

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE KENTUCKY STATE BOARD**  
**ON ELECTRIC GENERATION AND TRANSMISSION SITING**

In the Matter of:

THE APPLICATION OF THOROUGHbred	)
GENERATING COMPANY, LLC FOR A	) CASE NO.
MERCHANT POWER PLANT CONSTRUCTION	)2002-00150
CERTIFICATE IN MUHLENBERG COUNTY, KY	)

**RESPONSE OF BIG RIVERS ELECTRIC CORPORATION**  
**TO THOROUGHbred ENERGY'S DATA REQUEST DATED OCTOBER 10, 2003**

Big Rivers Electric Corporation ("Big Rivers"), without waiving its objection to Thoroughbred's Data Requests to Big Rivers propounded by Thoroughbred Energy LLC ("Thoroughbred") files the following response, prepared by Mick Durham to those data requests:

Q1. Has a permit application been submitted to the Kentucky Division for Air quality for the addition of a second generating unit at the D.B. Wilson facility ("Wilson 2")? If so, please state when the application was submitted and state the status of review of the application by the Division. Please provide a copy of the application and of the documentation for the annual emissions proposed for Wilson 2 of mercury SO<sub>2</sub>, PM<sub>10</sub>, total particulate, and NO<sub>x</sub>? What is the hourly emission rate for each of these pollutants?

A. Based upon the information we have reviewed to date, there has been no permit application submitted since Wilson I began commercial operation.

Q2. Has BREC, or any person or entity acting for or on behalf of BREC, performed any air quality modeling of the emissions of fine particulate (PM<sub>2.5</sub>), sulfur dioxide (SO<sub>2</sub>), and/or nitrogen oxides (NO<sub>x</sub>) from the existing generation unit at D.B. Wilson ("Wilson 1"), of the

emissions anticipated from an additional unit at D.B. Wilson ("Wilson 2"), and/or anticipated from the proposed Thoroughbred Generating Station? If so, what models have been run, on what date(s) were such models run, and what meteorological data sets were utilized in connection therewith? Thoroughbred requests a copy of modeling output and input files responsive to this request.

A. Yes. Stanley Consultants, Inc. modeled SO<sub>2</sub> emissions from a new 440 MW unit located at the D.B. Wilson Station and using Thoroughbred emission and remodeling data. The result of that modeling, based on the ISCST3 model, and using an assumed 24 hour averaging limit of .41 lb/MMBtu for Thoroughbred and for the new unit at Wilson, showed that the new unit would cause a Class I increment violation at Mammoth Cave National Park. A copy of the modeling input and output is attached as Exhibit 1.

Q3. What are annual emissions (tons) from the D.B. Wilson facility of mercury, SO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, total particulate, and NO<sub>x</sub>? What is the hourly emission rate for each of these pollutants? What is the heat input (MBtu/hr) to Wilson 1 on an annual and hourly basis consistent with the emissions data that are responsible to the foregoing questions? What is the percentage reduction attained by each device for these emissions?

A. See attached Exhibit 2 for 2002.

Q4. When was the modeling protocol for proposed Wilson 2's effects on class I areas submitted to the Federal Land Manager for review?

A. No modeling protocol has been submitted.

Q5. Under the NO<sub>x</sub> SIP Call, as implemented by the Kentucky Division for Air Quality, are reductions in NO<sub>x</sub> emissions planned or anticipated for the D.B. Wilson facility? For

the 2004 to 2006 allocation period, what level of allowances has been allocated to the D.B.

Wilson facility and will additional allowances be needed to operate that facility in that period?

A. Selective Catalytic Reduction (SCRs) have been installed on the D.B. Wilson

Unit. The unit has been allocated NO<sub>x</sub> allowances as follows:

Year	Allowances
2004 -	1274
2005 -	1242
2006 -	1242

No additional allowances are expected to be necessary for facility operation during this period.

This information was supplied by Western Kentucky Energy Corp. ("WKEC").

