May 31, 85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF
AMD

Donald F. Theiler, Director
Bureau of Air Management
Wisconsin Department of Natural
Resources
P.O. Box 7921
Madison, Wisconsin 53707

Dear Mr. Theiler:

On March 12-14, 1985, members of my staff participated in the audit of the Wisconsin DNR. The most significant SIP issue to arise during the audit concerns the State's SO_2 rule. As you are aware, final rules and complete technical support materials must be submitted to the U.S. Environmental Protection Agency (USEPA) by September 30, 1985. The vast amount of work to be completed within the next few months will place a tremendous burden on the State's resources. Consequently, the purpose of this letter is to offer special technical assistance to you on this project. We also wish to initiate a tracking mechanism to identify all necessary work and to ensure that this work gets done on time. Essentially, this work consists of performing the modeling, establishing the appropriate emission limit, preparing technical support materials, and submitting the rules and technical support to USEPA.

Attachment #1 presents a summary of the State's various SO_2 rules and USEPA's rulemaking status on these rules. These rules are comprised of two major components (the Statewide Rule and various individual source/area rules) which are discussed separately below.

Statewide Rule

Attachment #2 lists those sources covered by the Statewide Rule. On this list, we have identified the fuel types (based on DNR's February 4, 1985 memo summarizing the 1983 SO_2 Emission Inventory) and the applicable categorical emission limitation. We believe that it would be beneficial to USEPA, the State, and the affected sources to have such a consolidated list available. We would appreciate any comments that you may have on this list. Also included on the list is a column entitled "Status of Modeling". This column could be used as a tracking mechanism for the modeling.

We envision the categorical modeling process as follows:

1. Each source/area is modeled pursuant to the protocol outlined in my October 9, 1984 letter to you. (Note, in multi-source areas, the analyses could be simplified by: a)identifying the "major" sources through an initial screening analysis, b)modeling only these major sources with the full years of meteorological data, c)selecting critical days from the full-year modeling based on the top 5-10 second high concentrations due to all sources and the top 5-10

concentrations due to each major source, and d)modeling all sources on these critical days. Subsequent changes in stack parameters for a major source may necessitate selecting new critical days (for that source) and remodeling these days.)

If the modeling shows that the NAAQS (and PSD increments, if applicable) are protected, then the categorical limit is supportable. The "Status of Modeling" column can then be marked "complete". (Concerning the PSD review, it is necessary to determine if the new emission limitations represent an increase in baseline emissions for those sources located in areas where the baseline date has been triggered. If the allowable emissions are less than or essentially equal to the baseline emissions, then no increment is consumed and the review is complete. If the allowable emissions are greater, however, then this increase in emissions must be modeled to determine the amount of increment consumed. We wish to emphasize that this review only applies in those counties where the SO_2 baseline date has been triggered. We think that these counties and dates are Manitowoc (1979), Price (1980), Outagamie (1983), Calumet (1983), and Wood (1985). Please let us know if this list is correct.)

2. If the modeling shows that the NAAQS (or PSD increments, if applicable) are not protected, then, pursuant to NR 154.12(11)(d), the State will require a more restrictive emission limit. The "Status of Modeling" column can be marked "MREL" (more restrictive emission limit) to reflect that a tighter limit will be incorporated into an Elective Operating Permit. A separate tracking log should be established for these sources.

3. For sources requesting Alternate (ALT) or Variance (VAR) limits, the "Status of Modeling" column should be marked accordingly. (We have already identified those sources which we believe have requested such limits.) Each request will be reviewed on its merits to determine the acceptability of the proposed limits which will be incorporated into an Elective Operating Permit. The State has already established a tracking log for these sources (see Attachment #3).

We offer our assistance for each of these steps. Specifically, we could: 1)perform the protocol modeling for those sources/areas that you have not modeled yet, 2)perform any additional modeling for those sources/areas needing a more restrictive limit, and 3) perform the review of the alternate/variance limit requests. We leave it up to you to identify those sources/areas that you want us to take the lead on. (We, of course, would coordinate our analyses/comments with DNR prior to any contact with an affected source.) In the case of the alternate limit request, for example, we could review all the power plants, which comprise 11 of the 22 requests. (As you may also know, we have already gotten actively involved on 5 other alternate requests because of the PREWAK issue.)

After the modeling is completed, it is then necessary to establish the appropriate emission limits. As noted above, these limits will consist of either the categorical limit or a source-specific limit that will be included in an EOP.

Technical support for sources covered by the categorical limit should consist of a brief summary which: a)identifies the model, model input data (emission inventory, receptor network, meteorological data, and background), and critical concentrations for all averaging times, and b)discusses any items of interest, such as building downwash, ambient air, and PSD increment consumption. DNR's "glossary" memo for categorical SO_2 limit modeling is well-suited to provide this basic information. Technical support for sources covered by an EOP should consist of this same basic information, but in a slightly expanded format. DNR's December 17, 1984 "Modeling Review of Consolidated Papers-Biron PSD Application" provides a good example of the necessary detail. (Note, we suggest that, in addition to the information presented in this Biron memo, DNR also identify the model(s) used and discuss any items of interest.)

Individual Source/Area Rules

Attachment #4 lists those sources/areas covered by individual source/area rules.

USEPA's Notice of SIP deficiency applied statewide, except for those sources regulated under NSPS and for those areas covered by a USEPA-approved Part D SIP. According to our list, the following sources/areas are exempt:

Madison
Brokaw
Appleton Papers (New Boiler)
Consolidated Papers-Biron (Boiler 5)
WPS Weston (Unit 3)
WPL Edgewater (Unit 5)
WEPCO Pleasant Prairie (Units 1,2)
WPL Columbia (Unit 2)
DP Alma (Unit 6)
Flambeau Papers (New Boiler)

Please note, however, that the emission limits for Madison, Brokaw, WPS Weston, WPL Edgewater, and DP Alma (and maybe some of these other sources) may need to be revised pursuant to EPA's soon-to-be-finalized stack height regulations.

Each of the other sources/areas in Attachment #3 that are covered by our SIP deficiency notice are discussed below.

