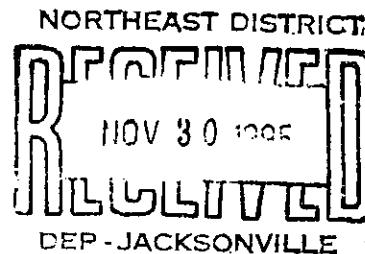


WSA, Inc.

November 28, 1995

Christopher L. Kirts, P.E.
Department of Environmental Protection
7825 Baymeadows Way, Suite 200
Jacksonville, FL 32256-7590



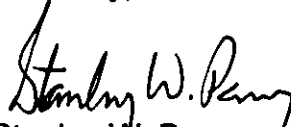
Re: Permits PSD-FL-083 (0470002-030-AC) and PSD-FL-082
(0470005-010-AC)

Dear Mr. Kirts:

The above-referenced permits were recently transferred to White Springs Agricultural Chemicals, Inc. (WSA). At the time of the transfer request, WSA was identified as a wholly-owned subsidiary of Occidental Chemical Corporation. As of October 31, 1995, all the stock of WSA has been sold to Phosphate Holding Company, Inc., a subsidiary of Potash Corporation of Saskatchewan, Inc. The named permittee will continue to be WSA, doing business as PCS Phosphate-White Springs.

Please let us know if there are any further actions required of us.

Sincerely,


Stanley W. Posey
Environmental Counsel

psb





OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

December 10, 1987

DER

DEC 23 1987

BAQM

CERTIFIED MAIL

Mr. Stephen Smallwood
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399

Re: Occidental Chemical Agricultural Products, Inc.- Permit/
Permit Application Transfers to Occidental Chemical Corporation

Dear Mr. Smallwood:

By our correspondence of November 18, 1987, we provided you advance notification of the upcoming merger of Occidental Chemical Agricultural Products, Inc. into Occidental Chemical Corporation. The effective date of the merger will be December 23, 1987. Accordingly, we would appreciate the department's transfer of the permit/permit applications listed on the enclosed DER Form 17-1.201(1) to the name Occidental Chemical Corporation, as applicant or permittee, effective December 23, 1987.

I would appreciate your directing all correspondence to Occidental's Director of Environmental, Health and Safety at the address listed below.

Mr. R. Eugene McNeill
Occidental Chemical Agricultural Products, Inc.
P. O. Box 300
White Springs, FL 32096

Thank you for your cooperation and assistance.

Sincerely yours,

W. Marvin Miller
Environmental Coordinator

WMM/rdw

Enclosures

cc: Mr. Ernest E. Frey
Lawrence E. Sellers, Esquire

Copied. CWF:BT
Pickup Paul } 11-4-88
Jan Rogie }

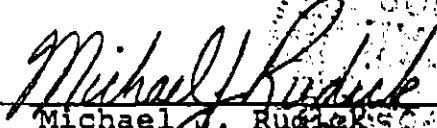
OCCIDENTAL CHEMICAL CORPORATION

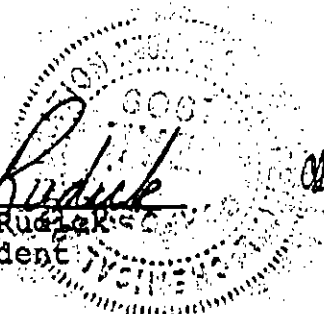
Certificate of Authority

TO WHOM IT MAY CONCERN:

W. M. Miller, Environmental Coordinator, Occidental Chemical Corporation, Agricultural Products Group, is Occidental Chemical Corporation's authorized agent for execution and filing of DER Forms 17-1.201(1), whereby Occidental Chemical Corporation assumes the rights and liabilities as transferee under permits and applications issued and filed in the names of Occidental Chemical Agricultural Products, Inc., Occidental Chemical Company, Jacksonville Bulk Terminal, and Jacksonville Bulk Terminal, Inc.

DATED: December 18, 1987


Michael J. Rudjak
Vice President



FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION - TALLAHASSEE

<u>SOURCE NAME</u>	<u>PERMIT NO.</u>	<u>ISSUED TO</u>	<u>DATE ISSUED</u>	<u>EXP.</u>
"C" Sulfuric	AC24-131271	OCAPI	87/09/30	88/07/01
"D" Sulfuric	AC24-131270	OCAPI	87/09/30	88/07/01



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
APPLICATION FOR TRANSFER OF PERMIT

APPLICATION OR
Permit No. SEE ATTACHED Date Issued SEE ATTACHED Date Expires SEE ATTACHED

NOTIFICATION OF SALE OR LEGAL TRANSFER

Source Name: SEE ATTACHED County: HAMILTON
Source Location: EAST OF US 41, NORTH OF WHITE SPRINGS, FL City: N.A.
Permittee Name: SEE ATTACHED Title: _____
Mailing Address: P. O. BOX 300, WHITE SPRINGS, FL 32096

The undersigned hereby notifies the department of the sale or legal transfer of this pollution source. He further agrees to assign his rights as permittee to the applicant in the event the department agrees to the transfer of permit.

Sworn to and subscribed before me at Hamilton HUDSON C. SMITH Hudson C. Smith
County, White Springs, Florida GENERAL MANAGER Signature of Permittee
this 18th day of December 19 87 Title
[Signature] Date: DECEMBER 18, 1987
Notary Public

My Commission Expires: NOTARY PUBLIC, STATE OF FLORIDA
My commission expires Apr. 5, 1987

REQUEST FOR TRANSFER OF PERMIT

Source Name: SEE ATTACHED
Applicant Name: OCCIDENTAL CHEMICAL CORPORATION Title: ENVIRONMENTAL COORDINATOR
Mailing Address: P. O. BOX 300, WHITE SPRINGS, FL 32096
Telephone: (904) 397-8269
area
Project Engineer: Name: N. A.
Mailing Address: _____
Telephone: ()
area

The undersigned hereby notifies the department of his having acquired title to this pollution source. He further states that he has examined the application and documents submitted by the current permittee the basis on which Permit No. _____ was issued by the department, and states that they accurately and completely describe the permitted activity or project. He further states that he is familiar with the permit, agrees to comply with its terms and conditions, and agrees to assume the rights and liabilities contained therein. He also agrees to promptly notify the department of any future change in ownership of, or responsibility for, the permitted activity or project.

Sworn to and subscribed before me at Hamilton W. M. MILLER W. M. Miller
County, White Springs, Florida ENVIRONMENTAL COORDINATOR Signature of Applicant
this 18th day of December 19 87 Title
[Signature] Date: DECEMBER 18, 1987
Notary Public

My Commission Expires: NOTARY PUBLIC, STATE OF FLORIDA
My commission expires Apr. 5, 1989

*Attach _____ authorization if other than owner or corporate officer.



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

November 18, 1987

DER

NOV 23 1987

BAQM

CERTIFIED MAIL

Mr. Stephen Smallwood
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399

Re: Occidental Chemical Agricultural Products, Inc.
Permit Nos. AC24-131271 and AC24-131270

Dear Mr. Smallwood:

As you are aware, Occidental Chemical Agricultural Products, Inc. is a permittee under the above referenced permits. We now anticipate that the permittee, Occidental Chemical Agricultural Products, Inc., will be merged into its parent company, Occidental Chemical Corporation, in December 1987 and will, therefore, no longer exist as a legal entity. Occidental Chemical Corporation will continue the operation of the facilities under the referenced permits and there are no other changes that would affect the facilities' operations contemplated as a result of the proposed merger.

The purpose of this letter is to provide advance notification of the proposed merger pursuant to Section 17-4.120 FAC. We will provide you the exact date for completion of the transfer as soon as it has been established, so that you can transfer the permits to Occidental Chemical Corporation and confirm that there are no other filing requirements.

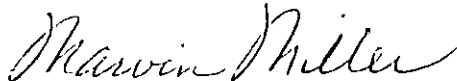
I would appreciate your directing all correspondence to Occidental's Director of Environmental, Health and Safety at the address listed below.

Mr. R. Eugene McNeill
Occidental Chemical Agricultural Products, Inc.
P. O. Box 300
White Springs, FL 32096

Page 2
November 18, 1987

Thank you for your cooperation and assistance.

Sincerely yours,

A handwritten signature in cursive script that reads "W. Marvin Miller". The signature is written in dark ink and is positioned above the typed name.

W. Marvin Miller
Environmental Coordinator

WMM/rdw

cc: Lawrence E. Sellers, Esquire
Mr. Ernest E. Frey



SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 102-75-06

March 6, 1985

Mr. C.H. Fancy
Deputy Chief
Bureau of Air Quality Management
Florida Department of
Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

DER
MAR 7 1985
BAQM

Subj: Occidental Chemical Agricultural Products, Inc.
Revision to Boiler Permits: AC24-56212 (Boiler B)
AC24-56213 (Boiler D)
AC24-56214 (Boiler C)

Dear Mr. Fancy:

On January 29, 1985, Wes Atwood and I spoke with Bill Thomas and Teresa Heron regarding your letter of December 13, 1984 addressing the subject revisions to boiler operating conditions at the Occidental Suwannee Chemical Complex in Hamilton County, Florida.

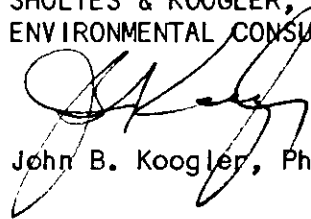
We addressed the questions raised in your letter and confirmed that the three boilers for which we are requesting revised operating conditions (see SKEC letter to Bill Thomas dated October 19, 1984) are existing boilers that have never been replaced. We explained that the discrepancy between boiler nameplate capacity and the permitted operating capacity of the boilers resulted from the fact that Occidental installed boilers that differed from the boilers anticipated at the time the original construction permits were applied for. This discrepancy was only recently noted and the purpose for the requested revisions in permitted operating conditions is to rectify this situation. As pointed out in my letter of October 19, 1984, there will be no increase in air pollutant emission rates as a result of the requested revisions and air quality modeling, addressed in subsequent paragraphs, demonstrates that the boilers operating under the requested revised operating conditions will have a lesser air quality impact than the boilers operating under the presently permitted operating conditions.

To demonstrate that the requested revisions in boiler operating conditions would not result in increased ground-level pollutant concentrations of sulfur dioxide, air quality modeling was conducted with the ISC-ST model utilizing meteorological data from Valdosta representing the period 1972 - 1976. The only sources included in the model runs were the three affected boilers. The emission rates of the boilers under permitted operating conditions were input as negative emissions while the emission rates of the boilers operating under the proposed revised conditions were input as positive emission rates. The output of air quality modeling which is attached hereto demonstrates that while operating under the revised operating conditions the boilers will have a lesser impact on ambient air quality than when operating under presently permitted conditions.

If there are any further questions regarding our requested revisions to the boiler operating conditions, or any questions regarding the air quality modeling attached hereto, please do not hesitate to contact me.

Very truly yours,

SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:net
cc: Mr. Wes Atwood (w/o attachments)

TABLE 1

SUMMARY OF PERMITTED AND PROPOSED OPERATING CONDITIONS FOR BOILERS B, C AND D

OCCIDENTAL CHEMICAL AGRICULTURAL PRODUCTS, INC.
 SUWANNEE RIVER CHEMICAL COMPLEX
 HAMILTON COUNTY, FLORIDA

Boiler	Permit	Heat Input (million BTU/hr)			Steam Production (lb/hr)			Air Pollutant Emissions (tons per year)					
		Design	Permit	Proposed	Design	Permit	Proposed	Sulfur Dioxide		Part. Matter		NOx	
								Permitted	Proposed	Permitted	Proposed	Permitted	Proposed
D	AC24-56213	182.5	120.0	155.0	135,000	100,000	125,500	564.0	730.8	47.0	60.5	215.0	278.0
C	AC24-56214	182.5	120.0	155.0	135,000	100,000	125,500	563.9	730.8	46.7	60.5	215.5	278.0
B	AC24-56212	106.9	160.0	90.0	80,000	125,000	74,000	765.8	432.1	62.3	35.0	287.2	161.7
TOTAL		471.9	400.0	400.0	350,000	325,000	325,000	1893.7	1893.7	156.0	156.0	717.7	717.7

*** DAY - BOILED HEAT RATE REDISTRIBUTION (VAL0051A 1972) ***

```

CALCULATE (CONCENTRATION=1,DEPOSITION=2)
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)
ISW(1) = 1
ISW(2) = 4
ISW(3) = 1
ISW(4) = 0
ISW(5) = 0
ISW(6) = 1

COMPUTE AVERAGE CONCENTRATION (OF TOTAL DEPOSITION)
WITH THE FOLLOWING TIME PERIODS:
HOURLY (YES=1,NO=0)
2-HOUR (YES=1,NO=0)
3-HOUR (YES=1,NO=0)
4-HOUR (YES=1,NO=0)
6-HOUR (YES=1,NO=0)
8-HOUR (YES=1,NO=0)
12-HOUR (YES=1,NO=0)
24-HOUR (YES=1,NO=0)
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)
ISW(7) = 0
ISW(8) = 0
ISW(9) = 1
ISW(10) = 0
ISW(11) = 0
ISW(12) = 0
ISW(13) = 0
ISW(14) = 1
ISW(15) = 1

PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE
SPECIFIED BY ISW(7) THROUGH ISW(14):
DAILY TABLES (YES=1,NO=0)
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)
MAXIMUM 50 TABLES (YES=1,NO=0)
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)
ISW(16) = 0
ISW(17) = 1
ISW(18) = 1
ISW(19) = 1
ISW(20) = 0
ISW(21) = 1
ISW(22) = 1
ISW(23) = 0
ISW(24) = 1
ISW(25) = 1

NUMBER OF INPUT SOURCES
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)
NUMBER OF X (RANGE) GRID VALUES
NUMBER OF Y (THETA) GRID VALUES
NUMBER OF DISCRETE RECEPTORS
SOURCE EMISSION RATE UNITS CONVERSION FACTOR
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION
SURFACE STATION NO.
YEAR OF SURFACE DATA
UPPER AIR STATION NO.
YEAR OF UPPER AIR DATA
ALLOCATED DATA STORAGE
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN
NSOURC = 4
NGROUP = 5
IPEPD = 0
NXPPTS = 5
NYPPTS = 36
NXWYPT = 0
TK = .10000E+07
BETA1 = 0.600
BETA2 = 0.600
ZR = 10.00 METERS
IMET = 9
DECAY = 0.000000E+00
ISS = 93845
ISY = 72
ICS = 13861
IUY = 72
LIMIT = 43500 WORDS
MIMIT = 13171 WORDS

```


*** PXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1972) ***

*** 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

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

500.0, 1000.0, 2000.0, 4000.0, 6500.0,

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***
(DEGREES)

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

*** DAY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1972) ***

*** SOURCE DATA ***

SOURCE NUMBER	Y 4	PART. CATS.	EMISSION RATE TYPE=0.1 (GRAMS/SEC) TYPE=2 *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP.	EXIT VEL.	BLDG. HEIGHT (METERS)	BLDG. LENGTH (METERS)	BLDG. WIDTH (METERS)	
								TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 DIAMETER TYPE=0 (METERS)				
1	0	0	-0.22030E+02	0.0	0.0	0.0	10.70	468.00	9.50	1.46	0.00	0.00	0.00
2	0	0	0.12380E+02	0.0	0.0	0.0	10.70	468.00	10.16	1.46	0.00	0.00	0.00
3	0	0	-0.33050E+02	0.0	0.0	0.0	31.70	468.00	15.20	1.98	0.00	0.00	0.00
4	0	0	0.42490E+02	0.0	0.0	0.0	31.70	468.00	15.02	1.98	0.00	0.00	0.00

