00	843145.00	843195.00	843245.00
815515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
815035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
814375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:34:35



A Typical ISCST Output File at 15m above Ground Level
Pollutant: RSP

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* ISCS3 - VERSION 99155 \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*
\*\*MODELOPTs: CONC URBAN FLAT FLGPOL GRDRIS MSGPRO
\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S):

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* ISCS3 - VERSION 99155 \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*
\*\*MODELOPTs: CONC URBAN FLAT FLGPOL GRDRIS MSGPRO
\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S):

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* ISCS3 - VERSION 99155 \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*
\*\*MODELOPTs: CONC URBAN FLAT FLGPOL GRDRIS MSGPRO
\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S):

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Table with 7 columns: Y-COORD (METERS), X-COORD (METERS), and six columns of RSP concentration values. Includes source IDs in parentheses.

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

(METERS)	843195.00	843245.00
815515.0	1.52490 (92042824)	1.15340 (92042824)
815455.0	1.59877 (92042824)	1.42468 (92072104)
815395.0	1.63966 (92042824)	1.68682 (92072104)
815335.0	1.63584 (92042824)	1.86580 (92072104)
815275.0	1.85656 (92072104)	1.96411 (92072104)
815215.0	2.11889 (92072104)	1.87227 (92053017)
815155.0	2.36110 (92072104)	2.32568 (92053017)
815095.0	2.34387 (92072104)	2.24331 (92053017)
815035.0	2.97199 (92053017)	2.57494 (92061806)
814975.0	3.29938 (92071502)	2.80822 (92042724)
814915.0	4.23829 (92051806)	3.55539 (92051806)
814855.0	4.01437 (92041920)	3.23392 (92091504)
814795.0	4.60368 (92071506)	3.42524 (92071506)
814735.0	4.01987 (92050723)	2.77850 (92051719)
814675.0	2.96912 (92050722)	2.88406 (92050723)
814615.0	2.50193 (92061002)	2.58473 (92050722)
814555.0	2.32893 (92070823)	2.37434 (92061002)
814495.0	2.20304 (92070823)	2.12863 (92061002)
814435.0	2.02002 (92070823)	1.92665 (92070823)
814375.0	1.70079 (92070823)	1.94252 (92070823)

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
10:34:35  
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\*\*MODELOPTS:  
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO  
\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): 1 2 3 4 5 6 7  
8 9 10 11 12 13 14 15 16 17 18 19  
20 21 22 23 24  
\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*  
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	842445.00	842495.00	X-COORD (METERS) 842545.00	842595.00	842645.00
815515.0	0.21929 (92080224)	0.23076 (92080224)	0.22399 (92080224)	0.19736 (92080224)	0.17184 (92053024)
815455.0	0.21992 (92080224)	0.24612 (92080224)	0.26006 (92080224)	0.25087 (92080224)	0.21663 (92080224)
815395.0	0.21380 (92080224)	0.24645 (92080224)	0.27861 (92080224)	0.29575 (92080224)	0.28291 (92080224)
815335.0	0.20845 (92080224)	0.23934 (92080224)	0.27849 (92080224)	0.31850 (92080224)	0.33978 (92080224)
815275.0	0.23566 (92081424)	0.23342 (92080224)	0.27019 (92080224)	0.31773 (92080224)	0.36822 (92080224)
815215.0	0.31343 (92081424)	0.30670 (92081424)	0.27213 (92081424)	0.30724 (92080224)	0.36649 (92080224)
815155.0	0.30584 (92081424)	0.35136 (92081424)	0.37633 (92081424)	0.36704 (92081424)	0.34944 (92080224)
815095.0	0.26339 (92072024)	0.29641 (92072024)	0.35691 (92081424)	0.42108 (92081424)	0.45859 (92081424)
815035.0	0.20779 (92072024)	0.25207 (92072024)	0.30264 (92072024)	0.35979 (92072024)	0.42251 (92072024)
814975.0	0.18891 (92100424)	0.21607 (92091324)	0.24758 (92091324)	0.28124 (92091324)	0.31820 (92072024)
814915.0	0.19186 (92092924)	0.20861 (92092924)	0.22900 (92052724)	0.25277 (92100424)	0.28974 (92100424)
814855.0	0.18262 (92092924)	0.20333 (92052724)	0.22946 (92052724)	0.26070 (92052724)	0.29805 (92052724)
814795.0	0.14697 (92111724)	0.16061 (92111724)	0.17658 (92110724)	0.19986 (92052724)	0.23082 (92052724)
814735.0	0.12650 (92060324)	0.14314 (92060324)	0.16192 (92060324)	0.18268 (92060324)	0.20504 (92060324)
814675.0	0.12019m(92012224)	0.13482m(92041324)	0.14785m(92041324)	0.15868m(92041324)	0.16948m(92041324)
814615.0	0.12746m(92041324)	0.13205m(92041324)	0.13454m(92041324)	0.13654m(92041324)	0.13964m(92041324)
814555.0	0.10325m(92041324)	0.10031m(92041324)	0.09916m(92041324)	0.12294 (92102624)	0.16384 (92082524)
814495.0	0.08075 (92082624)	0.09765 (92102624)	0.12282 (92082524)	0.15887 (92082524)	0.19042 (92082524)
814435.0	0.09468 (92102624)	0.12256 (92082524)	0.15078 (92082524)	0.17056 (92082524)	0.17267 (92082524)
814375.0	0.11962 (92082524)	0.13986 (92082524)	0.15051 (92082524)	0.14668 (92082524)	0.14964 (92111124)

