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DAMES & MOORE

CONSULTANTS IN THE ENVIRONMENTAL AND APPLIED EARTH SCIENCES

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CABLE: DAMEMORE TWX: 810-751-8218

July 9, 1980

USS Agri-Chemicals
Post Office Box 150
Bartow, Florida 33830

Attention: Mr. Basil Powell

Re: Additional Evaluations
Related to PSD Permit
Application for
Fort Meade Phosphate
Chemical Complex Modification

Gentlemen:

As requested, attached are additional evaluations related to the PSD Permit Application for the Fort Meade Phosphate Chemical Complex modification project. The first evaluation pertains to the change in fluoride emissions resulting from the recent decision to delete a new GTSP plant and a modified GTSP storage building from the project. The second evaluation provides an ambient impact analysis assessing the effect of maximum hourly SO_2 emission rate differences between the existing sulfuric acid plant and the proposed new sulfuric acid plant.

Should you have any questions concerning these evaluations, please call.

Yours truly,

DAMES & MOORE

James W. Little, for

T. M. Gurr
Associate

James W. Little

James W. Little
Senior Air Quality Analyst

TMG:JWL:ht

Attachments

ASSESSMENT OF FLUORIDE EMISSION CHANGES RESULTING FROM DELETION OF NEW GTSP PLANT AND GTSP STORAGE BUILDING MODIFICATION

Deletion of the new GTSP plant and modified GTSP storage building will mean that emissions of fluorides from process facilities (specifically, from the phosphoric acid plant replacement) will increase slightly by about 3 tons/year rather than decrease by 21 tons/year. Depending on how TRW calculates increased fugitive fluoride emissions from the cooling pond expansion, the potential increase in fluorides from the overall project may be more than 50 tons/year.

An actual fluoride emissions increase above 50 tons/year would require a Best Available Control Technology (BACT) review but would not require an impact analysis review since there are no PSD increments or ambient air quality standards for fluorides. A BACT analysis for the new phosphoric acid plant has already been presented in the original PSD permit application where it is shown that the new phosphoric acid plant will meet New Source Performance Standards for fluorides. Comments regarding control of fluoride emissions from the cooling pond expansion are also presented in the PSD permit application (page 6-4).

BACT for fluorides from cooling ponds has not been definitively established, but EPA and TRW have assumed that water surface area is directly related to fugitive fluoride emissions. Therefore, your intention to design the cooling pond expansion to be no larger than required for cooling and storage needs should be credited as consistent with EPA/TRW's present philosophy on cooling pond BACT. The total surface area of the expanded cooling pond (presently expected to be about 123 acres) is certainly not excessive in comparsion with industry practice for similarly sized facilities, and this fact should also be viewed as consistent with BACT concepts. Finally, the planned increase in fluoride recovery through increased fluosilicic acid production should also be credited toward control of fluoride emissions from the cooling pond.

SULFUR DIOXIDE AMBIENT AIR QUALITY
IMPACT ANALYSIS: COMPARISON OF EXISTING
AND PROPOSED NEW SULFURIC ACID PLANTS
AT USS AGRI-CHEMICALS' FORT MEADE
(FLORIDA) PHOSPAHTE CHEMICAL COMPLEX

1. INTRODUCTION

USS Agri-Chemicals (USSAC) is proposing to replace an existing sulfuric acid plant at its Fort Meade Phosphate Chemical Complex with a new sulfuric acid plant. This new plant will have a greater production capacity than the existing plant, but at the same time will be able to achieve a much lower sulfur dioxide (SO_2) emission rate on a pounds per ton basis. In fact, annual average SO_2 emissions from the new plant are expected to be less than those from the existing plant even though sulfuric acid production will substantially increase.

On a short-term basis, however, SO_2 emissions from the new plant can exceed those from the existing plant. At its permitted production rate of 1500 tons per day (100 percent H_2SO_4), the existing plant is allowed to emit and frequently does emit SO_2 at the rate of 10 pounds per ton (lb/ton), which is equivalent to a rate of 625 pounds per hour (lb/h) or 15,000 pounds per day (lb/d). In comparison, the new plant is expected to be able to achieve a daily production rate of up to 4400 tons. At the maximum allowable SO_2 emission rate of 4 lb/ton, maximum short-term SO_2 emissions from the new plant would be 733 lb/h and 17,600 lb/d. The primary purpose of this analysis is to assess whether or not this difference in short-term emissions might result in a significant change in ambient ground-level SO_2 concentrations.

2. ANALYSIS PROCEDURES

Model

EPA's CRSTER model was used to assess 3-hour, 24-hour, and annual average SO_2 concentrations.

Emissions Characteristics

Specific emission source characteristics for the old and new sulfuric acid plants as used for modeling purposes are listed in Attachment A (a copy from one of the modeling run printouts). The SO_2 emission rate for the existing plant was treated as a negative number since this plant will be replaced by the new plant.

The only difference between these characteristics and those listed in Table 4-1 of the original permit application is that the temperature of the existing plant as used for modeling purposes is 98°F (310 K) rather than 87°F. This slight temperature change was made to ensure that stack exit temperature would never be lower than ambient temperatures. Making this change actually increases the conservatism of the analysis since it results in slightly lower concentrations attributable to the existing plant, thereby providing a greater chance for new plant concentrations to exceed existing plant concentrations.

For modeling purposes, the existing and new plant stacks were treated as though located at the same point. In reality, the new plant will be located about 200 to 300 meters southeast of the existing plant, but this distance is slight enough to be ignored.

It should also be noted that the two-stack configuration of the new plant was treated as one stack. This was done in the typical conservative fashion of assuming all SO_2 emissions are emitted at one point with a volumetric flow and velocity equal to that of one of the identical individual stacks.

Meteorological Input

The meteorological observation station normally used for central Florida modeling studies is Tampa. Following this normal practice, Tampa surface and upper air data were used for the present analysis. Although several years of Tampa data are available in the correct format for the CRSTER Model, only a single year was used. The year 1972 was selected because of the high 24-hour concentrations typically resulting from use of this data set. As will be evident when modeling results are presented, use of this single year of data is easily

sufficient to show that shutting down the existing plant will offset the effect of the new plant in comparsion with PSD increments.

Receptor Grid

A point midway between the locations of the existing sulfuric acid plant and the proposed new plant was selected as the point from which SO_2 emissions originate. This point is at least 0.6 km from the nearest USSAC property line (State Road 630 to the north), and in most directions is even further away from the boundaries of USSAC-owned property. Therefore, the receptor distances evaluated through the CRSTER Model began at 0.6 km and continued outward. (The CRSTER Model establishes a polar coordinate receptor grid so that it is only necessary to specify radial distances and calculations are automatically made at ten-degree direction increments for each distance selected.)

The following distances were evaluated using the entire year of meteorological data: 0.6, 1.0, 2.0, 3.0, 4.0, 6.0, 12.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0, and 50.0 km. Based on the results obtained from these initial calculations, specific days were selected for additional evaluations using a smaller grid spacing. The days and receptor separation distances evaluated are shown in the attached computer printouts.

3. MODELING RESULTS

Modeling results are summarized in Table 1. Highest 3-hour, 24-hour, and annual average SO_2 concentrations are listed in comparison with PSD Class II increments, Florida ambient air quality standards (which are more restrictive than the national standards), and EPA significance levels. (Concentrations lower than these defined significance levels are considered to be inconsequential.) As can be seen, not only are the highest concentrations predicted well below the PSD Class II increments, they are also well below the significance levels. This result is attributable to the better dispersion characteristics of the new plant (taller stacks and higher exit temperature) which compensate for the greater maximum hourly emission rate.

TABLE 1

SO_2 Modeling Results

Averaging Period	Highest Predicted Concentration (µg/m3)	Distance and Direction to Highest Concentration	PSD Class II Increment ($\mu g/m^3$)	Florida Ambient Standards ($\mu g/m^3$)	EPA Significance Level ($\mu g/m^3$)
3-Hour	3[a]	3.0 km, 340°	512	1300	25
24-Hour	< 1	1.0 km, 90°	91	260	5
Annual	< 0[b]	50.0 km, 10°	20	60	1

[a] This is the highest concentration excluding one period containing two consecutive hours with calm winds.

[b] The highest annual concentration is actually a negative number, representing a decrease in concentrations. Annual concentrations are based on continuous emissions at the maximum hourly rate.

The conclusion is reached, therefore, that replacement of the existing sulfuric acid plant should not result in adverse ambient air quality effects. PSD Class II increments should not be consumed to a significant extent, and SO_2 ambient air quality standards in this designated attainment area should not be threatened as a result of the proposed project.

4. OTHER CONSIDERATIONS

GEP Stack Height

The height of the new sulfuric acid plant stacks, 175 ft, will not exceed Good Engineering Practice stack height guidelines.

Effect on PSD Class I Areas

As stated in the original permit application, the nearest PSD Class I area is located 125 km away. This large separation distance combined with the offsetting effects of shutting down the existing plant should ensure that the proposed new sulfuric acid plant will not adversely affect the nearest Class I area.

Effect on Nonattainment Areas

The nearest designated SO_2 nonattainment is in Pinellas County, approximately 80 km away. This large separation distance combined with the offsetting effects of shutting down the existing plant should ensure that the proposed new sulfuric acid plant will not contribute to a condition of nonattainment in the nearest designated SO_2 nonattainment area.

Effect on Visibility, Vegetation, and Soils

Since the predicted highest concentration differences resulting from replacement of the existing plant by the proposed new plant are below the EPA levels of significance, it is expected that the proposed change in SO_2 emissions will not have a significant impact on present conditions affecting visibility, vegetation, and soils.

Effect on Associated Growth

Since the operational labor force required for the proposed modification is only about 15 employees more than is required at present, the air quality effects of associated population, commercial, and industrial growth should be negligible.

ATTACHMENT A

Emission Source Characteristics Used in all Modeling Runs

STACK # 1--OLD SO2 STACK
STACK # 2--NEW SO2 STACK

STACK	MONTH	EMISSION RATE (GMS/SEC)	HEIGHT (METERS)	DIAMETER (METERS)	EXIT VELOCITY (M/SEC)	TEMP (DEG.K)	VOLUMETRIC FLOW (M**3/SEC)
1	ALL	-78.7500	29.00	3.02	6.77	310.00	48.49
2	ALL	92.3600	53.30	2.59	9.45	355.00	49.79

ATTACHMENT B

Concentrations at Distances of 0.6, 1.0, 2.0, 4.0, and 12.0 km
Using Entire 1972 Meteorolgoical Data Set

Note: 24-hour concentrations of 4.1667 E-32 and 3-hour concentrations of 1.0000 E-30 are presumed to represent negative concentrations which have been set to these values by initializing statements in the CRSTER Model.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM MEAN CONC= -1.1547E-07 DIRECTION= 1 DISTANCE= 12.0 KM

ANNUAL MEAN CONCENTRATION AT EACH RECEPTOR

RANGE / DIR	.6 KM	1.0 KM	2.0 KM	4.0 KM	12.0 KM
1	-1.10542E-05	-7.77197E-06	-2.94133E-06	-8.95733E-07	-1.15470E-07
2	-1.46742E-05	-1.03298E-05	-3.93054E-06	-1.25532E-06	-1.98908E-07
3	-1.24830E-05	-8.11257E-06	-3.13668E-06	-1.10965E-06	-2.00033E-07
4	-9.90308E-06	-5.96867E-06	-2.49501E-06	-1.04164E-06	-2.05925E-07
5	-1.16780E-05	-6.67876E-06	-2.82968E-06	-1.27302E-06	-2.93225E-07
6	-1.40093E-05	-7.68884E-06	-2.80865E-06	-1.02109E-06	-1.91637E-07
7	-1.53911E-05	-8.68870E-06	-2.99980E-06	-1.00457E-06	-1.88987E-07
8	-2.09687E-05	-1.16222E-05	-3.67459E-06	-1.02566E-06	-1.38505E-07
9	-3.42884E-05	-2.10838E-05	-6.93821E-06	-1.96792E-06	-2.61061E-07
10	-2.34083E-05	-1.42342E-05	-4.78774E-06	-1.43625E-06	-2.24421E-07
11	-1.30885E-05	-9.40348E-06	-3.86834E-06	-1.34680E-06	-2.01020E-07
12	-9.31209E-06	-6.87312E-06	-3.22213E-06	-1.43340E-06	-2.82924E-07
13	-9.58068E-06	-7.58986E-06	-3.64509E-06	-1.58522E-06	-3.25117E-07
14	-8.67399E-06	-7.52583E-06	-3.90528E-06	-2.08881E-06	-5.91310E-07
15	-8.27493E-06	-7.66021E-06	-3.78493E-06	-1.54615E-06	-2.81247E-07
16	-7.42289E-06	-6.22478E-06	-2.82652E-06	-1.21546E-06	-2.58991E-07
17	-7.20656E-06	-5.65697E-06	-2.51092E-06	-1.09590E-06	-2.61473E-07
18	-7.58701E-06	-6.44791E-06	-3.17323E-06	-1.43442E-06	-3.34403E-07
19	-5.81166E-06	-4.80295E-06	-2.35876E-06	-1.08393E-06	-2.54282E-07
20	-5.72867E-06	-4.46657E-06	-2.22037E-06	-1.00097E-06	-2.09963E-07
21	-8.36406E-06	-6.88062E-06	-3.56591E-06	-1.89453E-06	-5.51526E-07
22	-1.16052E-05	-9.43266E-06	-4.43107E-06	-1.82323E-06	-3.91715E-07
23	-1.50103E-05	-1.30771E-05	-7.06495E-06	-3.65920E-06	-9.33540E-07
24	-1.68126E-05	-1.45578E-05	-7.89537E-06	-3.93650E-06	-9.46232E-07
25	-1.78138E-05	-1.50033E-05	-8.70667E-06	-5.02639E-06	-1.41723E-06
26	-1.96873E-05	-1.65320E-05	-9.16150E-06	-4.63878E-06	-1.11971E-06
27	-2.61885E-05	-2.27847E-05	-1.25240E-05	-6.13369E-06	-1.38436E-06
28	-2.08464E-05	-1.67132E-05	-8.19345E-06	-3.97323E-06	-9.80295E-07
29	-1.57892E-05	-1.22523E-05	-6.39000E-06	-3.28791E-06	-8.50878E-07
30	-1.43464E-05	-1.06056E-05	-5.40110E-06	-3.06494E-06	-8.65826E-07
31	-1.25796E-05	-9.70860E-06	-4.78671E-06	-2.18875E-06	-5.15405E-07
32	-1.16940E-05	-8.79881E-06	-3.74055E-06	-1.34271E-06	-2.47835E-07
33	-1.22111E-05	-9.06788E-06	-4.25415E-06	-1.90688E-06	-4.31577E-07
34	-1.02747E-05	-7.66862E-06	-3.22892E-06	-1.24575E-06	-2.63563E-07
35	-7.25032E-06	-5.60549E-06	-2.53656E-06	-9.92435E-07	-1.77595E-07
36	-9.91598E-06	-7.84184E-06	-3.43708E-06	-1.26375E-06	-2.18088E-07