1. Rhinelander - We are still awaiting submittal of the State's rules.

2. Rothschild, Peshtigo - We are currently reviewing the State's rules and expect to initiate rulemaking soon.

3. Milwaukee - We published a proposed approval of the WEPCO Valley limit on August 17, 1984. A notice of final rulemaking has been forwarded to EPA Headquarters. We believe that the 2.22 lbs/MMBTU limit for small coal-burning sources will be part of the categorical modeling for SE Wisconsin. Thus, we will act on the 2.22 limit and the categorical limits for this area together.

4. Green Bay - As we discussed in our February 14, 1985 meeting, further analyses (if necessary) of the Green Bay SIP will await promulgation of USEPA's stack height regulations. Two items which should be resolved in the meantime are: 1)the land use/population density analysis and 2)the protocol for performing additional analyses for P&G Fox River, if necessary. Accordingly, we ask that you provide us with up-dated land use and population density data. As for P&G Fox River, we suggest two options:

   1) Analyze the existing St. Vincent DePaul monitored data (under conditions when the winds are from the Fox River plant and the bark combustor is not operating) to determine if the NAAQS would be protected with the Fox River plant operating at its modeled emission limitation and emission rate. Concurrent hourly (or daily) ambient SO_2 and fuel/emissions data are required for this analysis.

   2) Perform a new study with additional ambient monitors and the bark combustor not operating (or not vented to the boiler stack). The new data would be analyzed the same as in Option 1.

We would appreciate DNR's and P&G's thoughts on these options. As noted in our meeting, these additional analyses will only be necessary if the final stack height rules include merged stacks as a prohibited dispersion technique.

5. PSD Permits - As noted in Attachment #3, limits for existing sources are included in several of the new source PSD permits. DNR should review these limis to determine if they are still applicable (or will be superceded by a categorical limit).

In summary, we offer our assistance to you on the modeling for the sources covered by the categorical Statewide Rule and on reviewing requests for alternate emission limits. We believe that DNR and EPA should also begin a tracking mechanism to ensure that all the necessary work gets done on time. We also want to remind you on what needs to be done for those sources not covered by the Statewide Rule.

In order to implement our offer of assistance, I have appointed Mike Koerber to be our main contact to coordinate our technical efforts. If you have any questions concerning this letter, please contact Mike at (312) 886-6061. We await your response.

Sincerely,

Steve Rothblatt, Chief
Air and Radiation Branch

Attachments

Attachment #1

WISCONSIN SO_2 RULES

Section	Description	EPA Action
154.12(1)	General Limitations- a) Ambient Standard Restriction b) %S in stand-by fuel limits for sources in SE Wisconsin AQCR c) TRS limits from pulping operations	Approved: 5/31/72 (37 FR 10902)
154.12(2)	Sulfur Limitations a) New (modified) fossil fuel-fired steam generators > 250 MMBTU/hr b) New (modified) sulfuric acid plants c) Sources in SE Wisconsin AQCR less than 250 MMBTU shall not burn coal with sulfur content above 1.11 lbs/MMBTU	No action
154.12(3)	Petroleum Refineries	No action
154.12(4)	Brokaw RACT Sulfur Limitations (Wausau Papers)	Approved 1979 version: 4/9/81 (46 FR 21165) No final action on 1982 revision
154.12(5)	Madison RACT Sulfur Limitations (Oscar Mayer, MG&E Blount Street, UW-Capitol Htg Plant, UW-Hill Farms, UW-Mendota Hospital, UW-Charter St. Plant, UW-Walnut St. Plant)	Approved 1979 version: 4/9/81 (46 FR 21165) Approved 1981 revision (for Oscar Mayer): 4/13/83 (48 FR 15783)
154.12(6)	Milwaukee RACT Sulfur Limitations (WEPCO Valley)	Proposed Approval: 8/17/84 (49 FR 32865)

Section	Description	EPA Action
154.12(7)	Green Bay and DePere RACT Sulfur Limitations (WPS Pulliam, GB Packaging Fort Howard, P&G Fox River, P&G East River, James River, Nicolet Paper)	No Action
154.12(8)	Peshtigo RACT Sulfur Limitations (Badger Papers)	No Action
154.12(9)	Rothschild RACT Sulfur Limitations (Weyerhauser Papers)	No Action
154.12(10)	Rhinelander RACT Sulfur Limitations (Rhinelander Papers)	Not Submitted
154.12(11)	Statewide Sulfur Dioxide Limitations (see Attachment #2 for list of covered sources)	Not Submitted

(Note, some other sources are covered by federally enforceable) PSD permits.