Q6. Under the Clean Air Act Title IV Acid Rain program, has the D.B. Wilson facility taken any steps to reduce its SO<sub>2</sub> emissions or are any such reductions planned for the D.B. Wilson facility for Phase 2? What allowances are currently held for the D.B. Wilson facility?

A. The D.B. Wilson Station is a Clean Air Act - Subpart Da unit. As such, it is an Acid Rain Phase II unit. No additional SO<sub>2</sub> reductions are anticipated at this time. The unit received an annual allocation of 12,465 allowances through 2009 and 12,487 from 2010 onward. This information was supplied by WKEC.

Q7. Is the D.B. Wilson facility Best Available Retrofit Technology ("BART") eligible under EPA's Regional Haze rule? If not, why not? When did Wilson I begin operations? When was construction on Wilson I begun?

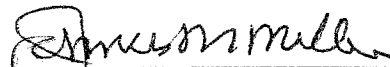
A. Construction on D.B. Wilson began in or around 1981 and commercial operation began in 1986. A BART-eligible unit is one that was not in operation prior to August 7, 1962,

but was in existence on August 7, 1977. Wilson is a Subpart Da Unit that was required to install BACT.

Q8. Does BREC hold a water withdrawal permit for D.B. Wilson facility? If so, what is the permitted water withdrawal rate for the facility and what restrictions are imposed during low flow conditions? Under such permit, what flow rate constitutes low flow at the D.B. Wilson facility withdrawal point for purposes of triggering restrictions on the withdrawal rate? If BREC does not hold a water withdrawal permit for its D.B. Wilson facility, what is water withdrawal rate for the facility?

A. Big Rivers does not hold a water withdrawal permit for the facility. Average water withdrawal is approximately 6,000 gallons per minute (gpm) with a peak of approximately 8,500 gpm. This information was supplied by WKEC.