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.5751E-07 DIRECTION= 9 DISTANCE= 1.0 KM DAY=249

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE .6 KM	1.0 KM	2.0 KM	4.0 KM	12.0 KM
1	4.1667E-32 (6)	1.0753E-07 (215)	5.2191E-08 (215)	4.9553E-08 (233)	4.8874E-08 (143)
2	4.1667E-32 (1)	2.3252E-07 (215)	1.2980E-07 (215)	6.8928E-08 (215)	1.5404E-07 (237)
3	4.1667E-32 (1)	9.7767E-08 (241)	2.6331E-08 (241)	7.1846E-08 (205)	1.3901E-07 (237)
4	4.1667E-32 (1)	1.9784E-07 (241)	7.1022E-08 (241)	9.5140E-08 (150)	3.2640E-08 (237)
5	4.1667E-32 (1)	2.4011E-09 (248)	8.1338E-08 (241)	1.1342E-07 (150)	4.6776E-08 (261)
6	4.1667E-32 (1)	2.0984E-08 (248)	1.1502E-07 (215)	1.5622E-07 (216)	6.5695E-08 (244)
7	4.1667E-32 (1)	9.1052E-08 (248)	7.3394E-08 (215)	1.1630E-07 (216)	3.6355E-08 (78)
8	4.1667E-32 (1)	1.8752E-07 (248)	1.3798E-07 (248)	9.6519E-08 (195)	3.6415E-08 (53)
9	4.1667E-32 (1)	2.5751E-07 (249)	1.1164E-07 (248)	1.2315E-07 (195)	7.3483E-08 (46)
10	4.1667E-32 (1)	2.3665E-07 (189)	6.9779E-08 (189)	1.2660E-07 (87)	4.7159E-08 (87)
11	4.1667E-32 (1)	1.0963E-07 (189)	5.4455E-08 (87)	3.2143E-08 (87)	3.8896E-08 (96)
12	4.1667E-32 (1)	2.7029E-08 (150)	9.7408E-09 (87)	3.7419E-08 (112)	9.0301E-08 (184)
13	4.1667E-32 (1)	2.4551E-09 (150)	6.8074E-10 (87)	1.1327E-07 (182)	4.4795E-08 (182)
14	4.1667E-32 (1)	6.5083E-10 (247)	5.1894E-11 (247)	6.4337E-08 (194)	3.5312E-08 (208)
15	8.1251E-32 (3)	4.1667E-32 (1)	9.1201E-10 (247)	5.8791E-08 (194)	2.5405E-08 (194)
16	5.4064E-32 (304)	4.0937E-11 (163)	1.1569E-09 (247)	4.7446E-08 (189)	1.1943E-07 (48)
17	7.5937E-32 (73)	9.5234E-10 (163)	8.1939E-11 (163)	6.5331E-08 (45)	8.3112E-08 (245)
18	6.1800E-32 (290)	1.0284E-08 (163)	2.6490E-11 (265)	1.1385E-07 (245)	4.9315E-08 (245)
19	8.3333E-32 (72)	4.5719E-08 (163)	7.4300E-09 (263)	6.8235E-08 (252)	5.8084E-08 (208)
20	4.1667E-32 (1)	1.7060E-07 (163)	4.0329E-08 (163)	8.2430E-08 (252)	1.9772E-08 (193)
21	8.3084E-32 (215)	4.1667E-32 (1)	4.7816E-08 (163)	9.2082E-08 (189)	2.4883E-08 (359)
22	7.5015E-32 (119)	5.6569E-08 (186)	1.5704E-08 (158)	8.3797E-08 (283)	6.0149E-08 (363)
23	8.3333E-32 (78)	1.5726E-07 (186)	8.2974E-08 (186)	1.3909E-07 (283)	5.1370E-08 (283)
24	8.3333E-32 (75)	8.2016E-08 (248)	2.1806E-08 (248)	1.5150E-07 (237)	4.8484E-08 (237)
25	8.3333E-32 (75)	8.3333E-32 (75)	8.3333E-32 (75)	9.6259E-08 (363)	4.1879E-08 (363)
26	1.1096E-31 (215)	8.3333E-32 (75)	2.6479E-11 (214)	8.7529E-08 (323)	5.8262E-08 (323)
27	8.3333E-32 (211)	8.3333E-32 (211)	8.3333E-32 (211)	3.1747E-10 (64)	4.6778E-08 (141)
28	4.1667E-32 (2)	4.1667E-32 (2)	8.3333E-32 (98)	3.3382E-08 (253)	3.5232E-08 (237)
29	4.1667E-32 (5)	4.1667E-32 (5)	2.0419E-10 (158)	4.8339E-08 (248)	3.9044E-08 (253)
30	4.1667E-32 (6)	4.1667E-32 (6)	3.0600E-09 (186)	6.2801E-08 (248)	1.1458E-07 (291)
31	8.3309E-32 (290)	1.4462E-11 (156)	9.0461E-13 (156)	4.5277E-08 (73)	4.5035E-08 (241)
32	4.1667E-32 (6)	4.1667E-32 (6)	2.0230E-16 (267)	5.3898E-08 (231)	3.6493E-08 (231)
33	8.3333E-32 (194)	8.3333E-32 (194)	4.1074E-16 (154)	1.0503E-07 (314)	6.8065E-08 (206)
34	4.1667E-32 (6)	4.1667E-32 (6)	1.8889E-09 (196)	7.0332E-08 (314)	9.2772E-08 (210)
35	4.1667E-32 (6)	4.1667E-32 (6)	4.1667E-32 (6)	5.6760E-08 (54)	3.9191E-08 (78)
36	4.1667E-32 (6)	1.5913E-08 (215)	9.1138E-09 (215)	5.2853E-08 (29)	4.4532E-08 (135)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 24-HOUR CONC= 2.5379E-07 DIRECTION= 9 DISTANCE= 1.0 KM DAY=189

SECOND HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE .6 KM		1.0 KM		2.0 KM		4.0 KM		12.0 KM	
1	4.1667E-32	(7)	2.2506E-09	(241)	3.0114E-10	(241)	4.8109E-08	(206)	4.1214E-08	(237)
2	4.1667E-32	(6)	2.1092E-08	(241)	4.2600E-09	(241)	5.9162E-08	(210)	3.8925E-08	(124)
3	4.1667E-32	(6)	2.6900E-09	(229)	1.0273E-08	(112)	6.4362E-08	(209)	3.7804E-08	(45)
4	4.1667E-32	(6)	1.3652E-10	(248)	2.5420E-08	(112)	9.4958E-08	(195)	2.9447E-08	(162)
5	4.1667E-32	(6)	3.0824E-10	(189)	2.9068E-08	(224)	7.7962E-08	(216)	3.6300E-08	(210)
6	4.1667E-32	(6)	5.7834E-09	(222)	2.8707E-08	(224)	9.5157E-08	(194)	6.3318E-08	(216)
7	4.1667E-32	(6)	3.5817E-08	(189)	5.5517E-08	(248)	1.0354E-07	(259)	3.6210E-08	(298)
8	4.1667E-32	(2)	1.3525E-07	(189)	6.9517E-08	(249)	9.3246E-08	(259)	2.7767E-08	(234)
9	4.1667E-32	(2)	2.5379E-07	(189)	1.0707E-07	(249)	8.1506E-08	(238)	5.3964E-08	(137)
10	4.1667E-32	(2)	4.1667E-32	(1)	5.5039E-08	(150)	1.0768E-07	(195)	3.3074E-08	(222)
11	4.1667E-32	(2)	5.6851E-08	(150)	2.8067E-08	(189)	2.7085E-08	(314)	2.3925E-08	(222)
12	4.1667E-32	(2)	2.1468E-08	(189)	4.8901E-09	(189)	7.2172E-09	(222)	5.6470E-08	(250)
13	4.1667E-32	(2)	1.6630E-09	(87)	6.7514E-10	(222)	4.7066E-08	(23)	3.6461E-08	(245)
14	4.1667E-32	(3)	1.2007E-10	(87)	4.2175E-11	(222)	3.7012E-08	(182)	3.1906E-08	(194)
15	4.1667E-32	(1)	4.1667E-32	(3)	4.1667E-32	(1)	4.8778E-08	(189)	1.6563E-08	(26)
16	4.1667E-32	(1)	4.1667E-32	(1)	1.9742E-12	(163)	3.7784E-08	(240)	1.6007E-08	(245)
17	4.1667E-32	(1)	4.1667E-32	(1)	1.9331E-13	(265)	5.0990E-08	(216)	3.4079E-08	(45)
18	4.1667E-32	(1)	4.1667E-32	(1)	1.7468E-15	(158)	8.4680E-08	(247)	4.1938E-08	(208)
19	8.3296E-32	(55)	3.0153E-11	(186)	7.9920E-10	(265)	5.8731E-08	(247)	2.9058E-08	(231)
20	4.1667E-32	(3)	7.5228E-10	(186)	4.2833E-09	(265)	5.6308E-08	(189)	1.8200E-08	(205)
21	6.9290E-32	(150)	4.1667E-32	(2)	2.8272E-09	(158)	5.8691E-08	(359)	2.3677E-08	(288)
22	6.9290E-32	(195)	4.1667E-32	(1)	4.1667E-32	(1)	5.9319E-08	(265)	2.8056E-08	(283)
23	8.3269E-32	(355)	2.3460E-08	(248)	1.0393E-09	(248)	4.6469E-08	(52)	2.4056E-08	(52)
24	4.1667E-32	(2)	8.3333E-32	(75)	8.3333E-32	(75)	1.0381E-07	(283)	3.6116E-08	(283)
25	8.3084E-32	(215)	4.1667E-32	(2)	8.3333E-32	(216)	6.5432E-09	(185)	3.7467E-08	(186)
26	8.3333E-32	(75)	8.3333E-32	(215)	8.3333E-32	(75)	7.5076E-08	(237)	3.8629E-08	(363)
27	4.1667E-32	(2)	4.1667E-32	(2)	4.1667E-32	(2)	5.2316E-11	(291)	1.0079E-08	(363)
28	4.1667E-32	(5)	4.1667E-32	(5)	4.1667E-32	(2)	2.3560E-09	(291)	2.1544E-08	(253)
29	4.1667E-32	(6)	4.1667E-32	(6)	4.9651E-11	(217)	3.3762E-08	(251)	2.5666E-08	(198)
30	4.1667E-32	(7)	4.1667E-32	(7)	2.7527E-11	(156)	4.8561E-08	(251)	8.7801E-08	(185)
31	4.1667E-32	(6)	4.1667E-32	(6)	1.6467E-13	(267)	3.4496E-08	(240)	3.9906E-08	(216)
32	4.1667E-32	(7)	4.1667E-32	(7)	4.1667E-32	(6)	5.3880E-08	(314)	3.1482E-08	(75)
33	6.5493E-32	(363)	4.1667E-32	(6)	8.3333E-32	(194)	1.0210E-07	(229)	4.1783E-08	(314)
34	4.1667E-32	(7)	4.1667E-32	(7)	4.1667E-32	(6)	5.9613E-08	(218)	5.2884E-08	(103)
35	4.1667E-32	(7)	4.1667E-32	(7)	4.1667E-32	(7)	5.3016E-08	(238)	2.3506E-08	(87)
36	4.1667E-32	(7)	2.2276E-09	(248)	2.1952E-09	(111)	5.1906E-08	(87)	3.1041E-08	(259)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 2.4641E-06 DIRECTION= 22 DISTANCE= 1.0 KM DAY=189 TIME PERIOD= 5

