



September 18, 1986

IN REPLY REFER TO: 4530

Mr. Dierle Losinger, P.E.
Power Plant Superintendent
Milwaukee County Dept. of Health & Human Services
8731 Watertown Plank Road
Milwaukee, WI 53226

Subject: Statewide Sulfur Dioxide Rule
Section NR 154.12(11), Wis. Adm. Code

Dear Mr. Losinger:

Since 1985, the Department has been in contact with facilities concerning compliance with the statewide sulfur dioxide rule, which became effective February 1, 1985. More recently, you have been notified of modeling performed to determine the emission limitations your source will be required to meet to ensure attainment of the sulfur dioxide ambient air quality standards.

Based upon the results of that modeling, the Milwaukee County Department of Health and Human Services submitted compliance plans on February 24, 1986. The Department of Natural Resources, Southeast District Air Management Section has reviewed these plans, and approval of these plans is hereby granted subject to the following conditions:

1. The Milwaukee County Power Plant facility will monitor and require its suppliers to furnish its sulfur content (by weight %) and heat content (BTU data) on each shipment of the solid fossil fuel.
2. They should further indicate to the coal supplier that it apply the following ASTM or other methods that would be equivalent to the ASTM method when sampling and performing the analysis which would be part of the facilities compliance demonstration.
 - a. Sample collection ASTM D2234-82
 - b. Preparing Coal Sample Analysis: ASTM D2013-72
 - c. Sulfur content ASTM D3177-84 or ASTM D4239-83
 - d. Caloric value (heat content) ASTM D2015-77
3. The facility shall furnish the above data to the Department on a six-month basis, or whenever purchased.

Please be advised that under existing rules, sec. NR 154.06(2) and (5), Wis. Adm. Code, a source can be requested to perform a stack test to determine whether a violation of emission limitations is occurring, regardless of a source's compliance status as determined by the source's site specific compliance methodology in the approved plan.

The Department may further modify or rescind this approval because of any future administrative rule changes, failure to comply fully with the conditions of this approval, or other reasons which justifies modification or rescission of the approval.

Since the emission limitations for the Milwaukee County Department of Health and Human Services Power Plant are more restrictive than the categorical emission limitations contained in sec. NR 154.12(11), Wis. Adm. Code, it is necessary for the Department to establish the more restrictive limitations through a legally binding mechanism. This could be accomplished through issuance of your mandatory operation permit, or through issuance of an administrative order. Because the issuance date of your mandatory operation permit is presently uncertain, the Department has chosen to issue an administrative order to establish the more restrictive limitations. A copy of that administrative order is attached. In summary, the order restates the more restrictive limitations that have previously been developed and thus the limitations which the Milwaukee County Department of Health and Human Services is now required to meet.

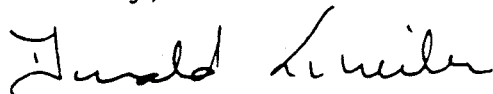
If you have any questions or comments concerning this matter, please feel free to contact Al Hayalian at (608) 414-562-9589.

NOTICE OF APPEAL RIGHTS

Any person aggrieved by this decision may seek a contested case hearing by serving a petition for hearing, in accordance with the provisions of sec. 144.403, Stats., on the Secretary of the Department of Natural Resources within 30 days after the date of this decision. This notice is provided pursuant to sec. 227.48(2), Stats.*, and should not be construed as an indication that the Department believes that any person has a right to appeal this decision.

*This citation has been renumbered as the result of 1985 Wisconsin Act 182, published April 21, 1986.