ATTACHMENT #2

AREAS AND SOURCES IN WISCONSIN
COVERED BY THE PROPOSED SO_2 RULES

NUS ELING	DISTRICT	COUNTY	CITY	SOURCE	FUEL	TOTAL BOILER SIZE	EMISSION LIMIT
	LM X	Brown	Green Bay	Green Bay Correctional Institute	COAL	30.0	5.5
	LM X	Brown	Green Bay	C. Reiss Coal - Briquette Plt	COAL	5.1	5.5
	LM X	Brown	Green Bay	St. Vincent Hospital	#6 OIL	47.0	3.0
	LM	Brown	Green Bay	UW - Green Bay	#2 OIL	200.0	–
	LM X	Kewaunee	Algoma	Algoma Hardwoods	#6 OIL	60.0	3.0
	LM X	Manitowoc	Manitowoc	Manitowoc Public Utilities	COAL	926.9	3.2
	LM X	Manitowoc	Manitowoc	Manitowoc Co. - South Works	COAL	105.0	5.5
	LM X	Manitowoc	Manitowoc	Manitowoc Co.	#6 OIL	135.0	3.0
	LM X	Marinette	Marinette	Ansul Company	COAL	93.5	5.5
	LM X	Marinette	Marinette	Rodman Industries	COAL	20.0	5.5
T	LM X	Marinette	Niagara	Niagara of Wisconsin	COAL	402.0	3.2
	LM X	Oconto	Oconto Falls	Scott Paper	COAL	57.2	5.5
	LM X	Outagamie	Appleton	Consolidated Papers - Appleton	#6 OIL	132.0	3.0
	LM X	Outagamie	Appleton	Kerwin Papers	COAL	36.0	5.5
	LM XX	Outagamie	Appleton	Appleton Papers (Locks Mill)	COAL/#6 OIL	444.0	5.5/1.5
	LM X	Outagamie	Appleton	Oconomowoc Canning Co.	#5 OIL	20.1	3.0
T	LM X	Outagamie	Kaukauna	Thilmany Papers	COAL/#6 OIL	571.4	3.2/1.5
	LM X	Outagamie	Kimberly	Nicolet Papers	COAL/#6 OIL	520.0	3.2/1.5
	LM X	Shawano	Shawano	Shawano Papers	#6 OIL	109.0	3.0
	LM X	Waupaca	Clintonville	FWD Corporation	#5 OIL	39.8	3.0
	LM XX	Winnebago	Menasha	Gilbert Paper	#6 OIL/COAL	136.0	5.5/3.0
	LM X	Winnebago	Menasha	Menasha Electric	COAL	474.5	3.2
	LM X	Winnebago	Menasha	U.S. Paper Mills (Menasha Paperboard)	COAL	230.5	5.5
	LM X	Winnebago	Neenah	American Can	#6 OIL	39.3	3.0
	LM X	Winnebago	Neenah	Kimberly-Clark	#6 OIL	152.6	3.0
	LM X	Winnebago	Neenah	P.H. Glatfelter	#6 OIL	544.0	1.5
	LM X	Winnebago	Neenah	Eggers Industries	COAL	20.7	5.5
	LM X	Winnebago	Neenah	Galloway Co.	#6 OIL	38.8	3.0
	LM X	Winnebago	Oshkosh	UW-Oshkosh	COAL	122.6	5.5
	NC X	Lincoln	Merrill	Ward Paper	COAL	19.2	5.5
	NC XX	Lincoln	Tomahawk	Owens - Illinois	COAL/#6 OIL	558.9	3.2/3.0
T	NC XX	Marathon	Mosinee	Mosinee Papers	COAL/#6 OIL	359.4	3.2/1.5
	NC X	Marathon	Wausau	Connor Forest - Cabinet Div.	COAL	36.6	5.5
T	NC X	Marathon	Weston	Wisconsin Public Service Corp - Weston (Units 1,2)	COAL	5565.0	3.2
	NC X	Portage	Plover	American Potato Division	#6 OIL	51.2	3.0
	NC X	Portage	Plover	Del Monte	#6 OIL	134.0	3.0
	NC X	Portage	Plover	Ore-Ida	#6 OIL	178.8	3.0
	NC X	Portage	Stevens Point	Consolidated Papers - Stevens Point	COAL	150.0	5.5
	NC X	Portage	Stevens Point	University of Wisconsin - Stevens Point	COAL	130.0	5.5
	NC X	Portage	Stevens Point	SNE-Stevens Point	COAL	5.8	5.5
	NC X	Portage	Whiting	Neenah Paper - Whiting Mill	#6 OIL	49.3	3.0
T	NC X	Wood	Biron	Consolidated Papers - Biron	COAL	720.0	3.2
	NC X	Wood	Marshfield	Marshfield Electric	COAL	372.0	3.2
	NC X	Wood	Marshfield	Edelweiss Cheese	COAL	20.0	5.5
	NC XX	Wood	Marshfield	Rollohome Corp.	#6 OIL/COAL	2.7	5.5/3.0

STATUS OF MODELING

							FUEL		EMISSION LIMIT
	NC	XX	Wood	Marshfield	St. Joseph's Hospital		COAL/#6OIL	72.4	5.5/3.0
	NC	X	Wood	Marshfield	Weyerhaeuser Co. - Marshfield		#6OIL	61.2	3.0
ALT	NC	XX	Wood	Nekoosa	Nekoosa Papers - Nekoosa		COAL/#6OIL	511.0	3.2/1.5
ALT	NC	X	Wood	Port Edwards	Nekoosa Papers - Port Edwards		#6OIL	458.2	-
ALT	NC	X	Wood	Wisconsin Rapids	Consolidated Papers - Wisconsin Rapids		COAL	500.0	3.2
	NW	X	Ashland	Ashland	Lake Superior District Power - Ashland		COAL	300.2	3.2
	NW	X	Ashland	Ashland	James River		#6OIL	34.8	3.0
	NW	X	Ashland	Butternut	Ashland Timber Co.		COAL	28.8	5.5
	NW	X	Ashland	Mellen	Louisana-Pacific		#6OIL	6.8	3.0
	NW	X	Barron	Cameron	Kuelter Cheese		COAL	8.4	5.5
	NW	X	Barron	Cumberland	Seneca Foods Corp.		#6OIL	33.4	3.0
	NW	X	Barron	Turtle Lake	AMPI - Turtle Lake		#6OIL	34.2	3.0
	NW	X	Barron	Rice Lake	Consolidated Badger		COAL	38.0	5.5
	NW	X	Douglas	Hawthorne	Middle River Health Facility		COAL	13.2	5.5
	NW		Douglas	Superior	C.L.M.			1000.0	
ALT	NW		Douglas	Superior	Murphy Oil			173.9	
	NW	X	Douglas	Superior	Superior Water & Light		#6OIL	323.9	1.5
	NW	X	Douglas	Superior	University of Wisconsin - Superior		COAL	160.0	5.5
	NW	X	Douglas	Superior	Parkland Health Facility		COAL	10.0	5.5
	NW	X	Douglas	Town of Superior	Koppers Inc.		#6OIL	27.5	3.0
	NW		Polk	Clayton	Wisconsin Dairies			37.6	
	NW	X	Polk	Clear Lake	Land O Lakes		#6OIL	40.2	3.0
	NW	X	Price	Phillips	Lionite Hardwood		#6OIL	30.0	3.0
	NW	XX	Price	Flambeau	Flambeau Papers		#6OIL/ COAL	382.0	3.2/1.5
	NW	X	Rusk	Ladysmith	Pope & Talbot - Ladysmith		COAL	90.7	5.5
	SD	X	Columbia	Poynette	Oconomowoc Canning		[illegible]	32.7	[illegible]
	SD	X	Dane	Madison	Webcrafters		#6OIL	10.0	3.0
	SD	X	Dodge	Beaver Dam	Kraft Inc.		#6OIL	71.3	3.0
	SD	X	Dodge	Horicon	John Deere Horicon Works		#6OIL	70.0	3.0
	SD	X	Dodge	Juneau	Amber Laboratories		#6OIL	40.0	3.0
	SD	X	Dodge	Mayville	Purity Cheese		#6OIL	20.0	3.0
	SD	XX	Dodge	Theresa	Baker Canning Co.		COAL/#6OIL	14.0	5.5/3.0
	SD	X	Fond du Lac	Fond du Lac	Galloway - West		COAL	60.0	5.5
	SD	X	Fond du Lac	Fond du Lac	Wis. State Reformatory - Taycheedah		COAL	6.7	5.5
ALT	SD	X	Grant	Cassville	Dairyland Power - Cassville		COAL	578.0	3.2
	SD	X	Grant	Cassville	Wisconsin Power & Light - Nelson Dewey		COAL	1866.8	3.2
	SD	X	Grant	Platteville	University of Wisconsin - Platteville		COAL	90.0	5.5
	SD	X	Green	Belleville	Deltown Chemurgic Corp.		#5OIL	80.0	3.0
	SD	X	Iowa	Cobb	Oconomowoc Canning Co.		COAL	15.5	5.5
	SD	X	Jefferson	Jefferson	Carnation Co. - Pet Foods		#6OIL	130.0	3.0
	SD	X	Jefferson	Jefferson	Stoppenbach Inc.		COAL	10.0	5.5
	SD	X	Jefferson	Whitewater	University of Wisconsin - Whitewater		COAL	112.4	5.5
	SD	X	Richland	Richland Center	Richland Center Utilities		COAL	155.0	5.5
	SD	X	Rock	Beloit	Colt Industries		COAL	166.2	5.5
ALT	SD	X	Rock	Beloit	Wisconsin Power & Light - Blackhawk		COAL	566.4	3.2
ALT	SD	X	Rock	Beloit	Wisconsin Power & Light - Rock River		COAL	1370.6	3.2
	SD	X	Rock	Beloit	Beloit Corp. - St. Lawrence		#5OIL	47.9	3.0
	SD	X	Rock	Beloit	Geo. Hormel Meats		#6OIL	60.3	3.0
	SD	X	Rock	Evansville	Baker Mfg.		COAL	5.8	5.5
	SD	X	Rock	Janesville	General Motors - Assembly		COAL	543.3	3.2
	SD	X	Columbia	—	WPL Columbia (Unit 1)		COAL	5200.0	3.2
	SD	X	Dodge	Waupun	Waupun Corr. Institute		COAL	142.5	5.5