DIR	RANGE	HIGHEST .6 KM	3-HOUR CONCENTRATION AT EACH RECEPTOR 1.0 KM	2.0 KM	4.0 KM	12.0 KM
1	1.0000E-30	(1, 1)	8.6025E-07 (215, 4)	4.1753E-07 (215, 4)	4.0117E-07 (196, 4)	4.7383E-07 (143, 3)
2	1.0000E-30	(1, 1)	1.8602E-06 (215, 4)	1.0384E-06 (215, 4)	5.5143E-07 (215, 4)	1.2186E-06 (237, 6)
3	1.0000E-30	(1, 1)	2.0285E-06 (215, 4)	1.1361E-06 (215, 4)	6.1061E-07 (215, 4)	6.0052E-07 (237, 4)
4	1.0000E-30	(1, 1)	1.8130E-06 (241, 5)	6.2790E-07 (215, 4)	7.0544E-07 (124, 3)	2.9211E-07 (124, 3)
5	1.0000E-30	(1, 1)	1.7675E-06 (241, 5)	1.3203E-06 (206, 4)	6.9397E-07 (206, 4)	2.5878E-07 (244, 4)
6	1.0000E-30	(1, 1)	1.9752E-06 (215, 4)	1.5582E-06 (206, 4)	1.0121E-06 (216, 3)	5.2556E-07 (244, 4)
7	1.0000E-30	(1, 1)	1.9375E-06 (229, 4)	8.6676E-07 (215, 4)	5.8092E-07 (299, 4)	2.7637E-07 (78, 4)
8	1.0000E-30	(1, 1)	1.5734E-06 (248, 4)	1.1042E-06 (248, 4)	6.2934E-07 (53, 4)	2.2714E-07 (290, 4)
9	1.0000E-30	(1, 1)	2.1595E-06 (87, 4)	1.5142E-06 (87, 4)	1.2366E-06 (207, 4)	5.8786E-07 (46, 5)
10	1.0000E-30	(1, 1)	1.8932E-06 (189, 4)	1.2832E-06 (87, 4)	7.8188E-07 (242, 4)	2.8703E-07 (303, 4)
11	1.0000E-30	(1, 1)	8.7723E-07 (189, 4)	5.9638E-07 (222, 4)	4.1638E-07 (195, 4)	3.3186E-07 (96, 3)
12	1.0000E-30	(1, 1)	2.1623E-07 (150, 5)	1.7999E-07 (222, 4)	4.1828E-07 (112, 4)	7.2241E-07 (184, 4)
13	1.0000E-30	(1, 1)	2.7847E-08 (150, 5)	1.5564E-08 (222, 4)	9.0617E-07 (182, 3)	3.5836E-07 (182, 3)
14	1.0000E-30	(1, 1)	5.7570E-09 (247, 5)	2.4935E-07 (184, 4)	5.6043E-07 (194, 3)	2.8249E-07 (208, 6)
15	1.0000E-30	(1, 1)	7.1374E-08 (247, 5)	7.3128E-08 (184, 4)	4.7033E-07 (194, 3)	2.0324E-07 (194, 3)
16	1.0000E-30	(1, 1)	4.3972E-07 (247, 5)	7.0955E-08 (247, 5)	4.9012E-07 (216, 4)	7.8707E-07 (48, 6)
17	1.0000E-30	(1, 1)	1.3462E-06 (247, 5)	2.6687E-07 (247, 5)	1.2779E-06 (245, 3)	4.9261E-07 (245, 3)
18	1.0000E-30	(1, 1)	2.0480E-06 (247, 5)	4.3858E-07 (247, 5)	1.0725E-06 (245, 3)	3.9056E-07 (245, 3)
19	1.0000E-30	(1, 1)	1.7618E-06 (189, 5)	3.5019E-07 (189, 5)	4.5350E-07 (19, 4)	2.3672E-06 (236, 6)
20	1.0000E-30	(1, 1)	2.3910E-06 (189, 5)	4.8078E-07 (189, 5)	3.9630E-07 (205, 4)	7.9001E-07 (236, 6)
21	1.0000E-30	(1, 1)	2.4504E-06 (189, 5)	5.2214E-07 (189, 5)	4.9573E-07 (264, 4)	6.6774E-07 (245, 3)
22	1.0000E-30	(1, 1)	2.4641E-06 (189, 5)	6.0721E-07 (189, 5)	6.7038E-07 (283, 4)	4.8119E-07 (363, 4)
23	1.0000E-30	(1, 1)	1.7813E-06 (189, 5)	6.7227E-07 (186, 4)	1.1127E-06 (283, 4)	4.1096E-07 (283, 4)
24	1.0000E-30	(1, 1)	2.1313E-06 (186, 4)	1.1048E-06 (186, 4)	1.2120E-06 (237, 4)	3.9888E-07 (284, 3)
25	1.0000E-30	(1, 2)	1.9593E-06 (247, 5)	7.9180E-07 (186, 4)	2.0506E-06 (237, 4)	7.7825E-07 (237, 4)
26	1.0000E-30	(1, 5)	1.9375E-06 (248, 5)	6.1279E-07 (248, 5)	7.3392E-07 (323, 3)	4.6475E-07 (323, 3)
27	1.0000E-30	(1, 5)	1.0325E-06 (248, 5)	2.9087E-07 (248, 5)	7.0615E-07 (208, 5)	3.7456E-07 (141, 3)
28	1.0000E-30	(1, 5)	1.1862E-06 (163, 4)	5.8578E-07 (163, 4)	5.0779E-07 (230, 3)	3.7665E-07 (231, 3)
29	1.0000E-30	(1, 8)	1.8049E-06 (163, 4)	9.6268E-07 (163, 4)	8.7982E-07 (185, 4)	4.2127E-07 (283, 3)
30	1.0000E-30	(1, 1)	1.3645E-06 (163, 4)	6.9127E-07 (163, 4)	1.7167E-06 (185, 4)	7.1111E-07 (185, 4)
31	1.0000E-30	(1, 1)	5.1259E-07 (163, 4)	2.1689E-07 (163, 4)	1.0272E-06 (185, 4)	3.5005E-07 (185, 4)
32	1.0000E-30	(1, 1)	1.7921E-07 (248, 4)	1.0715E-06 (248, 4)	6.0956E-07 (248, 4)	2.9195E-07 (231, 4)
33	1.0000E-30	(1, 1)	1.7557E-06 (248, 4)	9.4544E-07 (248, 4)	8.2783E-07 (229, 4)	5.4982E-07 (206, 3)
34	1.0000E-30	(1, 1)	7.7812E-07 (248, 4)	3.5028E-07 (248, 4)	2.1390E-06 (236, 4)	8.2890E-07 (236, 4)
35	1.0000E-30	(1, 1)	1.6713E-07 (248, 4)	5.6669E-08 (248, 4)	4.7385E-07 (54, 4)	5.1679E-07 (236, 4)
36	1.0000E-30	(1, 1)	1.2731E-07 (215, 4)	7.2911E-08 (215, 4)	4.5750E-07 (309, 4)	6.0460E-07 (236, 4)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 3-HOUR CONC= 2.1591E-06 DIRECTION= 9 DISTANCE= 1.0 KM DAY=249 TIME PERIOD= 4

DIR	RANGE	SECOND HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR .6 KM	1.0 KM	2.0 KM	4.0 KM	12.0 KM
1	1.0000E-30 (1, 2)	1.8005E-08 (241, 5)	7.8360E-08 (211, 4)	3.9643E-07 (233, 4)	3.2971E-07 (237, 6)
2	1.0000E-30 (1, 2)	1.6875E-07 (241, 5)	1.1102E-07 (211, 4)	4.7598E-07 (210, 5)	3.1140E-07 (124, 3)
3	1.0000E-30 (1, 2)	7.8594E-07 (241, 5)	2.1065E-07 (241, 5)	5.8199E-07 (205, 4)	5.1155E-07 (237, 6)
4	1.0000E-30 (1, 2)	1.3354E-06 (215, 4)	5.6892E-07 (241, 5)	5.8175E-07 (102, 5)	2.3473E-07 (162, 3)
5	1.0000E-30 (1, 2)	1.5061E-06 (206, 4)	6.7033E-07 (241, 5)	6.6917E-07 (261, 5)	2.5768E-07 (233, 4)
6	1.0000E-30 (1, 2)	1.8067E-06 (229, 4)	9.5121E-07 (215, 4)	8.4607E-07 (206, 4)	4.6828E-07 (216, 3)
7	1.0000E-30 (1, 2)	1.8097E-06 (215, 4)	8.0344E-07 (206, 4)	5.5827E-07 (78, 4)	2.2470E-07 (24, 5)
8	1.0000E-30 (1, 2)	1.5220E-06 (249, 4)	7.8079E-07 (87, 4)	6.2112E-07 (207, 4)	2.1410E-07 (248, 4)
9	1.0000E-30 (1, 2)	2.1591E-06 (249, 4)	1.1995E-06 (248, 4)	1.1201E-06 (124, 4)	4.6105E-07 (207, 4)
10	1.0000E-30 (1, 2)	1.8777E-06 (87, 4)	9.1295E-07 (222, 4)	7.1205E-07 (124, 4)	2.8012E-07 (181, 3)
11	1.0000E-30 (1, 2)	8.1127E-07 (87, 4)	4.7511E-07 (87, 4)	3.6670E-07 (193, 4)	1.4805E-07 (184, 4)
12	1.0000E-30 (1, 2)	2.0199E-07 (189, 4)	7.6864E-08 (87, 4)	4.1191E-07 (245, 4)	4.7371E-07 (250, 4)
13	1.0000E-30 (1, 2)	2.3112E-08 (189, 4)	5.4335E-09 (87, 4)	4.0244E-07 (184, 4)	3.4459E-07 (184, 4)
14	1.0000E-30 (1, 2)	1.7025E-09 (150, 5)	4.1842E-10 (247, 5)	4.7211E-07 (102, 4)	2.5634E-07 (194, 3)
15	1.0000E-30 (1, 2)	1.0000E-30 (1, 1)	8.2430E-09 (247, 5)	3.9023E-07 (189, 5)	1.4938E-07 (362, 5)
16	1.0000E-30 (1, 2)	2.0250E-08 (184, 4)	5.8104E-09 (184, 4)	3.9047E-07 (189, 5)	2.2944E-07 (216, 4)
17	1.0000E-30 (1, 2)	7.6187E-09 (163, 4)	1.0114E-07 (263, 5)	6.0038E-07 (148, 3)	2.7144E-07 (45, 5)
18	1.0000E-30 (1, 2)	8.8074E-08 (163, 4)	2.1322E-07 (263, 5)	5.0620E-07 (193, 3)	3.3551E-07 (208, 5)
19	1.0000E-30 (1, 2)	1.5483E-06 (247, 5)	3.1493E-07 (247, 5)	3.5161E-07 (231, 4)	4.6467E-07 (208, 5)
20	1.0000E-30 (1, 2)	1.3649E-06 (163, 4)	3.2467E-07 (163, 4)	3.6153E-07 (252, 5)	1.5679E-07 (322, 3)
21	1.0000E-30 (1, 2)	1.1041E-07 (247, 5)	3.8261E-07 (163, 4)	4.9524E-07 (189, 4)	1.9907E-07 (359, 4)
22	1.0000E-30 (1, 2)	4.5967E-07 (186, 4)	1.7874E-07 (186, 4)	4.9974E-07 (189, 4)	2.2445E-07 (283, 4)
23	1.0000E-30 (1, 2)	1.4072E-06 (186, 4)	4.4167E-07 (189, 5)	5.2613E-07 (158, 5)	1.8126E-07 (163, 4)
24	1.0000E-30 (1, 2)	9.8835E-07 (247, 5)	4.0095E-07 (156, 4)	8.3051E-07 (283, 4)	3.8787E-07 (237, 4)
25	1.0000E-30 (1, 4)	1.8066E-06 (248, 5)	6.9314E-07 (156, 4)	7.7106E-07 (363, 4)	4.1789E-07 (235, 3)
26	1.0000E-30 (1, 6)	5.8619E-07 (247, 5)	4.6254E-07 (247, 5)	7.0615E-07 (208, 5)	3.0903E-07 (363, 4)
27	1.0000E-30 (1, 6)	3.5511E-07 (163, 4)	1.5523E-07 (163, 4)	5.7599E-07 (247, 4)	2.8997E-07 (323, 3)
28	1.0000E-30 (1, 7)	2.7344E-07 (248, 5)	1.9524E-07 (185, 4)	3.9970E-07 (247, 5)	3.4753E-07 (230, 4)
29	1.0000E-30 (2, 1)	3.5984E-08 (248, 5)	9.5745E-08 (154, 4)	7.0207E-07 (283, 3)	3.4857E-07 (234, 3)
30	1.0000E-30 (2, 1)	2.3532E-09 (248, 5)	7.1161E-08 (212, 5)	6.1255E-07 (241, 4)	5.5328E-07 (291, 4)
31	1.0000E-30 (1, 2)	1.1569E-10 (156, 4)	2.0218E-07 (212, 5)	5.7948E-07 (241, 4)	3.1925E-07 (216, 3)
32	1.0000E-30 (1, 2)	9.5692E-08 (163, 4)	3.3687E-07 (185, 4)	4.8929E-07 (229, 4)	2.7084E-07 (234, 4)
33	1.0000E-30 (1, 2)	8.8771E-09 (163, 4)	7.6749E-08 (186, 4)	7.5458E-07 (236, 4)	3.0123E-07 (218, 3)
34	1.0000E-30 (1, 2)	4.0922E-10 (163, 4)	4.2260E-08 (186, 4)	4.7690E-07 (218, 3)	6.9121E-07 (210, 3)
35	1.0000E-30 (1, 2)	1.0000E-30 (1, 1)	5.2351E-09 (186, 4)	4.2417E-07 (238, 4)	3.1353E-07 (78, 4)
36	1.0000E-30 (1, 2)	1.7832E-08 (248, 4)	1.9753E-08 (111, 5)	4.2647E-07 (135, 3)	4.7383E-07 (143, 3)

ATTACHMENT C

Concentrations at Distances of 3.0, 6.0, 15.0, 20.0, and 25.0 km
Using Entire 1972 Meteorological Data Set

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM MEAN CONC= -2.9060E-08 DIRECTION= 1 DISTANCE= 25.0 KM

ANNUAL MEAN CONCENTRATION AT EACH RECEPTOR

DIR \ RANGE	3.0 KM	6.0 KM	15.0 KM	20.0 KM	25.0 KM
1	-1.48482E-06	-4.28374E-07	-7.53402E-08	-4.36503E-08	-2.90598E-08
2	-2.02334E-06	-6.39973E-07	-1.35861E-07	-8.37117E-08	-5.80183E-08
3	-1.71103E-06	-6.00876E-07	-1.38348E-07	-8.64185E-08	-6.03063E-08
4	-1.50699E-06	-6.00240E-07	-1.41404E-07	-8.68955E-08	-5.96974E-08
5	-1.78153E-06	-7.74205E-07	-2.08397E-07	-1.34225E-07	-9.55128E-08
6	-1.55597E-06	-5.58626E-07	-1.35216E-07	-8.68542E-08	-6.24348E-08
7	-1.56830E-06	-5.46357E-07	-1.32489E-07	-8.42090E-08	-5.93372E-08
8	-1.74245E-06	-4.87365E-07	-9.31609E-08	-5.68413E-08	-3.93695E-08
9	-3.31836E-06	-9.39211E-07	-1.72470E-07	-1.01663E-07	-6.82819E-08
10	-2.36106E-06	-7.20764E-07	-1.54451E-07	-9.63104E-08	-6.76043E-08
11	-2.11494E-06	-6.87884E-07	-1.34138E-07	-8.02434E-08	-5.47071E-08
12	-2.03619E-06	-8.31539E-07	-1.94517E-07	-1.19885E-07	-8.28587E-08
13	-2.26734E-06	-9.25597E-07	-2.25635E-07	-1.40890E-07	-9.80789E-08
14	-2.71352E-06	-1.40127E-06	-4.28190E-07	-2.80182E-07	-2.00450E-07
15	-2.27930E-06	-8.59571E-07	-1.91797E-07	-1.16839E-07	-8.03500E-08
16	-1.72701E-06	-7.24185E-07	-1.79031E-07	-1.10791E-07	-7.62778E-08
17	-1.54011E-06	-6.73105E-07	-1.87024E-07	-1.21480E-07	-8.67394E-08
18	-2.00672E-06	-8.72049E-07	-2.40088E-07	-1.57519E-07	-1.14068E-07
19	-1.50229E-06	-6.70645E-07	-1.79044E-07	-1.13013E-07	-7.89136E-08
20	-1.41368E-06	-5.91433E-07	-1.46148E-07	-9.15255E-08	-6.39548E-08
21	-2.46230E-06	-1.28032E-06	-4.02562E-07	-2.66794E-07	-1.92760E-07
22	-2.65215E-06	-1.06227E-06	-2.79130E-07	-1.81001E-07	-1.29980E-07
23	-4.86354E-06	-2.35432E-06	-6.65179E-07	-4.27743E-07	-3.02607E-07
24	-5.34023E-06	-2.45623E-06	-6.74421E-07	-4.35613E-07	-3.11047E-07
25	-6.42198E-06	-3.38081E-06	-1.02698E-06	-6.76077E-07	-4.87211E-07
26	-6.26427E-06	-2.90478E-06	-7.96952E-07	-5.12576E-07	-3.64248E-07
27	-8.41495E-06	-3.74330E-06	-9.74235E-07	-6.18986E-07	-4.37096E-07
28	-5.39460E-06	-2.50571E-06	-6.99014E-07	-4.51265E-07	-3.20720E-07
29	-4.38583E-06	-2.10825E-06	-6.16476E-07	-4.06662E-07	-2.95276E-07
30	-3.90869E-06	-2.07130E-06	-6.25165E-07	-4.09241E-07	-2.93125E-07
31	-3.05246E-06	-1.34031E-06	-3.67169E-07	-2.36094E-07	-1.67700E-07
32	-2.06799E-06	-7.27055E-07	-1.73721E-07	-1.10188E-07	-7.78038E-08
33	-2.67768E-06	-1.15082E-06	-3.06404E-07	-1.96694E-07	-1.39564E-07
34	-1.84982E-06	-7.12698E-07	-1.89736E-07	-1.25425E-07	-9.16650E-08
35	-1.48529E-06	-5.44392E-07	-1.21541E-07	-7.45988E-08	-5.14759E-08
36	-1.93655E-06	-6.74960E-07	-1.50684E-07	-9.45823E-08	-6.70230E-08