Source	Boiler
1	"B" as permitted
2	"B" as proposed
3	"C & D" as permitted
4	"C & D" as proposed

*** EXY - BOILER HEAT RATE REDISTRIBUTION (VALCOSTA 1972) ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -4,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (2000.0, 40.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	4000.0	5500.0
360.0 /	-1.14674	-1.43475	-0.97077	-0.06857	-0.04552
350.0 /	-0.79077	-0.93815	-0.75409	-0.07780	-0.05182
340.0 /	-0.61746	-0.70415	-0.50588	-0.03725	-0.02459
330.0 /	-0.52448	-0.57499	-0.45582	-0.03920	-0.02577
320.0 /	-0.64057	-0.73889	-0.57355	-0.04436	-0.02927
310.0 /	-0.58587	-0.63110	-0.73623	-0.10702	-0.07134
300.0 /	-1.29424	-1.41659	-0.98106	-0.05299	-0.03437
290.0 /	-1.20280	-1.24281	-0.86117	-0.05109	-0.03350
280.0 /	-1.27031	-1.37942	-0.93553	-0.04533	-0.02981
270.0 /	-1.33153	-1.42544	-1.15789	-0.04566	-0.02992
260.0 /	-1.37619	-1.52914	-1.12416	-0.04824	-0.03222
250.0 /	-1.63165	-2.08027	-1.47506	-0.05246	-0.03386
240.0 /	-1.78009	-2.15010	-1.44928	-0.05027	-0.03261
230.0 /	-1.52796	-1.82019	-1.19047	-0.03724	-0.02426
220.0 /	-1.38231	-1.70887	-1.18496	-0.04362	-0.02835
210.0 /	-1.33123	-1.61962	-1.07630	-0.05433	-0.03634
200.0 /	-1.26516	-1.29570	-0.81514	-0.03393	-0.02207
190.0 /	-1.37675	-1.51080	-0.94009	-0.04528	-0.02945
180.0 /	-1.71297	-1.85958	-1.13643	-0.05876	-0.03856
170.0 /	-1.58782	-1.62801	-0.95729	-0.02145	-0.01342
160.0 /	-1.27858	-1.23217	-0.70813	-0.03229	-0.02112
150.0 /	-1.08635	-0.98421	-0.60935	-0.02029	-0.01302
140.0 /	-1.14651	-1.08034	-0.83118	-0.03925	-0.02579
130.0 /	-1.26326	-1.22641	-0.77305	-0.05478	-0.03642
120.0 /	-1.52142	-1.36732	-0.77977	-0.03978	-0.02616
110.0 /	-1.35977	-1.23202	-0.70853	-0.04743	-0.03147
100.0 /	-1.17139	-1.02810	-0.54542	-0.02593	-0.01761
90.0 /	-1.14134	-1.05883	-0.60143	-0.02987	-0.01923
80.0 /	-1.26844	-1.10287	-0.57876	-0.02333	-0.01848
70.0 /	-1.62309	-1.45851	-0.82248	-0.02497	-0.01980
60.0 /	-1.75015	-1.69497	-1.05450	-0.05212	-0.03401
50.0 /	-1.58362	-1.84024	-1.03120	-0.07612	-0.05074
40.0 /	-2.26603	-2.31503	-1.80696	-0.09173	-0.05015
30.0 /	-1.72963	-2.06722	-1.50792	-0.07470	-0.04855
20.0 /	-1.31464	-1.65411	-1.10509	-0.02684	-0.01697
10.0 /	-1.11457	-1.46232	-1.04318	-0.07482	-0.04920

*** 011 - BOILER HEAT RATE REDISTRIBUTION (VALCOSTA 1972) ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, -4.
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREE) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
350.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
340.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
330.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
320.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
310.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
300.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
290.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
280.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
270.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
260.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
250.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
240.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
230.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
220.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
210.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
200.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
190.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
180.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
170.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
160.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
150.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
140.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
130.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
120.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
110.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
100.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
90.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
80.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
70.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
60.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
50.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
40.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
30.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
20.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
10.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)

*** GXY - BOILER HEAT RATE REDISTRIBUTION (VALPOSTA 1972) ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, -4, *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** DXY - POILER HEAT RATE REDISTRIBUTION (VALDOSTA 1972) ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -4.

RANK	CON.	PER.	DAY	X Y (METERS)		RANK	CON.	PER.	DAY	X Y (METERS)	
				RANGE	DIRECTION					RANGE	DIRECTION
1	0.00000	1	1	55000.0	100.0	26	0.00000	1	1	55000.0	50.0
2	0.00000	1	1	40000.0	100.0	27	0.00000	1	1	40000.0	50.0
3	0.00000	1	1	2000.0	100.0	28	0.00000	1	1	2000.0	50.0
4	0.00000	1	1	1000.0	100.0	29	0.00000	1	1	1000.0	50.0
5	0.00000	1	1	500.0	100.0	30	0.00000	1	1	500.0	50.0
6	0.00000	1	1	55000.0	90.0	31	0.00000	1	1	55000.0	40.0
7	0.00000	1	1	40000.0	90.0	32	0.00000	1	1	40000.0	40.0
8	0.00000	1	1	2000.0	90.0	33	0.00000	1	1	2000.0	40.0
9	0.00000	1	1	1000.0	90.0	34	0.00000	1	1	1000.0	40.0
10	0.00000	1	1	500.0	90.0	35	0.00000	1	1	500.0	40.0
11	0.00000	1	1	55000.0	80.0	36	0.00000	1	1	55000.0	30.0
12	0.00000	1	1	40000.0	80.0	37	0.00000	1	1	40000.0	30.0
13	0.00000	1	1	2000.0	80.0	38	0.00000	1	1	2000.0	30.0
14	0.00000	1	1	1000.0	80.0	39	0.00000	1	1	1000.0	30.0
15	0.00000	1	1	500.0	80.0	40	0.00000	1	1	500.0	30.0
16	0.00000	1	1	55000.0	70.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	40000.0	70.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	2000.0	70.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	1000.0	70.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	500.0	70.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	55000.0	60.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	40000.0	60.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	2000.0	60.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	1000.0	60.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	500.0	60.0	50	0.00000	1	1	500.0	10.0

*** COX - BOILER HEAT RATE REDISTRIBUTION (VALCOSTA 1972) ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM SOURCES: 1, -4,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
350.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
340.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
330.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
320.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
310.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
300.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
290.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
280.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
270.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
260.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
250.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
240.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
230.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
220.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
210.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
200.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
190.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
180.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
170.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
160.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
150.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
140.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
130.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
120.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
110.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
100.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
90.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
80.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
70.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
60.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
50.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
40.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
30.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
20.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)
10.0 /	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)	0.00000 (0, 0)

*** DAY - BOILER HEAT RATE REDISTRIBUTION (VALDESTA 1972) ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
 * FROM SOURCES: 1, -4,
 * FOR THE RECEPTOR GRID *
 * MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** SXY - BOILER HEAT RATE REDISTRIBUTION (VALBOSTA 1972) ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -4,

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	55000.0	120.0	26	0.00000	1	1	55000.0	70.0
2	0.00000	1	1	40000.0	120.0	27	0.00000	1	1	40000.0	70.0
3	0.00000	1	1	2000.0	120.0	28	0.00000	1	1	2000.0	70.0
4	0.00000	1	1	1000.0	120.0	29	0.00000	1	1	1000.0	70.0
5	0.00000	1	1	500.0	120.0	30	0.00000	1	1	500.0	70.0
6	0.00000	1	1	55000.0	110.0	31	0.00000	1	1	55000.0	60.0
7	0.00000	1	1	40000.0	110.0	32	0.00000	1	1	40000.0	60.0
8	0.00000	1	1	2000.0	110.0	33	0.00000	1	1	2000.0	60.0
9	0.00000	1	1	1000.0	110.0	34	0.00000	1	1	1000.0	60.0
10	0.00000	1	1	500.0	110.0	35	0.00000	1	1	500.0	60.0
11	0.00000	1	1	55000.0	100.0	36	0.00000	1	1	55000.0	50.0
12	0.00000	1	1	40000.0	100.0	37	0.00000	1	1	40000.0	50.0
13	0.00000	1	1	2000.0	100.0	38	0.00000	1	1	2000.0	50.0
14	0.00000	1	1	1000.0	100.0	39	0.00000	1	1	1000.0	50.0
15	0.00000	1	1	500.0	100.0	40	0.00000	1	1	500.0	50.0
16	0.00000	1	1	55000.0	90.0	41	0.00000	1	1	55000.0	40.0
17	0.00000	1	1	40000.0	90.0	42	0.00000	1	1	40000.0	40.0
18	0.00000	1	1	2000.0	90.0	43	0.00000	1	1	2000.0	40.0
19	0.00000	1	1	1000.0	90.0	44	0.00000	1	1	1000.0	40.0
20	0.00000	1	1	500.0	90.0	45	0.00000	1	1	500.0	40.0
21	0.00000	1	1	55000.0	80.0	46	0.00000	1	1	55000.0	30.0
22	0.00000	1	1	40000.0	80.0	47	0.00000	1	1	40000.0	30.0
23	0.00000	1	1	2000.0	80.0	48	0.00000	1	1	2000.0	30.0
24	0.00000	1	1	1000.0	80.0	49	0.00000	1	1	1000.0	30.0
25	0.00000	1	1	500.0	80.0	50	0.00000	1	1	500.0	20.0

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

204 511 OR OVER

```

      BBBB88888888  CCCCCCCCCCCC  IIIIIIIIII  LL  EEEEEEEEEE  RRRRRRRRRR  777777777777  3333333333
      BBBB88888888  CCCCCCCCCCCC  IIIIIIIIII  LL  EEEEEEEEEE  RRRRRRRRRR  777777777777  3333333333
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
BB      BB      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC      CC
      CCCCCCCCCCCC  IIIIIIIIII  LLLLLLLLLLLL  EEEEEEEEEE  RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
      CCCCCCCCCCCC  IIIIIIIIII  LLLLLLLLLLLL  EEEEEEEEEE  RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
      CCCCCCCCCCCC  IIIIIIIIII  LLLLLLLLLLLL  EEEEEEEEEE  RR      RR      RR      RR      RR      RR      RR      RR      RR      RR

```

```

JJJJJJJJJJ  8888888888  11  8888888888  2222222222  AAAAAAAAAA
JJJJJJJJJJ  8888888888  111  8888888888  2222222222  AAAAAAAAAA
JJ      88      88  1111  88      88  22  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJ      88      88  11  88      88  22  22  22  AA      AA
JJJJJJJJ  8888888888  1111111111  8888888888  22222222222222  AA      AA
JJJJJJJJ  8888888888  1111111111  8888888888  22222222222222  AA      AA

```

```

*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*
*A START JOB 8182 BOILER73 1 001 001 NER OXY PERMITTING 80001046,002 5.40.45 PM 21FEB85 PRINTER1 NER1 START A*

```

```

*****
*
* N.E.F.D.C. NEWS: 2/11/85 11:55:56
*
* NERDC AND THE HARRIS EDUCATION CENTER WILL PRESENT A
* 5-DAY WORKSHOP ON VIRTUAL STORAGE ACCESS METHOD (VSAM) PRO-
* GRAMMING AT THE J. WAYNE REITZ UNION ON MARCH 25 - 29, 1985.
* 9:00 AM - 5:00 PM. NERDC MEMO 85036.1 CONTAINS A COURSE
* DESCRIPTION, OUTLINE, AND REGISTRATION FORM. (SPM)
*
*****

```

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALOOSTA 1973) ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (0.0, 0.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	4000.0	5500.0
360.0 /	-1.50237	-1.53392	-1.40798	-0.05921	-0.03859
350.0 /	-1.08750	-1.16266	-0.70452	-0.03492	-0.02246
340.0 /	-0.94097	-1.01779	-0.62909	-0.04184	-0.02753
330.0 /	-0.88950	-0.94166	-0.62026	-0.04655	-0.03031
320.0 /	-1.04109	-1.14256	-0.76970	-0.04320	-0.02845
310.0 /	-1.26192	-1.31291	-0.77828	-0.02620	-0.01672
300.0 /	-1.52764	-1.69402	-1.17443	-0.07114	-0.04693
290.0 /	-1.16566	-1.39939	-0.95345	-0.03889	-0.02559
280.0 /	-1.07597	-1.21848	-0.84543	-0.03826	-0.02523
270.0 /	-1.25516	-1.47051	-1.12352	-0.07705	-0.05084
260.0 /	-1.25403	-1.43723	-1.05645	-0.03522	-0.02288
250.0 /	-1.36585	-1.45644	-1.07253	-0.04231	-0.02737
240.0 /	-1.75602	-1.83605	-1.30632	-0.07548	-0.04959
230.0 /	-1.64172	-1.48315	-0.97091	-0.03508	-0.02244
220.0 /	-1.64205	-1.57041	-1.05153	-0.03709	-0.02386
210.0 /	-1.42600	-1.33551	-0.95254	-0.06448	-0.04338
200.0 /	-1.26980	-1.23958	-0.84228	-0.04891	-0.03192
190.0 /	-1.13628	-1.10082	-0.68808	-0.02839	-0.01880
180.0 /	-1.18709	-1.33791	-0.90237	-0.06668	-0.04419
170.0 /	-0.98103	-0.95434	-0.63451	-0.03956	-0.02005
160.0 /	-1.00901	-0.85206	-0.52189	-0.04286	-0.02826
150.0 /	-1.02174	-0.87862	-0.53464	-0.03600	-0.03701
140.0 /	-1.03445	-0.96877	-0.59819	-0.03317	-0.02183
130.0 /	-1.24951	-1.17361	-0.64782	-0.02252	-0.01436
120.0 /	-1.61086	-1.62239	-0.91754	-0.05110	-0.03373
110.0 /	-1.48075	-1.33054	-0.78090	-0.05146	-0.04091
100.0 /	-1.49554	-1.26557	-0.76985	-0.07452	-0.04993
90.0 /	-1.48129	-1.26327	-0.67884	-0.04356	-0.02879
80.0 /	-1.40374	-1.16863	-0.62478	-0.03557	-0.02360
70.0 /	-1.44360	-1.23532	-0.70077	-0.03984	-0.02567
60.0 /	-1.72226	-1.66777	-1.04651	-0.07786	-0.05145
50.0 /	-1.66823	-1.62406	-1.06903	-0.08625	-0.05706
40.0 /	-1.86479	-1.99460	-1.39603	-0.11462	-0.07620
30.0 /	-1.70126	-1.85824	-1.17670	-0.04916	-0.03207
20.0 /	-1.56396	-1.78400	-1.14482	-0.06142	-0.04052
10.0 /	-1.45230	-1.73105	-1.13341	-0.06143	-0.04014