STATUS OF MODELING						FUEL		EMISSION LIMIT
ALT —	SD		Sauk	Baraboo	U.S. Badger Ammunition	#6 OIL	1156.5	— 1.5
	SE	X	Kenosha	Kenosha	American Brass - Arco Metals	#6 OIL	175.0	— 3.0
	SE		Kenosha	Kenosha	American Motors - Main Plt.	#2 OIL	440.0	
	SE	X	Milwaukee	Cudahy	Cudahy Tanning	COAL	17.0	— 5.5
	SE	X	Milwaukee	Cudahy	Ladish Co.	#6 OIL	283.6	— 1.5
	SE	X	Milwaukee	Cudahy	Patrick Cudahy	#6 OIL	153.0	— 3.0
	SE	X	Milwaukee	Glendale	Continental Can	COAL	10.0	— 5.5
	SE	X	Milwaukee	Milwaukee	Milwaukee County Institutions	COAL	330.0	— 3.2
	SE	X	Milwaukee	Milwaukee	Peter Cooper	#6 OIL	250.0	— 1.5
	SE	X	Milwaukee	Milwaukee	Pfister & Vogel	#6 OIL	60.0	— 3.0
	SE	X	Milwaukee	Milwaukee	Acme Galvanizing	#5 OIL	3.1	— 3.0
	SE	X	Milwaukee	Milwaukee	Allen Bradley	#6 OIL	211.3	— 3.0
	SE	X	Milwaukee	Milwaukee	Allis-Chalmers Power House	#6 OIL	789.0	— 1.5
	SE	X	Milwaukee	Milwaukee	Alton Packaging Corp.	#6 OIL	4.9	— 3.0
	SE	X	Milwaukee	Milwaukee	American Can	#6 OIL	100.0	— 3.0
	SE	X	Milwaukee	Milwaukee	American Linen	#6 OIL	13.8	— 3.0
	SE	X	Milwaukee	Milwaukee	American Motors - Milwaukee	COAL	167.0	— 5.5
	SE	X	Milwaukee	Milwaukee	Eaton/Cutler-Hammer	#6 OIL	72.0	— 3.0
	SE	XX	Milwaukee	Milwaukee	Falk Corp.	COAL/#6 OIL	80.0	— 5.5/3.0
	SE		Milwaukee	Milwaukee	Froedert Malt		20.0	
	SE	X	Milwaukee	Milwaukee	G. E. Medical Systems	#4 OIL	151.2	— 3.0
	SE	X	Milwaukee	Milwaukee	Inryco & Burnham	#6 OIL	96.3	— 3.0
	SE	X	Milwaukee	Milwaukee	Master Lock Co.	#6 OIL	65.6	— 3.0
	SE	X	Milwaukee	Milwaukee	Miller Brewing	#6 OIL	[illegible]	— 3.0
	SE	X	Milwaukee	Milwaukee	Milwaukee Forge	#6 OIL	60.0	— 3.0
	SE	X	Milwaukee	Milwaukee	OMC - Evinrude #1 Plt.	#6 OIL	24.1	— 3.0
	SE	X	Milwaukee	Milwaukee	OMC - Evinrude - Plts 2,5, & Foundry	#6 OIL	50.0	— 3.0
	SE	X	Milwaukee	Milwaukee	P & V Atlas Corp.	#6 OIL	81.4	— 3.0
	SE	X	Milwaukee	Milwaukee	Pabst Brewing	#6 OIL	270.0	—
	SE	X	Milwaukee	Milwaukee	Pfister & Vogel - Tanning	#6 OIL	60.0	— 3.0
	SE		Milwaukee	Milwaukee	Rexnord - Oklahoma		24.6	
	SE	X	Milwaukee	Milwaukee	Safway Steel Products	#5 OIL	5.5	— 3.0
	SE		Milwaukee	Milwaukee	Teledyne Wisconsin Motors - Plt. 1		16.0	
	SE		Milwaukee	Milwaukee	Teledyne Wisconsin Motors - Plt. 2		13.4	
	SE	X	Milwaukee	Milwaukee	Univ. Foods Red Star Yeast	#5 OIL	24.9	— 3.0
	SE	X	Milwaukee	Milwaukee	Vilter Manufacturing	#6 OIL	42.0	— 3.0
	SE	X	Milwaukee	Milwaukee	Wisconsin Paperboard Corp.	#6 OIL	240.0	— 3.0
	SE	X	Milwaukee	Milwaukee	UW - Milwaukee	#5 OIL	470.5	— 1.5
ALT/VAR —	SE	X	Milwaukee	Oak Creek	Wisconsin Electric Power Co. - Oak Creek	COAL	4078.0	— 3.2
	SE	X	Milwaukee	Oak Creek	Delco Electronics	#6 OIL	365.6	— 1.5
	SE		Milwaukee	Wauwatosa	J.C. Penney - Catalog		28.9	
	SE		Milwaukee	West Allis	Kearny & Trecker		50.0	
	SE	X	Milwaukee	West Allis	Unit Drop Forge	#6 OIL	146.5	— 3.0
T/VAR —	SE	X	Ozaukee	Port Washington	Wis. Electric Power Co - Port Washington	COAL	4078.0	— 3.2
	SE	X	Racine	Franksville	Frank Pure Food	COAL	14.7	— 5.5
	SE	X	Racine	Hawkins	Norco Windows	COAL	7.0	— 5.5
	SE	X	Racine	Racine	J. I. Case - Tractor Plant	COAL	79.5	— 5.5
	SE	X	Racine	Racine	Webster Electric	#6 OIL	20.0	— 3.0
	SE	XX	Racine	Racine	Western Publishing	~~COAL~~/COAL	103.0	— 5.5/3.0
	SE	X	Racine	Sturtevant	S. C. Johnson & Son (Waxdale Plt.)	#6 OIL	260.0	— 1.5
	SE	X	Milwaukee		Harley Davidson	COAL	16.8	— 5.5
	SE	X	Milwaukee		Milwaukee County House Corr.	COAL	10.0	— 5.5