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.2376E-07 DIRECTION= 3 DISTANCE= 6.0 KM DAY=237

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	3.0 KM	6.0 KM	15.0 KM	20.0 KM	25.0 KM
1	5.9935E-08 (187)	3.4566E-08 (206)	4.1166E-08 (143)	3.2179E-08 (143)	2.6190E-08 (143)
2	8.9646E-08 (215)	4.9039E-08 (162)	1.2917E-07 (237)	9.9015E-08 (237)	8.0445E-08 (237)
3	8.0115E-08 (209)	2.2376E-07 (237)	1.1172E-07 (237)	8.3951E-08 (237)	6.7161E-08 (237)
4	1.1867E-07 (150)	6.9734E-08 (237)	2.4850E-08 (237)	1.8720E-08 (195)	1.5421E-08 (195)
5	1.0146E-07 (102)	8.2520E-08 (261)	3.8026E-08 (261)	2.9079E-08 (261)	2.3649E-08 (261)
6	1.1569E-07 (194)	1.2185E-07 (216)	5.4528E-08 (244)	4.1982E-08 (244)	3.4246E-08 (244)
7	1.3639E-07 (259)	7.6044E-08 (298)	2.9652E-08 (78)	2.2874E-08 (78)	1.8760E-08 (78)
8	1.3333E-07 (195)	5.9193E-08 (53)	2.8329E-08 (53)	2.0284E-08 (53)	1.5777E-08 (53)
9	1.6461E-07 (195)	9.8483E-08 (46)	6.0008E-08 (46)	4.6232E-08 (46)	3.7775E-08 (46)
10	1.2973E-07 (195)	9.2105E-08 (87)	3.7733E-08 (87)	3.4197E-08 (183)	3.3224E-08 (183)
11	4.6094E-08 (87)	4.0477E-08 (222)	3.3956E-08 (96)	2.6708E-08 (96)	2.1983E-08 (96)
12	1.7789E-08 (112)	9.7082E-08 (184)	7.4527E-08 (184)	5.7937E-08 (184)	4.7680E-08 (184)
13	5.9097E-08 (23)	8.4169E-08 (182)	3.6581E-08 (182)	2.8183E-08 (182)	2.3027E-08 (182)
14	3.9132E-08 (198)	5.8391E-08 (194)	3.0046E-08 (208)	2.3014E-08 (208)	1.8666E-08 (208)
15	5.0797E-08 (198)	4.9517E-08 (194)	2.0410E-08 (194)	1.5354E-08 (194)	1.2285E-08 (194)
16	4.4269E-08 (240)	2.1635E-07 (48)	9.7545E-08 (48)	7.5075E-08 (48)	6.1267E-08 (48)
17	3.5210E-08 (283)	6.1954E-08 (45)	6.9360E-08 (245)	5.3377E-08 (245)	4.3437E-08 (245)
18	6.7778E-08 (247)	9.3374E-08 (245)	3.9583E-08 (245)	2.9717E-08 (245)	2.3743E-08 (245)
19	8.5858E-08 (252)	5.1229E-08 (231)	4.7641E-08 (208)	3.6394E-08 (208)	2.9500E-08 (208)
20	8.0594E-08 (252)	4.7182E-08 (252)	1.7164E-08 (260)	1.3912E-08 (260)	1.9129E-08 (236)
21	1.1325E-07 (189)	5.3101E-08 (189)	2.1454E-08 (250)	1.6997E-08 (250)	1.3957E-08 (250)
22	8.2056E-08 (283)	1.0265E-07 (363)	4.9119E-08 (363)	3.7842E-08 (363)	3.0920E-08 (363)
23	1.3176E-07 (283)	9.8223E-08 (283)	4.1735E-08 (283)	3.1953E-08 (283)	2.5990E-08 (283)
24	1.8509E-07 (237)	1.0017E-07 (237)	3.8157E-08 (237)	2.7870E-08 (237)	2.1738E-08 (237)
25	5.5488E-08 (363)	7.6239E-08 (363)	3.4459E-08 (363)	2.6846E-08 (363)	2.2151E-08 (363)
26	9.5843E-08 (237)	1.1324E-07 (323)	4.6849E-08 (323)	3.5325E-08 (323)	2.8345E-08 (323)
27	7.4231E-11 (64)	8.3577E-08 (141)	3.8405E-08 (141)	2.9803E-08 (141)	2.4498E-08 (141)
28	2.2724E-13 (52)	4.0913E-08 (253)	2.9005E-08 (237)	2.2351E-08 (237)	1.8263E-08 (237)
29	2.3278E-08 (248)	5.5140E-08 (253)	3.2101E-08 (253)	2.4657E-08 (253)	2.0058E-08 (253)
30	5.3872E-08 (251)	5.2946E-08 (248)	9.4458E-08 (291)	7.3026E-08 (291)	5.9806E-08 (291)
31	5.7020E-08 (73)	4.4551E-08 (241)	3.7297E-08 (241)	2.8743E-08 (241)	2.3466E-08 (241)
32	5.3637E-08 (315)	6.6779E-08 (231)	2.9754E-08 (231)	2.2860E-08 (231)	1.8625E-08 (231)
33	1.0991E-07 (229)	7.9807E-08 (314)	5.5928E-08 (206)	4.3295E-08 (206)	3.5461E-08 (206)
34	6.6433E-08 (314)	6.8325E-08 (210)	7.5454E-08 (210)	5.7607E-08 (210)	4.6715E-08 (210)
35	5.8293E-08 (238)	3.7945E-08 (87)	3.3730E-08 (78)	2.6073E-08 (78)	2.1303E-08 (78)
36	5.2957E-08 (224)	7.8132E-08 (135)	3.6642E-08 (135)	2.8440E-08 (135)	2.3356E-08 (135)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 24-HOUR CONC= 1.2873E-07 DIRECTION= 7 DISTANCE= 3.0 KM DAY=209

SECOND HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE 3.0 KM	6.0 KM	15.0 KM	20.0 KM	25.0 KM
1	5.9818E-08 (233)	3.4406E-08 (233)	3.3709E-08 (237)	2.3874E-08 (237)	1.8123E-08 (237)
2	6.0026E-08 (210)	4.7565E-08 (215)	3.1806E-08 (124)	2.4547E-08 (124)	2.0103E-08 (124)
3	5.6692E-08 (187)	6.3256E-08 (205)	3.1630E-08 (45)	2.4615E-08 (45)	2.0136E-08 (45)
4	1.1168E-07 (195)	6.1465E-08 (195)	2.4059E-08 (195)	1.8268E-08 (245)	1.5114E-08 (245)
5	9.3912E-08 (218)	7.1674E-08 (150)	3.0326E-08 (210)	2.3400E-08 (210)	1.8977E-08 (210)
6	1.0595E-07 (299)	5.3890E-08 (299)	5.1880E-08 (216)	4.0182E-08 (216)	3.2982E-08 (216)
7	1.2873E-07 (209)	6.8550E-08 (216)	2.9148E-08 (298)	2.2067E-08 (298)	1.7876E-08 (298)
8	1.2604E-07 (185)	5.6773E-08 (216)	2.2465E-08 (234)	1.6753E-08 (234)	1.3539E-08 (248)
9	1.0098E-07 (248)	6.7417E-08 (137)	4.6817E-08 (87)	3.9944E-08 (87)	3.4169E-08 (87)
10	1.1985E-07 (87)	5.9826E-08 (195)	2.5839E-08 (183)	2.8296E-08 (87)	2.2611E-08 (87)
11	3.3943E-08 (314)	3.9863E-08 (195)	1.8597E-08 (195)	1.3553E-08 (195)	1.0632E-08 (195)
12	5.1494E-09 (87)	6.7114E-08 (250)	4.7578E-08 (250)	3.7676E-08 (250)	3.1291E-08 (250)
13	3.5931E-08 (225)	3.2617E-08 (245)	3.0709E-08 (245)	2.3742E-08 (245)	1.9126E-08 (245)
14	2.4813E-08 (23)	2.4933E-08 (182)	2.6070E-08 (194)	2.0056E-08 (194)	1.6348E-08 (194)
15	2.7664E-08 (189)	3.1467E-08 (189)	1.4763E-08 (26)	1.0575E-08 (26)	7.9781E-09 (47)
16	2.3715E-08 (189)	3.1211E-08 (189)	1.2541E-08 (245)	8.7058E-09 (216)	9.7138E-09 (216)
17	3.1932E-08 (193)	5.9449E-08 (245)	2.8008E-08 (45)	2.1770E-08 (45)	1.7921E-08 (45)
18	5.9315E-08 (157)	7.1250E-08 (208)	3.4008E-08 (208)	2.5911E-08 (208)	2.0982E-08 (208)
19	4.8767E-08 (206)	3.8701E-08 (208)	2.3692E-08 (231)	1.8202E-08 (231)	1.4830E-08 (231)
20	4.8767E-08 (206)	3.9473E-08 (189)	1.6035E-08 (193)	1.1711E-08 (193)	1.1335E-08 (260)
21	7.0864E-08 (265)	4.6699E-08 (359)	2.0288E-08 (359)	1.5587E-08 (359)	1.2700E-08 (359)
22	6.9093E-08 (265)	5.8327E-08 (283)	2.2426E-08 (189)	1.7885E-08 (189)	1.4820E-08 (189)
23	5.5732E-08 (186)	4.4799E-08 (52)	1.9425E-08 (52)	1.4695E-08 (52)	1.1824E-08 (52)
24	1.0593E-07 (283)	7.1278E-08 (283)	2.8962E-08 (283)	2.1747E-08 (283)	1.7384E-08 (283)
25	9.3984E-09 (185)	4.4402E-08 (314)	3.2033E-08 (186)	2.4400E-08 (186)	1.9582E-08 (186)
26	3.8062E-08 (185)	5.0665E-08 (363)	3.0772E-08 (363)	2.2902E-08 (363)	1.8183E-08 (363)
27	5.8881E-11 (52)	8.8261E-09 (117)	1.1056E-08 (337)	1.1135E-08 (337)	1.5358E-08 (323)
28	1.3143E-18 (289)	8.3272E-09 (291)	1.7129E-08 (253)	1.3604E-08 (363)	1.7585E-08 (363)
29	1.6373E-08 (251)	4.3540E-08 (27)	2.0785E-08 (231)	1.6127E-08 (231)	1.2920E-08 (231)
30	3.5373E-08 (248)	3.5078E-08 (251)	8.1279E-08 (185)	6.7619E-08 (185)	5.7204E-08 (185)
31	1.7827E-08 (24)	2.5427E-08 (240)	3.2435E-08 (216)	2.4783E-08 (216)	2.0101E-08 (216)
32	5.2723E-08 (240)	4.0362E-08 (314)	2.6350E-08 (75)	2.0343E-08 (75)	1.6627E-08 (75)
33	9.3665E-08 (314)	6.9857E-08 (218)	3.3847E-08 (314)	2.5768E-08 (314)	2.0831E-08 (314)
34	5.8780E-08 (240)	5.1372E-08 (314)	4.3646E-08 (103)	3.6223E-08 (147)	3.0637E-08 (147)
35	4.8449E-08 (139)	3.7938E-08 (238)	2.0276E-08 (307)	1.6367E-08 (307)	1.3469E-08 (307)
36	5.2348E-08 (87)	3.8090E-08 (87)	2.6695E-08 (259)	2.0788E-08 (259)	1.7086E-08 (259)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 4.1699E-06 DIRECTION= 19 DISTANCE= 6.0 KM DAY=236 TIME PERIOD= 6