October 21, 2003



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COUNSEL FOR BIG RIVERS  
ELECTRIC CORPORATION

Model	File	Pol	Average	Group	Rank	Conc.	East(X)	North(Y)	Elev	Time	Met File	Sources	Groups	Rec.
1	ISCST3	MamNP_8 SO2	PERIOD	ALL	1ST	0.77347	566500	4124700	213.36	8760	PADNSH8	80	3	1
2	ISCST3	MamNP_8 SO2	PERIOD	TGS	1ST	0.16758	566500	4124700	213.36	8760	PADNSH8	80	3	1
3	ISCST3	MamNP_8 SO2	PERIOD	WILSON	1ST	0.2296	566500	4124700	213.36	8760	PADNSH8	80	3	1
4	ISCST3	MamNP_8 SO2	3-HR	ALL	2ND	23.66369	566500	4124700	213.36	85082106	PADNSH8	80	3	1
5	ISCST3	MamNP_8 SO2	3-HR	TGS	2ND	10.53378	566500	4124700	213.36	85051512	PADNSH8	80	3	1
6	ISCST3	MamNP_8 SO2	3-HR	WILSON	2ND	16.91312	566500	4124700	213.36	85040121	PADNSH8	80	3	1
7	ISCST3	MamNP_8 SO2	24-HR	ALL	2ND	6.41236	566500	4124700	213.36	85021424	PADNSH8	80	3	1
8	ISCST3	MamNP_8 SO2	24-HR	TGS	2ND	2.31274	566500	4124700	213.36	85051524	PADNSH8	80	3	1
9	ISCST3	MamNP_8 SO2	24-HR	WILSON	2ND	3.49729	566500	4124700	213.36	85051624	PADNSH8	80	3	1
10	ISCST3	MamNP_8 SO2	PERIOD	ALL	1ST	0.68772	566500	4124700	213.36	8760	PADNSH8	80	3	1
11	ISCST3	MamNP_8 SO2	PERIOD	TGS	1ST	0.13746	566500	4124700	213.36	8760	PADNSH8	80	3	1
12	ISCST3	MamNP_8 SO2	PERIOD	WILSON	1ST	0.2015	566500	4124700	213.36	8760	PADNSH8	80	3	1
13	ISCST3	MamNP_8 SO2	3-HR	ALL	2ND	21.9115	566500	4124700	213.36	86091124	PADNSH8	80	3	1
14	ISCST3	MamNP_8 SO2	3-HR	TGS	2ND	13.36711	566500	4124700	213.36	86021509	PADNSH8	80	3	1
15	ISCST3	MamNP_8 SO2	3-HR	WILSON	2ND	13.03952	566500	4124700	213.36	86040421	PADNSH8	80	3	1
16	ISCST3	MamNP_8 SO2	24-HR	ALL	2ND	5.1872	566500	4124700	213.36	86061224	PADNSH8	80	3	1
17	ISCST3	MamNP_8 SO2	24-HR	TGS	2ND	2.48945	566500	4124700	213.36	86061224	PADNSH8	80	3	1
18	ISCST3	MamNP_8 SO2	24-HR	WILSON	2ND	2.53531	566500	4124700	213.36	86031524	PADNSH8	80	3	1
19	ISCST3	MamNP_8 SO2	PERIOD	ALL	1ST	0.80966	566500	4124700	213.36	8760	PADNSH8	80	3	1
20	ISCST3	MamNP_8 SO2	PERIOD	TGS	1ST	0.17723	566500	4124700	213.36	8760	PADNSH8	80	3	1
21	ISCST3	MamNP_8 SO2	PERIOD	WILSON	1ST	0.19211	566500	4124700	213.36	8760	PADNSH8	80	3	1
22	ISCST3	MamNP_8 SO2	3-HR	ALL	2ND	23.70908	566500	4124700	213.36	87072806	PADNSH8	80	3	1
23	ISCST3	MamNP_8 SO2	3-HR	TGS	2ND	12.38338	566500	4124700	213.36	87102421	PADNSH8	80	3	1
24	ISCST3	MamNP_8 SO2	3-HR	WILSON	2ND	16.66644	566500	4124700	213.36	87072121	PADNSH8	80	3	1
25	ISCST3	MamNP_8 SO2	24-HR	ALL	2ND	9.26679	566500	4124700	213.36	87030224	PADNSH8	80	3	1
26	ISCST3	MamNP_8 SO2	24-HR	TGS	2ND	2.74167	566500	4124700	213.36	87121224	PADNSH8	80	3	1
27	ISCST3	MamNP_8 SO2	24-HR	WILSON	2ND	2.77774	566500	4124700	213.36	87072124	PADNSH8	80	3	1
28	ISCST3	MamNP_9 SO2	PERIOD	ALL	1ST	0.78778	566500	4124700	213.36	8760	PADNSH9	80	3	1
29	ISCST3	MamNP_9 SO2	PERIOD	TGS	1ST	0.15461	566500	4124700	213.36	8760	PADNSH9	80	3	1
30	ISCST3	MamNP_9 SO2	PERIOD	WILSON	1ST	0.2609	566500	4124700	213.36	8760	PADNSH9	80	3	1
31	ISCST3	MamNP_9 SO2	3-HR	ALL	2ND	27.26534	566500	4124700	213.36	90090603	PADNSH9	80	3	1
32	ISCST3	MamNP_9 SO2	3-HR	TGS	2ND	10.30541	566500	4124700	213.36	90092206	PADNSH9	80	3	1
33	ISCST3	MamNP_9 SO2	3-HR	WILSON	2ND	19.081	566500	4124700	213.36	90070121	PADNSH9	80	3	1
34	ISCST3	MamNP_9 SO2	24-HR	ALL	2ND	5.5793	566500	4124700	213.36	90101024	PADNSH9	80	3	1
35	ISCST3	MamNP_9 SO2	24-HR	TGS	2ND	2.23038	566500	4124700	213.36	90092224	PADNSH9	80	3	1
36	ISCST3	MamNP_9 SO2	24-HR	WILSON	2ND	3.14006	566500	4124700	213.36	90072324	PADNSH9	80	3	1
37	ISCST3	MamNP_9 SO2	PERIOD	ALL	1ST	0.70678	566500	4124700	213.36	8760	PADNSH9	80	3	1
38	ISCST3	MamNP_9 SO2	PERIOD	TGS	1ST	0.13014	566500	4124700	213.36	8760	PADNSH9	80	3	1
39	ISCST3	MamNP_9 SO2	PERIOD	WILSON	1ST	0.22788	566500	4124700	213.36	8760	PADNSH9	80	3	1
40	ISCST3	MamNP_9 SO2	3-HR	ALL	2ND	23.88904	566500	4124700	213.36	91081903	PADNSH9	80	3	1
41	ISCST3	MamNP_9 SO2	3-HR	TGS	2ND	12.99184	566500	4124700	213.36	91120903	PADNSH9	80	3	1
42	ISCST3	MamNP_9 SO2	3-HR	WILSON	2ND	16.64569	566500	4124700	213.36	91022009	PADNSH9	80	3	1
43	ISCST3	MamNP_9 SO2	24-HR	ALL	2ND	6.17439	566500	4124700	213.36	91082024	PADNSH9	80	3	1
44	ISCST3	MamNP_9 SO2	24-HR	TGS	2ND	2.3112	566500	4124700	213.36	91032424	PADNSH9	80	3	1
45	ISCST3	MamNP_9 SO2	24-HR	WILSON	2ND	2.69739	566500	4124700	213.36	91122524	PADNSH9	80	3	1