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
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\*\*MODELOPTS:  
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO  
\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): 1 2 3 4 5 6 7  
8 9 10 11 12 13 14 15 16 17 18 19  
20 21 22 23 24  
\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*  
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	842695.00	842745.00	X-COORD (METERS) 842795.00	842845.00	842895.00
815515.0	0.16091 (92053024)	0.14553 (92053024)	0.13356 (92053024)	0.13362 (92053024)	0.14114 (92053024)
815455.0	0.19203 (92053024)	0.17606 (92053024)	0.15828 (92053024)	0.15092 (92053024)	0.15694 (92053024)
815395.0	0.23796 (92080224)	0.21481 (92053024)	0.19291 (92053024)	0.17635 (92053024)	0.17708 (92053024)
815335.0	0.32121 (92080224)	0.26123 (92053024)	0.24017 (92053024)	0.21393 (92053024)	0.20513 (92053024)
815275.0	0.39491 (92080224)	0.36698 (92080224)	0.30124 (92053024)	0.26904 (92053024)	0.24640 (92053024)
815215.0	0.43141 (92080224)	0.45525 (92080224)	0.42113 (92080224)	0.34824 (92053024)	0.30797 (92053024)
815155.0	0.42733 (92080224)	0.51365 (92080224)	0.55757 (92080224)	0.48350 (92080224)	0.40497 (92053024)
815095.0	0.44688 (92081424)	0.50000 (92080224)	0.62328 (92080224)	0.68552 (92080224)	0.55153 (92080224)
815035.0	0.50651 (92081424)	0.56732 (92081424)	0.57267 (92080224)	0.76756 (92080224)	0.88689 (92080224)
814975.0	0.40396 (92072024)	0.51951 (92072024)	0.66764 (92072024)	0.80471 (92072024)	0.94952 (92080224)
814915.0	0.33202 (92100424)	0.37887 (92100424)	0.42988 (92100424)	0.65030 (92081424)	0.79676 (92072024)
814855.0	0.34237 (92052724)	0.39341 (92052724)	0.48381 (92100424)	0.60188 (92100424)	0.69807 (92100424)
814795.0	0.27167 (92052724)	0.32527 (92052724)	0.39003 (92052724)	0.45824 (92052724)	0.57113 (92081524)
814735.0	0.22840 (92060324)	0.25190 (92060324)	0.27234 (92060324)	0.35238 (92082524)	0.39096 (92021024)
814675.0	0.18496m(92041324)	0.20347m(92041324)	0.24707 (92082524)	0.30659 (92082524)	0.40272 (92101824)
814615.0	0.17020 (92082524)	0.22165 (92082524)	0.27141 (92082524)	0.31449 (92101824)	0.32906 (92101824)
814555.0	0.20764 (92082524)	0.23676 (92082524)	0.25295 (92101824)	0.26891 (92111124)	0.28150m(92100524)
814495.0	0.20308 (92082524)	0.20680 (92101824)	0.23010 (92111124)	0.24583 (92111124)	0.25464m(92100524)
814435.0	0.17180 (92101824)	0.19852 (92111124)	0.21559 (92111124)	0.20992 (92111124)	0.21483m(92100524)
814375.0	0.17250 (92111124)	0.18882 (92111124)	0.19049 (92111124)	0.17901m(92100524)	0.17353m(92100524)