RANGE DIR	HIGHEST 3.0 KM	3-HOUR CONCENTRATION AT EACH RECEPTOR 6.0 KM	15.0 KM	20.0 KM	25.0 KM
1	4.7856E-07 (233, 4)	2.7653E-07 (206, 4)	3.7704E-07 (143, 3)	2.8008E-07 (143, 3)	2.2187E-07 (143, 3)
2	7.1717E-07 (215, 4)	4.0003E-07 (162, 4)	1.0242E-06 (237, 6)	7.8681E-07 (237, 6)	6.4016E-07 (237, 6)
3	7.8954E-07 (215, 4)	1.0626E-06 (237, 4)	4.8738E-07 (237, 4)	3.7225E-07 (237, 4)	3.0192E-07 (237, 4)
4	7.7856E-07 (102, 5)	5.3448E-07 (124, 3)	2.4081E-07 (124, 3)	1.8796E-07 (124, 3)	1.5524E-07 (124, 3)
5	9.0677E-07 (206, 4)	4.8178E-07 (216, 3)	2.1430E-07 (233, 4)	1.6676E-07 (233, 4)	1.4656E-07 (98, 3)
6	1.0896E-06 (206, 4)	8.6132E-07 (216, 3)	4.3623E-07 (244, 4)	3.3586E-07 (244, 4)	2.7397E-07 (244, 4)
7	6.6116E-07 (259, 4)	5.0460E-07 (78, 4)	2.2733E-07 (78, 4)	1.7688E-07 (78, 4)	1.4569E-07 (78, 4)
8	7.6575E-07 (207, 4)	4.0477E-07 (248, 4)	1.8418E-07 (290, 4)	1.3865E-07 (290, 4)	1.1202E-07 (290, 4)
9	1.3674E-06 (207, 4)	8.6081E-07 (207, 4)	4.8007E-07 (46, 5)	3.6986E-07 (46, 5)	3.0220E-07 (46, 5)
10	1.0074E-06 (242, 4)	5.3505E-07 (181, 3)	2.3630E-07 (303, 4)	1.8351E-07 (303, 4)	1.5092E-07 (303, 4)
11	5.1230E-07 (222, 4)	2.9844E-07 (184, 4)	2.8104E-07 (96, 3)	2.6484E-07 (183, 3)	2.3026E-07 (183, 3)
12	3.7458E-07 (112, 4)	7.7685E-07 (184, 4)	5.9622E-07 (184, 4)	4.6350E-07 (184, 4)	3.8144E-07 (184, 4)
13	4.7279E-07 (23, 5)	6.7335E-07 (182, 3)	2.9265E-07 (182, 3)	2.2546E-07 (182, 3)	1.8422E-07 (182, 3)
14	4.7079E-07 (282, 4)	4.8078E-07 (194, 3)	2.4037E-07 (208, 6)	1.8411E-07 (208, 6)	1.4933E-07 (208, 6)
15	4.2183E-07 (240, 5)	3.9613E-07 (194, 3)	1.6328E-07 (194, 3)	1.2283E-07 (194, 3)	1.0370E-07 (303, 3)
16	3.5813E-07 (240, 5)	1.3903E-06 (48, 6)	6.4652E-07 (48, 6)	5.0129E-07 (48, 6)	4.1152E-07 (48, 6)
17	6.3642E-07 (245, 3)	9.2802E-07 (245, 3)	4.0164E-07 (245, 3)	3.0857E-07 (245, 3)	2.5142E-07 (245, 3)
18	5.4031E-07 (245, 3)	7.6463E-07 (245, 3)	3.1378E-07 (245, 3)	2.3605E-07 (245, 3)	1.8886E-07 (245, 3)
19	3.9014E-07 (206, 4)	4.1699E-06 (236, 6)	1.9260E-06 (236, 6)	1.4766E-06 (236, 6)	1.2018E-06 (236, 6)
20	4.6753E-07 (252, 5)	1.5456E-06 (236, 6)	6.1797E-07 (236, 6)	4.4915E-07 (236, 6)	3.4996E-07 (236, 6)
21	5.8172E-07 (189, 4)	9.6478E-07 (245, 3)	5.4800E-07 (245, 3)	4.2514E-07 (245, 3)	3.4942E-07 (245, 3)
22	6.5645E-07 (283, 4)	8.2123E-07 (363, 4)	3.9295E-07 (363, 4)	3.0274E-07 (363, 4)	2.4736E-07 (363, 4)
23	1.0541E-06 (283, 4)	7.8578E-07 (283, 4)	3.3388E-07 (283, 4)	2.5562E-07 (283, 4)	2.0792E-07 (283, 4)
24	1.4807E-06 (237, 4)	8.0137E-07 (237, 4)	3.2539E-07 (284, 3)	2.4896E-07 (284, 3)	2.0227E-07 (284, 3)
25	2.4198E-06 (237, 4)	1.4327E-06 (237, 4)	6.4016E-07 (237, 4)	4.9809E-07 (237, 4)	4.1028E-07 (237, 4)
26	8.2159E-07 (247, 4)	9.0610E-07 (323, 3)	3.7395E-07 (323, 3)	2.8216E-07 (323, 3)	2.2650E-07 (323, 3)
27	7.1383E-07 (247, 4)	6.7197E-07 (141, 3)	3.0739E-07 (141, 3)	2.5017E-07 (207, 3)	2.1231E-07 (207, 3)
28	4.6128E-07 (339, 4)	5.7168E-07 (231, 3)	3.0640E-07 (231, 3)	2.7748E-07 (197, 3)	2.4911E-07 (197, 3)
29	1.0100E-06 (185, 4)	7.8835E-07 (283, 3)	3.4332E-07 (283, 3)	2.6393E-07 (283, 3)	2.1536E-07 (283, 3)
30	1.8100E-06 (185, 4)	1.2832E-06 (185, 4)	5.8784E-07 (185, 4)	4.6054E-07 (185, 4)	4.7628E-07 (137, 3)
31	1.1919E-06 (185, 4)	7.1254E-07 (185, 4)	2.7652E-07 (185, 4)	2.0301E-07 (185, 4)	1.6081E-07 (216, 3)
32	7.8283E-07 (248, 4)	5.3423E-07 (231, 4)	2.3803E-07 (231, 4)	1.8288E-07 (231, 4)	1.4900E-07 (231, 4)
33	9.7219E-07 (236, 4)	5.5886E-07 (218, 3)	4.4976E-07 (206, 3)	3.4712E-07 (206, 3)	2.8401E-07 (206, 3)
34	2.4839E-06 (236, 4)	1.5184E-06 (236, 4)	6.8292E-07 (236, 4)	5.3269E-07 (236, 4)	4.3981E-07 (236, 4)
35	4.6662E-07 (238, 4)	8.8221E-07 (236, 4)	4.0404E-07 (236, 4)	2.9287E-07 (236, 4)	2.2729E-07 (236, 4)
36	4.7422E-07 (315, 4)	6.3885E-07 (135, 3)	4.8997E-07 (236, 4)	3.7393E-07 (236, 4)	3.0354E-07 (236, 4)

Note: Day 236, Period 6 contains two consecutive hours with calm winds.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 3-HOUR CONC= 1.2468E-06 DIRECTION= 9 DISTANCE= 3.0 KM DAY=124 TIME PERIOD= 4

SECOND HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE 3.0 KM	6.0 KM	15.0 KM	20.0 KM	25.0 KM
1	4.6123E-07 (196, 4)	2.7525E-07 (233, 4)	2.6967E-07 (237, 6)	1.9099E-07 (237, 6)	1.4498E-07 (237, 6)
2	4.8865E-07 (210, 5)	3.8052E-07 (215, 4)	2.5445E-07 (124, 3)	1.9638E-07 (124, 3)	1.6082E-07 (124, 3)
3	6.4091E-07 (209, 4)	7.2750E-07 (237, 6)	4.0635E-07 (237, 6)	2.9936E-07 (237, 6)	2.3537E-07 (237, 6)
4	6.2245E-07 (209, 4)	4.7215E-07 (237, 4)	1.8655E-07 (162, 3)	1.4614E-07 (245, 5)	1.2091E-07 (245, 5)
5	8.6464E-07 (261, 5)	4.7530E-07 (206, 4)	2.0648E-07 (244, 4)	1.6324E-07 (98, 3)	1.3722E-07 (233, 4)
6	9.0711E-07 (194, 4)	5.9310E-07 (206, 4)	3.8519E-07 (216, 3)	2.9970E-07 (216, 3)	2.4687E-07 (216, 3)
7	6.0412E-07 (238, 5)	4.1848E-07 (24, 5)	1.9243E-07 (290, 4)	1.5121E-07 (290, 4)	1.2255E-07 (290, 4)
8	7.6278E-07 (248, 4)	4.0423E-07 (207, 4)	1.7421E-07 (248, 4)	1.3339E-07 (248, 4)	1.0831E-07 (248, 4)
9	1.2468E-06 (124, 4)	7.8786E-07 (46, 5)	3.7819E-07 (207, 4)	2.9305E-07 (207, 4)	2.4052E-07 (207, 4)
10	8.8120E-07 (87, 4)	4.8899E-07 (303, 4)	2.1991E-07 (181, 3)	1.6741E-07 (183, 3)	1.3427E-07 (183, 3)
11	4.9054E-07 (195, 4)	2.5422E-07 (195, 4)	1.4149E-07 (183, 3)	2.1692E-07 (96, 3)	1.7724E-07 (96, 3)
12	3.2557E-07 (225, 4)	7.7087E-07 (250, 4)	3.9052E-07 (250, 4)	3.0481E-07 (250, 4)	2.5176E-07 (250, 4)
13	3.8291E-07 (225, 4)	5.8479E-07 (184, 4)	2.7456E-07 (184, 4)	2.0405E-07 (184, 4)	1.6175E-07 (184, 4)
14	4.5095E-07 (216, 4)	4.0443E-07 (102, 4)	2.0900E-07 (194, 3)	1.6057E-07 (194, 3)	1.3083E-07 (194, 3)
15	4.1348E-07 (362, 5)	2.8111E-07 (362, 5)	1.2279E-07 (38, 5)	1.1799E-07 (303, 3)	9.8276E-08 (194, 3)
16	2.2837E-07 (216, 4)	4.2871E-07 (216, 4)	1.8699E-07 (216, 4)	1.4360E-07 (216, 4)	1.1698E-07 (216, 4)
17	3.9617E-07 (59, 4)	4.9482E-07 (45, 5)	2.2328E-07 (45, 5)	1.7373E-07 (45, 5)	1.4310E-07 (45, 5)
18	4.7451E-07 (157, 5)	5.7000E-07 (208, 5)	2.7206E-07 (208, 5)	2.0729E-07 (208, 5)	1.6785E-07 (208, 5)
19	3.8559E-07 (260, 4)	4.0983E-07 (231, 4)	3.8113E-07 (208, 5)	2.9115E-07 (208, 5)	2.3600E-07 (208, 5)
20	4.4513E-07 (205, 4)	2.7345E-07 (205, 4)	1.2942E-07 (260, 3)	1.0628E-07 (260, 3)	8.7209E-08 (260, 3)
21	4.9793E-07 (264, 4)	3.7359E-07 (359, 4)	1.7163E-07 (250, 4)	1.3598E-07 (250, 4)	1.1165E-07 (250, 4)
22	5.8601E-07 (189, 4)	4.6662E-07 (283, 4)	1.7688E-07 (283, 4)	1.2989E-07 (283, 4)	1.0209E-07 (283, 4)
23	7.0179E-07 (158, 5)	3.5573E-07 (163, 4)	1.4686E-07 (163, 4)	1.1201E-07 (163, 4)	9.0806E-08 (163, 4)
24	8.4745E-07 (283, 4)	5.7022E-07 (283, 4)	3.0526E-07 (237, 4)	2.2296E-07 (237, 4)	1.7390E-07 (237, 4)
25	5.8332E-07 (247, 4)	6.3924E-07 (86, 5)	3.3624E-07 (235, 3)	2.5370E-07 (235, 3)	2.0366E-07 (235, 3)
26	7.6925E-07 (237, 4)	4.9761E-07 (208, 5)	2.4972E-07 (338, 4)	1.9448E-07 (338, 4)	1.5991E-07 (338, 4)
27	6.4250E-07 (208, 5)	6.0400E-07 (323, 3)	2.8034E-07 (207, 3)	2.3847E-07 (141, 3)	1.9600E-07 (141, 3)
28	4.0867E-07 (54, 5)	4.0204E-07 (230, 3)	2.8121E-07 (230, 4)	2.3484E-07 (231, 3)	1.9109E-07 (231, 3)
29	6.7502E-07 (163, 4)	6.8120E-07 (291, 4)	3.0430E-07 (234, 3)	2.3757E-07 (234, 3)	1.9287E-07 (234, 3)
30	7.0713E-07 (241, 4)	1.0034E-06 (291, 4)	4.5344E-07 (291, 4)	3.5095E-07 (291, 4)	3.8154E-07 (185, 4)
31	5.8042E-07 (241, 4)	4.1236E-07 (241, 4)	2.5948E-07 (216, 3)	1.9826E-07 (216, 3)	1.5901E-07 (185, 4)
32	5.6911E-07 (229, 4)	4.2671E-07 (248, 4)	2.2232E-07 (234, 4)	1.7218E-07 (234, 4)	1.4130E-07 (234, 4)
33	9.3003E-07 (229, 4)	5.5565E-07 (229, 4)	2.4687E-07 (218, 3)	1.9107E-07 (218, 3)	1.5693E-07 (229, 4)
34	4.6738E-07 (240, 5)	7.3393E-07 (308, 3)	5.6345E-07 (210, 3)	4.3157E-07 (210, 3)	3.5089E-07 (210, 3)
35	3.8760E-07 (139, 4)	3.0356E-07 (87, 4)	2.6984E-07 (78, 4)	2.0859E-07 (78, 4)	1.7043E-07 (78, 4)
36	4.3101E-07 (309, 4)	3.7644E-07 (30, 3)	3.7704E-07 (143, 3)	2.8008E-07 (143, 3)	2.2187E-07 (143, 3)

ATTACHMENT D

Concentrations at Distances of 30.0, 35.0, 40.0, 45.0, and 50.0 km
Using Entire 1972 Meteorological Data Set

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

MAXIMUM MEAN CONC= -8.6185E-09 DIRECTION= 1 DISTANCE= 50.0 KM

ANNUAL MEAN CONCENTRATION AT EACH RECEPTOR

DIR \ RANGE	30.0 KM	35.0 KM	40.0 KM	45.0 KM	50.0 KM
1	-2.08296E-08	-1.58832E-08	-1.25602E-08	-1.02960E-08	-8.61845E-09
2	-4.29763E-08	-3.37038E-08	-2.73112E-08	-2.27748E-08	-1.93571E-08
3	-4.48737E-08	-3.52952E-08	-2.86594E-08	-2.39101E-08	-2.03253E-08
4	-4.36753E-08	-3.38080E-08	-2.70407E-08	-2.22871E-08	-1.87286E-08
5	-7.19673E-08	-5.70773E-08	-4.66320E-08	-3.91104E-08	-3.33878E-08
6	-4.77814E-08	-3.84258E-08	-3.18603E-08	-2.71317E-08	-2.35131E-08
7	-4.44445E-08	-3.51454E-08	-2.86591E-08	-2.39753E-08	-2.04274E-08
8	-2.93083E-08	-2.31347E-08	-1.89034E-08	-1.59016E-08	-1.36453E-08
9	-4.92834E-08	-3.78143E-08	-3.00546E-08	-2.46862E-08	-2.06966E-08
10	-5.07016E-08	-4.01774E-08	-3.28948E-08	-2.77112E-08	-2.37915E-08
11	-4.00627E-08	-3.11235E-08	-2.50453E-08	-2.08226E-08	-1.76665E-08
12	-6.10344E-08	-4.75129E-08	-3.82145E-08	-3.16739E-08	-2.67612E-08
13	-7.25967E-08	-5.67497E-08	-4.57905E-08	-3.80164E-08	-3.21594E-08
14	-1.51265E-07	-1.20011E-07	-9.79689E-08	-8.19560E-08	-6.97546E-08
15	-5.89175E-08	-4.56483E-08	-3.65593E-08	-3.02536E-08	-2.55227E-08
16	-5.59049E-08	-4.33952E-08	-3.47921E-08	-2.87102E-08	-2.41524E-08
17	-6.55453E-08	-5.21685E-08	-4.27632E-08	-3.59284E-08	-3.07254E-08
18	-8.75149E-08	-7.05527E-08	-5.85608E-08	-4.98206E-08	-4.31212E-08
19	-5.84623E-08	-4.56871E-08	-3.68243E-08	-3.04989E-08	-2.57319E-08
20	-4.75229E-08	-3.72606E-08	-3.01499E-08	-2.51108E-08	-2.13055E-08
21	-1.46877E-07	-1.17577E-07	-9.68068E-08	-8.15858E-08	-6.99445E-08
22	-9.90245E-08	-7.93337E-08	-6.54920E-08	-5.54628E-08	-4.78099E-08
23	-2.26512E-07	-1.78718E-07	-1.45278E-07	-1.21188E-07	-1.02927E-07
24	-2.35391E-07	-1.87420E-07	-1.53784E-07	-1.29545E-07	-1.11096E-07
25	-3.70686E-07	-2.96424E-07	-2.43911E-07	-2.05622E-07	-1.76355E-07
26	-2.74091E-07	-2.17022E-07	-1.77058E-07	-1.48340E-07	-1.26520E-07
27	-3.27584E-07	-2.58670E-07	-2.10645E-07	-1.76385E-07	-1.50410E-07
28	-2.41203E-07	-1.91058E-07	-1.55897E-07	-1.30533E-07	-1.11267E-07
29	-2.26682E-07	-1.82621E-07	-1.51425E-07	-1.28736E-07	-1.11339E-07
30	-2.21796E-07	-1.76503E-07	-1.44596E-07	-1.21391E-07	-1.03727E-07
31	-1.26164E-07	-9.99426E-08	-8.15765E-08	-6.83698E-08	-5.83317E-08
32	-5.83585E-08	-4.61534E-08	-3.76361E-08	-3.15233E-08	-2.68842E-08
33	-1.04994E-07	-8.31597E-08	-6.78793E-08	-5.68736E-08	-4.85182E-08
34	-7.10710E-08	-5.78358E-08	-4.84624E-08	-4.15977E-08	-3.63230E-08
35	-3.79060E-08	-2.94879E-08	-2.37109E-08	-1.96502E-08	-1.66046E-08
36	-5.07589E-08	-4.05556E-08	-3.34765E-08	-2.84539E-08	-2.46377E-08