					FUEL		EMISSION LIMIT
SE	XX	Sheboygan	Kohler	Kohler Co	COAL/#6OIL	[illegible]0	5.5/1.5
SE	X	Sheboygan	Sheboygan	Wisconsin Power & Light - Edgewater	COAL	4561.0	3.2
SE	X	Sheboygan	Sheboygan	Borden Chemical	#6OIL	33.6	3.0
SE	X	Sheboygan	Sheboygan	General Box Co.	COAL	4.1	5.5
SE	X	Sheboygan	Sheboygan	Plastics Engineering - 15th St. Plt.	#6OIL	114.5	3.0
SE	X	Walworth	East Troy	Colt Industries	#5OIL	18.0	3.0
SE	X	Washington	Slinger	Carbon Engineering	COAL	50.0	5.5
SE	X	Waukesha	Muskego	Muskego Rendering	#6OIL	38.8	30
SE	X	Waukesha	Waukesha	International Harvestor	#6OIL	11.4	3.0
SE		Waukesha	Waukesha	Waukesha Foundry		3.0	
WC	X	Buffalo	Alma	Dairyland Power - Alma	COAL	5790.0	3.2
WC	X	Chippewa	Bloomer	Mid America Dairymen	COAL	16.7	5.5
WC	X	Chippewa	Chippewa Falls	Wisconsin State Ctr. for Dev. Disabled	#6OIL/COAL	132.0	5.5/3.0
WC	XX	Chippewa	Cornell	Genstar Building Materials	COAL/#6OIL	138.8	5.5/3.0
WC	XX	Chippewa	Jim Falls	Falls Dairy	COAL/#6OIL	203.2	5.5/3.0
WC	X	Clark	Granton	Lynn Proteins Inc.	#6OIL	54.6	3.0
WC	X	Dunn	Menomonie	Sanna Co.	#6OIL	70.0	3.0
WC	X	Dunn	Menomonie	University of Wisconsin - Stout	COAL	90.0	5.5
WC	X	Eau Claire	Augusta	Bush Brothers	#6OIL	50.2	3.0
WC	X	Eau Claire	Eau Claire	Pope & Talbot - Eau Claire	#6OIL	345.3	1.5
WC	XX	Eau Claire	Eau Claire	Uniroyal	#6OIL / COAL	371.7	3.2/3.0
WC	X	Eau Claire	Eau Claire	National Presto Industries	#6OIL	100.2	3.0
WC	X	Eau Claire	Eau Claire	Armour Food	#6OIL	40.0	3.0
WC	X	Eau Claire	Eau Claire	Imperial - Clevite	#6OIL	16.7	3.0
WC	X	Eau Claire	Eau Claire	Water Research & Reclamation	#6OIL	16.7	3.0
WC	XX	Eau Claire	Eau Claire	University of Wisconsin-Eau Claire	COAL/#6OIL	134.0	5.5/3.0
WC	X	Jackson	Alma Center	South Alma Cheese	#6OIL	16.7	3.0
WC	X	LaCrosse	Bangor	Webster Wood Preserving	#6OIL	25.1	3.0
WC	XX	LaCrosse	LaCrosse	Trane Company	#6OIL/ COAL	[illegible]0	5.5/3.0
WC	XX	LaCrosse	LaCrosse	University of Wisconsin - LaCrosse	COAL/#6OIL	132.0	5.5/3.0
WC	X	LaCrosse	LaCrosse	G. Heilman	#6OIL	226.3	3.0
WC	X	LaCrosse	LaCrosse	Heilman Malting	#6OIL	10.0	3.0
WC	X	LaCrosse	LaCrosse	Paper Calmenson and Co.	#6OIL	9.0	3.0
WC	X	LaCrosse	LaCrosse	St. Rose Convent & Viterbo College	#6OIL	135.0	3.0
WC	XX	LaCrosse	LaCrosse	Trane Co. Plt #6	COAL/#5OIL	41.0	5.5/3.0
WC	X	Monroe	Sparta	Golden Guernsey Dairy	#6OIL	46.1	3.0
WC	X	Pierce	River Falls	University of Wisconsin - River Falls	#6OIL/COAL	112.8	5.5/3.0
WC	X	St. Croix	New Richmond	Friday Canning Corp.	#6OIL	75.8	3.0
WC	X	St. Croix	New Richmond	St. Croix Health Center	#5OIL	27.4	3.0
WC	X	Trempealau	Whitehall	Whitehall Foods	COAL	36.0	5.5
WC	X	Trempeleau	Blair	ANPI - Blair Cheese	#5OIL	46.1	3.0
WC	X	Trempeleau	Blair	ANPI - Blair Whey	#6OIL	90.0	3.0
WC	X	Vernon	Genoa	Dairyland Power - Genoa	COAL	2786.2	3.2