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1973) ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 300.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1973) ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OF RANGE (METERS)	Y(METERS) OF DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OF RANGE (METERS)	Y(METERS) OF DIRECTION (DEGREES)
1	0.00000	1	1	55000.0	100.0	26	0.00000	1	1	55000.0	50.0
2	0.00000	1	1	40000.0	100.0	27	0.00000	1	1	40000.0	50.0
3	0.00000	1	1	2000.0	100.0	28	0.00000	1	1	2000.0	50.0
4	0.00000	1	1	1000.0	100.0	29	0.00000	1	1	1000.0	50.0
5	0.00000	1	1	500.0	100.0	30	0.00000	1	1	500.0	50.0
6	0.00000	1	1	55000.0	90.0	31	0.00000	1	1	55000.0	40.0
7	0.00000	1	1	40000.0	90.0	32	0.00000	1	1	40000.0	40.0
8	0.00000	1	1	2000.0	90.0	33	0.00000	1	1	2000.0	40.0
9	0.00000	1	1	1000.0	90.0	34	0.00000	1	1	1000.0	40.0
10	0.00000	1	1	500.0	90.0	35	0.00000	1	1	500.0	40.0
11	0.00000	1	1	55000.0	80.0	36	0.00000	1	1	55000.0	30.0
12	0.00000	1	1	40000.0	80.0	37	0.00000	1	1	40000.0	30.0
13	0.00000	1	1	2000.0	80.0	38	0.00000	1	1	2000.0	30.0
14	0.00000	1	1	1000.0	80.0	39	0.00000	1	1	1000.0	30.0
15	0.00000	1	1	500.0	80.0	40	0.00000	1	1	500.0	30.0
16	0.00000	1	1	55000.0	70.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	40000.0	70.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	2000.0	70.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	1000.0	70.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	500.0	70.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	55000.0	60.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	40000.0	60.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	2000.0	60.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	1000.0	60.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	500.0	60.0	50	0.00000	1	1	500.0	10.0

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1973) ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1973) ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	2	1000.0	70.0	26	0.00000	1	2	1000.0	20.0
2	0.00000	1	2	500.0	70.0	27	0.00000	1	2	500.0	20.0
3	0.00000	1	2	55000.0	60.0	28	0.00000	1	2	55000.0	10.0
4	0.00000	1	2	40000.0	60.0	29	0.00000	1	2	40000.0	10.0
5	0.00000	1	2	2000.0	60.0	30	0.00000	1	2	2000.0	10.0
6	0.00000	1	2	1000.0	60.0	31	0.00000	1	2	1000.0	10.0
7	0.00000	1	2	500.0	60.0	32	0.00000	1	2	500.0	10.0
8	0.00000	1	2	55000.0	50.0	33	0.00000	1	1	55000.0	170.0
9	0.00000	1	2	40000.0	50.0	34	0.00000	1	1	40000.0	170.0
10	0.00000	1	2	2000.0	50.0	35	0.00000	1	1	55000.0	160.0
11	0.00000	1	2	1000.0	50.0	36	0.00000	1	1	40000.0	160.0
12	0.00000	1	2	500.0	50.0	37	0.00000	1	1	2000.0	160.0
13	0.00000	1	2	55000.0	40.0	38	0.00000	1	1	1000.0	160.0
14	0.00000	1	2	40000.0	40.0	39	0.00000	1	1	500.0	160.0
15	0.00000	1	2	2000.0	40.0	40	0.00000	1	1	55000.0	150.0
16	0.00000	1	2	1000.0	40.0	41	0.00000	1	1	40000.0	150.0
17	0.00000	1	2	500.0	40.0	42	0.00000	1	1	2000.0	150.0
18	0.00000	1	2	55000.0	30.0	43	0.00000	1	1	1000.0	150.0
19	0.00000	1	2	40000.0	30.0	44	0.00000	1	1	500.0	150.0
20	0.00000	1	2	2000.0	30.0	45	0.00000	1	1	55000.0	140.0
21	0.00000	1	2	1000.0	30.0	46	0.00000	1	1	40000.0	140.0
22	0.00000	1	2	500.0	30.0	47	0.00000	1	1	2000.0	140.0
23	0.00000	1	2	55000.0	20.0	48	0.00000	1	1	1000.0	140.0
24	0.00000	1	2	40000.0	20.0	49	0.00000	1	1	55000.0	130.0
25	0.00000	1	2	2000.0	20.0	50	0.00000	1	1	40000.0	130.0

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

209 511 OF OVER

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1974) ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (0.0, 0.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	4000.0	5500.0
360.0 /	-1.45472	-1.87048	-1.31256	-0.06999	-0.04614
350.0 /	-1.17745	-1.17228	-0.70630	-0.04072	-0.02697
340.0 /	-1.10878	-0.58214	-0.57929	-0.04204	-0.02745
330.0 /	-0.99038	-0.87435	-0.56659	-0.05347	-0.03533
320.0 /	-1.04875	-0.87443	-0.63237	-0.06957	-0.04621
310.0 /	-1.18034	-0.98176	-0.58425	-0.05958	-0.03581
300.0 /	-1.15210	-1.04082	-0.71380	-0.09098	-0.06085
290.0 /	-0.91280	-0.87424	-0.61435	-0.02901	-0.01912
280.0 /	-1.01964	-1.22799	-0.91108	-0.05849	-0.03832
270.0 /	-1.19523	-1.35888	-0.90607	-0.04744	-0.03165
260.0 /	-1.16363	-1.26405	-0.90495	-0.07407	-0.04998
250.0 /	-1.36242	-1.43532	-0.98126	-0.05980	-0.03981
240.0 /	-1.71490	-1.84363	-1.27499	-0.08786	-0.05798
230.0 /	-1.61595	-1.69198	-1.12258	-0.03789	-0.02478
220.0 /	-1.50488	-1.51167	-1.00607	-0.07539	-0.04997
210.0 /	-1.25322	-1.15857	-0.71481	-0.04296	-0.02778
200.0 /	-1.09777	-1.08469	-0.77637	-0.05797	-0.03874
190.0 /	-1.15372	-1.08156	-0.68756	-0.04359	-0.02887
180.0 /	-1.19440	-1.18676	-0.70004	-0.05808	-0.03857
170.0 /	-1.02379	-0.98433	-0.57723	-0.06566	-0.04371
160.0 /	-0.98324	-1.01254	-0.64648	-0.05188	-0.04087
150.0 /	-1.14162	-1.02549	-0.63452	-0.06523	-0.04631
140.0 /	-1.31902	-1.24688	-0.77776	-0.06369	-0.04216
130.0 /	-1.44588	-1.32092	-0.74945	-0.03181	-0.02070
120.0 /	-1.53275	-1.40243	-0.87092	-0.05884	-0.03893
110.0 /	-1.44517	-1.20687	-0.67130	-0.03017	-0.01586
100.0 /	-1.36539	-1.15884	-0.64426	-0.03109	-0.02042
90.0 /	-1.35405	-1.21497	-0.67043	-0.04828	-0.03206
80.0 /	-1.22749	-1.14173	-0.69256	-0.04469	-0.02926
70.0 /	-1.24648	-1.14305	-0.81438	-0.05522	-0.03594
60.0 /	-1.74207	-1.65411	-1.08877	-0.08448	-0.05572
50.0 /	-1.75544	-1.84710	-1.22496	-0.10233	-0.06757
40.0 /	-1.72345	-2.16999	-1.58802	-0.10926	-0.07192
30.0 /	-1.37826	-1.69962	-1.16788	-0.09074	-0.06013
20.0 /	-1.42158	-1.83541	-1.34042	-0.07014	-0.04621
10.0 /	-1.41256	-1.79116	-1.11372	-0.04201	-0.02749

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALOOSTA 1974) ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1974) ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 350.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALCOSTA 1974) ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	2000.0	170.0	26	0.00000	1	1	2000.0	120.0
2	0.00000	1	1	1000.0	170.0	27	0.00000	1	1	1000.0	120.0
3	0.00000	1	1	500.0	170.0	28	0.00000	1	1	500.0	120.0
4	0.00000	1	1	55000.0	160.0	29	0.00000	1	1	55000.0	110.0
5	0.00000	1	1	40000.0	160.0	30	0.00000	1	1	40000.0	110.0
6	0.00000	1	1	2000.0	160.0	31	0.00000	1	1	2000.0	110.0
7	0.00000	1	1	1000.0	160.0	32	0.00000	1	1	1000.0	110.0
8	0.00000	1	1	500.0	160.0	33	0.00000	1	1	500.0	110.0
9	0.00000	1	1	55000.0	150.0	34	0.00000	1	1	55000.0	100.0
10	0.00000	1	1	40000.0	150.0	35	0.00000	1	1	40000.0	100.0
11	0.00000	1	1	2000.0	150.0	36	0.00000	1	1	2000.0	100.0
12	0.00000	1	1	1000.0	150.0	37	0.00000	1	1	1000.0	100.0
13	0.00000	1	1	500.0	150.0	38	0.00000	1	1	500.0	100.0
14	0.00000	1	1	55000.0	140.0	39	0.00000	1	1	55000.0	90.0
15	0.00000	1	1	40000.0	140.0	40	0.00000	1	1	40000.0	90.0
16	0.00000	1	1	2000.0	140.0	41	0.00000	1	1	2000.0	90.0
17	0.00000	1	1	1000.0	140.0	42	0.00000	1	1	1000.0	90.0
18	0.00000	1	1	500.0	140.0	43	0.00000	1	1	500.0	90.0
19	0.00000	1	1	55000.0	130.0	44	0.00000	1	1	55000.0	80.0
20	0.00000	1	1	40000.0	130.0	45	0.00000	1	1	40000.0	80.0
21	0.00000	1	1	2000.0	130.0	46	0.00000	1	1	2000.0	80.0
22	0.00000	1	1	1000.0	130.0	47	0.00000	1	1	1000.0	80.0
23	0.00000	1	1	500.0	130.0	48	0.00000	1	1	500.0	80.0
24	0.00000	1	1	55000.0	120.0	49	0.00000	1	1	55000.0	70.0
25	0.00000	1	1	40000.0	120.0	50	0.00000	1	1	40000.0	70.0

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1974) ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** GXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1974) ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER. DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER. DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)		
1	0.00000	1	1	2000.0	170.0	26	0.00000	1	1	2000.0	120.0
2	0.00000	1	1	1000.0	170.0	27	0.00000	1	1	1000.0	120.0
3	0.00000	1	1	500.0	170.0	28	0.00000	1	1	500.0	120.0
4	0.00000	1	1	55000.0	160.0	29	0.00000	1	1	55000.0	110.0
5	0.00000	1	1	40000.0	160.0	30	0.00000	1	1	40000.0	110.0
6	0.00000	1	1	2000.0	160.0	31	0.00000	1	1	2000.0	110.0
7	0.00000	1	1	1000.0	160.0	32	0.00000	1	1	1000.0	110.0
8	0.00000	1	1	500.0	160.0	33	0.00000	1	1	500.0	110.0
9	0.00000	1	1	55000.0	150.0	34	0.00000	1	1	55000.0	100.0
10	0.00000	1	1	40000.0	150.0	35	0.00000	1	1	40000.0	100.0
11	0.00000	1	1	2000.0	150.0	36	0.00000	1	1	2000.0	100.0
12	0.00000	1	1	1000.0	150.0	37	0.00000	1	1	1000.0	100.0
13	0.00000	1	1	500.0	150.0	38	0.00000	1	1	500.0	100.0
14	0.00000	1	1	55000.0	140.0	39	0.00000	1	1	55000.0	90.0
15	0.00000	1	1	40000.0	140.0	40	0.00000	1	1	40000.0	90.0
16	0.00000	1	1	2000.0	140.0	41	0.00000	1	1	2000.0	90.0
17	0.00000	1	1	1000.0	140.0	42	0.00000	1	1	1000.0	90.0
18	0.00000	1	1	500.0	140.0	43	0.00000	1	1	500.0	90.0
19	0.00000	1	1	55000.0	130.0	44	0.00000	1	1	55000.0	80.0
20	0.00000	1	1	40000.0	130.0	45	0.00000	1	1	40000.0	80.0
21	0.00000	1	1	2000.0	130.0	46	0.00000	1	1	2000.0	80.0
22	0.00000	1	1	1000.0	130.0	47	0.00000	1	1	1000.0	80.0
23	0.00000	1	1	500.0	130.0	48	0.00000	1	1	500.0	80.0
24	0.00000	1	1	55000.0	120.0	49	0.00000	1	1	55000.0	70.0
25	0.00000	1	1	40000.0	120.0	50	0.00000	1	1	40000.0	70.0

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

208 511 OF OVER

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1975) ***

* 365-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (0.0, 0.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	-1.51773	-1.59115	-1.04684	-0.05840	-0.03797
350.0 /	-1.19413	-1.09926	-0.65241	-0.03726	-0.02454
340.0 /	-0.98184	-0.89562	-0.60395	-0.05736	-0.03834
330.0 /	-1.03683	-0.96655	-0.65426	-0.04227	-0.02740
320.0 /	-1.16136	-1.06890	-0.73993	-0.05815	-0.03935
310.0 /	-1.27339	-1.22220	-0.86332	-0.09300	-0.06152
300.0 /	-1.33449	-1.41720	-1.03745	-0.03995	-0.02583
290.0 /	-1.30204	-1.30522	-0.92291	-0.04963	-0.03227
280.0 /	-1.32169	-1.31801	-0.90951	-0.04259	-0.02744
270.0 /	-1.45072	-1.50854	-1.06616	-0.04994	-0.03267
260.0 /	-1.43155	-1.48777	-0.98713	-0.04575	-0.03002
250.0 /	-1.41706	-1.61436	-1.18698	-0.04517	-0.02934
240.0 /	-1.36246	-1.56302	-1.21814	-0.09102	-0.05362
230.0 /	-1.36682	-1.65421	-1.19604	-0.05658	-0.03739
220.0 /	-1.24285	-1.54701	-1.17087	-0.04190	-0.02697
210.0 /	-1.04279	-1.16221	-0.88997	-0.06904	-0.04561
200.0 /	-0.97872	-0.97286	-0.70897	-0.06832	-0.04482
190.0 /	-1.01933	-1.00430	-0.68074	-0.07389	-0.04910
180.0 /	-1.11097	-1.28323	-0.94073	-0.06844	-0.04540
170.0 /	-0.98375	-1.12626	-0.79530	-0.06050	-0.03962
160.0 /	-1.00682	-1.09523	-0.67591	-0.02395	-0.01507
150.0 /	-1.03088	-1.19104	-0.80001	-0.05765	-0.03817
140.0 /	-1.16172	-1.23713	-0.78726	-0.04134	-0.02707
130.0 /	-1.33568	-1.29302	-0.81762	-0.10088	-0.06759
120.0 /	-1.28576	-1.21234	-0.71411	-0.05457	-0.03651
110.0 /	-1.06934	-0.95947	-0.58201	-0.04699	-0.03066
100.0 /	-1.10393	-0.99012	-0.54504	-0.02055	-0.01311
90.0 /	-1.08257	-0.99314	-0.58183	-0.03617	-0.02364
80.0 /	-1.09266	-0.97134	-0.58862	-0.03282	-0.02143
70.0 /	-1.25637	-1.18792	-0.73261	-0.04737	-0.03090
60.0 /	-1.60709	-1.67226	-1.04964	-0.07982	-0.05231
50.0 /	-1.75824	-1.95965	-1.32383	-0.10136	-0.06731
40.0 /	-1.67542	-1.90897	-1.28024	-0.05044	-0.03244
30.0 /	-1.43438	-1.83774	-1.17237	-0.03094	-0.01992
20.0 /	-1.24061	-1.44136	-0.95838	-0.04845	-0.03165
10.0 /	-1.33103	-1.54084	-1.03419	-0.05434	-0.03576