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
10:34:35  
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\*\*MODELOPTS:  
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO  
\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): 1 2 3 4 5 6 7  
8 9 10 11 12 13 14 15 16 17 18 19  
20 21 22 23 24  
\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*  
\*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

Y-COORD (METERS)	842945.00	842995.00	X-COORD (METERS) 843045.00	843095.00	843145.00
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A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

815515.0	0.13406	(92053024)	0.10088	(92053024)	0.11983	(92062324)	0.12863	(92070224)	0.16681	(92080124)
815455.0	0.15255	(92053024)	0.11835	(92053024)	0.13041	(92062324)	0.14777	(92070224)	0.18715	(92080124)
815395.0	0.17442	(92053024)	0.13898	(92053024)	0.14205	(92062324)	0.17142	(92070224)	0.20772	(92080124)
815335.0	0.20179	(92053024)	0.16314	(92053024)	0.16402	(92070224)	0.20079	(92070224)	0.22679	(92080124)
815275.0	0.23938	(92053024)	0.19176	(92053024)	0.19211	(92070224)	0.23733	(92070224)	0.24835	(92070224)
815215.0	0.29565	(92053024)	0.22903	(92053024)	0.22800	(92070224)	0.28245	(92070224)	0.29411	(92070224)
815155.0	0.37871	(92053024)	0.29154	(92053024)	0.28764	(92080124)	0.33827	(92070224)	0.36575	(92070224)
815095.0	0.49753	(92053024)	0.42600	(92053024)	0.40456	(92080124)	0.41607	(92070224)	0.47046	(92070224)
815035.0	0.70299	(92053024)	0.69518	(92053024)	0.59406	(92080124)	0.56821	(92070224)	0.58151	(92070224)
814975.0	1.27430	(92080224)	1.06562	(92053024)	0.84690	(92080224)	0.83957b	(92061824)	0.99122	(92071524)
814915.0	1.37170	(92072024)	2.96018	(92080224)	2.18506	(92061724)	2.02617b	(92051824)	1.99427	(92071524)
814855.0	1.11135	(92081424)	1.62297	(92101824)	1.70707m	(92030624)	1.96202	(92101524)	1.26836	(92071524)
814795.0	0.94748	(92101924)	2.35207	(92060324)	3.45166	(92082024)	5.84847	(92102624)	2.07935	(92090424)
814735.0	0.56412	(92101824)	0.97692	(92101724)	1.06180	(92081624)	0.83195	(92101524)	0.85694m	(92030624)
814675.0	0.46796m	(92100524)	0.52537m	(92100524)	0.55203	(92081624)	0.61591	(92081824)	0.49262	(92081824)
814615.0	0.39514m	(92100524)	0.38097m	(92100524)	0.35763	(92081624)	0.38278	(92081824)	0.37116	(92081824)
814555.0	0.31638m	(92100524)	0.28814	(92101524)	0.25795	(92081624)	0.29363	(92081624)	0.27713	(92081824)
814495.0	0.24167m	(92100524)	0.24415	(92101524)	0.19499	(92081624)	0.25923	(92081624)	0.23083	(92081624)
814435.0	0.20640	(92101524)	0.20063	(92101524)	0.15945m	(92101224)	0.21816	(92081624)	0.21424	(92081624)
814375.0	0.18542	(92101524)	0.16448	(92101524)	0.14299m	(92101224)	0.18103	(92081624)	0.19750	(92081624)

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*  
 \*\*MODELOPTS: 11/25/99  
 CONC 10:34:35  
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\*\*\* THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): 1 2 3 4 5 6 7  
 8 9 10 11 12 13 14 15 16 17 18 19

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*  
 \*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*  
 Y-COORD (METERS) 843195.00 X-COORD (METERS) 843245.00