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 6.7889E-08 DIRECTION= 2 DISTANCE= 30.0 KM DAY=237

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	30.0 KM	35.0 KM	40.0 KM	45.0 KM	50.0 KM
1	2.1967E-08 (143)	1.8846E-08 (143)	1.6453E-08 (143)	1.4564E-08 (143)	1.3038E-08 (143)
2	6.7889E-08 (237)	5.8812E-08 (237)	5.1933E-08 (237)	4.6533E-08 (237)	4.2178E-08 (237)
3	5.5908E-08 (237)	4.7837E-08 (237)	4.1766E-08 (237)	3.7032E-08 (237)	3.3237E-08 (237)
4	1.3168E-08 (195)	1.1525E-08 (195)	1.0271E-08 (195)	9.2812E-09 (195)	8.4780E-09 (195)
5	1.9992E-08 (261)	1.7354E-08 (261)	1.5357E-08 (261)	1.3791E-08 (261)	1.2529E-08 (261)
6	2.9004E-08 (244)	2.5209E-08 (244)	2.2328E-08 (244)	2.0064E-08 (244)	1.8235E-08 (244)
7	1.5975E-08 (78)	1.3954E-08 (78)	1.2416E-08 (78)	1.1203E-08 (78)	1.0220E-08 (78)
8	1.3001E-08 (53)	1.1131E-08 (53)	9.7720E-09 (53)	8.7262E-09 (53)	7.8897E-09 (53)
9	3.2032E-08 (46)	2.7866E-08 (46)	2.4699E-08 (46)	2.2208E-08 (46)	2.0193E-08 (46)
10	3.0401E-08 (183)	2.7358E-08 (183)	2.4663E-08 (183)	2.2347E-08 (183)	2.0367E-08 (183)
11	1.8704E-08 (96)	1.6299E-08 (96)	1.4461E-08 (96)	1.3010E-08 (96)	1.1834E-08 (96)
12	4.0680E-08 (184)	3.5580E-08 (184)	3.1689E-08 (184)	2.8616E-08 (184)	2.6124E-08 (184)
13	1.9526E-08 (182)	1.6987E-08 (182)	1.5057E-08 (182)	1.3538E-08 (182)	1.2310E-08 (182)
14	1.5726E-08 (208)	1.3601E-08 (208)	1.1992E-08 (208)	1.0729E-08 (208)	9.7108E-09 (208)
15	1.0979E-08 (48)	1.1197E-08 (48)	1.0369E-08 (48)	9.3427E-09 (48)	8.3789E-09 (48)
16	5.1898E-08 (48)	4.5110E-08 (48)	3.9957E-08 (48)	3.5906E-08 (48)	3.2634E-08 (48)
17	3.6693E-08 (245)	3.1805E-08 (245)	2.8094E-08 (245)	2.5176E-08 (245)	2.2819E-08 (245)
18	1.9733E-08 (245)	1.6855E-08 (245)	1.4688E-08 (245)	1.2997E-08 (245)	1.1641E-08 (245)
19	2.4837E-08 (208)	2.1466E-08 (208)	1.8913E-08 (208)	2.4464E-08 (236)	3.0590E-08 (236)
20	2.6894E-08 (236)	2.6583E-08 (236)	2.4508E-08 (236)	2.2155E-08 (236)	1.9969E-08 (236)
21	1.1881E-08 (250)	1.0372E-08 (250)	9.2229E-09 (250)	8.3170E-09 (250)	7.5836E-09 (250)
22	2.6219E-08 (363)	2.2809E-08 (363)	2.0217E-08 (363)	1.8178E-08 (363)	1.6529E-08 (363)
23	2.1963E-08 (283)	1.9055E-08 (283)	1.6853E-08 (283)	1.5125E-08 (283)	1.3732E-08 (283)
24	1.7679E-08 (237)	1.4803E-08 (237)	1.2662E-08 (237)	1.1011E-08 (237)	9.7006E-09 (237)
25	1.8951E-08 (363)	1.6620E-08 (363)	1.4842E-08 (363)	1.3438E-08 (363)	1.2299E-08 (363)
26	2.3658E-08 (323)	2.0292E-08 (323)	1.7755E-08 (323)	1.5774E-08 (323)	1.4185E-08 (323)
27	2.0882E-08 (141)	1.8251E-08 (141)	1.6247E-08 (141)	1.4666E-08 (141)	1.3385E-08 (141)
28	1.5841E-08 (363)	1.3910E-08 (363)	1.2391E-08 (363)	1.1158E-08 (363)	1.0161E-08 (363)
29	1.6943E-08 (253)	1.4689E-08 (253)	1.3420E-08 (47)	1.2258E-08 (47)	1.1170E-08 (47)
30	5.0805E-08 (291)	4.4263E-08 (291)	3.9283E-08 (291)	3.5502E-08 (185)	3.2525E-08 (185)
31	1.9890E-08 (241)	1.7299E-08 (241)	1.5333E-08 (241)	1.3787E-08 (241)	1.2539E-08 (241)
32	1.5749E-08 (231)	1.3663E-08 (231)	1.2077E-08 (231)	1.0830E-08 (231)	9.8210E-09 (231)
33	3.0118E-08 (206)	2.6232E-08 (206)	2.3273E-08 (206)	2.0941E-08 (206)	1.9054E-08 (206)
34	3.9362E-08 (210)	3.4055E-08 (210)	3.0040E-08 (210)	2.6893E-08 (210)	2.4358E-08 (210)
35	1.8065E-08 (78)	1.5715E-08 (78)	1.3930E-08 (78)	1.2524E-08 (78)	1.1388E-08 (78)
36	1.9887E-08 (135)	1.7633E-08 (236)	1.7660E-08 (236)	1.7193E-08 (236)	1.6551E-08 (236)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 24-HOUR CONC= 4.9523E-08 DIRECTION= 30 DISTANCE= 30.0 KM DAY=185

SECOND HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE 30.0 KM	35.0 KM	40.0 KM	45.0 KM	50.0 KM
1	1.4420E-08 (237)	1.2291E-08 (107)	1.0808E-08 (107)	9.6484E-09 (107)	8.7162E-09 (107)
2	1.7089E-08 (124)	1.4904E-08 (124)	1.3244E-08 (124)	1.1937E-08 (124)	1.0880E-08 (124)
3	1.7077E-08 (45)	1.4856E-08 (45)	1.3167E-08 (45)	1.1837E-08 (45)	1.0761E-08 (45)
4	1.2856E-08 (245)	1.1196E-08 (245)	9.9298E-09 (245)	8.9323E-09 (245)	8.1251E-09 (245)
5	1.5967E-08 (210)	1.3791E-08 (210)	1.2146E-08 (210)	1.0858E-08 (210)	9.8216E-09 (210)
6	2.8083E-08 (216)	2.4521E-08 (216)	2.1808E-08 (216)	1.9669E-08 (216)	1.7937E-08 (216)
7	1.5117E-08 (298)	1.3150E-08 (298)	1.1666E-08 (298)	1.0501E-08 (298)	9.5588E-09 (298)
8	1.1410E-08 (248)	9.9026E-09 (290)	8.8563E-09 (290)	8.0087E-09 (290)	7.3109E-09 (290)
9	2.9712E-08 (87)	2.6241E-08 (87)	2.3506E-08 (87)	2.1302E-08 (87)	1.9490E-08 (87)
10	1.8797E-08 (87)	1.6055E-08 (87)	1.3989E-08 (87)	1.2376E-08 (87)	1.1082E-08 (87)
11	8.7789E-09 (195)	7.5153E-09 (195)	6.5996E-09 (195)	5.9009E-09 (195)	5.3463E-09 (195)
12	2.6850E-08 (250)	2.3582E-08 (250)	2.1075E-08 (250)	1.9087E-08 (250)	1.7472E-08 (250)
13	1.5915E-08 (245)	1.3570E-08 (245)	1.1793E-08 (245)	1.0401E-08 (245)	9.2842E-09 (245)
14	1.4458E-08 (48)	1.2752E-08 (48)	1.1282E-08 (48)	1.0081E-08 (48)	9.0999E-09 (48)
15	1.0220E-08 (194)	8.7364E-09 (194)	7.6176E-09 (194)	6.7438E-09 (194)	6.0425E-09 (194)
16	9.5234E-09 (216)	8.9497E-09 (216)	8.3161E-09 (216)	7.7082E-09 (216)	7.1527E-09 (216)
17	1.5296E-08 (45)	1.3384E-08 (45)	1.1925E-08 (45)	1.0774E-08 (45)	9.8400E-09 (45)
18	1.7657E-08 (208)	1.5260E-08 (208)	1.3446E-08 (208)	1.2025E-08 (208)	1.0880E-08 (208)
19	1.2540E-08 (231)	1.0879E-08 (231)	1.3448E-08 (236)	1.6909E-08 (208)	1.5294E-08 (208)
20	9.5622E-09 (260)	8.2836E-09 (260)	7.3171E-09 (260)	6.5602E-09 (260)	5.9507E-09 (260)
21	1.0739E-08 (359)	9.3163E-09 (359)	8.2351E-09 (359)	7.3843E-09 (359)	6.6965E-09 (359)
22	1.2665E-08 (189)	1.1074E-08 (189)	9.8522E-09 (189)	8.8843E-09 (189)	8.0992E-09 (189)
23	9.8985E-09 (52)	8.5159E-09 (52)	7.4745E-09 (52)	6.6614E-09 (52)	6.0087E-09 (52)
24	1.4460E-08 (283)	1.2363E-08 (283)	1.0787E-08 (283)	9.7459E-09 (186)	8.9340E-09 (186)
25	1.6337E-08 (186)	1.4002E-08 (186)	1.2241E-08 (186)	1.0865E-08 (186)	9.7590E-09 (186)
26	1.5042E-08 (363)	1.2804E-08 (363)	1.1129E-08 (363)	9.9060E-09 (226)	9.0837E-09 (226)
27	1.6281E-08 (323)	1.5337E-08 (323)	1.4008E-08 (323)	1.2667E-08 (323)	1.1437E-08 (323)
28	1.5486E-08 (237)	1.3472E-08 (237)	1.1941E-08 (237)	1.0737E-08 (237)	9.7627E-09 (237)
29	1.4020E-08 (47)	1.4382E-08 (47)	1.2981E-08 (253)	1.1640E-08 (253)	1.0559E-08 (253)
30	4.9523E-08 (185)	4.3686E-08 (185)	3.9140E-08 (185)	3.5358E-08 (291)	3.2181E-08 (291)
31	1.6935E-08 (216)	1.4647E-08 (216)	1.2914E-08 (216)	1.1554E-08 (216)	1.0457E-08 (216)
32	1.4406E-08 (195)	1.3011E-08 (195)	1.1581E-08 (195)	1.0318E-08 (195)	9.2473E-09 (195)
33	1.7493E-08 (314)	1.5082E-08 (314)	1.3255E-08 (314)	1.1823E-08 (314)	1.0785E-08 (229)
34	2.6441E-08 (147)	2.3219E-08 (147)	2.0703E-08 (147)	1.8688E-08 (147)	1.7039E-08 (147)
35	1.1473E-08 (307)	1.0017E-08 (307)	8.9078E-09 (307)	8.0330E-09 (307)	7.3245E-09 (307)
36	1.6495E-08 (236)	1.7363E-08 (135)	1.5439E-08 (135)	1.3923E-08 (135)	1.2695E-08 (135)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 1.0158E-06 DIRECTION= 19 DISTANCE= 30.0 KM DAY=236 TIME PERIOD= 6