\*\*\* ISCST3 - VERSION 02035 \*\*\*

\*\*\* THOROUGHbred GENERATING STATION

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\*\*\* Model Executed on 10/17/03 at 12:13:06 \*\*\*

Input File - Q:\Environ\Working\16833\_01 Big Rivers\Modeling\SCI Model\Mammoth Cave\MamNP\_87\_SO2.DTA

Output File - Q:\Environ\Working\16833\_01 Big Rivers\Modeling\SCI Model\Mammoth Cave\MamNP\_87\_SO2.LST

Met File - D:\met\Kentucky\Paducah\PADNSH87.ASC

Number of sources - 80  
Number of source groups - 3  
Number of receptors - 1

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

	NUMBER	EMISSION	RATE		BASE	STACK	STACK	STACK	STACK	
	BUILDING	EMISSION	RATE							
	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT	VEL.
	DIAMETER	EXISTS	SCALAR	VARY						
	ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)		
	(METERS)	BY								
EDG	0	0.12499E-01	492169.0	4129358.0	134.1	24.38	770.37	49.96	0.46	NO
HROFDY										
SGU001	0	0.38465E+03	492068.5	4129546.0	134.1	198.12	327.04	21.25	7.92	
NO										
SGU002	0	0.38465E+03	492075.6	4129551.0	134.1	198.12	327.04	21.25	7.92	
NO										
DFP001	0	0.12499E-01	492042.2	4129224.0	134.1	4.27	633.15	49.93	0.15	NO
HROFDY										
AB001	0	0.18900E+01	492114.8	4129270.8	134.1	85.34	449.82	22.06	1.83	NO
HROFDY										
DFP002	0	0.12499E-01	492033.8	4129232.5	134.0	14.00	633.15	49.99	0.15	NO