815515.0	0.17139	(92080124)	0.13110	(92070224)						
815455.0	0.17969	(92080124)	0.14228	(92070224)						
815395.0	0.18448	(92080124)	0.15637	(92070224)						
815335.0	0.20378	(92070224)	0.17477	(92070224)						
815275.0	0.23237	(92070224)	0.20285	(92071524)						
815215.0	0.27030	(92070224)	0.26537	(92071524)						
815155.0	0.30677	(92070224)	0.35220	(92071524)						
815095.0	0.43071	(92071524)	0.48428	(92071524)						
815035.0	0.67456	(92071524)	0.63487	(92071524)						
814975.0	1.03431	(92071524)	0.79143	(92071524)						
814915.0	1.04999	(92071524)	0.78180	(92040124)						
814855.0	0.87281	(92080424)	0.72528b	(92091524)						
814795.0	0.99162	(92090424)	0.72673b	(92091524)						
814735.0	0.69625	(92082024)	0.46208m	(92041924)						
814675.0	0.56807m	(92030624)	0.47523	(92082024)						
814615.0	0.40930m	(92030624)	0.42455m	(92030624)						
814555.0	0.30832	(92101324)	0.33910m	(92030624)						
814495.0	0.25464	(92101324)	0.25219	(92101324)						
814435.0	0.19567	(92101324)	0.22981	(92101324)						
814375.0	0.15263	(92081624)	0.19187	(92101324)						

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*  
 \*\*MODELOPTS: 11/25/99  
 CONC 10:34:35  
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\*\*\* THE SUMMARY OF HIGHEST 1-HR RESULTS \*\*\*  
 \*\* CONC OF RSP IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	29.70031 ON 92011021: AT (	843095.00, 814795.00, 0.00, 15.00)	GC	CART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GF = GRIDPOLR  
 DC = DISCCART  
 DF = DISCPOLR  
 BD = BOUNDARY

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*  
 \*\*MODELOPTS: 11/25/99  
 CONC 10:34:35  
 PAGE 23

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

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	5.84847 ON 92102624: AT (	843095.00, 814795.00, 0.00, 15.00)	GC	CART1

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GF = GRIDPOLR  
 DC = DISCCART  
 DF = DISCPOLR  
 BD = BOUNDARY

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (RSP) FIRST BUS PERMANENT DEPOT \*\*\*  
 \*\*MODELOPTS: 11/25/99  
 CONC 10:34:35  
 PAGE 24

\*\*\* Message Summary : ISCST3 Model Execution \*\*\*  
 ----- Summary of Total Messages -----  
 A Total of 0 Fatal Error Message(s)

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: RSP

A Total of 0 Warning Message(s)  
A Total of 289 Informational Message(s)  
A Total of 27 Calm Hours Identified  
A Total of 262 Missing Hours Identified

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

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

.....  
\*\*\* ISCST3 Finishes Successfully \*\*\*  
.....







A Typical ISCST Output File at 15m above Ground Level  
Pollutant: SO<sub>2</sub>

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RE GRIDCART CART1 FLAG 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 16 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 17 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 18 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 19 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 FLAG 20 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15
RE GRIDCART CART1 END

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RE FINISHED
ME STARTING
ME INPUFFIL F:\WHA\DATA_CHM\METLIB\RT92.MET FREE
ME ANEMHGT 10.000 METERS
ME SURFDATA 99999 1992
ME UAIRDATA 99999 1992
ME STARTEND 1992 1 1 1 1992 12 31 24
ME WDRotate 180.00
ME WINDGTS 1.54 3.09 5.14 8.23 10.80
ME FINISHED
OU STARTING
OU SECTABLE 1 FIRST
OU MAXIFILE 1 ALL 800.00 F:\wha\data_chm\21270\21270-3\SO-3\SOC3.MAX 50
OU POSTFILE 1 ALL UNIFORM F:\wha\data_chm\21270\21270-3\SO-3\SOC3.HRL 60
OU FINISHED

```