*** DXY - BOILER HEAT RATE REDISTRIBUTION (VALDCSTA 1975) ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1975) ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	55000.0	140.0	26	0.00000	1	1	55000.0	90.0
2	0.00000	1	1	40000.0	140.0	27	0.00000	1	1	40000.0	90.0
3	0.00000	1	1	2000.0	140.0	28	0.00000	1	1	2000.0	90.0
4	0.00000	1	1	1000.0	140.0	29	0.00000	1	1	1000.0	90.0
5	0.00000	1	1	500.0	140.0	30	0.00000	1	1	500.0	90.0
6	0.00000	1	1	55000.0	130.0	31	0.00000	1	1	55000.0	80.0
7	0.00000	1	1	40000.0	130.0	32	0.00000	1	1	40000.0	80.0
8	0.00000	1	1	2000.0	130.0	33	0.00000	1	1	55000.0	40.0
9	0.00000	1	1	1000.0	130.0	34	0.00000	1	1	40000.0	40.0
10	0.00000	1	1	500.0	130.0	35	0.00000	1	1	2000.0	40.0
11	0.00000	1	1	55000.0	120.0	36	0.00000	1	1	55000.0	30.0
12	0.00000	1	1	40000.0	120.0	37	0.00000	1	1	40000.0	30.0
13	0.00000	1	1	2000.0	120.0	38	0.00000	1	1	2000.0	30.0
14	0.00000	1	1	1000.0	120.0	39	0.00000	1	1	1000.0	30.0
15	0.00000	1	1	500.0	120.0	40	0.00000	1	1	500.0	30.0
16	0.00000	1	1	55000.0	110.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	40000.0	110.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	2000.0	110.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	1000.0	110.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	500.0	110.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	55000.0	100.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	40000.0	100.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	2000.0	100.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	1000.0	100.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	500.0	100.0	50	0.00000	1	1	500.0	10.0

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1975) ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	4000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** CXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1975) ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	40000.0	280.0	26	0.00000	1	1	40000.0	230.0
2	0.00000	1	1	2000.0	280.0	27	0.00000	1	1	2000.0	230.0
3	0.00000	1	1	1000.0	280.0	28	0.00000	1	1	1000.0	230.0
4	0.00000	1	1	500.0	280.0	29	0.00000	1	1	500.0	230.0
5	0.00000	1	1	55000.0	270.0	30	0.00000	1	1	55000.0	220.0
6	0.00000	1	1	40000.0	270.0	31	0.00000	1	1	40000.0	220.0
7	0.00000	1	1	2000.0	270.0	32	0.00000	1	1	2000.0	220.0
8	0.00000	1	1	1000.0	270.0	33	0.00000	1	1	1000.0	220.0
9	0.00000	1	1	500.0	270.0	34	0.00000	1	1	500.0	220.0
10	0.00000	1	1	55000.0	260.0	35	0.00000	1	1	55000.0	210.0
11	0.00000	1	1	40000.0	260.0	36	0.00000	1	1	40000.0	210.0
12	0.00000	1	1	2000.0	260.0	37	0.00000	1	1	55000.0	150.0
13	0.00000	1	1	1000.0	260.0	38	0.00000	1	1	40000.0	150.0
14	0.00000	1	1	500.0	260.0	39	0.00000	1	1	55000.0	30.0
15	0.00000	1	1	55000.0	250.0	40	0.00000	1	1	40000.0	30.0
16	0.00000	1	1	40000.0	250.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	2000.0	250.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	1000.0	250.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	500.0	250.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	55000.0	240.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	40000.0	240.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	2000.0	240.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	1000.0	240.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	500.0	240.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	55000.0	230.0	50	0.00000	1	1	500.0	10.0

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

208 511 OR OVER

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALCOSTA 1976) ***

* 366-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (0.0, 0.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	-1.23582	-1.45484	-0.99122	-0.06916	-0.04435
350.0 /	-1.12973	-1.17223	-0.93155	-0.07630	-0.05012
340.0 /	-0.92766	-1.04833	-0.81136	-0.05630	-0.03682
330.0 /	-0.82414	-0.85318	-0.83454	-0.07456	-0.04940
320.0 /	-0.84796	-0.76499	-0.61529	-0.09015	-0.06027
310.0 /	-0.95731	-0.89170	-0.84396	-0.04647	-0.03028
300.0 /	-0.87520	-0.81492	-0.64150	-0.04082	-0.02680
290.0 /	-0.75229	-0.76102	-0.65242	-0.05042	-0.03271
280.0 /	-0.70270	-0.83802	-0.99530	-0.02866	-0.01841
270.0 /	-0.76689	-0.90196	-0.67015	-0.03563	-0.02348
260.0 /	-0.91723	-1.14070	-0.82423	-0.03469	-0.02256
250.0 /	-1.22855	-1.53212	-1.07132	-0.03733	-0.02405
240.0 /	-1.55767	-1.90040	-1.27139	-0.05603	-0.03681
230.0 /	-1.67782	-2.09611	-1.41977	-0.07169	-0.04744
220.0 /	-1.47676	-1.86928	-1.29059	-0.09044	-0.05371
210.0 /	-1.22081	-1.41731	-0.91993	-0.03803	-0.02509
200.0 /	-1.14662	-1.23244	-0.80433	-0.04363	-0.02646
190.0 /	-1.10950	-1.21060	-0.82339	-0.06101	-0.04069
180.0 /	-1.26345	-1.48304	-0.97240	-0.03491	-0.02268
170.0 /	-1.21427	-1.40880	-0.94801	-0.05976	-0.03934
160.0 /	-1.08802	-1.24864	-0.79247	-0.03175	-0.02076
150.0 /	-1.41632	-1.56325	-0.90527	-0.03457	-0.02241
140.0 /	-1.57987	-1.63387	-0.93846	-0.06032	-0.04040
130.0 /	-1.57513	-1.54162	-0.87156	-0.04881	-0.03206
120.0 /	-1.57223	-1.50810	-0.86440	-0.05763	-0.03929
110.0 /	-1.32043	-1.19274	-0.70257	-0.03922	-0.02602
100.0 /	-1.11074	-0.90512	-0.51190	-0.05667	-0.03752
90.0 /	-1.10166	-1.02406	-0.66706	-0.04484	-0.02989
80.0 /	-1.23462	-1.12435	-0.69915	-0.04031	-0.02651
70.0 /	-1.44920	-1.34032	-0.83525	-0.05028	-0.03316
60.0 /	-1.87292	-1.80252	-1.14510	-0.08367	-0.05530
50.0 /	-1.86146	-1.85010	-1.21749	-0.11970	-0.07939
40.0 /	-1.68727	-1.91735	-1.26729	-0.07418	-0.04904
30.0 /	-1.39000	-1.59949	-1.07508	-0.04490	-0.02913
20.0 /	-1.12233	-1.36830	-0.93601	-0.06086	-0.04396
10.0 /	-1.16246	-1.51237	-1.07513	-0.05648	-0.03722

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1976) ***

* HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1976) ***

* SECOND HIGHEST 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION (DEGREES)	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** GXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1976) ***

* 50 MAXIMUM 3-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	500.0	160.0	26	0.00000	1	1	55000.0	50.0
2	0.00000	1	1	55000.0	150.0	27	0.00000	1	1	40000.0	50.0
3	0.00000	1	1	40000.0	150.0	28	0.00000	1	1	2000.0	50.0
4	0.00000	1	1	2000.0	150.0	29	0.00000	1	1	1000.0	50.0
5	0.00000	1	1	1000.0	150.0	30	0.00000	1	1	500.0	50.0
6	0.00000	1	1	500.0	150.0	31	0.00000	1	1	55000.0	40.0
7	0.00000	1	1	55000.0	140.0	32	0.00000	1	1	40000.0	40.0
8	0.00000	1	1	40000.0	140.0	33	0.00000	1	1	2000.0	40.0
9	0.00000	1	1	2000.0	140.0	34	0.00000	1	1	1000.0	40.0
10	0.00000	1	1	1000.0	140.0	35	0.00000	1	1	500.0	40.0
11	0.00000	1	1	500.0	140.0	36	0.00000	1	1	55000.0	30.0
12	0.00000	1	1	55000.0	130.0	37	0.00000	1	1	40000.0	30.0
13	0.00000	1	1	40000.0	130.0	38	0.00000	1	1	2000.0	30.0
14	0.00000	1	1	2000.0	130.0	39	0.00000	1	1	1000.0	30.0
15	0.00000	1	1	1000.0	130.0	40	0.00000	1	1	500.0	30.0
16	0.00000	1	1	500.0	130.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	55000.0	120.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	40000.0	120.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	55000.0	70.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	40000.0	70.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	55000.0	60.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	40000.0	60.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	2000.0	60.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	1000.0	60.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	500.0	60.0	50	0.00000	1	1	500.0	10.0

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALORSTA 1976) ***

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 360.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	4000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDOSTA 1976) ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* FROM ALL SOURCES *
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00000 AND OCCURRED AT (55000.0, 300.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	500.0	1000.0	2000.0	40000.0	55000.0
360.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
350.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
340.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
330.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
320.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
310.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
300.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
290.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
280.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
270.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
260.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
250.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
240.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
230.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
220.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
210.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
200.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
190.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
180.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
170.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
160.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
150.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
140.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
130.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
120.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
110.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
100.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
90.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
80.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
70.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
60.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
50.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
40.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
30.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
20.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)
10.0 /	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)	0.00000 (0. 0)

*** OXY - BOILER HEAT RATE REDISTRIBUTION (VALDESTA 1976) ***

* 50 MAXIMUM 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM ALL SOURCES *

RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	PER.	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	1	1	55000.0	240.0	26	0.00000	1	1	55000.0	50.0
2	0.00000	1	1	40000.0	240.0	27	0.00000	1	1	40000.0	50.0
3	0.00000	1	1	2000.0	240.0	28	0.00000	1	1	2000.0	50.0
4	0.00000	1	1	1000.0	240.0	29	0.00000	1	1	1000.0	50.0
5	0.00000	1	1	500.0	240.0	30	0.00000	1	1	500.0	50.0
6	0.00000	1	1	55000.0	230.0	31	0.00000	1	1	55000.0	40.0
7	0.00000	1	1	40000.0	230.0	32	0.00000	1	1	40000.0	40.0
8	0.00000	1	1	2000.0	230.0	33	0.00000	1	1	2000.0	40.0
9	0.00000	1	1	1000.0	230.0	34	0.00000	1	1	1000.0	40.0
10	0.00000	1	1	500.0	230.0	35	0.00000	1	1	500.0	40.0
11	0.00000	1	1	55000.0	220.0	36	0.00000	1	1	55000.0	30.0
12	0.00000	1	1	40000.0	220.0	37	0.00000	1	1	40000.0	30.0
13	0.00000	1	1	2000.0	220.0	38	0.00000	1	1	2000.0	30.0
14	0.00000	1	1	1000.0	220.0	39	0.00000	1	1	1000.0	30.0
15	0.00000	1	1	500.0	220.0	40	0.00000	1	1	500.0	30.0
16	0.00000	1	1	55000.0	210.0	41	0.00000	1	1	55000.0	20.0
17	0.00000	1	1	40000.0	210.0	42	0.00000	1	1	40000.0	20.0
18	0.00000	1	1	55000.0	200.0	43	0.00000	1	1	2000.0	20.0
19	0.00000	1	1	55000.0	70.0	44	0.00000	1	1	1000.0	20.0
20	0.00000	1	1	40000.0	70.0	45	0.00000	1	1	500.0	20.0
21	0.00000	1	1	55000.0	60.0	46	0.00000	1	1	55000.0	10.0
22	0.00000	1	1	40000.0	60.0	47	0.00000	1	1	40000.0	10.0
23	0.00000	1	1	2000.0	60.0	48	0.00000	1	1	2000.0	10.0
24	0.00000	1	1	1000.0	60.0	49	0.00000	1	1	1000.0	10.0
25	0.00000	1	1	500.0	60.0	50	0.00000	1	1	500.0	10.0

MESSAGE SUMMARY: MESSAGE NUMBER - COUNT

208 511 OR OVER

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.
 Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 Mr. M. P. McArthur
 Occidental Chemical Company
 P. O. Box 300
 White Springs, Florida 32096

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	0155541

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *Clarence Rogers*

7. Date of Delivery
 4/8/85

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

DOMESTIC RETURN RECEIPT

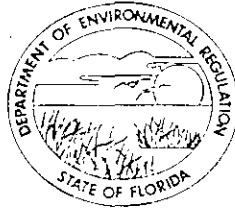
No. 0155541
 RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Mr. M. P. McArthur	
STREET AND NO.			
P.O., STATE AND ZIP CODE			
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	¢	
	SPECIAL DELIVERY	¢	
	RESTRICTED DELIVERY	¢	
	OPTIONAL SERVICES	RETURN RECEIPT SERVICE	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢		
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE		4/3/85	

PS Form 3800, Apr. 1976

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

March 22, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. M. P. McArthur
Vice President and General Manager
Occidental Chemical Company
Post Office Box 300
White Springs, Florida 32096

Dear Mr. McArthur:

RE: Modification to Permit Numbers AC 24-56209 (Sulfuric Acid Plant "F"), -56210 (Boiler E), -56211 (Sulfuric Acid Plant "E"), -56212 (Boiler B), -56213 (Boiler D), and -56214 (Boiler C), and -56215 (DAP Plant No. 2).

The department is in receipt of your request to modify the above referenced permits. Your request has been reviewed and approved. The conditions are changed and added as follows:

SPECIFIC CONDITIONS:

Permit No. AC 24-56212, Auxiliary Boiler "B"

From: The maximum operating rate for boiler "B" shall not exceed 60% of rated capacity (96 mmBTU/hr heat) when sulfuric acid plants "C" and "D" will be operating at 100% capacity. Auxiliary boiler "B" shall be allowed to operate at 100% of rated capacity (160 mmBTU/hr heat input) when either the "C" or "D" sulfuric acid plant is shut down.

To: The maximum operating rate for boiler "B" shall not exceed 90 mmBTU/hr heat input.

Mr. M. P. McArthur
Page Two
March 22, 1985

Permit No. AC 24-56213, Auxiliary Boiler "D"

From: The maximum operating rate for boiler "D" shall not exceed 120 mmBTU/hr heat input.

To: The maximum operating rate for boiler "D" shall not exceed 155 mmBTU/hr heat input.

Permit No. AC 24-56214, Auxiliary Boiler "C"

From: The maximum operating rate for boiler "C" shall not exceed 120 mmBTU/hr heat input.

To: The maximum operating rate for boiler "C" shall not exceed 155 mmBTU/hr heat input.

The following paragraph will be added to conditions No. 5 (boiler B), and No. 4 (boiler E), respectively:

Compliance with the particulate matter standard will be based upon visible emissions and the sulfur content of the fuel oil fired in the boilers. An applicable test method by the American Society for Testing Materials (A.S.T.M.) to determine the sulfur content in the fuel will be used.

Method 5 - Determination of Particulate Emissions for Stationary Sources, shall be requested by the Department when deemed necessary.

The following paragraph will be added to conditions No. 6 (boiler C) and No. 5 (boiler D):

Compliance with the particulate matter standard will be based upon visible emissions and the sulfur content of the fuel oil fired in the boilers. An applicable test method by the American Society for Testing Materials (A.S.T.M.) to determine the sulfur content in the fuel will be used.

Method 5 - Determination of Particulate Emissions for Stationary Sources, shall be requested by the Department when deemed necessary.

Mr. M. P. McArthur
Page Three
March 22, 1985

The following paragraph will be added to conditions No. 7 (boiler B), No. 4 (boiler E), No. 8 (boiler C), and No. 7 (boiler D):

Compliance with the opacity emission standard (Visible emission test - DER Method 9) for boilers B - C - D and E will be delayed until the units are oil fired (the boilers are currently running on gas). A tentative oil-fired schedule should be submitted with the application for a permit to operate to the Northeast District office.