HROFDY										
SRC1	0	0.10466E-01	524900.0	4117600.0	147.0	13.11	383.15	23.62	0.91	
NO										
SRC3	0	0.40273E-01	533100.0	4109100.0	135.0	4.88	408.15	36.88	0.70	NO
SRC4	0	0.12600E+02	458705.0	4076361.0	167.2	40.23	504.82	10.03	0.76	
NO										
SRC5	0	0.11382E+01	458705.0	4076361.0	167.2	35.36	315.93	14.60	0.76	
NO										
SRC6	0	0.77670E-02	458705.0	4076361.0	167.2	12.80	338.15	17.83	0.10	
NO										
SRC7	0	0.11722E-01	458705.0	4076361.0	167.2	10.06	430.93	7.99	0.79	
NO										
SRC8	0	0.54977E-01	459700.0	4054700.0	166.6	17.98	519.26	4.88	1.19	
NO										
SRC9	0	0.30809E-02	459226.0	4076450.0	171.0	15.24	298.15	12.92	0.91	
NO										
SRC10	0	0.19610E-01	457229.0	4083271.0	184.0	3.05	794.26	3.05	0.18	
NO										
SRC11	0	0.47120E-02	462500.0	4074800.0	187.8	13.11	490.93	13.11	2.99	
NO										
SRC13	0	0.65263E+00	492100.0	4181100.0	122.7	7.92	415.93	4.88	2.01	
NO										
SRC14	0	0.31846E-01	492000.0	4180000.0	124.0	7.01	449.82	11.89	0.61	
NO										
SRC15	0	0.53985E-01	488200.0	4181100.0	124.3	43.89	438.15	0.91	2.41	
NO										
SRC16	0	0.26321E+02	491200.0	4180800.0	128.7	32.92	429.82	14.94	1.40	
NO										
SRC18	0	0.55143E-02	493000.0	4180100.0	123.8	11.89	504.82	25.91	0.70	
NO										
SRC19	0	0.11291E+00	487233.0	4182898.0	125.3	13.11	533.15	15.85	0.30	
NO										
SRC20	0	0.40633E-01	495500.0	4184400.0	123.3	9.14	422.04	3.96	1.89	
NO										
SRC21	0	0.28798E-01	473447.0	4185797.0	126.5	24.08	422.04	9.30	1.22	
NO										
SRC22	0	0.27024E+01	487300.0	4181800.0	124.6	9.14	338.15	49.99	1.49	
NO										
SRC23	0	0.24423E+01	495500.0	4184500.0	125.2	11.89	589.26	11.89	0.79	
NO										
SRC24	0	0.40272E+00	496100.0	4185400.0	119.2	0.91	422.04	0.37	4.11	
NO										
SRC25	0	0.11196E+00	489132.0	4176423.0	119.0	6.10	588.71	15.79	0.61	
NO										
SRC28	0	0.21673E-01	561100.0	4146700.0	207.1	4.88	435.93	10.97	0.61	
NO										
SRC29	0	0.52881E+00	546609.0	4136698.0	157.4	7.01	589.26	2.13	0.09	
NO										
SRC30	0	0.69040E-04	546609.0	4136698.0	157.4	2.13	527.04	2.13	0.09	
NO										