4668W

Others

Scott Paper - Marinette COAL/5.5
Holy Cross Seminary COAL/5.5
Winnebago Mental Health Inst COAL/5.5
Wisconsin Porcelain COAL/5.5

Wisc State S Wisc Colony & Train. Ctr #6OIL/3.0
UW Parkside #6OIL/3.0
AO Smith #6OIL/3.0
James River-Canal #6OIL/3.0
Am Can - Menasha #6OIL/3.0
Luther Hospital #6OIL/3.0
Greenwood Milk #6OIL/3.0
A-G Coop Creamery #6OIL/3.0

Allied Processors #6OIL/3.0
Steiner Corp #6OIL/3.0
Burnett Hospital #6OIL/3.0
Domain, Inc #6OIL/3.0

FACILITIES AFFECTED
PROCESS SOURCES

1. Kraft Mills

Number of facilities affected 4

A. Consolidated Papers - Wisconsin Rapids

B. Nekoosa Papers - Nekoosa

C. Mosinee Papers - Mosinee

D. Thilmany Pulp and Paper - Kaukauna

2. Sulfite Mills

Number of facilities affected 1

Nekoosa Papers - Port Edwards

3. Petroleum Refineries

Number of facilities affected 1

Murphy Oil - Superior

Attachment #4

AREAS AND SOURCES IN WISCONSIN
NOT
COVERED BY THE STATEWIDE SO_2 RULES

DISTRICT	COUNTY	CITY	SOURCE	EMISSION LIMIT	EPA ACTION
LM	Brown	Green Bay	GB Packaging P&G Fox River P&G East River James River Fort Howard WPS Pulliam	154.12(7)	No action
		DePere	Nicolet Paper		
		Green Bay	P&G Fox River (Fluidized Bed Combustor)	6.2 lbs/hr (27.2 T/yr)	PSD Permit
	MARINETTE	Peshtigo	Badger Papers	154.12(8)	No action
	CALUMET	Brillion	Brillion Iron Works (Preheater)	0.17%S	PSD Permit
	MANITOWOC	Kossuth Township	Rockwell Lime (Lime Kiln No. 2)	2.1%S	PSD Permit
	OUTAGAMIE	Combined Locks	Appleton Papers (New Boiler)	1.12(NSPS)	PSD Permit
NC	WOOD	Biron	Consolidated Papers (Boiler 5)	1.2(NSPS)	PSD Permit (NSPS Limit)
	MARATHON	Brokaw	Wausau Papers	154.12(4)	Approved 1979 version: 4/9/81 No final action on 1982 version
		Rothschild	Weyerhauser	154.12(9)	No action
			WPS Weston -Unit 3 -Units 1,2	 1.2(NSPS) 4.65	PSD Permit
	ONEIDA	Rhinelander	Rhinelander Papers	154.12(10)	No action

DISTRICT	COUNTY	CITY	SOURCE	EMISSION LIMIT	EPA ACTION
SE	SHEBOYGAN	Sheboygan	WPL Edgewater		PSD Permit
			Unit 5	1.2 (NSPS)	
			Units 1,2	0.0	
			Units 3,4	6.7 (2.15 annual average)	
	KENOSHA	Pleasant Prairie	WEPCO Pleasant Prairie(Units 1,2)	1.2(NSPS)	PSD Permit
	MILWAUKEE	Milwaukee	WEPCO Valley	NR 154.12(6)	No final action
	SE WISCONSIN AQCR		Coal burning sources less than 250 MMBTU/hr	2.22	No action
SD	COLUMBIA		WPL Columbia (Unit 2)	1.2(NSPS)	
	DANE	Madison	Oscar Mayer	NR 154.12(5)	Approved 1979
			MG&E Blount Street		version: 4/9/81
			UW-Capitol Htg Plant		(46FR21165)
			UW-Hill Farms		Approved 1981
			UW-Mendota Hospital		revision:
			UW-Charter St Plant		4/13/83
			UW-Walnut St Plant		(48FR15783)
WC	BUFFALO		DP Alma (Unit 6)	1.2(NSPS)	
NW	PRICE		Flambeau Papers		PSD Permit
			-New Boilers	1.2	
			-Boilers 4,5	2.4%S	
			-Digestor Blow Tank, Sulfur Burner, Six Stage Evaporators, and "other sources" SO_2	65.4 lbs/hr (released from 132.5 foot stack)	