Sincerely,



Donald F. Theiler, Director
Bureau of Air Management

DFT:jah/9023Q
Attachment

cc: Ralph Patterson - AM/3
Brian Galley - AM/3
Tom Steidl - LC/5
Al Hayalian - SED

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

(BB)

In the Matter of Establishing)
Sulfur Dioxide Emission Limitations) 86-241027050-J01 ORDER
for the Milwaukee County Department of Health)
and Human Services Power Plant, 8731 Watertown)
Plank Road, Milwaukee, WI 53226)

FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER

FINDINGS OF FACT

The Department of Natural Resources, hereinafter DNR, finds that:

1. The Milwaukee County Department of Health and Human Services Power Plant is located at 8731 Watertown Plant Road in Milwaukee, Wisconsin.
2. The Milwaukee County Department of Health and Human Services operates the following direct source(s) capable of emitting sulfur dioxide at this location:
 - a. Boiler B21: A 140.0 million BTU per hour coal-fired steam generating unit.
 - b. Stack S12, Boiler B22: A 140.0 million BTU per hour coal-fired steam generating unit.
 - c. Stack S13, Boiler B23: A 140.0 million BTU per hour coal-fired steam generating unit.
3. Section NR 154.12(11), Wis. Adm. Code, establishes statewide sulfur dioxide emission limitations in order to ensure that all areas in Wisconsin will attain the National Ambient Air Quality Standards for sulfur dioxide by December 31, 1987.
4. Section NR 154.12(11)(d), Wis. Adm. Code, states that the DNR may require a source to meet a more restrictive emission limitation than the categorical emission limitations which would otherwise be applicable under sec. NR 154.12(11)(b) or (c), Wis. Adm. Code, if the DNR determines that a more restrictive emission limitation is required to ensure that the source will not cause or exacerbate a violation of an ambient air quality standard or air increment for sulfur dioxide.
5. The DNR has determined that more restrictive emission limitations are required to ensure that the Milwaukee County Department of Health and Human Services Power Plant will not cause or exacerbate a violation of an ambient air quality standard or air increment for sulfur dioxide.



April 3, 1986

File Ref: 4530

Mr. Dierk Losinger
Power Plant Supervisor
Milwaukee County Department
of Health and Human Services
8731 Watertown Plank Road
Milwaukee, WI 53226

Dear Mr. Losinger:

This letter is in response to your February 24, 1986 letter in which you state that Milwaukee County agrees to the following two conditions for operation of its coal fired boilers.

1. Limiting sulfur dioxide emissions from all three boilers to 1.85 lbs SO₂/mmBTU.
2. Operating only two boilers at any one time and limiting SO₂ emissions from the two boilers to 2.729 lbs SO₂/mmBTU.

Department of Natural Resources modeling results have shown that these limitations will protect ambient air SO₂ standards. In the near future the Department will be proposing issuance of an administrative order to Milwaukee County in which these conditions will be specified. Eventually the limitations will be incorporated into the Milwaukee County Powerplant's mandatory operating permit.

If you have any further questions, please call me at 608/267-7546.

Sincerely,
Bureau of Air Management

Ralph Patterson, Supervisor
Stationary Source Unit
Air Impact Analysis and Planning Section

RP:DF:pjk

cc: Al Hayalian - Southeast District
David Fox - AM/3

RECEIVED
IHR/III QUARTERS
1986 APR -7 AM 8:42



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Box 12436
Milwaukee, Wisconsin 53212
Fax: (414) 263-8483

February 20, 1991

File Ref: 4530-1

CERTIFIED MAIL
Return Receipt Requested

James Wahner, Director
Milwaukee County Health and
Human Services Power Plant
9250 Watertown Plank Road
Wauwatosa, WI 53226

Dear Mr. Wahner:

Your application for an air pollution control permit has been processed in accordance with Section 144.3925, Wisconsin Statutes.

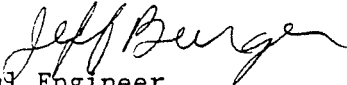
The enclosed permit is issued to provide authorization for your source to operate in accordance with the requirements and conditions set forth within Part I and II of the permit. Please read the entire permit carefully.

A copy of this permit should be available at the source for inspection by any authorized representative of the Department. Questions about this permit should be directed to the Bureau of Air Management, P. O. Box 7921, Madison, Wisconsin 53707, (608) 266-7718.