SRC49	0	0.10584E-01	489700.0	4145500.0	142.5	10.06	415.93	45.11	6.49
NO									
SRC50	0	0.88465E-01	495300.0	4104200.0	204.0	10.06	422.04	0.91	0.61
NO									
SRC51	0	0.11733E+00	496500.0	4120500.0	133.0	7.01	310.93	13.11	0.79
NO									
SRC52	0	0.11733E+00	496500.0	4120500.0	133.0	7.92	294.26	14.02	1.31
NO									
SRC53	0	0.36998E+00	496500.0	4120500.0	133.0	7.92	294.26	14.02	1.31
NO									
SRC54	0	0.19656E-02	496500.0	4120500.0	133.0	7.01	298.15	57.91	3.29
NO									
SRC56	0	0.31698E+01	491558.0	4130409.0	125.1	3.96	322.04	93.88	1.49
NO									
SRC57	0	0.40269E+00	483374.0	4124288.0	169.2	6.40	449.82	20.42	0.88
NO									
SRC58	0	0.38833E-01	510894.0	4138301.0	126.4	11.89	560.93	10.06	0.91
NO									
SRC59	0	0.29917E-01	516800.0	4152700.0	133.4	9.14	338.15	10.06	1.19
NO									
SRC60	0	0.34662E+03	492800.0	4144614.0	121.7	182.88	325.93	7.59	10.36
NO									
SRC60B	0	0.23675E+03	492800.0	4144614.0	121.7	182.88	325.93	7.59	10.36
NO									
SRC61	0	0.19143E+00	506269.0	4139991.0	149.7	10.67	310.93	21.34	0.30
NO									
SRC62	0	0.28995E+00	479800.0	4076600.0	208.4	6.71	380.37	39.53	0.91
NO									
SRC63	0	0.24448E-01	479800.0	4076600.0	208.4	5.49	435.93	18.96	1.02
NO									
SRC64	0	0.61969E-02	556000.0	4096100.0	166.6	9.14	333.15	27.13	2.01
NO									
SRC65	0	0.35599E-01	546500.0	4096100.0	144.5	9.14	435.93	21.03	1.19
NO									
SRC66	0	0.94585E+00	555600.0	4096700.0	165.0	11.89	435.93	45.11	0.61
NO									
SRC67	0	0.43090E-02	547500.0	4090300.0	152.3	11.89	503.15	13.11	0.70
NO									
SRC68	0	0.38232E-02	545600.0	4087100.0	177.4	14.02	463.15	24.99	2.01
NO									
SRC69	0	0.11347E+01	554300.0	4096300.0	142.6	18.29	1014.82	0.88	1.01
NO									
SRC70	0	0.18920E-01	544681.0	4087317.0	169.3	13.41	455.37	0.46	1.07
NO									
SRC71	0	0.43377E-01	549285.0	4095417.0	147.3	6.10	294.26	1.16	2.99
NO									
SRC72	0	0.49983E-02	544826.0	4087934.0	172.9	15.85	344.26	0.94	1.80
NO									
SRC73	0	0.94498E-02	548200.0	4095100.0	144.8	11.89	310.93	28.96	0.49
NO									
SRC74	0	0.37493E-02	547800.0	4092000.0	146.0	6.10	298.15	0.91	0.76

NO  
 SRC75 0 0.22680E-01 558021.0 4097444.0 165.7 11.89 2479.26 41.15 2.19  
 NO  
 SRC76 0 0.26812E+03 455700.0 4166500.0 129.3 106.68 327.04 22.01 4.57  
 NO  
 SRC77 0 0.26812E+03 455700.0 4166500.0 129.3 106.68 327.04 26.00 4.57  
 NO  
 SRC78 0 0.12665E-01 455300.0 4149800.0 131.4 4.57 867.04 29.99 0.26  
 NO

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

GROUP ID

SOURCE IDs

ALL EDG ,SGU001 ,SGU002 ,DFP001 ,AB001 ,DFP002 ,SRC1 ,SRC3 ,SRC4 ,  
 SRC5 ,SRC6 ,SRC7 ,

SRC8 ,SRC9 ,SRC10 ,SRC11 ,SRC13 ,SRC14 ,SRC15 ,SRC16 ,SRC18 ,  
 SRC19 ,SRC20 ,SRC21 ,

SRC22 ,SRC23 ,SRC24 ,SRC25 ,SRC28 ,SRC29 ,SRC30 ,SRC31 ,SRC32 ,  
 SRC27 ,SRC33 ,SRC34 ,

SRC35 ,SRC36 ,SRC37 ,SRC38 ,SRC39 ,SRC40 ,SRC41 ,SRC42 ,SRC43 ,  
 SRC44 ,SRC45 ,SRC46 ,

SRC47 ,SRC48 ,SRC49 ,SRC50 ,SRC51 ,SRC52 ,SRC53 ,SRC54 ,SRC56 ,  
 SRC57 ,SRC58 ,SRC59 ,

SRC60 ,SRC60B ,SRC61 ,SRC62 ,SRC63 ,SRC64 ,SRC65 ,SRC66 ,SRC67 ,  
 SRC68 ,SRC69 ,SRC70 ,

SRC71 ,SRC72 ,SRC73 ,SRC74 ,SRC75 ,SRC76 ,SRC77 ,SRC78 ,

TGS EDG ,SGU001 ,SGU002 ,DFP001 ,AB001 ,DFP002 ,

WILSON SRC60 ,SRC60B ,

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

\*\*\*

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

\*\*

GROUP ID                      AVERAGE CONC                      NETWORK  
 TYPE GRID-ID                      RECEPTOR (XR, YR, ZELEV, ZFLAG) OF