30-Jan-85

ALL
BOILERS FIRING COAL
1983
SULFUR DIOXIDE EMISSIONS

Emission Limit → 3.2 #/MMBTU

FACILITY ID NUMBER	FACILITY NAME	TOTAL FACILITY CAPACITY	STACK NUMBER	BOILER NUMBER	FUEL	THRUPUT (TONS/YEAR)	EMISSION FACTOR	FUEL HEAT CONTENT (MMBTU/TON)	FUEL AVERAGE PERCENT SULFUR	FUEL MAXIMUM PERCENT SULFUR	BOILER CAPACITY (MMBTU/HOUR)	FUEL AVERAGE LBS SO2/MMBTU	FUEL MAXIMUM LBS SO2/MMBTU	ACTUAL SO2 EMITTED (TONS/YEAR)	MAXIMUM POSSIBLE SO2 EMITTED (TONS/YEAR)
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S12	B23	BITUMINOUS COAL	170845.0	39.0	23.6	2.75	3.04	1129.00	4.54	5.02	9161.56	10127.69
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S14	B28	BITUMINOUS COAL	392569.0	39.0	23.7	2.87	3.20	2567.00	4.72	5.27	21970.12	24496.31
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S11	B22	BITUMINOUS COAL	183832.0	39.0	23.7	2.78	3.23	991.00	4.57	5.32	9965.53	11578.66
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S11	B21	BITUMINOUS COAL	92978.0	39.0	23.7	2.79	2.96	1087.00	4.59	4.87	5058.47	5366.69
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S13	B25	BITUMINOUS COAL	365691.0	39.0	23.7	2.88	3.12	2296.00	4.74	5.13	20537.21	22248.64
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S13	B26	BITUMINOUS COAL	555933.0	39.0	23.7	2.80	3.05	2283.00	4.61	5.08	30353.94	33497.74
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S12	B24	BITUMINOUS COAL	236831.0	39.0	23.5	2.84	3.48	1115.00	4.71	5.78	13115.70	16071.35
241007690 X	WIS ELECTRIC POWER OAK CREEK STATION	14078.0	S14	B27	BITUMINOUS COAL	605340.0	39.0	23.6	2.78	3.06	2608.00	4.59	5.06	32815.48	36120.64
~~111003090~~	~~WIS PWR & LIGHT COLUMBIA GEN STATION~~	~~10400.0~~	~~S12~~	~~B22~~	~~SUB-BITUMINOUS~~	~~1604833.0~~	~~34.5~~	~~16.7~~	~~0.44~~	~~0.49~~	~~5200.00~~	~~0.92~~	~~1.02~~	~~12276.01~~	~~13671.91~~
111003090 X	WIS PWR & LIGHT COLUMBIA GEN STATION	10400.0	S11	B21	SUB-BITUMINOUS	1955402.0	36.7	17.5	0.73	0.81	5200.00	1.53	1.70	26222.14	29095.80
606018930 X	DAIRYLAND POWER COOP ALMA STATION	9574.0	S10	B23	BITUMINOUS COAL	123606.0	39.0	19.7	2.16	2.94	532.40	4.28	5.82	5206.28	7086.33
606018930 X	DAIRYLAND POWER COOP ALMA STATION	9574.0	S10	B21	BITUMINOUS COAL	19968.1	39.0	19.7	2.16	2.94	198.00	4.28	5.82	841.06	1144.77
606018930 X	DAIRYLAND POWER COOP ALMA STATION	9574.0	S10	B20	BITUMINOUS COAL	19968.1	39.0	19.7	2.16	2.94	198.00	4.28	5.82	841.06	1144.77
606018930 X	DAIRYLAND POWER COOP ALMA STATION	9574.0	S10	B22	BITUMINOUS COAL	16574.1	39.0	19.7	2.16	2.94	289.00	4.28	5.82	698.10	950.19
~~606018930~~	~~DAIRYLAND POWER COOP ALMA STATION~~	~~9574.0~~	~~S11~~	~~B25~~	~~SUBBITUMINUS CO~~	~~0.0~~	~~35.0~~	~~16.5~~	~~0.31~~	~~0.52~~	~~3784.00~~	~~0.66~~	~~1.10~~	~~0.00~~	~~0.00~~
~~606018930~~	~~DAIRYLAND POWER COOP ALMA STATION~~	~~9574.0~~	~~S11~~	~~B25~~	~~BITUMINOUS COAL~~	~~261239.0~~	~~39.0~~	~~16.5~~	~~0.31~~	~~0.52~~	~~3784.00~~	~~0.66~~	~~1.10~~	~~1.13~~	~~1.89~~
~~606018930~~	~~DAIRYLAND POWER COOP ALMA STATION~~	~~9574.0~~	~~S11~~	~~B26~~	~~SUBBITUMINUS CO~~	~~208.0~~	~~35.0~~	~~16.5~~	~~0.31~~	~~0.52~~	~~3784.00~~	~~0.66~~	~~1.10~~	~~1.13~~	~~1.89~~
606018930 X	DAIRYLAND POWER COOP ALMA STATION	9474.0	S10	B24	BITUMINOUS COAL	204283.0	39.0	19.7	2.16	2.94	788.60	4.28	5.82	8608.61	11717.28
~~23600o350~~	~~WIS ELECTRIC POWER PLEASANT PRAIRIE STATION~~	~~6156.0~~	~~S10~~	~~B20~~	~~BITUMINOUS COAL~~	~~1945294.0~~	~~39.0~~	~~16.4~~	~~0.35~~	~~0.42~~	~~6158.00~~	~~0.53~~	~~1.06~~	~~13276.63~~	~~15931.96~~
663020930 X	DAIRYLAND POWER COOP GENOA STATION	5572.4	S10	B20	BITUMINOUS COAL	842114.0	39.0	19.7	2.41	4.69	2786.20	4.77	9.28	39575.15	77015.54
663020930 X	DAIRYLAND POWER COOP GENOA STATION	5572.4	S10	B22	BITUMINOUS COAL	684.0	39.0	19.7	2.41	4.69	2786.20	4.77	9.28	32.14	62.56
~~737009020~~	~~WIS PUBLIC SERVICE CORP - WESTON PLANT~~	~~5565.0~~	~~S12~~	~~B22~~	~~SUB-BITUMINOUS~~	~~776677.7~~	~~35.0~~	~~16.6~~	~~0.36~~	~~0.42~~	~~3886.00~~	~~0.80~~	~~0.87~~	~~5164.91~~	~~5708.58~~
737009020 X	WIS PUBLIC SERVICE CORP - WESTON PLANT	5565.0	S10	B20	BITUMINOUS COAL	83169.0	39.0	21.3	2.13	2.72	825.00	3.90	4.98	3454.42	4411.26