```

*** SETUP Finishes Successfully ***

```

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1 *** ISCS3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** 10:49:57
** MODELOPTS:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 1

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\*\*\* MODEL SETUP OPTIONS SUMMARY \*\*\*

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-- Intermediate Terrain Processing is Selected
-- Model Is Setup For Calculation of Average CONCentration Values.
-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations
**Model Uses URBAN Dispersion.
**Model Uses User-Specified Options:
1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
**Model Assumes Receptors on FLAT Terrain.
**Model Accepts FLAGPOLE Receptor Heights.
**Model Calculates 1 Short Term Average(s) of: 1-HR
**This Run Includes: 24 Source(s); 1 Source Group(s); and 340 Receptor(s)
**The Model Assumes A Pollutant Type of: SO2
**Model Set To Continue RUNNING After the Setup Testing.
**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of Threshold Violations (MAXIFILE Keyword)
Model Outputs External File(s) of Concurrent Values for Postprocessing (POSTFILE Keyword)
**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours
**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ; Rot. Angle = 180.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor * 0.10000E+07
Output Units = MICROGRAMS/M**3
**Approximate Storage Requirements of Model = 1.2 MB of RAM.

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**Input Runstream File: F:\WHA\DATA_CHM\21270\21270-3\SO-3\SOC3.DAT
**Output Print File: F:\WHA\DATA_CHM\21270\21270-3\SO-3\SOC3.LST
**Detailed Error/Message File: F:\wha\data_chm\21270\21270-3\SO-3\SOC3.ERR
1 *** ISCS3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** 10:49:57
** MODELOPTS:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 2

```

\*\*\* POINT SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (USER UNITS)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
1	0	0.14000E-02	843021.0	814886.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
2	0	0.10500E-02	843021.0	814886.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
3	0	0.69000E-03	843021.0	814886.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
4	0	0.53300E-03	843021.0	814886.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
5	0	0.37600E-03	843021.0	814886.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
6	0	0.57400E-03	843021.0	814886.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
7	0	0.14000E-02	843104.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
8	0	0.10500E-02	843104.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
9	0	0.69000E-03	843104.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
10	0	0.53300E-03	843104.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
11	0	0.37600E-03	843104.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
12	0	0.57400E-03	843104.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
13	0	0.14000E-02	843031.0	814803.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY

A Typical ISCST Output File at 15m above Ground Level  
Pollutant: SO<sub>2</sub>

14	0	0.10500E-02	843031.0	814803.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
15	0	0.69000E-03	843031.0	814803.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
16	0	0.53300E-03	843031.0	814803.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
17	0	0.37600E-03	843031.0	814803.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
18	0	0.57400E-03	843031.0	814803.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY
19	0	0.14000E-02	843103.0	814889.0	0.0	8.00	298.00	4.60	1.50	NO	HROFDY
20	0	0.10500E-02	843103.0	814889.0	0.0	17.00	298.00	4.60	1.50	NO	HROFDY
21	0	0.69000E-03	843103.0	814889.0	0.0	25.00	298.00	4.60	1.50	NO	HROFDY
22	0	0.53300E-03	843103.0	814889.0	0.0	34.00	298.00	4.60	1.50	NO	HROFDY
23	0	0.37600E-03	843103.0	814889.0	0.0	42.00	298.00	4.60	1.50	NO	HROFDY
24	0	0.57400E-03	843103.0	814889.0	0.0	43.30	298.00	4.60	1.50	NO	HROFDY

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
 \*\*MODELOPTS: PAGE 3  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID	SOURCE IDs																							
ALL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
 \*\*MODELOPTS: PAGE 4  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

SOURCE ID = 1 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 2 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 3 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 4 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 5 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
 \*\*MODELOPTS: PAGE 5  
 CONC URBAN FLAT FLGPOL GRDRIS MSGPRO

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR	HOURL	SCALAR
-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------

SOURCE ID = 6 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 7 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 8 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 9 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E+01

SOURCE ID = 10 ; SOURCE TYPE = POINT :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E+01
---	------------	---	------------	---	------------	---	------------	---	------------	---	------------



A Typical ISCST Output File at 15m above Ground Level  
Pollutant: SO<sub>2</sub>

SOURCE ID = 22 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 23 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