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ALL    1ST HIGHEST VALUE IS    0.80966 AT ( 566500.00, 4124700.00, 213.36, 0.00)  
 DC    NA  
       2ND HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       3RD HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       4TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       5TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       6TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       7TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       8TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       9TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       10TH HIGHEST VALUE IS   0.00000 AT ( 0.00, 0.00, 0.00, 0.00)

TGS    1ST HIGHEST VALUE IS    0.17723 AT ( 566500.00, 4124700.00, 213.36, 0.00)  
 DC    NA  
       2ND HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       3RD HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       4TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       5TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       6TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       7TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       8TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       9TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       10TH HIGHEST VALUE IS   0.00000 AT ( 0.00, 0.00, 0.00, 0.00)

WILSON 1ST HIGHEST VALUE IS   0.19211 AT ( 566500.00, 4124700.00, 213.36, 0.00)  
 DC    NA  
       2ND HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       3RD HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       4TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       5TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       6TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       7TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       8TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       9TH HIGHEST VALUE IS    0.00000 AT ( 0.00, 0.00, 0.00, 0.00)  
       10TH HIGHEST VALUE IS   0.00000 AT ( 0.00, 0.00, 0.00, 0.00)

\*\*\* THE SUMMARY OF HIGHEST 3-HR RESULTS \*\*\*

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

GROUP ID                      DATE                      NETWORK  
 ZELEV, ZFLAG)    AVERAGE CONC    (YYMMDDHH)                      RECEPTOR (XR, YR,  
 OF TYPE GRID-ID

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ALL HIGH 2ND HIGH VALUE IS 23.70908c ON 87072806: AT ( 566500.00, 4124700.00,  
 213.36, 0.00) DC NA  
 TGS HIGH 2ND HIGH VALUE IS 12.38338 ON 87102421: AT ( 566500.00, 4124700.00,  
 213.36, 0.00) DC NA  
 WILSON HIGH 2ND HIGH VALUE IS 16.66644c ON 87072121: AT ( 566500.00,  
 4124700.00, 213.36, 0.00) DC NA

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

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

GROUP ID ZELEV, ZFLAG)	DATE AVERAGE CONC (YYMMDDHH) OF TYPE GRID-ID	NETWORK RECEPTOR (XR, YR,
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ALL HIGH 2ND HIGH VALUE IS 9.26679 ON 87030224: AT ( 566500.00, 4124700.00,  
 213.36, 0.00) DC NA  
 TGS HIGH 2ND HIGH VALUE IS 2.74167 ON 87121224: AT ( 566500.00, 4124700.00,  
 213.36, 0.00) DC NA  
 WILSON HIGH 2ND HIGH VALUE IS 2.77774c ON 87072124: AT ( 566500.00,  
 4124700.00, 213.36, 0.00) DC NA

W1 2002 Emissions Data

Heat Input (mmBtu) 30,792,520  
 Hours Operation 7,337.75

	<u>SO2</u>	<u>NOx</u>	<u>TSP</u>	<u>PM-10</u>	<u>PM-2.5</u>
Tons	8,893.2	8,365.9	47.5	10.9	2.8
lbs/hr	2,423.958	2,280.236	12.933	2.974	0.776
% Reduction	90.90%	37.02%	99.90%	99.90%	99.90%

Data Source:

EDR Hours Operation; SO2 tons; NOx tons;  
 KyEIS TSP tons; PM-10 tons; % Reduction  
 PM-10 tons w/ PM-2.5 factor PM-2.5 tons