Specific Conditions No. 12 and No. 13 for all four boilers shall be changed as follows:

From: Stack sampling facilities will include the eyebolt and angle described in Chapter 12-2.700, FAC.

To: Stack sampling facilities shall be as described in Rule 17-2.700(4) Fla. Administrative Code.

Expiration Date:

From: March 31, 1985

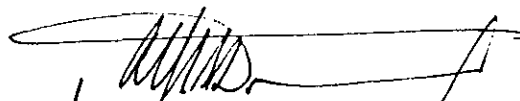
To: June 30, 1985

Attachments:

3. Mr. W.W. Atwood's modifications request letters of October 19, 1984 and March 14, 1985

A copy of this letter and attachments must be attached to your permits, AC 24-56209, -56210, -56211, -56212, -56213, -56214, and -56215, and shall become a part of each permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/rw

cc: John Koogler, Sholtes and Koogler Environmental Consultants
Johnny Cole, Northeast District office

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Locn.: _____	
To: _____	Locn.: _____	
To: _____	Locn.: _____	
From: _____	Date _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel
FROM: Clair Fancy *Clair Fancy*
DATE: March ~~22~~²⁵, 1985
SUBJ: Modification to Permit Numbers AC 24-56209, -56210,
-56211, 56212, 56213, 56214, and 56215

RECEIVED

MAR 25 1985

Office of the Secretary

Attached is a letter for your signature that will modify specific conditions for the above referenced construction permits issued to Occidental Chemical Company. The Bureau of Air Quality Management recommends that the modifications be approved.

CHF/s

Attachment



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

March 14, 1985

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

DER
MAR 14 1985
BAQM

Re: AC 24 - 56212
AC 24 - 56214
AC 24 - 56213
AC 24 - 56215
AC 24 - 56209
AC 24 - 56211
AC 24 - 56210

Dear Bill:

This will confirm our conversation of March 7 regarding referenced construction permits. We are requesting that these permits be extended to June 30 to allow for your review of the modeling submitted by Dr. J. Koogler and for minor modification and issuance of the operating permits.

Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. W. Atwood".

W. W. Atwood
Manager, Environmental Control

WVA/jrh
Enclosures

cc: J. Koogler
J. Cole
R. E. McNeill

No. 0155792

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 (01 FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		Mr. W. W. Atwood		
STREET AND NO.				
P.O., STATE AND ZIP CODE				
POSTAGE		\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	\$		
	SPECIAL DELIVERY	\$		
	RESTRICTED DELIVERY	\$		
	OPTIONAL SERVICE: RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED	\$	
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY?	\$	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		\$		
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	\$		
TOTAL POSTAGE AND FEES		\$		
POSTMARK OR DATE				
12/17/84				

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENDER: Complete items 1, 2, and 3.
 Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....
 Show to whom, date and address of delivery.....
 RESTRICTED DELIVERY
 Show to whom and date delivered.....
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery.\$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
 Mr. W. W. Atwood
 P. O. Box 300
 White Springs, FL 32096

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0155792	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE Addressee Authorized agent

4. *Clarence Rogers*
 DATE OF DELIVERY 12/19/84

POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

CLERK'S INITIALS
ms

☆GPO : 1975-300-450

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

December 13, 1984

Mr. W.W. Atwood, Manager
Environmental Control
Occidental Chemical Company
Florida Operations
Post Office Box 300
White Springs, Florida 32096

Dear Sir:

RE: Letter of October 19, 1984

In evaluating Occidental's October 19th request, we have found several inconsistencies in our records. Specifically, the heat input of boilers B, C, D, and E. Our records of operating permits for these boilers, (AO 24-34186, AO 24-21059, and AO 24-34846) as well as construction permits, (AC 24-56212, AC 24-56214, AC 24-56213, AC 24-56210, and PSD-FL-082 and 083), show the maximum heat input to boiler "B" is 160 mmBTU/hr; to boiler "C", is 120 mmBTU/hr; to boiler "D", is 120 mmBTU/hr, and to boiler "E", is 156 mmBTU/hr.

For purpose of clarification, we have compared our records and your October 19th proposal. Please refer to the attached table.

If these boilers are existing units, why are you proposing to change the heat input as noted in your October 19, 1984 letter to Mr. John Brown?

Have any of these boilers ever been replaced, or are you planning to replace them? Please submit the serial numbers and confirm the design and maximum heat input for each boiler.

Please re-submit pages 3 and 4, Section III, of the DER Form 17-1.122(16) for each boiler application reflecting the changes proposed.

Mr. W.W. Atwood
Page Two
December 13, 1984

Existing operating and
construction permits

Boiler "B" AO 24-34186 & AC 24-5612, maximum heat input 160 mmBTU/hr (96 mmBTU/hr, special condition)

Boiler "C" and "D", AO 24-21059 and AC 24-56214, AC 24-56213, maximum heat input for each boiler is 120 mmBTU/hr

Boiler "E" AO 24-34846 & AC 24-56210, maximum heat input 156 mmBTU/hr

Data from letter of
October 19, 1984

Boiler "B"
Operating rate: 90 mmBTU/hr
Design Capacity: 107 mmBTU/hr
Expected Normal: 45-90 mmBTU/hr

Boiler "C"
Operating rate: 155 mmBTU/hr
Design Capacity: 182.5 mmBTU/hr
Expected Normal: 75-155 mmBTU/hr

Boiler "D"
Operating rate: 155 mmBTU/hr
Design Capacity: 182 mmBTU/hr
Expected Normal: 75-155 mmBTU/hr

Boiler "E"
Operating rate: 156 mmBTU/hr
Design Capacity: 218 mmBTU/hr
Expected Normal: 75-156 mmBTU/hr

As soon as the requested information is received in this office, we will resume processing your request.

If you have any questions regarding this request, please call Teresa Heron at (904)488-1344, or write to me at the above address.

Sincerely,



C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/rw

cc: Johnny Cole

P16 7682467

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3811, Jan. 1979

1. SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)

- Show to whom and date delivered.....c
- Show to whom, date and address of delivery.....c
- RESTRICTED DELIVERY
Show to whom and date delivered.....c
- RESTRICTED DELIVERY
Show to whom, date, and address of delivery.5

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
W.W. Atwood
P.O.Box 300
White Springs, FL 32096

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
P16	7682467	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE Addressee Authorized agent

4. *Clarence P. [Signature]*
DATE OF DELIVERY

5. ADDRESS (Complete only if requested)
12/17/84

6. UNABLE TO DELIVER BECAUSE: 320 CLERK'S INITIALS
[Signature]

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

SENT TO
W.W. Atwood
P.O.Box 300
White Springs, FL 32096

POSTAGE	
CERTIFIED FEE	
SPECIAL DELIVERY	
RESTRICTED DELIVERY	
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES	
POSTMARK OR DATE	

CONSULT POSTMASTER FOR FEES

US Form 3800, Apr. 1976

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel
FROM: Clair Fancy *[Signature]*
DATE: December 7, 1984
SUBJ: Modification of Permit Nos. AC 24-56209, 56210, 56211,
56212, 56213, 56214, 56215.

RECEIVED
DEC 7 1984
Office of the Secretary

Attached is a letter for your signature that will extend the expiration date of the above mentioned construction permits issued to Occidental Chemical Company.

The Bureau of Air Quality Management recommends their request be approved.

CHF/WH/s

attachment: letter

DER
DEC 10 1984
BAQM

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

December 07, 1984

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W.W. Atwood, Manager
Environmental Control
Occidental Chemical Company
Florida Operations
Post Office Box 300
White Springs, Florida 32096

Dear Mr. Atwood:

RE: Modifications to Air Construction Permit
Nos. AC 24-56209, 56210, 56211, 56212,
56213, 56214, 56215.

The department is in receipt of your request to modify the above referenced permits. Your request has been reviewed and approved. The expiration dates of your permits are changed as follows:

FROM: September 1, 1984

TO: March 31, 1985

A copy of this letter must be attached to each of the above referenced permits and becomes a part of each permit.

Sincerely,

Victoria J. Tschinkel
Secretary

VJT/rw

cc: Johnny Cole



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

November 9, 1984

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32302

Dear Bill:

With reference to your discussion of November 8, 1984, with John Koogler, Occidental Chemical Agricultural Products, Inc. is requesting that construction permits

AC 24 - 56212
AC 24 - 56214
AC 24 - 56213
AC 24 - 56215
AC 24 - 56209
AC 24 - 56211
AC 24 - 56210

be extended to ~~January 31, 1985~~ ^{March 31, 1985*} 1985. This extension will allow Occidental to continue operating the affected sources under valid permits while minor modifications to the various permits are being negotiated with the Department.

If there are any questions regarding this matter, please do not hesitate to call me or our consultant, John Koogler.

Very truly yours,

W.W. Atwood
Manager, Environmental Control

WWA/jrh

Mr. Bill Thomas
November 9, 1984
Page 2

cc: Willard Hanks - FDER Tallahassee
John Brown - FDER Jacksonville
John Koogler - Sholtes & Koogler
Larry Curtin - Holland & Knight

* March 31, 1985. Date agreed



DER

NOV 2 1984

BAQM

OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

October 31, 1984

Mr. W. A. Thomas, P. E.
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Reference: "B" Auxiliary Boiler, AC24-56212
"C" Auxiliary Boiler, AC24-56214
"D" Auxiliary Boiler, AC24-56213
#2 DAP Plant, AC24-56215

Dear Bill,

On October 29th we met with the District (Messrs. Brown and Cole) and discussed referenced permits. One point of action that evolved was a suggestion, confirmed this morning by Johnny Cole, concerning compliance testing.

As you are aware visible emission (VE) readings are required on the boilers when running on the higher sulfur fuel oil. At the present time, however, they are running on gas. The District has suggested that we request from you a delay on submission of VE tests until the units are oil fired.

This would avoid a special start-up on oil of C & D boilers and de-mothballing of B boiler.

A similar request is made in connection with compliance testing with the use of #6 fuel oil for the dryer in DAP plant #2. It is currently running on gas and the fuel oil stand-by tanks still contain the previously approved fuel.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. W. Atwood".

W. W. Atwood
Manager, Environmental Control

psb

cc: Mr. Johnny Cole, FDER Jacksonville, FL
Mr. R. E. McNeill, Occidental Chemical Company



*Copy
J Brown has orig.*

OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

October 19, 1984

Mr. John Brown, P. E.
Supervisor, Air Section
Florida Department of
Environmental Regulation
3426 Billis Road
Jacksonville, Florida 32207

Dear Mr. Brown:

This will refer to several letters in connection with Certificate of Completion of Construction forms for operating permits. All were associated with a completed PSD review.

Reference: Letter dated August 24, 1984, "B" Auxiliary Boiler

1. Operating Rate: 90 million Btu/hour
Design Capacity: 107 million Btu/hour
Expected Normal: 45-90 million Btu/hour, when operating.

Please refer to Attachment 1 for a requested re-alignment of operating rates for Boilers B, C and D.

2. Fuel Oil Analysis - See Attachment 2
3. Procedure to isolate 1.5% sulfur fuel oil - See Attachment 3.
4. (a) Particulate matter stack test - The intent of our request February 6, 1984 to FDER was to avoid costly stack sampling of the small auxiliary boilers. However, our request and your response only addressed a stack sampling exemption for sulfur dioxide. Attachment 4 provides justification to avoid costly stack testing for particulate matter as required in the construction permits.

(b) VE's - As pointed out in our application transmittal letter, the unit has been fired on natural gas and now has been mothballed for a period at least through 1985. We propose to notify the Department prior to start-up of this unit and test at that time.

5. If, as we intended, FDER approves a certified oil analysis and VE test in lieu of stack testing, the fee of \$100 would apply and this item is contingent on item 4(a) above.

Reference: Letter August 24, 1984 - "C" Auxiliary Boiler

1. Operating Rate: 155 million Btu/hour
Design Capacity: 182.5 million Btu/hour
Expected Normal: 75-155 million Btu/hour, when operating.

Please refer to Attachment 1.
2. Fuel Oil Analysis - See Attachment 2.
3. Procedure to isolate 1.5% sulfur fuel oil - Attachment 3.
4. (a) Particulate matter stack test - The intent of our request February 6, 1984 to FDER was to avoid costly stack sampling of the small auxiliary boilers. However, our request and your response only addressed a stack sampling exemption for sulfur dioxide. Attachment 4 provides justification to avoid costly stack testing for particulate matter as required in the construction permits.

(b) As pointed out in our application transmittal letter, the unit continues to be fired on natural gas. We could start-up and operate on oil in order to run the test if the Department requires.

Reference: Letter August 24, 1984 - "D" Auxiliary Boiler

1. Operating Rate: 155 million Btu/hour
Design Capacity: 182.5 million Btu/hour
Expected Normal: 75-155 million Btu/hour, when operating.

Please refer to Attachment 1.
2. Same as for "C" Auxiliary Boiler (above).
3. Same as for "C" Auxiliary Boiler (above).
4. Same as for "C" Auxiliary Boiler (above).

Reference: Letter August 24, 1984, "E" Auxillary Boiler

1. Operating Rate: 156 million Btu/hour
Design Capacity: 218.4 million Btu/hour
Expected Normal: 75-156 million Btu/hour, when operating.
2. Same as for "C" Auxillary Boiler (above).
3. Same as for "C" Auxillary Boiler (above).
4. Same as for "C" Auxillary Boiler (above) relative to stack testing. Visible emission compliance test included as Attachment 5.

Reference: Letter August 24, 1984, No. 2 DAP Plant

1. Tests will be performed when No. 6 fuel oil is used. At the present time the plant is running on natural gas and the fuel tank contains the lower sulfur No. 5 fuel oil. We propose to notify the Department prior to start-up of this unit on No. 6 fuel oil and the subsequent testing at that time.
2. Certificate will be obtained when No. 6 fuel oil is purchased for the DAP plant.
3. Procedure noted above is in Attachment 3.

Sincerely,

OCCIDENTAL CHEMICAL
AGRICULTURAL PRODUCTS DIVISION



W. W. Atwood
Manager, Environmental Control

WWA:sc
Attachments

cc: R. E. McNeill



SHOLTÈS & KOOGLER, ENVIRONMENTAL CONSULTANTS
1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

SKEC 102-75-06

October 19, 1984

Mr. W. C. Thomas, P.E.
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Occidental Chemical Agricultural Products, Inc.
Modification to Boiler Input Rates and Pollutant
Emission Rates
Auxiliary Boiler B, AC24-56212
Auxiliary Boiler C, AC24-56214
Auxiliary Boiler D, AC24-56213

Dear Bill,

During the meeting that Wes Atwood and I had with you in your office on October 12, 1984, we discussed some inconsistencies between permitted and designed heat input rates for the B, C and D auxiliary boilers located at Occidental's Suwannee River Chemical Complex in Hamilton, Florida. Specifically, Auxiliary Boilers C and D each have a designed maximum heat input rate of 182.5 million BTU per hour, and a permitted maximum heat input rate of 120.0 million BTU per hour, each, and Boiler B has a maximum heat designed input rate of 106.9 million BTU per hour and a maximum permitted heat input rate of 160.0 million BTU per hour. The total maximum designed heat input rate for the three boilers combined is 471.9 million BTU per hour and the maximum permitted heat input rate to the three boilers combined is 400.0 million BTU per hour.