SOURCE ID = 24 ; SOURCE TYPE = POINT :  
 1 .10000E+01 2 .10000E+01 3 .10000E+01 4 .10000E+01 5 .10000E+01 6 .10000E+01  
 7 .10000E+01 8 .10000E+01 9 .10000E+01 10 .10000E+01 11 .10000E+01 12 .10000E+01  
 13 .10000E+01 14 .10000E+01 15 .10000E+01 16 .10000E+01 17 .10000E+01 18 .10000E+01  
 19 .10000E+01 20 .10000E+01 21 .10000E+01 22 .10000E+01 23 .10000E+01 24 .10000E+01

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
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 CONC

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

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

#42445.0, #42495.0, #42545.0, #42595.0, #42645.0, #42695.0, #42745.0, #42795.0, #42845.0, #42895.0,  
 #42945.0, #42995.0, #43045.0, #43095.0, #43145.0, #43195.0, #43245.0,

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

#14375.0, #14435.0, #14495.0, #14555.0, #14615.0, #14675.0, #14735.0, #14795.0, #14855.0, #14915.0,  
 #14975.0, #15035.0, #15095.0, #15155.0, #15215.0, #15275.0, #15335.0, #15395.0, #15455.0, #15515.0,

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
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 CONC

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842445.00	842495.00	842545.00	842595.00	842645.00	842695.00	842745.00	842795.00	842845.00
#15515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
 \*\*MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 11  
 CONC

\*\*\* NETWORK ID: CART1 ; NETWORK TYPE: GRIDCART \*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	842895.00	842945.00	842995.00	843045.00	843095.00	843145.00	843195.00	843245.00
#15515.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15455.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15395.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15335.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15275.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15215.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15155.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15095.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#15035.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14975.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14915.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14855.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14795.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14735.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14675.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14615.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14555.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14495.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14435.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
#14375.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

1 \*\*\* ISCST3 - VERSION 99155 \*\*\* \*\* 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT \*\*\* 11/25/99  
 \*\*\* 10:49:57  
 \*\*MODELOPTS: URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 12  
 CONC





A Typical ISCST Output File at 15m above Ground Level  
Pollutant: SO<sub>2</sub>

```

815515.0 | 1.27225 (92042824) 0.96315 (92042824)
815455.0 | 1.33398 (92042824) 1.18890 (92072104)
815395.0 | 1.36695 (92042824) 1.40657 (92072104)
815335.0 | 1.36240 (92042824) 1.57105 (92072104)
815275.0 | 1.54455 (92072104) 1.63446 (92072104)
815215.0 | 1.76027 (92072104) 1.55619 (92053017)
815155.0 | 1.95771 (92072104) 1.92988 (92053017)
815095.0 | 1.93891 (92072104) 1.85809 (92053017)
815035.0 | 2.45125 (92053017) 2.12828 (92061806)
814975.0 | 2.71363 (92071502) 2.31392 (92042724)
814915.0 | 3.48388 (92051806) 2.92659 (92051806)
814855.0 | 3.29711 (92041920) 2.66261 (92091504)
814795.0 | 3.78306 (92071506) 2.81901 (92071506)
814735.0 | 3.30691 (92050723) 2.29000 (92051719)
814675.0 | 2.44804 (92050722) 2.38147 (92050723)
814615.0 | 2.06830 (92061002) 2.13950 (92050722)
814555.0 | 1.92945 (92070823) 1.96896 (92061002)
814495.0 | 1.82904 (92070823) 1.76843 (92061002)
814435.0 | 1.67977 (92070823) 1.60258 (92070823)
814375.0 | 1.41607 (92070823) 1.61770 (92070823)

```

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1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** 10:49:57
**MODELOPTs:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 18

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

\*\* CONC OF SO2 IN MICROGRAMS/M\*\*3 \*\*

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 24.45898	ON 92011021	AT ( 843095.00, 814795.00, 0.00, 15.00)	GC	CART1

```

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

```

```

1 *** ISCST3 - VERSION 99155 *** *** 21270 - DEPOT EMISSION (SO2) FIRST BUS PERMANENT DEPOT *** 11/25/99
*** 10:49:57
**MODELOPTs:
CONC URBAN FLAT FLGPOL GRDRIS MSGPRO PAGE 19

```

\*\*\* Message Summary : ISCST3 Model Execution \*\*\*

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

```

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 289 Informational Message(s)
A Total of 27 Calm Hours Identified
A Total of 262 Missing Hours Identified

```

```

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

```

```

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

```

```

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

```