737009020 X	WIS PUBLIC SERVICE CORP - WESTON PLANT	5565.0	S11	B21	BITUMINOUS COAL	128747.8	39.0	21.3	2.13	2.72	860.00	3.90	4.98	5347.54	6828.78
460033090 X	WIS PWR & LIGHT EDGEWATER GEN STATION	4561.0	S10	B22	BITUMINOUS COAL	6622.5	39.0	21.5	2.95	3.36	400.00	5.35	6.09	380.96	433.91
460033090 X	WIS PWR & LIGHT EDGEWATER GEN STATION	4561.0	S11	B23	BITUMINOUS COAL	88042.0	39.0	21.2	2.81	3.20	739.00	5.17	5.89	4824.26	5493.82
460033090 X	WIS PWR & LIGHT EDGEWATER GEN STATION	4561.0	S11	B24	BITUMINOUS COAL	845500.0	39.0	21.2	2.81	3.12	3022.00	5.17	5.74	46329.17	51440.22
460033090 X	WIS PWR & LIGHT EDGEWATER GEN STATION	4561.0	S10	B21	BITUMINOUS COAL	6622.5	39.0	21.5	2.95	3.36	400.00	5.35	6.09	380.96	433.91
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S13~~	~~B24~~	~~BITUMINOUS COAL~~	~~46713.4~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~569.00~~	~~3.72~~	~~4.21~~	~~2058.66~~	~~2331.97~~
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S16~~	~~B27~~	~~BITUMINOUS COAL~~	~~316216.5~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~1288.00~~	~~3.72~~	~~4.21~~	~~13935.75~~	~~15785.63~~
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S15~~	~~B26~~	~~BITUMINOUS COAL~~	~~178412.1~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~801.90~~	~~3.72~~	~~4.21~~	~~7862.62~~	~~8906.35~~
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S12~~	~~B23~~	~~BITUMINOUS COAL~~	~~15203.9~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~351.60~~	~~3.72~~	~~4.21~~	~~670.04~~	~~758.98~~
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S11~~	~~B22~~	~~BITUMINOUS COAL~~	~~7953.5~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~351.66~~	~~3.72~~	~~4.21~~	~~350.51~~	~~397.04~~
~~405031990~~	~~WIS PUBLIC SERVICE CORP - JP PULLIAM PLANT~~	~~4108.0~~	~~S14~~	~~B25~~	~~BITUMINOUS COAL~~	~~14348.6~~	~~39.0~~	~~23.7~~	~~2.26~~	~~2.56~~	~~745.90~~	~~3.72~~	~~4.21~~	~~632.34~~	~~716.28~~
246004000 X	WIS ELECTRIC POWER PT WASHINGTON STATION	4078.0	S17	B21	BITUMINOUS COAL	83222.0	39.0	24.9	2.67	3.13	630.00	4.18	4.90	4332.95	5079.45
246004000 X	WIS ELECTRIC POWER PT WASHINGTON STATION	4078.0	S17	B23	BITUMINOUS COAL	29749.0	39.0	25.0	2.74	2.75	816.00	4.27	4.29	1589.49	1595.29
246004000 X	WIS ELECTRIC POWER PT WASHINGTON STATION	4078.0	S16	B24	BITUMINOUS COAL	126593.0	39.0	24.9	2.71	2.98	892.00	4.24	4.67	6689.81	7356.32
246004000 X	WIS ELECTRIC POWER PT WASHINGTON STATION	4078.0	S16	B25	BITUMINOUS COAL	85840.0	39.0	24.9	2.67	2.80	815.00	4.18	4.39	4469.26	4686.86
246004000 X	WIS ELECTRIC POWER PT WASHINGTON STATION	4078.0	S17	B22	BITUMINOUS COAL	160364.0	39.0	24.9	2.66	2.89	925.00	4.17	4.53	8318.08	9037.31
~~241007800~~	~~WIS ELECTRIC POWER VALLEY STATION~~	~~3372.0~~	~~S11~~	~~B21~~	~~BITUMINOUS COAL~~	~~172865.0~~	~~39.0~~	~~23.1~~	~~2.63~~	~~2.98~~	~~846.00~~	~~4.44~~	~~5.03~~	~~8865.38~~	~~10045.19~~
~~241007800~~	~~WIS ELECTRIC POWER VALLEY STATION~~	~~3372.0~~	~~S12~~	~~B24~~	~~BITUMINOUS COAL~~	~~162276.0~~	~~39.0~~	~~23.1~~	~~2.61~~	~~2.98~~	~~846.00~~	~~4.41~~	~~5.03~~	~~8259.14~~	~~9429.57~~
~~241007800~~	~~WIS ELECTRIC POWER VALLEY STATION~~	~~3372.0~~	~~S11~~	~~B22~~	~~BITUMINOUS COAL~~	~~172864.0~~	~~39.0~~	~~23.1~~	~~2.63~~	~~2.98~~	~~846.00~~	~~4.44~~	~~5.03~~	~~8865.33~~	~~10045.13~~
~~241007800~~	~~WIS ELECTRIC POWER VALLEY STATION~~	~~3372.0~~	~~S12~~	~~B23~~	~~BITUMINOUS COAL~~	~~182994.0~~	~~39.0~~	~~23.1~~	~~2.61~~	~~2.98~~	~~840.00~~	~~4.41~~	~~5.03~~	~~8313.48~~	~~10633.78~~
~~113004430~~	~~MADISON GAS & ELECTRIC CO BLOUNT ST STA~~	~~1955.8~~	~~S14~~	~~B27~~	~~BITUMINOUS COAL~~	~~13104.3~~	~~39.0~~	~~21.9~~	~~1.20~~	~~2.10~~	~~332.00~~	~~2.14~~	~~3.74~~	~~306.64~~	~~536.67~~
~~113004430~~	~~MADISON GAS & ELECTRIC CO BLOUNT ST STA~~	~~1955.8~~	~~S13~~	~~B26~~	~~BITUMINOUS COAL~~	~~0.0~~	~~39.0~~	~~21.9~~	~~1.20~~	~~2.10~~	~~271.00~~	~~2.14~~	~~3.74~~	~~0.00~~	~~0.00~~
~~113004430~~	~~MADISON GAS & ELECTRIC CO BLOUNT ST STA~~	~~1955.8~~	~~S14~~	~~B29~~	~~BITUMINOUS COAL~~	~~47132.3~~	~~39.0~~	~~21.9~~	~~1.20~~	~~2.10~~	~~544.00~~	~~2.14~~	~~3.74~~	~~1102.91~~	~~1936.08~~