DIR	RANGE	HIGHEST 30.0 KM	3-HOUR CONCENTRATION AT EACH RECEPTOR 35.0 KM	40.0 KM	45.0 KM	50.0 KM
1		1.8309E-07 (143, 3)	1.5542E-07 (143, 3)	1.3471E-07 (143, 3)	1.1864E-07 (143, 3)	1.0581E-07 (143, 3)
2		5.4078E-07 (237, 6)	4.6882E-07 (237, 6)	4.1422E-07 (237, 6)	3.7132E-07 (237, 6)	3.3668E-07 (237, 6)
3		2.5436E-07 (237, 4)	2.2000E-07 (237, 4)	1.9396E-07 (237, 4)	1.7354E-07 (237, 4)	1.5707E-07 (237, 4)
4		1.3288E-07 (124, 3)	1.1656E-07 (124, 3)	1.0409E-07 (124, 3)	9.4239E-08 (124, 3)	8.6239E-08 (124, 3)
5		1.2429E-07 (98, 3)	1.0672E-07 (98, 3)	9.3322E-08 (98, 3)	8.2814E-08 (98, 3)	7.5222E-08 (233, 4)
6		2.3204E-07 (244, 4)	2.0167E-07 (244, 4)	1.7863E-07 (244, 4)	1.6051E-07 (244, 4)	1.4588E-07 (244, 4)
7		1.2440E-07 (78, 4)	1.0888E-07 (78, 4)	9.7040E-08 (78, 4)	8.7685E-08 (78, 4)	8.0096E-08 (78, 4)
8		9.4519E-08 (290, 4)	8.2003E-08 (290, 4)	7.2559E-08 (290, 4)	6.5166E-08 (290, 4)	5.9214E-08 (290, 4)
9		2.5625E-07 (46, 5)	2.2292E-07 (46, 5)	1.9759E-07 (46, 5)	1.7766E-07 (46, 5)	1.6155E-07 (46, 5)
10		1.2870E-07 (303, 4)	1.1253E-07 (303, 4)	1.0021E-07 (303, 4)	9.0494E-08 (303, 4)	8.2619E-08 (303, 4)
11		1.9421E-07 (183, 3)	1.6698E-07 (183, 3)	1.4625E-07 (183, 3)	1.3006E-07 (183, 3)	1.1708E-07 (183, 3)
12		3.2544E-07 (184, 4)	2.8464E-07 (184, 4)	2.5351E-07 (184, 4)	2.2893E-07 (184, 4)	2.0899E-07 (184, 4)
13		1.5621E-07 (182, 3)	1.3590E-07 (182, 3)	1.2045E-07 (182, 3)	1.0830E-07 (182, 3)	9.8479E-08 (182, 3)
14		1.2581E-07 (208, 6)	1.0881E-07 (208, 6)	9.5932E-08 (208, 6)	8.5830E-08 (208, 6)	7.7686E-08 (208, 6)
15		9.0755E-08 (97, 3)	9.3521E-08 (97, 3)	8.9985E-08 (97, 3)	8.4430E-08 (97, 3)	7.8560E-08 (97, 3)
16		3.5034E-07 (48, 6)	3.0585E-07 (48, 6)	2.7196E-07 (48, 6)	2.4525E-07 (48, 6)	2.2362E-07 (48, 6)
17		2.1259E-07 (245, 3)	1.8443E-07 (245, 3)	1.6303E-07 (245, 3)	1.4618E-07 (245, 3)	1.3257E-07 (245, 3)
18		1.5713E-07 (245, 3)	1.3431E-07 (245, 3)	1.1711E-07 (245, 3)	1.0368E-07 (245, 3)	9.2895E-08 (245, 3)
19		1.0158E-06 (236, 6)	8.8133E-07 (236, 6)	7.7935E-07 (236, 6)	6.9929E-07 (236, 6)	6.3470E-07 (236, 6)
20		2.8500E-07 (236, 6)	2.3932E-07 (236, 6)	2.0553E-07 (236, 6)	1.7958E-07 (236, 6)	1.5906E-07 (236, 6)
21		2.9783E-07 (245, 3)	2.6031E-07 (245, 3)	2.3172E-07 (245, 3)	2.0916E-07 (245, 3)	1.9089E-07 (245, 3)
22		2.0975E-07 (363, 4)	1.8247E-07 (363, 4)	1.6174E-07 (363, 4)	1.4542E-07 (363, 4)	1.3223E-07 (363, 4)
23		1.7570E-07 (283, 4)	1.5244E-07 (283, 4)	1.3482E-07 (283, 4)	1.2100E-07 (283, 4)	1.0986E-07 (283, 4)
24		1.7071E-07 (284, 3)	1.4789E-07 (284, 3)	1.3061E-07 (284, 3)	1.1705E-07 (284, 3)	1.0611E-07 (284, 3)
25		3.5032E-07 (237, 4)	3.0662E-07 (237, 4)	2.7327E-07 (237, 4)	2.4692E-07 (237, 4)	2.2555E-07 (237, 4)
26		1.8910E-07 (323, 3)	1.6222E-07 (323, 3)	1.4196E-07 (323, 3)	1.2614E-07 (323, 3)	1.1344E-07 (323, 3)
27		1.8207E-07 (207, 3)	1.5902E-07 (207, 3)	1.4127E-07 (207, 3)	1.2723E-07 (207, 3)	1.1586E-07 (207, 3)
28		2.1496E-07 (197, 3)	1.8728E-07 (197, 3)	1.6578E-07 (197, 3)	1.4878E-07 (197, 3)	1.3505E-07 (197, 3)
29		1.8245E-07 (283, 3)	1.5862E-07 (283, 3)	1.4053E-07 (283, 3)	1.2631E-07 (283, 3)	1.1482E-07 (283, 3)
30		5.0569E-07 (137, 3)	4.6246E-07 (137, 3)	4.1636E-07 (137, 3)	3.7658E-07 (137, 3)	3.4380E-07 (137, 3)
31		1.3548E-07 (216, 3)	1.1718E-07 (216, 3)	1.0331E-07 (216, 3)	9.2430E-08 (216, 3)	9.7303E-08 (195, 3)
32		1.2600E-07 (231, 4)	1.0930E-07 (231, 4)	9.6619E-08 (231, 4)	8.6637E-08 (231, 4)	7.8568E-08 (231, 4)
33		2.4110E-07 (206, 3)	2.0994E-07 (206, 3)	1.8623E-07 (206, 3)	1.6756E-07 (206, 3)	1.5245E-07 (206, 3)
34		3.7635E-07 (236, 4)	3.3007E-07 (236, 4)	2.9473E-07 (236, 4)	2.6680E-07 (236, 4)	2.4413E-07 (236, 4)
35		1.8424E-07 (236, 4)	1.5393E-07 (236, 4)	1.3151E-07 (236, 4)	1.1429E-07 (236, 4)	1.0069E-07 (236, 4)
36		2.5616E-07 (236, 4)	2.2203E-07 (236, 4)	1.9622E-07 (236, 4)	1.7601E-07 (236, 4)	1.5973E-07 (236, 4)

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY SECOND MAXIMUM 3-HOUR CONC= 3.2743E-07 DIRECTION= 30 DISTANCE= 30.0 KM DAY=185 TIME PERIOD= 4

SECOND HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE 30.0 KM	35.0 KM	40.0 KM	45.0 KM	50.0 KM
1	1.1536E-07 (237, 6)	9.4857E-08 (237, 6)	7.9913E-08 (237, 6)	6.8594E-08 (237, 6)	5.9759E-08 (237, 6)
2	1.3671E-07 (124, 3)	1.1923E-07 (124, 3)	1.0595E-07 (124, 3)	9.5494E-08 (124, 3)	8.7039E-08 (124, 3)
3	1.9290E-07 (237, 6)	1.6270E-07 (237, 6)	1.4016E-07 (237, 6)	1.2272E-07 (237, 6)	1.0883E-07 (237, 6)
4	1.0285E-07 (245, 5)	8.9567E-08 (245, 5)	7.9438E-08 (245, 5)	7.1458E-08 (245, 5)	6.5001E-08 (245, 5)
5	1.1708E-07 (233, 4)	1.0240E-07 (233, 4)	9.1215E-08 (233, 4)	8.2383E-08 (233, 4)	7.4385E-08 (98, 3)
6	2.1079E-07 (216, 3)	1.8449E-07 (216, 3)	1.6443E-07 (216, 3)	1.4857E-07 (216, 3)	1.3572E-07 (216, 3)
7	1.0314E-07 (290, 4)	8.9170E-08 (290, 4)	7.8620E-08 (290, 4)	7.0367E-08 (290, 4)	6.3731E-08 (290, 4)
8	9.1280E-08 (248, 4)	7.8928E-08 (248, 4)	6.9541E-08 (248, 4)	6.2158E-08 (248, 4)	5.6191E-08 (248, 4)
9	2.0470E-07 (207, 4)	1.7862E-07 (207, 4)	1.5875E-07 (207, 4)	1.4306E-07 (207, 4)	1.3035E-07 (207, 4)
10	1.1146E-07 (183, 3)	9.4908E-08 (183, 3)	8.2404E-08 (183, 3)	7.2646E-08 (183, 3)	6.5904E-08 (209, 6)
11	1.5029E-07 (96, 3)	1.3074E-07 (96, 3)	1.1589E-07 (96, 3)	1.0420E-07 (96, 3)	9.4746E-08 (96, 3)
12	2.1549E-07 (250, 4)	1.8903E-07 (250, 4)	1.6881E-07 (250, 4)	1.5283E-07 (250, 4)	1.3986E-07 (250, 4)
13	1.3358E-07 (184, 4)	1.1350E-07 (184, 4)	9.9212E-08 (138, 3)	8.8925E-08 (138, 3)	8.0645E-08 (138, 3)
14	1.1564E-07 (48, 4)	1.0193E-07 (48, 4)	9.0176E-08 (48, 4)	8.0578E-08 (48, 4)	7.2743E-08 (48, 4)
15	8.8563E-08 (303, 3)	7.7036E-08 (303, 3)	6.8298E-08 (303, 3)	6.1434E-08 (303, 3)	5.5893E-08 (303, 3)
16	9.8904E-08 (216, 4)	8.5796E-08 (216, 4)	7.5835E-08 (216, 4)	6.7998E-08 (216, 4)	6.1664E-08 (216, 4)
17	1.2219E-07 (45, 5)	1.0695E-07 (45, 5)	9.5312E-08 (45, 5)	8.6123E-08 (45, 5)	7.8670E-08 (45, 5)
18	1.4126E-07 (208, 5)	1.2208E-07 (208, 5)	1.0757E-07 (208, 5)	9.6199E-08 (208, 5)	8.7041E-08 (208, 5)
19	1.9870E-07 (208, 5)	1.7173E-07 (208, 5)	1.5130E-07 (208, 5)	1.3527E-07 (208, 5)	1.2235E-07 (208, 5)
20	7.3962E-08 (260, 3)	6.4343E-08 (260, 3)	5.7032E-08 (260, 3)	5.1279E-08 (260, 3)	4.6627E-08 (260, 3)
21	9.5048E-08 (250, 4)	8.2976E-08 (250, 4)	7.3783E-08 (250, 4)	6.6536E-08 (250, 4)	6.0669E-08 (250, 4)
22	9.0211E-08 (59, 3)	8.2081E-08 (59, 3)	7.3662E-08 (59, 3)	6.6658E-08 (59, 3)	6.0796E-08 (59, 3)
23	7.6502E-08 (163, 4)	6.6467E-08 (39, 5)	5.8917E-08 (39, 5)	5.3399E-08 (285, 3)	4.9032E-08 (285, 3)
24	1.4143E-07 (237, 4)	1.1842E-07 (237, 4)	1.0130E-07 (237, 4)	8.9006E-08 (70, 3)	8.0933E-08 (70, 3)
25	1.7351E-07 (86, 5)	1.5201E-07 (86, 5)	1.3559E-07 (86, 5)	1.2262E-07 (86, 5)	1.1210E-07 (86, 5)
26	1.3626E-07 (338, 4)	1.1904E-07 (338, 4)	1.0591E-07 (338, 4)	9.5566E-08 (338, 4)	8.7188E-08 (338, 4)
27	1.6706E-07 (141, 3)	1.4602E-07 (141, 3)	1.2998E-07 (141, 3)	1.1733E-07 (141, 3)	1.0708E-07 (141, 3)
28	1.6149E-07 (231, 3)	1.4009E-07 (231, 3)	1.2386E-07 (231, 3)	1.1113E-07 (231, 3)	1.0086E-07 (231, 3)
29	1.6232E-07 (234, 3)	1.4024E-07 (234, 3)	1.2354E-07 (234, 3)	1.1045E-07 (234, 3)	9.9917E-08 (234, 3)
30	3.2743E-07 (185, 4)	2.8788E-07 (185, 4)	2.5763E-07 (185, 4)	2.3368E-07 (185, 4)	2.1421E-07 (185, 4)
31	1.2979E-07 (185, 4)	1.0901E-07 (185, 4)	9.3513E-08 (185, 4)	8.1526E-08 (185, 4)	8.3659E-08 (216, 3)
32	1.2029E-07 (234, 4)	1.0501E-07 (234, 4)	9.3374E-08 (234, 4)	8.4204E-08 (234, 4)	7.6778E-08 (234, 4)
33	1.3400E-07 (229, 4)	1.1728E-07 (229, 4)	1.0453E-07 (229, 4)	9.4448E-08 (229, 4)	8.6274E-08 (229, 4)
34	2.9632E-07 (210, 3)	2.5688E-07 (210, 3)	2.2698E-07 (210, 3)	2.0352E-07 (210, 3)	1.8461E-07 (210, 3)
35	1.4452E-07 (78, 4)	1.2572E-07 (78, 4)	1.1144E-07 (78, 4)	1.0019E-07 (78, 4)	9.1106E-08 (78, 4)
36	1.8309E-07 (143, 3)	1.5542E-07 (143, 3)	1.3471E-07 (143, 3)	1.1864E-07 (143, 3)	1.0581E-07 (143, 3)

ATTACHMENT E

24-Hour Concentrations on Day 249 at Distances of 0.8, 1.2, 1.4, 1.6, and 1.8 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.1302E-07 DIRECTION= 9 DISTANCE= 1.2 KM DAY=249

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	.8 KM		1.2 KM		1.4 KM		1.6 KM		1.8 KM	
1	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
2	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
3	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
4	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
5	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
6	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
7	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
8	0.	(0)	1.2438E-07	(249)	9.7874E-08	(249)	8.3329E-08	(249)	7.5562E-08	(249)
9	0.	(0)	2.1302E-07	(249)	1.5888E-07	(249)	1.3103E-07	(249)	1.1694E-07	(249)
10	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
11	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
12	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
13	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
14	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
15	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
16	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
17	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
18	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
19	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
20	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
21	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
22	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
23	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
24	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
25	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
26	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
27	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
28	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
29	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
30	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
31	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
32	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)
33	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)
34	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)
35	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)	4.1667E-32	(249)
36	0.	(0)	0.	(0)	0.	(0)	0.	(0)	0.	(0)

ATTACHMENT F

24-Hour Concentrations on Day 189 at Distances of 0.8, 1.2, 1.4, 1.6, and 1.8 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.0823E-07 DIRECTION= 9 DISTANCE= 1.2 KM DAY=189