Occidental is requesting a modification to the three referenced permits to redistribute the maximum permitted heat input rate to the three boilers. The proposed maximum permitted heat input rates will be 155.0 million BTU per hour to Boiler C, 155.0 million BTU per hour to Boiler D, and 90.0 million BTU per hour to Boiler B. The total redistributed heat input is still 400.0 million BTU per hour. The designed, permitted and proposed heat inputs are also summarized in Table 1. The proposed maximum heat input to each of the three boilers is approximately 85 percent of the maximum designed heat input rate.

160 155
120 155
120 90
400

These heat input rates will allow each boiler to operate with reasonable margin safety and, furthermore, will not impose any operating inconvenience on Occidental.

The redistribution of heat input rates to the three boilers will result in changes in steam production for each boiler as summarized in Table 1. The total proposed steam production for the three boilers is 325,000 pounds per hour; a production rate identical to the presently permitted total steam production rate. The proposed steam production rate for each boiler is approximately 93 percent of the designed steam production rate for the boiler.

The redistribution of maximum heat input rates will also affect the air pollutant emission rates from the boilers. The modified annual pollutant emission rates for sulfur dioxide, particulate matter and nitrogen oxides are also summarized in Table 1. In all cases, it will be noted that the presently permitted and proposed annual emission rates are identical.

In addition to redistributing the maximum allowable annual air pollutant emission rates, an assessment was made to evaluate the impact of these changes on ambient ground-level concentrations of the pollutants. The assessment was semi-quantitative and involved looking at changes in air pollutant emission rates, stack heights, stack temperatures and stack gas flow rates. The stack and stack gas parameters for Boilers B, C and D under permitted and proposed conditions are summarized in Table 2.

The proposed changes in emission rates will result in approximately a 44 percent decrease in emissions from Boiler B and approximately a 38 percent increase in the emissions from both Boiler C and D. The proposed changes in the emission rates result in a decrease in the emissions from the boiler with the shortest stack height and lowest stack gas flow rate (plume buoyancy) and an increase in the pollutant emission rates of the boilers with a highest stack height and a highest stack gas flow rate (plume buoyancy). Both the permitted and proposed gas temperatures are the same (460°F) and therefore cancel out of the analysis.

Since air pollutant emissions are being transferred from a source with a low physical stack height and the lesser plume buoyancy to a source with a greater physical stack height and a greater plume buoyancy, the impact of the proposed modification will result in a reduced ground-level impact of all air pollutant emitted by the three boilers.

100.00
100.00
120.00

44% decrease
38% increase


Mr. W. C. Thomas, P.E.
Florida Department of
Environmental Regulation

October 19, 1984
Page -3-

If after reviewing the enclosed information, you feel additional information is needed to support this request of modifications, please give me a call.

Very truly yours,

SHOLTES & KOGLER,
ENVIRONMENTAL CONSULTANTS


A handwritten signature in black ink, appearing to read 'John B. Koogler', is written over the typed name below.

John B. Koogler, Ph.D., P.E.

JBK:ldh
Enclosure

cc: Mr. Wes Atwood
Mr. Johnny Cole

EASTERN SEABOARD PETROLEUM COMPANY, INC.

P. O. BOX 3233, STATION F—6531 EVERGREEN AVE.

JACKSONVILLE, FLORIDA 32208

TELEPHONE 904/355-9675

CABLE ADDRESS
EASTPETOFFICES
JACKSONVILLE
TAMPA

September 5, 1984

Mr. John Boren
 Materials Management
 Occidental Chemical Company
 Post Office Box 300
 State Road 137
 White Springs, Florida 32096

Dear Mr. Boren:

The specifications for various fuels supplied to Occidental Corporation as as follows:

	1.0% #6 Fuel	#2 Fuel	Comm. Dist.	No. 5 Flotation	50/50 Blend
API Gravity	10.0	36.4	29.7	25.0	20.1
Sulfur % Wt ASTM	.9	.21	.81	1.27	1.78
Pour Point ASTM	+5	+5	+5	+5	+5
Flash Point	175	175	175	180	175
Visc. SSU @ 100	373	36.0	47.5	78.5	201
BSW % Wt	.01	.01	.01	.01	.01

The above is a composite analysis on the laboratory results. If we can be of further assistance, please contact us.

Very truly yours,



Ceil Cabler

cc: Marshall Griggs
 Al Csontos
 Steve Kemp

cc: AES
 TVT

FUEL OIL ISOLATION PROCEDURE

1. Vendor will be informed not to accept a verbal (phone) order for 1.5% No. 6 fuel.
2. Purchasing will order the 1.5% fuel following receipt of an authorized purchase request.
3. Traffic will be informed of the delivery date by Purchasing. When the truck arrives at the weigh station, Traffic will contact the Granulation Superintendent who will assign someone to meet the truck.
4. The person assigned from Granulation will direct the truck personally to the proper storage tank for DAP #2 and see that the truck offloads to that tank.
5. Receipts will be logged on the DAP #2 plant operating log sheet.



SHOLTÈS & KOOGLER, ENVIRONMENTAL CONSULTANTS

1213 N W. 6th Street

Gainesville, Florida 32601

(904) 377-5822

SKEC 102-75-06

October 19, 1984

Mr. W. C. Thomas, P.E.
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Occidental Chemical Agricultural Products, Inc.
Modification to Method of Determining Particulate
Matter Emission Compliance
Auxiliary Boiler B, AC24-56212
Auxiliary Boiler C, AC24-56214
Auxiliary Boiler D, AC24-56213
Auxiliary Boiler E, AC24-56210

Dear Bill,

Pursuant to the meeting that Wes Atwood and I had with you and Ed PalagyI on October 12, 1984 and the telephone conversations that I had with you and Ed on this date, Occidental is requesting a modification to the method for determining compliance with the permitted particulate matter emission limit established in the referenced construction permits for fossil fuel fired steam boilers B, C, D and E. Boilers B, C and D are located at Occidental's Suwannee River Chemical Complex (SRCC) and boiler E is located at Occidental's Swift Creek Chemical Complex (SCCC); all in Hamilton County, Florida.

The referenced construction permits for boilers B, C and D were issued in May, 1983 following PSD review of PSD-FL-083 and the permit for boiler E was also issued in May, 1983 following PSD review of PSD-FL-082. All four construction permits specify that compliance with the sulfur dioxide emission limiting standard be determined by EPA Method 6 as described in 40 CFR 60, Appendix A and that compliance with the particulate matter emission limit be determined by EPA Method 5, also described in 40 CFR 60, Appendix A.

Boilers B, C, D and E are all "small boilers" as defined by Chapter 17-2, FAC; that is all have a heat input rate of less than 250 million BTU per hour. The emission limiting standards for small boilers, as set forth in 17-2.600(6) require that both the particulate matter and sulfur dioxide emission limits be based upon a Best

Available Control Technology (BACT) determination. The referenced PSD reviews, both addressing fuel modifications for the four existing boilers, addressed sulfur dioxide emissions from the boilers only. Changes in the particulate matter emission rates resulting from the requested fuel changes were less than the de minimus rate increases; thus exempting particulate matter from the PSD review. J

The BACT determination made by the Department for the four boilers, and dated November 7, 1982, states: "compliance with the SO₂ emission limit will be based upon the sulfur content of the fuel fired." Consistent with this BACT determination, Occidental requested by letter dated February 6, 1984 that the specific conditions in the four construction permits requiring that compliance with the sulfur dioxide emission limit be determined by EPA Method 6, be changed to the method of compliance specified by the BACT determination; i.e., compliance based on the sulfur content of the fuel fired. In this letter, however, the matter of establishing compliance with the particulate matter emission limiting standard was inadvertently overlooked.

On February 22, 1984, Occidental received a letter from the Department changing the specific conditions in all four permits and specifying that the method of determining compliance with the sulfur dioxide emission limiting standard be determined by monitoring the sulfur content of the fuel fired in the boilers.

The purpose of this letter is to request a modification to the specific conditions of all four boiler permits to allow the determination of compliance with the particulate matter emission limiting standard to be based upon compliance with the permitted visible emission limit and compliance with the fuel sulfur limit.

This request is based upon two facts. First, neither of the PSD reviews covering the four boilers, addressed particulate matter because changes in particulate matter emission rates were less than the de minimus emission rate increases allowed by PSD regulations. Because of this, there appears to be no reason for changing conditions in the permits under which the boilers were operating prior to the PSD reviews as they apply to determining compliance with particulate matter emission limits. These permit conditions required only visible emission observations.

Secondly, and perhaps more importantly, the particulate matter emission limits established for the four boilers in the referenced permits are all established by the AP-42 emission factor for particulate matter. This emission factor equation is:

40

$$P = 10(S)+3$$

where,

P = the particulate matter emission rate in pounds per
thousand gallons of fuel oil fired, and
S = the sulfur content of the fuel oil in percent.

It is apparent from this equation that the particulate matter emission limit is very much dependent upon the sulfur content of the fuel oil fired.

Since the BACT determinations made pursuant to both PSD-FL-082 and PSD-FL-083 specify that compliance with the sulfur dioxide emission limiting standard be based on the measured sulfur content of the fuel oil, it follows that compliance with the particulate matter emission limit should also be based upon the sulfur content of the fuel oil because of the dependence of particulate matter emissions on the fuel sulfur content.

Based upon information presented above, Occidental requests that the specific conditions in the four boiler permits be modified to allow determination of compliance with the particulate matter emission limit to be based upon the sulfur content of the fuel oil fired to the boilers.

If there are any questions or if additional information is needed to support this requested modification, please do not hesitate to contact me.

Very truly yours,

SHOLTES & KOGLER,
ENVIRONMENTAL CONSULTANTS



John B. Koogler, Ph.D., P.E.

JBK:ldh
Enclosures

cc: Mr. W. W. Atwood

VISIBLE EMISSION OBSERVATION FORM

ATTACHMENT 5

SOURCE NAME <i>Occidental Chem Co</i>			OBSERVER'S NAME (PRINT) <i>Dale M Baker</i>																						
ADDRESS <i>P.O. Box 300 White Springs</i>			ORGANIZATION <i>Occidental Chem Co</i>																						
STATE <i>Fla</i>	ZIP	TELEPHONE <i>397-8265</i>	CERTIFIED BY <i>Eastern Tech Assoc.</i>		DATE <i>6-7-84</i>																				
SOURCE ID NUMBER <i>AC 24-56210</i>			OBSERVATION DATE <i>10-8-84</i>																						
PROCESS <i>Steam</i>		OPERATING MODE <i>Oil Fired</i>																							
CONTROL EQUIPMENT <i>N/A</i>		OPERATING MODE <i>#2 Oil</i>																							
DESCRIBE EMISSION POINT <i>Out Boiler E at Swift Creek Chem. Comp</i>			START TIME <i>1152</i>																						
HEIGHT ABOVE GROUND LEVEL <i>50'</i>			STOP TIME <i>1252</i>																						
HEIGHT RELATIVE TO OBSERVER <i>133'</i>			O																						
DISTANCE FROM OBSERVER <i>123'</i>		DIRECTION FROM OBSERVER <i>West</i>																							
DESCRIBE EMISSIONS																									
EMISSION COLOR		PLUME TYPE <input type="checkbox"/> INTERMITTENT <input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/>																							
WATER DROPLETS PRESENT <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		IF YES, IS PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>																							
AT WHAT POINT WAS OPACITY DETERMINED <i>At stack exit</i>																									
DESCRIBE BACKGROUND <i>Partly Cloudy</i>																									
BACKGROUND COLOR <i>Blue + white</i>		SKY CONDITIONS <i>Partly Cloudy</i>																							
WIND SPEED <i>2mph</i>		WIND DIRECTION <i>NE</i>																							
AMBIENT TEMPERATURE		RELATIVE HUMIDITY <i>84%</i>																							
COMMENTS																									
SOURCE LAYOUT SKETCH			DRAW NORTH ARROW																						
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">AVERAGE OPACITY FOR FOR HIGHEST PERIOD</td> <td colspan="2">NUMBER OF READINGS ABOVE</td> </tr> <tr> <td colspan="2"></td> <td colspan="2" style="text-align:center">WERE</td> </tr> <tr> <td colspan="4">RANGE OF OPACITY READINGS</td> </tr> <tr> <td colspan="2" style="text-align:center">MINIMUM</td> <td colspan="2" style="text-align:center">MAXIMUM</td> </tr> <tr> <td colspan="2" style="text-align:center">○</td> <td colspan="2" style="text-align:center">○</td> </tr> </table>			AVERAGE OPACITY FOR FOR HIGHEST PERIOD		NUMBER OF READINGS ABOVE				WERE		RANGE OF OPACITY READINGS				MINIMUM		MAXIMUM		○		○	
AVERAGE OPACITY FOR FOR HIGHEST PERIOD		NUMBER OF READINGS ABOVE																							
		WERE																							
RANGE OF OPACITY READINGS																									
MINIMUM		MAXIMUM																							
○		○																							
OBSERVER'S SIGNATURE <i>Dale M Baker</i>			DATE <i>10-8-84</i>																						
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS																									

TABLE 1

SUMMARY OF PERMITTED AND PROPOSED OPERATING CONDITIONS FOR BOILERS B, C AND D

OCCIDENTAL CHEMICAL AGRICULTURAL PRODUCTS, INC.
 SUWANNEE RIVER CHEMICAL COMPLEX
 HAMILTON COUNTY, FLORIDA

Boiler	Permit	Heat Input (million BTU/hr)			Steam Production (lb/hr)			Air Pollutant Emissions (tons per year)					
		Design	Permit	Proposed	Design	Permit	Proposed	Sulfur Dioxide		Part. Matter		NOx	
								Permitted	Proposed	Permitted	Proposed	Permitted	Proposed
D	AC24-56213	182.5	120.0	155.0	135,000	100,000	125,500	564.0	730.8	47.0	60.5	215.0	278.0
C	AC24-56214	182.5	120.0	155.0	135,000	100,000	125,500	563.9	730.8	46.7	60.5	215.5	278.0
B	AC24-56212	106.9	160.0	90.0	80,000	125,000	74,000	765.8	432.1	62.3	35.0	287.2	161.7
TOTAL		471.9	400.0	400.0	350,000	325,000	325,000	1893.7	1893.7	156.0	156.0	717.7	717.7

↑

60%

60%

96M MBTU/hr

c. D 100% capacity →

160 MBTU, 100%

down c. D

TABLE 2

STACK AND STACK GAS PARAMETERS FOR BOILERS B, C AND D

OCCIDENTAL CHEMICAL AGRICULTURAL PRODUCTS, INC.
SUWANNEE RIVER CHEMICAL COMPLEX
HAMILTON COUNTY, FLORIDA

Boiler	Stack Height (feet)	Stack Temperature (°F)		Stack Gas Flow (Acfm)	
		Permitted	Proposed	Permitted	Proposed
D	104	468	468	50,000	62,000
C	104	468	468	50,000	62,000
B	35	468	468	34,000	36,000

↑

90

90

106?

No. 0156563

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

SENT TO		
Mr. W. W. Atwood		
STREET AND NO.		
P.O., STATE AND ZIP CODE		
POSTAGE	\$	
CERTIFIED FEE	¢	
CONSULT POSTMASTER FOR FEES OPTIONAL SERVICES	SPECIAL DELIVERY	¢
	RESTRICTED DELIVERY	¢
	RETURN RECEIPT SERVICE	¢
	SHOW TO WHOM AND DATE DELIVERED	¢
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢	
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE		
9/14/84		

PS Form 3800, Apr. 1975

PS Form 3811, Jan. 1979

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....
 Show to whom, date and address of delivery.....
 RESTRICTED DELIVERY
Show to whom and date delivered.....
 RESTRICTED DELIVERY.
Show to whom, date, and address of delivery \$.....

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Mr. W. W. Atwood
P. O. Box 300
White Springs, FL 32096

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
0156563

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE Addressee Authorized agent
Clarence Rogers

4. DATE OF DELIVERY 9-17-84 POSTMARK JACKSON, FL 15 SEP 1984

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

☆ GPO : 1979-300-459

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

September 12, 1984

Mr. W. W. Atwood, Manager
Environmental Control
Occidental Chemical Company
Florida Operations
Post Office Box 300
White Springs, Florida 32096

Dear Mr. Atwood:

The department has received your August 28, 1984, request for an extension of two state permits (AC 24-56209 and AC 24-56211). These permits were issued to modify two sulfuric acid plants on May 17, 1983. The initial expiration date of January 30, 1984, for these permits was later extended to September 1, 1984. Federal permit PSD-FL-082 was also issued for the modifications to the sulfuric acid plants.

Chapter 17-4, FAC, states the department will issue permits for the time necessary to construct the facility. You are requesting six years be allowed to engineer, purchase, deliver equipment, and modify the plants. To justify a construction permit extension of this length, we request you furnish the department with a more detailed description of the modifications that are to be made to each sulfuric acid plant and a schedule (such as a critical flow diagram) showing (for example) when engineering will be completed, specifications released for bid, bids evaluated, contract let, material ordered and received, off-site fabrication initiated, on-site construction begun and completed, plants shut down to install equipment, facilities tested, and application for permit to operate submitted.

We also need confirmation that the original monitoring results are still valid. We suggest, initially, you submit a list on any new sulfur dioxide sources in your area and the ambient air concentration on sulfur dioxide currently being measured near your plant.

Federal permit No. PSD-FL-082 was issued for these plants on November 7, 1983. Federal permits may become invalid if construction is not begun within eighteen months of the date the

Mr. W. H. Atwood
September 12, 1984
Page two

permit is issued, if construction is discontinued for eighteen months or more, or if construction is not completed within a reasonable time (40 CFR 52.21). To confirm that this condition has been complied with, please submit a log showing the construction activities on "E" and "F" sulfuric acid plants since permit PSD-FL-082 was issued.

Your reply to the information requested in this letter will allow us to determine how to process your request. If you have any questions on what information is needed, please call Willard Hanks at (904) 488-1344.

Sincerely,



C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/WH/agh

cc: James T. Wilburn
Doug Dutton
John Koogler



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

August 28, 1984

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida

Re: AC-24-56211; AC-24-56209 - Swift Creek
Chemical Complex Sulfuric Acid Plant

Dear Mr. Thomas:

This is to request an extension of the referenced construction permits from September 1, 1984 to May 1, 1989 to allow for engineering, purchase, delivery of equipment and completion of the work.

As you know the first step taken in this revision was to improve the catalyst loading to increase the efficiency at the higher production rates. The next step is to enlarge the gas handling capacity together with additional heat recovery equipment. This work is expected to be completed in the next several years.

I plan to review this with you in Tallahassee on August 29, 1984, to answer any question you may have.

Sincerely,

A handwritten signature in cursive script, appearing to read "Wes Atwood", written over a horizontal line.

W.W. Atwood, Manager
Environmental Control

WWA/tb
cc: Mr. R.E. McNeill

PS Form 3800, Apr. 1976

1. SENDER: Complete Items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)

Show to whom and date delivered.

Show to whom, date and address of delivery.

RESTRICTED DELIVERY

Show to whom and date delivered.

RESTRICTED DELIVERY.

Show to whom, date, and address of delivery \$ _____

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:

Mr. M. P. McArthur
Post Office Box 300
White Springs, FL 32096

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0158260	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE Addressee Authorized agent

Clarence Rogers

4. DATE OF DELIVERY
2-29-84

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK
WHITE SPRINGS
FEB 29 PM
1984
CLERK'S INITIALS
32096

☆GPO : 1979-300-459

No. 0158260

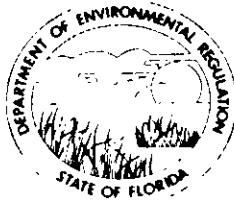
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO			
Mr. M. P. McArthur			
STREET AND NO.			
P.O., STATE AND ZIP CODE			
POSTAGE	\$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c	
	SPECIAL DELIVERY	c	
	RESTRICTED DELIVERY	c	
	OPTIONAL SERVICES	RETURN RECEIPT SERVICE	c
		SHOW TO WHOM AND DATE DELIVERED	c
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY	c
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c		
TOTAL POSTAGE AND FEES	\$		
POSTMARK OR DATE			
2/28/84			

PS Form 3800, Apr. 1976

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

February 22, 1984

CERTIFIED MAIL-RECEIPT REQUESTED

Mr. M. P. McArthur
Vice President and General Manager
Occidental Chemical Company
Post Office Box 300
White Springs, Florida 32096

Dear Mr. McArthur:

The department is in receipt of your request for a modification of your construction permit numbers: AC 24-56209, AC 24-56210, AC 24-56211, AC 24-56212, AC 24-56213, AC 24-56214, AC 24-56215.

This request is acceptable and the conditions are changed and added as follows:

Specific Conditions

The expiration date of the permits: AC 24-56209, AC 24-56210, AC 24-56211, AC 24-56212, AC 24-56213, AC 24-56214, and AC 24-56215 will be changed from January 30, 1984 to September 1, 1984.

The following paragraphs will be added to conditions No. 5, (boiler B), No. 6 (boiler C), No. 5 (boiler D), No. 4 (boiler E), and No. 4 (No. 2 DAP dryer) respectively.

Compliance with the SO₂ emission limit will be based upon the sulfur content of the fuel fired. Each shipment of fuel delivered to the facility will be sampled and the sulfur content determined and recorded. A certified analysis from the applicants fuel supplier may be substituted for on-site analysis. Applicable test methods by the American Society for Testing Material (A.S.T.M.) will be used.

The applicant shall prepare a procedure for department approval to prevent the unloading of No. 6 oil containing 1.5% sulfur into the tank(s) which contain No. 6 oil having a lower sulfur content. A record of the amount of 1.5% sulfur oil received will be kept by the applicant. The records shall be made available to the department upon request.

Mr. M. P. McArthur
Page Two
February 22, 1984


Method 6. Determination of Sulfur Dioxide Emissions from Stationary sources shall be requested by the department when deemed necessary.

Attachments:

Mr. W. W. Atwood's modification request letters of January 30, 1984, February 2, 1984, and February 6, 1984.

This letter and attachments must be attached to your permits, AC 24-56209, AC 24-56210, AC 24-56211, AC 24-56212, AC 24-56213, AC 24-56214, and AC 24-56215 and shall become a part of each permit.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/s

cc: John Koogler, Sholtes and Koogler
Environmental Consultants
Johnny Cole, Northeast District Office

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel, Secretary
FROM: Clair Fancy, Deputy Bureau Chief
DATE: February 22, 1984

RECEIVED
FEB 24 1984
Clair Fancy
Office of the Secretary

SUBJ: Approval and signature of a modification to the air construction permits, No. AC 24-56209 through AC 24-56215 for Occidental Chemical Company, issued on May 17, 1983, and modified on February 22, 1984.

Enclosed is a modification to the referenced air construction permits (AC 24-56209 through AC 24-56215). The bureau recommends approval.

TH/s



DER
FEB 09 1984
BAQM

OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

February 6, 1984

Mr. William Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Dear Bill:

Please refer to Dr. J. Koogler's letter of January 30, 1984, requesting extension of construction permit expiration date.

We inadvertently left off associated permits in the PSD approval which also had the January 30, 1984 date.

Therefore, please extend in a similar way the following permits to September 1, 1984.

Auxiliary Boiler B (AC-24-56212)
Auxiliary Boiler C (AC-24-56214)
Auxiliary Boiler D (AC-24-56213)
Auxiliary Boiler E (AC-24-56210)
DAP #2 (AC-24-56215)

In connection with compliance testing for the higher sulfur fuel oil allowed, Occidental requests that it be allowed to calculate the SO₂ emission based on a certificate of oil analysis instead of the costly stack sampling method imposed by 40 CFR 60 Appendix A.

It is my understanding that under certain circumstances this is allowable if approved 40CFR 60.8(b).

Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "W. W. Atwood".

W. W. Atwood
Manager, Environmental Control

WWA/psb
Attachment

cc: R. E. McNeill
W. M. Miller
Johnny Cole, DER
John Koogler, SKEC



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

February 2, 1984

DER

FEB 06 1984

BAQM

Mr. William Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Reference: Permit No. AC-24-56210 (Sulfuric Acid Plant E)
Permit No. AC-24-56209 (Sulfuric Acid Plant F)

Dear Bill:

This will confirm our telephone conversation of January 31, 1983, concerning Occidental's permitting and compliance monitoring plans for the "E" and "F" Sulfuric Acid plants at the Swift Creek Chemical Complex.

During the first half of 1983, we plan to increase catalyst loading to allow for production rates of about 2300 STPD of 100 percent sulfuric acid. Following this we will test for compliance with reference permits and submit operating permit applications to CAP.

In 1985, physical changes in the size of the economizer and the gas handling system are expected which will allow permitted throughput of 2500 STPD of 100 percent sulfuric acid on each facility.

We will keep you informed of our progress.

Sincerely,

A handwritten signature in cursive script that reads "Wes Atwood".

W. W. Atwood
Manager, Environmental Control

WWA/psb

cc: Mr. Greg DeMuth, FDER, Gainesville, FL
Mr. Johnny Cole, FDER, Jacksonville, FL
Mr. Rick Davis, OXY



SHOLTES & KOOGLER, ENVIRONMENTAL CONSULTANTS

1213 N.W. 6th Street Gainesville, Florida 32601 (904) 377-5822

Teresa

SKEC 102-75-06

January 30, 1984

Mr. Bill Thomas
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Subject: Hamilton County - AP
Occidental Chemical Company
AC24-56211 Sulfuric Acid Plant "E"
AC24-56209 Sulfuric Acid Plant "F"

DER

FEB 01 1984

BAQM

Dear Bill:

With reference to our telephone conversation of this date regarding the construction permits for the "E" and "F" sulfuric acid plants located at the Occidental Chemical Company Swift Creek Chemical Complex, Occidental requests that the expiration date of these two permits be extended from January 30, 1984 to September 1, 1984. This extension will provide Occidental with the time necessary to complete plant modifications and to conduct the necessary air pollutant emission compliance tests with the plants operating within 10 percent of the 2,500 tons per day permitted operating rate.

If there are further questions regarding this matter or if additional information is necessary for the extension to be granted, please contact me. Your cooperation in this matter is very much appreciated.

Very truly yours,

SHOLTES & KOOGLER,
ENVIRONMENTAL CONSULTANTS, INC.

John B. Koogler, Ph.D., P.E.

JBK:sc

cc: Mr. W. W. Atwood



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

JAN 9 1984

REF: 4AW-AM

Mr. M. P. McArthur
Vice President & General Manager
Occidental Chemical Company
P. O. Box 300
White Springs, Florida 32096

RE: PSD-FL-082, 083 Swift Creek and Suwannee River
Chemical Complexes

Dear Mr. McArthur:

This is to notify you that no petitions have been filed with the Administrator regarding the above issued Prevention of Significant Deterioration (PSD) permits which you received on November 14, 1983, for the modifications at the phosphate fertilizer complexes in White Springs, Florida. Therefore, in accordance with the provisions of the above permits, the effective dates are December 15, 1983. If construction does not commence within 18 months after this effective date, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time, these permits shall expire and authorization to construct shall become invalid.

Please direct any questions you may have to Mr. Jesse Baskerville, Acting Chief, Air Engineering Section of my staff at 404/881-7654.

Sincerely yours,

Richard A. Schultz for

James T. Wilburn, Chief
Air Management Branch
Air and Waste Management Division

cc. Mr. Clair Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental
Regulation

DER

JAN 12 1984

BAQM

~~Butt~~ →
Patty, Site see district



OCCIDENTAL CHEMICAL COMPANY, FLORIDA OPERATIONS, Post Office Box 300, White Springs, Florida 32096, Telephone 904 397-8101

July 5, 1983

DER

JUL 5 1983

BAQM

BY HAND DELIVERY THIS DATE

C. H. Fancy, P.E.
Deputy Bureau Chief
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Re: Surplus Solid Sulfur Storage Facility
Occidental Chemical Company
Swift Creek Chemical Complex
Hamilton County, Florida
Permit Application No. AC-24-61435

Dear Mr. Fancy:

This will respond to your request to M. P. McArthur of June 30, 1983, for additional information on Occidental Chemical Company's ("Occidental") modification of the above-referenced construction permit application to employ "in-situ" sulfur melters. Accordingly, the following responses are provided in reply to the Department of Environmental Regulation's ("Department") request for further information:

1. Department's Request: "A detailed description of the in-situ melter to be used at the facility is needed. This information should include melting rate of the in-situ melter, the number of melters required, the amount of steam required, and the source of the steam."

C. H. Fancy, P.E.
July 5, 1983
Page Two

Occidental's Response:

The in-situ melter is a direct contact type melter consisting of sulfur melting elements mounted on a mobile chassis with a hydraulically retractable tandem undercarriage. The melter element support mast has a hydraulic cylinder attached to the traveling sub-frame for raising and lowering the mast. The traveling sub-frame provides 10 feet of lateral movement to the mast and melter elements when actuated by a counterweight system which is connected by a cable take-up winch between the main frame of the mobile chassis and the traveling sub-frame. The melter is mounted on a hydraulic driven track vehicle that will propel forward and backward with steering capability. An electrically powered hydraulic control package is provided for all hydraulic operations. An electrical control panel to operate the winch and other electrical requirements is mounted on the chassis. (See attachment "1" for general assembly drawing and attachment "2" for a descriptive brochure.)

Molten sulfur from the block face is collected and drained through aluminum sulfur transfer tubes to a pump pit or launder system. Two melters will be required for a melting rate of 40 TPH.

Steam consumption is 225 lbs. per hour per ton of sulphur melted at a minimum of 75 psi. Electric power requirements are 50 KVA at 480 volts. The source of steam for the in-situ sulfur melter will be the existing Swift Creek Chemical Complex steam system. This existing steam system is fueled primarily from the burning of sulfur to produce sulfuric acid in two double absorption sulfuric acid plants.

2. Department's Request: "No estimate of emissions occurring during the operation of the in-situ melters was provided. An estimate of any criteria pollutant emissions must be made."

Occidental's Response:

The use of an in-situ melter to reclaim sulfur from the block will result in no air pollutant emissions other than those that have been addressed in the permit application amendments submitted to the Department on June 16, 1983.

C. H. Fancy, P.E.
July 5, 1983
Page Three

There will be no particulate matter emissions resulting from operation of the in-situ melter.

There will be some hydrogen sulfide emissions associated with the in-situ melting operation. In the materials submitted to the Department on April 20, 1983, it was conservatively estimated that the sulfur would contain 100 ppm of dissolved hydrogen sulfide and that all would be emitted to the atmosphere as the sulfur went through the block sulfur storage cycle. Under previously proposed conditions (stationary melter) a fraction of this total hydrogen sulfide emission would result from the operation of the stationary sulfur melter. Under presently proposed conditions (in-situ melter) that portion of the hydrogen sulfide originally associated with the stationary melter will be associated with the in-situ melter.

Since the calculation of hydrogen sulfide emissions previously submitted to the Department on April 20, 1983, assumes that all hydrogen sulfide contained in the sulfur will be released, the use of the in-situ melter will not affect the calculated hydrogen sulfide emissions. Likewise, the emissions of sulfur dioxide resulting from the in-situ melter will be the same as previously submitted to the Department since it was previously estimated that all of the sulfur dioxide associated with the sulfur passing through the solid sulfur storage facility would be released.