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

DIR	RANGE .8 KM	1.2 KM	1.4 KM	1.6 KM	1.8 KM
1	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)
2	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)
3	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)
4	0. (0)	5.2372E-12 (189)	2.4818E-12 (189)	1.2522E-12 (189)	7.1935E-13 (189)
5	0. (0)	1.8767E-10 (189)	1.0188E-10 (189)	5.8154E-11 (189)	3.7420E-11 (189)
6	0. (0)	3.2396E-09 (189)	1.9595E-09 (189)	1.2339E-09 (189)	8.6903E-10 (189)
7	0. (0)	2.6939E-08 (189)	1.7659E-08 (189)	1.1962E-08 (189)	9.0100E-09 (189)
8	0. (0)	1.0791E-07 (189)	7.4565E-08 (189)	5.2987E-08 (189)	4.1704E-08 (189)
9	0. (0)	2.0823E-07 (189)	1.4752E-07 (189)	1.0723E-07 (189)	8.6177E-08 (189)
10	0. (0)	1.9356E-07 (189)	1.3675E-07 (189)	9.9154E-08 (189)	7.9500E-08 (189)
11	0. (0)	8.6670E-08 (189)	5.9394E-08 (189)	4.1889E-08 (189)	3.2742E-08 (189)
12	0. (0)	1.7338E-08 (189)	1.1554E-08 (189)	7.8630E-09 (189)	5.9233E-09 (189)
13	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
14	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
15	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
16	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
17	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
18	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
19	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
20	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
21	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
22	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
23	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
24	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
25	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
26	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
27	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
28	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
29	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
30	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
31	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
32	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
33	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
34	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
35	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)
36	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)	4.1667E-32 (189)

ATTACHMENT G

24-Hour Concentrations on Day 48 at Distances of 5.0, 5.5, 6.5, 8.0, and 10.0 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 24-HOUR CONC= 2.2277E-07 DIRECTION= 16 DISTANCE= 5.5 KM DAY= 48

HIGHEST 24-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	5.0 KM	5.5 KM	6.5 KM	8.0 KM	10.0 KM
1	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)
2	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)
3	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)
4	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)
5	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)	4.1667E-32 (48)
6	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
7	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
8	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
9	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
10	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
11	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
12	1.1124E-12 (48)	8.4134E-13 (48)	4.8669E-13 (48)	2.3581E-13 (48)	1.0379E-13 (48)
13	0. (0)	0. (0)	0. (0)	0. (0)	2.5052E-10 (48)
14	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
15	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
16	2.1062E-07 (48)	2.2277E-07 (48)	2.0486E-07 (48)	1.7182E-07 (48)	1.4079E-07 (48)
17	0. (0)	0. (0)	0. (0)	0. (0)	1.2511E-08 (48)
18	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
19	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
20	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
21	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
22	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
23	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
24	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
25	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
26	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
27	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
28	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
29	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
30	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
31	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
32	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
33	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
34	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
35	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)
36	0. (0)	0. (0)	0. (0)	0. (0)	0. (0)

ATTACHMENT H

3-Hour Concentrations on Day 236 at Distances of 2.5, 3.5, 4.0, 4.5, and 5.0 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 3.9162E-06 DIRECTION= 19 DISTANCE= 5.5 KM DAY=236 TIME PERIOD= 6

HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR

RANGE DIR	2.5 KM	3.5 KM	4.5 KM	5.0 KM	5.5 KM
1	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	1.0391E-15 (236, 5)	2.8653E-15 (236, 5)	2.5717E-15 (236, 5)
2	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)
3	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
4	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
5	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
6	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
7	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
8	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
9	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
10	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
11	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
12	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
13	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
14	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
15	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	5.4441E-20 (236, 6)	1.4108E-19 (236, 6)	9.6794E-20 (236, 6)
16	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.5016E-14 (236, 6)	9.0876E-14 (236, 6)	8.3462E-14 (236, 6)
17	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.5673E-11 (236, 6)	1.2220E-09 (236, 6)	1.3967E-09 (236, 6)
18	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	3.5424E-07 (236, 6)	4.6928E-07 (236, 6)
19	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	2.6912E-06 (236, 6)	3.9162E-06 (236, 6)
20	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	9.4430E-07 (236, 6)	1.4491E-06 (236, 6)
21	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.4741E-08 (236, 6)	2.1474E-08 (236, 6)
22	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	5.7664E-12 (236, 6)	7.2205E-12 (236, 6)
23	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	4.6950E-17 (236, 6)	4.6549E-17 (236, 6)
24	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
25	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
26	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
27	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
28	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)	1.0000E-30 (236, 1)
29	2.4456E-15 (236, 4)	6.2779E-16 (236, 4)	1.2795E-16 (236, 4)	6.3159E-17 (236, 4)	3.2695E-17 (236, 4)
30	3.3393E-12 (236, 4)	1.5469E-12 (236, 4)	5.1296E-13 (236, 4)	3.1458E-13 (236, 4)	1.9957E-13 (236, 4)
31	9.4916E-10 (236, 4)	6.9793E-10 (236, 4)	3.3874E-10 (236, 4)	2.4619E-10 (236, 4)	1.8313E-10 (236, 4)
32	5.6162E-08 (236, 4)	5.7655E-08 (236, 4)	3.6845E-08 (236, 4)	3.0273E-08 (236, 4)	2.5261E-08 (236, 4)
33	6.9140E-07 (236, 4)	8.7201E-07 (236, 4)	6.6011E-07 (236, 4)	5.8489E-07 (236, 4)	5.2383E-07 (236, 4)
34	1.5082E-06 (236, 4)	2.3651E-06 (236, 4)	1.9414E-06 (236, 4)	1.7762E-06 (236, 4)	1.6370E-06 (236, 4)
35	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	3.4582E-07 (236, 4)	6.6440E-07 (236, 4)	8.2095E-07 (236, 4)
36	1.0000E-30 (236, 6)	1.0000E-30 (236, 6)	2.1436E-11 (236, 5)	7.3455E-11 (236, 5)	8.0764E-11 (236, 5)

ATTACHMENT I

3-Hour Concentrations on Day 189 at Distances of 0.8, 1.2, 1.4, 1.6, and 1.8 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 1.9656E-06 DIRECTION= 22 DISTANCE= 1.2 KM DAY=189 TIME PERIOD= 5

	HIGHEST 3-HOUR CONCENTRATION AT EACH RECEPTOR				
RANGE DIR	.8 KM	1.2 KM	1.4 KM	1.6 KM	1.8 KM
1	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
2	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
3	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
4	1.0000E-30 (189, 1)	4.1897E-11 (189, 4)	1.9854E-11 (189, 4)	1.0018E-11 (189, 4)	5.7548E-12 (189, 4)
5	1.0000E-30 (189, 1)	1.5014E-09 (189, 4)	8.1502E-10 (189, 4)	4.6523E-10 (189, 4)	2.9936E-10 (189, 4)
6	1.0000E-30 (189, 1)	2.5916E-08 (189, 4)	1.5676E-08 (189, 4)	9.8714E-09 (189, 4)	6.9522E-09 (189, 4)
7	1.0000E-30 (189, 1)	2.1551E-07 (189, 4)	1.4127E-07 (189, 4)	9.5699E-08 (189, 4)	7.2080E-08 (189, 4)
8	1.0000E-30 (189, 1)	8.6328E-07 (189, 4)	5.9652E-07 (189, 4)	4.2389E-07 (189, 4)	3.3363E-07 (189, 4)
9	1.0000E-30 (189, 1)	1.6658E-06 (189, 4)	1.1802E-06 (189, 4)	8.5787E-07 (189, 4)	6.8941E-07 (189, 4)
10	1.0000E-30 (189, 1)	1.5485E-06 (189, 4)	1.0940E-06 (189, 4)	7.9324E-07 (189, 4)	6.3600E-07 (189, 4)
11	1.0000E-30 (189, 1)	6.9341E-07 (189, 4)	4.7517E-07 (189, 4)	3.3512E-07 (189, 4)	2.6194E-07 (189, 4)
12	1.0000E-30 (189, 1)	1.4958E-07 (189, 4)	9.6700E-08 (189, 4)	6.4687E-08 (189, 4)	4.8161E-08 (189, 4)
13	1.0000E-30 (189, 1)	1.5543E-08 (189, 4)	9.2206E-09 (189, 4)	5.7049E-09 (189, 4)	3.9533E-09 (189, 4)
14	1.0000E-30 (189, 1)	7.7804E-10 (189, 4)	4.1195E-10 (189, 4)	2.2988E-10 (189, 4)	1.4487E-10 (189, 4)
15	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
16	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
17	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
18	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	8.0427E-08 (189, 5)	1.0711E-07 (189, 5)	1.0334E-07 (189, 5)
19	7.4651E-07 (189, 5)	1.2916E-06 (189, 5)	8.7988E-07 (189, 5)	6.0890E-07 (189, 5)	4.4203E-07 (189, 5)
20	8.6411E-07 (189, 5)	1.7613E-06 (189, 5)	1.1990E-06 (189, 5)	8.2921E-07 (189, 5)	6.0372E-07 (189, 5)
21	2.1602E-07 (189, 5)	1.8610E-06 (189, 5)	1.2711E-06 (189, 5)	8.7851E-07 (189, 5)	6.4529E-07 (189, 5)
22	1.0000E-30 (189, 1)	1.9656E-06 (189, 5)	1.3742E-06 (189, 5)	9.6785E-07 (189, 5)	7.2898E-07 (189, 5)
23	1.0000E-30 (189, 1)	1.4316E-06 (189, 5)	1.0004E-06 (189, 5)	7.0356E-07 (189, 5)	5.2989E-07 (189, 5)
24	1.0000E-30 (189, 1)	5.4478E-07 (189, 5)	3.6811E-07 (189, 5)	2.5099E-07 (189, 5)	1.8375E-07 (189, 5)
25	1.0000E-30 (189, 2)	1.0127E-07 (189, 5)	6.4235E-08 (189, 5)	4.1350E-08 (189, 5)	2.8711E-08 (189, 5)
26	1.0000E-30 (189, 2)	9.0881E-09 (189, 5)	5.2613E-09 (189, 5)	3.1171E-09 (189, 5)	2.0053E-09 (189, 5)
27	1.0000E-30 (189, 2)	3.9310E-10 (189, 5)	2.0199E-10 (189, 5)	1.0739E-10 (189, 5)	6.2539E-11 (189, 5)
28	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)
29	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)
30	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)
31	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)	1.0000E-30 (189, 2)
32	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
33	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
34	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
35	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)
36	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)	1.0000E-30 (189, 1)

ATTACHMENT J

3-Hour Concentrations on Day 237 at Distances of 2.6, 2.8, 3.2, and 3.6 km.

PLANT NAME: FORT MEADE SULFURIC ACID POLLUTANT: SO2 EMISSION UNITS: GM/SEC AIR QUALITY UNITS: GM/M**3

YEARLY MAXIMUM 3-HOUR CONC= 2.4081E-06 DIRECTION= 25 DISTANCE= 3.2 KM DAY=237 TIME PERIOD= 4

RANGE DIR	HIGHEST 2.6 KM	3-HOUR CONCENTRATION AT EACH RECEPTOR 2.8 KM	3.2 KM	3.4 KM	3.6 KM
1	1.0000E-30 (237, 2)	1.0000E-30 (237, 2)	1.0000E-30 (237, 2)	1.0000E-30 (237, 2)	1.0000E-30 (237, 2)
2	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
3	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
4	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	3.9878E-08 (237, 6)
5	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.3419E-09 (237, 6)
6	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	5.6787E-12 (237, 6)
7	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	4.3322E-15 (237, 6)
8	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
9	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
10	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
11	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
12	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
13	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
14	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
15	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
16	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
17	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
18	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
19	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
20	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
21	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
22	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)	1.0000E-30 (237, 1)
23	1.0431E-07 (237, 4)	1.4412E-07 (237, 4)	1.5413E-07 (237, 4)	1.4713E-07 (237, 4)	1.3834E-07 (237, 4)
24	1.1556E-06 (237, 4)	1.4108E-06 (237, 4)	1.4625E-06 (237, 4)	1.4078E-06 (237, 4)	1.3416E-06 (237, 4)
25	1.8585E-06 (237, 4)	2.2876E-06 (237, 4)	2.4081E-06 (237, 4)	2.3346E-06 (237, 4)	2.2403E-06 (237, 4)
26	6.1338E-07 (237, 4)	7.4066E-07 (237, 4)	7.5226E-07 (237, 4)	7.1718E-07 (237, 4)	6.7719E-07 (237, 4)
27	4.1547E-08 (237, 4)	4.7884E-08 (237, 4)	4.4587E-08 (237, 4)	4.0811E-08 (237, 4)	3.7055E-08 (237, 4)
28	5.7753E-10 (237, 4)	6.1816E-10 (237, 4)	5.0141E-10 (237, 4)	4.3019E-10 (237, 4)	3.6703E-10 (237, 4)
29	1.6476E-12 (237, 4)	1.5935E-12 (237, 4)	1.0699E-12 (237, 4)	8.4001E-13 (237, 4)	6.5810E-13 (237, 4)
30	9.6466E-16 (237, 4)	8.2021E-16 (237, 4)	4.3311E-16 (237, 4)	3.0384E-16 (237, 4)	2.1360E-16 (237, 4)
31	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)
32	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)
33	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	2.5697E-17 (237, 6)
34	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	1.0000E-30 (237, 4)	9.2275E-14 (237, 6)
35	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)
36	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)	1.0000E-30 (237, 7)

ATTACHMENT K

CRSTER Modifications

Note: The attached minor modifications (consisting of resetting some initialization statements) were made in the CRSTER Model used for this analysis. Without these modifications, execution of the program will terminate when printing out results if all of the maximum annual mean concentrations are negative as they are in this case. A comparsion was made on several days of meteorological data using the modified and unmodified forms of CRSTER, and the modifications appear not to have any affect on the actual concentrations calculated.

NOTE: ALL CHANGES ARE IN SUBROUTINE CRS

```
 EQUIVALENCE (QTAPE1(1),CHI(1)),(QTAPE2(1),CHI25(1)),(QTAPE3(1),
*CHI26(1)),(TAPIN(1),JYR),(DMAXYR(1),JMAX3(1)),(DX(1),JM(1))
 DATA HMAXT,DMAXT,NNN,MMM/-1.E+30,-1.E+30,1,1,1/
 DATA IHC,P/6,13,18,24,.1,.15,.2,.25,.3,.3/
 DATA DTH/-50.,-40.,-30.,-20.,-10.,0.,10.,20.,30.,40.,50./
 DATA LOOP/1,1,2,3,4,4,11,11,10,9,8,8/
```

Original statement is:

```
DATA HMAXT,DMAXT,NNN,MMM/0.,0.,1,1,1/
```

```
C***RE-INITIALIZE DAILY AVERAGE AT BEGINNING OF EACH DAY***
 1000 DO 1310 IR=1,180
 1310 CHI25(IR)=1.0E-30
      TDAY=TDAY+1.
      DMAXT=-1.E+30
      HMAXT=-1.E+30
C***INPUT INFORMATION FROM MET FILE***
```

Original statements are:

```
DMAXT=0.
HMAXT=0.
```

```
C***CALCULATE ANNUAL MEANS AND DETERMINE THE MAXIMUM
      IST1=1
      K1=1
      AMMAX=-1.E+30
      MAXI=0
      DO 5200 IR=1,180
```

Original statement is:

```
AMMAX=0.
```