No other criteria pollutants will be generated as a result of the use of the in-situ melter just as no other criteria pollutants were generated during the use of a stationary melter.

3. Department's Request: "Preliminary calculations indicate that a four-inch increase in vat height would require 1,169 tons of sulfur. This conflicts with the limitation of 1,000 tons per day of sulfur poured to the vat".

Occidental's Response:

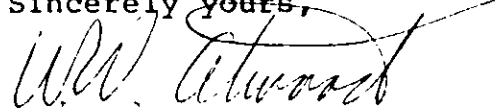
Subsections V-1 and V-3.1.1 of the attached revised Section V, SUPPLEMENTAL REQUIREMENTS OF CONSTRUCTION PERMIT APPLICATION SUBMITTED ON 10/13/83, as submitted to the Department on June 16, 1983, are hereby amended to increase the maximum daily pour rate from 1000 to 1500 TPD. This change in the daily sulfur pouring rate will have no effect on annual fugitive particulate matter emissions. The only change is the daily particulate matter emission rate. At a pouring rate of 1000 tons per day, the maximum

C. H. Fancy, P.E.
July 5, 1983
Page Four

daily particulate matter emission rate resulting from sulfur pouring would be 10.6 pounds per day. With a pour rate of 1500 tons per day, the daily fugitive particulate matter emission rate will be 15.9 pounds per day. The annual fugitive particulate matter emission rate associated with pouring will remain unchanged at 1.6 TPY because there will be no change in the annual tons of sulphur poured.

We trust that the foregoing adequately responds to the Department's request for additional information. We would be glad to discuss this or any further questions you may have and we are prepared to meet with you this week for that purpose, if needed.

Sincerely yours,



W. W. Atwood
Manager, Environmental Control

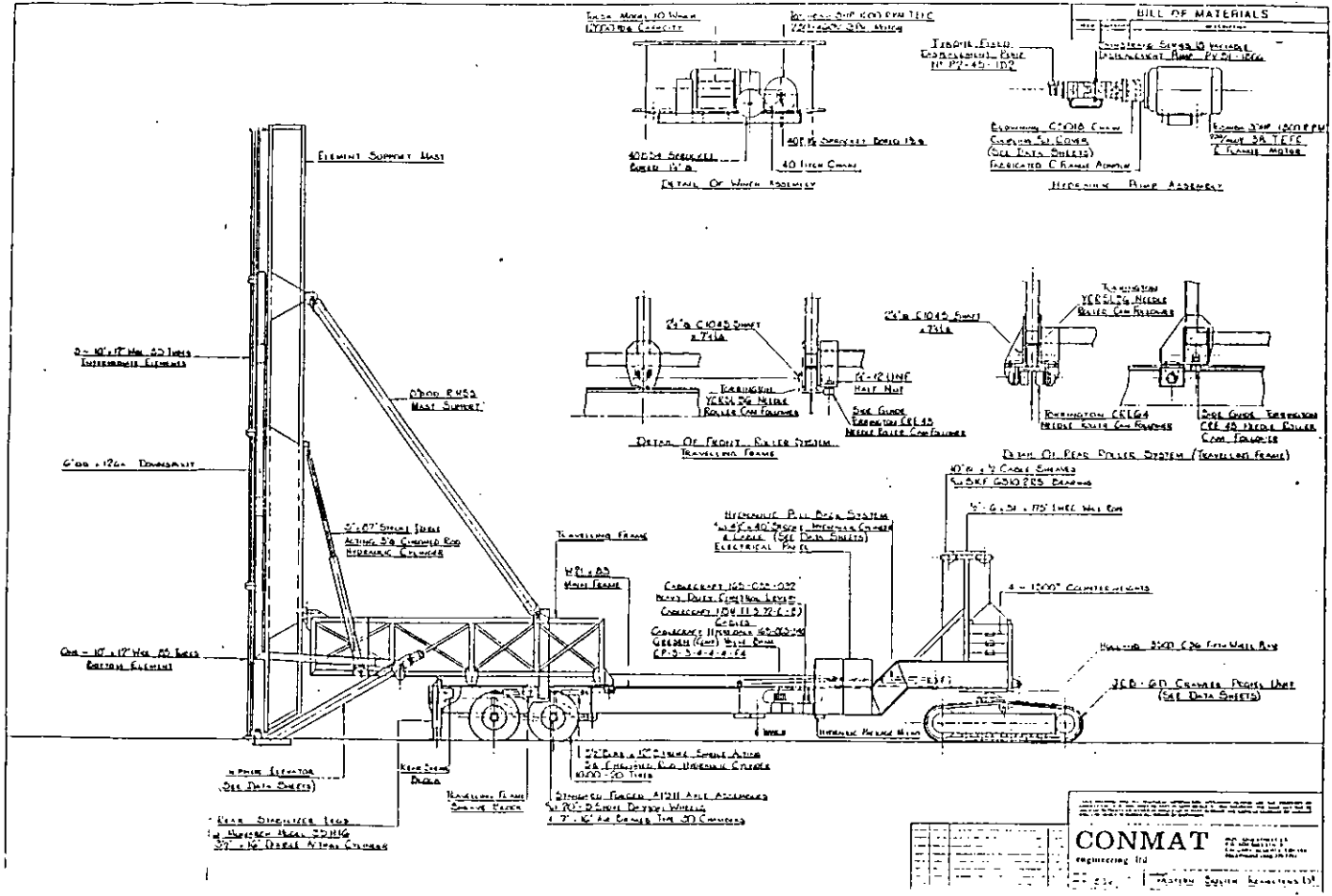
WWA/rf

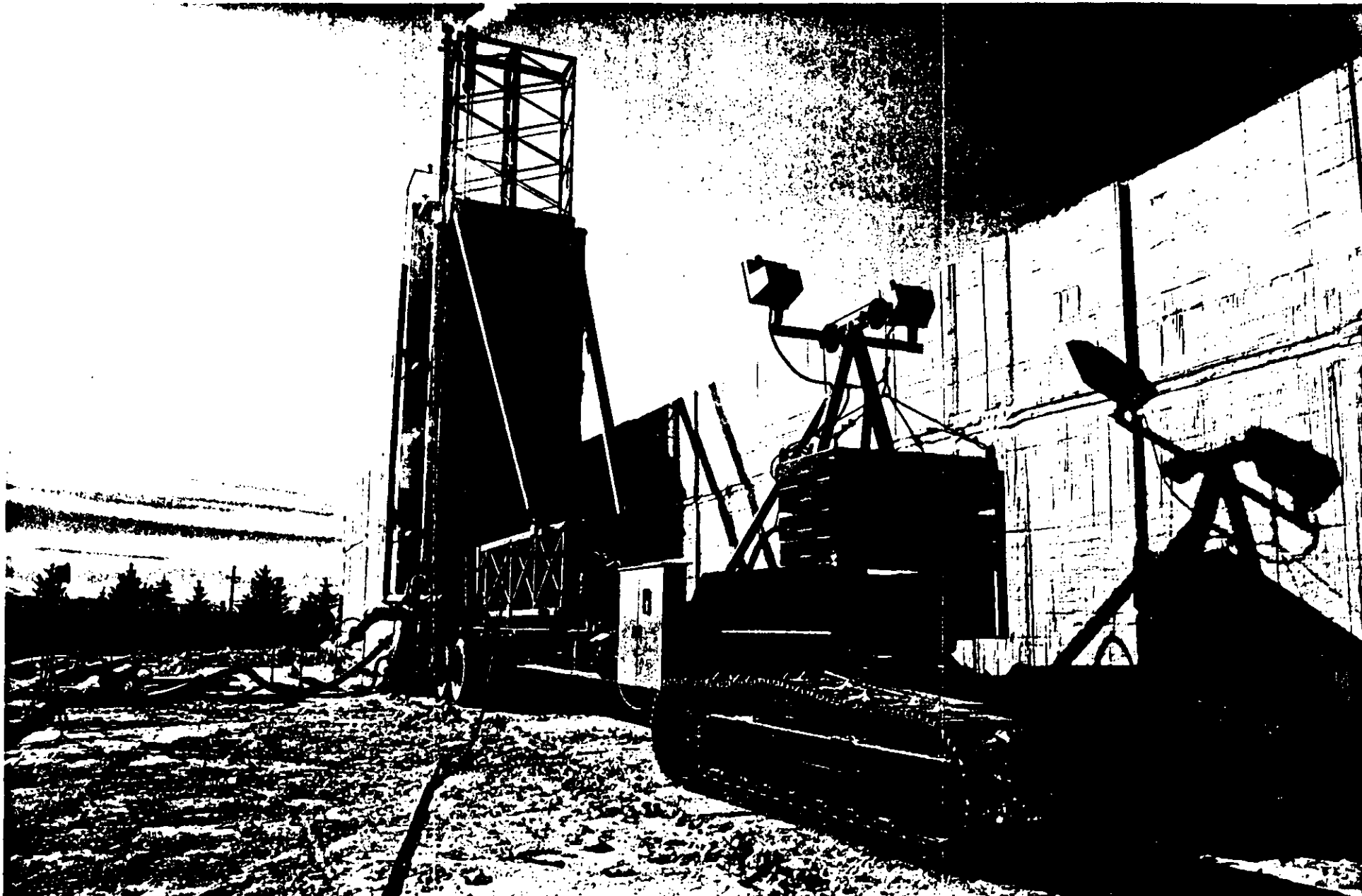
cc: J. D. Boone Kuersteiner, Esq.
Akerman, Senterfitt & Eidson

John B. Koogler, Ph.D.
Sholtes & Koogler

M. P. McArthur, Vice President
and General Manager
Occidental Chemical Company

ATTACHMENT





FEATURES:

- The new insitu sulfur remelting system for the reclamation of sulfur from block storage without dust, fuss or noise.
- Capable of recovering sulfur from storage blocks of heights up to fifty feet.
- Self-propelled on job site.
- Transportable to job site by normal highway tractor.
- Operation requires only one person.

BACKGROUND:

Ernie Ellithorpe has been in the sulfur handling, forming and transportation business since 1955 and has developed many bulk handling, forming and liquid systems over these years.

The most recent of these systems is the insitu remelter which has proven successful and environmentally acceptable. This patented Ellithorpe Sulfur Remelt System has been assigned to the firm of Western Sulfur Remelters Ltd. of Calgary

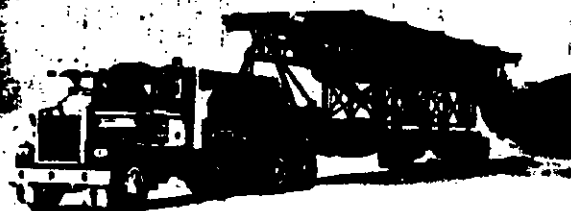
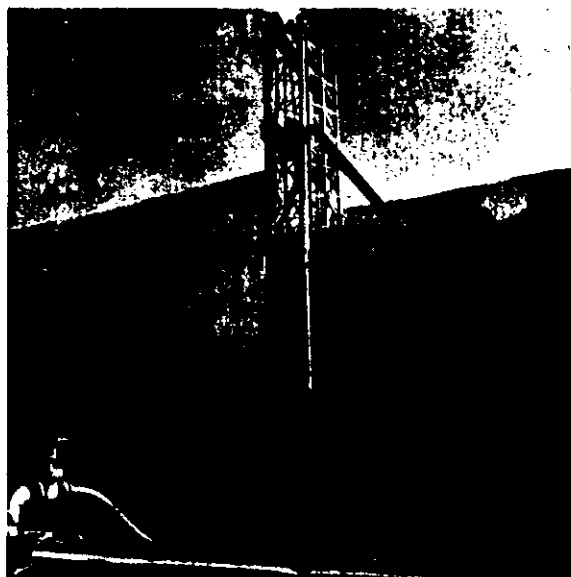
SPECIFICATIONS:

Melter can attain a reclamation rate of .84 long tons per hour, per foot of block height in normally clean sulfur. e.g. — Block height of 40 feet would produce 33.6 long tons per hr.

Steam requirements are approximately 225 lbs. per ton of sulfur melted.

Electrical requirements are 50 K.V.A. to operate the mechanical, hydraulic, lights, and automatic controls.

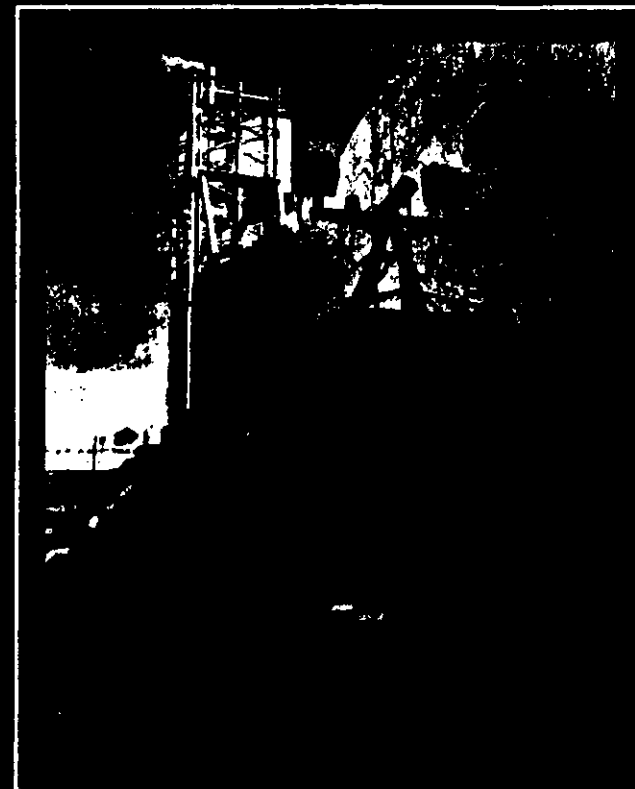
Minimal training program is required for personnel. Usually one person per shift is adequate.



WESTERN SULFUR REMELTERS LTD.

#8, 1935-30th AVE. N.E.
CALGARY, ALBERTA
T2E 6Z5

PHONE: (403) 230-1707



“WESURE”

**WESTERN
SULFUR
REMELTERS
LTD.**

SECTION V, SUPPLEMENTAL REQUIREMENTS
OF CONSTRUCTION PERMIT APPLICATION
SUBMITTED ON 10/13/82

1. Section V-1 as Amended 6/16/83 and
7/5/83
2. Section V-3 as Amended 11/17/82,
2/4/83, 4/20/83, 6/16/83 and
7/5/83

SECTION V - SUPPLEMENTAL REQUIREMENTS

V-1. Use Rate

Sulfur will be pumped to the surplus solid sulfur storage area from existing molten sulfur storage facilities at a maximum rate of 270 tons per hour (600 gal/min). This sulfur will be poured to form a solid block with a maximum capacity of 150,000 tons. The maximum quantity of sulfur poured to block during a 24-hour period will be 1,500 tons.

Sulfur will be reclaimed from the block with an in situ melter and delivered to existing molten sulfur facilities at a maximum rate of 40 tons per hour (960 tons/day).

V-3.1.1 Conditions

1. Maximum annual rate that sulfur is poured to block will be 300,000 tons per year.
2. Maximum pouring rate to the sulfur block will be 270 tons per hour or 1500 tons per day.

3. Average wind speed at Occidental is 7 miles per hour (10.1 fps).

Note: The change in the daily pouring rate does not affect the emission rates calculated in subsequent Sections.