NOTICE OF APPEAL RIGHTS

This decision is effective immediately unless a petition for a contested case hearing for administrative review of this decision is served on the Secretary of the Department of Natural Resources under section 144.403, Stats., within 30 days after the date of mailing of this decision. Any such petition for hearing shall set forth specifically the issue sought to be reviewed, the interest of the petitioner, the reasons why a hearing is warranted and the relief desired. This notice is provided pursuant to section 227.48(2), Stats.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

Jeff Burger 
Environmental Engineer

Attachment

c: Air Management Branch - EPA, Region V
SED MOP File
Bureau of Air Management - AM/3

AIR POLLUTION CONTROL PERMIT
MANDATORY OPERATION PERMIT
FOR AN EXISTING AIR CONTAMINANT SOURCE

FACILITY ID NO.: 241027050

SIC NO.: 4961

MANDATORY OPERATION PERMIT NO.: 241027050-J01

TYPE OF SOURCE: Major Attainment Area Source

THIS OPERATING PERMIT IS PERMANENT UNLESS ALTERED, REVOKED OR SUSPENDED.

In compliance with the provisions of Chapter 144, Wisconsin Statutes, and Chapters NR 400 to 499, Wisconsin Administrative Code,

Name of Source: Milwaukee County Health and
Human Services Power Plant

Street Address: 9250 Watertown Plank Road
Wauwatosa, Wisconsin

Principal Officer or
Authorized Representative
and Title: James Wahner, Director

is authorized to operate four boilers located at 9250 Watertown Plank Road, Wauwatosa, Wisconsin in accordance with the permit application dated February 28, 1985 and in accordance with the conditions stated herein.

This authorization requires compliance by the permit holder with the emission limitations, monitoring requirements and other terms and conditions set forth in Parts I and II hereof.

Dated at Madison, Wisconsin this 20th day of February, 1991.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
For the Secretary

By



Donald F. Theiler, Director
Bureau of Air Management

BEFORE THE DEPARTMENT OF NATURAL RESOURCES
BUREAU OF AIR MANAGEMENT
FINDINGS OF FACT
CONCLUSIONS OF LAW
AND DECISION

Findings of Fact

The Department of Natural Resources (DNR) finds that:

- 1) Milwaukee County Health and Human Services Power Plant, 9250 Watertown Plant Road, Wauwatosa, has applied for an air pollution control mandatory operating permit. The authorized representative of the facility is James Wahner, Director.
- 2) Milwaukee County Health and Human Services Power Plant submitted an air pollution control mandatory operation permit application and plans and specifications and any additional information describing the air pollution source on February 28, 1985.
- 3) DNR has reviewed Milwaukee County Health and Human Services Power Plant's mandatory operation permit application and the plans and specifications submitted to DNR.
- 4) DNR has complied with the procedures set forth in s. 144.3925, Statutes.
- 5) The applicable criteria in ss. 144.393 and 144.3935(1), Statutes, have been met.
- 6) DNR has complied with the requirements of s. 1.11, Statutes, and Chapter NR 150, Wisconsin Administrative Code.

Conclusions of Law

DNR concludes that:

- 1) DNR has authority under s. 144.31(1)(a), Statutes, to promulgate rules contained in Chapters 400-499, Wisconsin Administrative Code, including but not limited to rules containing emission limits, compliance schedules and compliance determination methods.
- 2) DNR has the authority under ss. 144.31(1)(a), (e) and (f), 144.375(4) and (5) and 144.394, Statutes, and Chapters NR 400-499, Wisconsin Administrative Code, to establish emission limits for sources of air pollution.
- 3) DNR has the authority to issue air pollution control mandatory operation permits and to include conditions in such permits under ss. 144.391, 144.3925, 144.393, 144.3935 and 144.394, Statutes.

- 4) The emission limits included in this permit are authorized by ss. 144.394, Statutes, and NR 400-499, Wisconsin Administrative Code.
- 5) DNR is required to comply with s. 1.11, Statutes, and Chapter NR 150, Wisconsin Administrative Code, in conjunction with issuing an air pollution control permit.

Decision

Milwaukee County Health and Human Services Power Plant is authorized to operate four boilers as described in plans and specifications dated February 28, 1985, in conformity with the following emission limits, monitoring, recordkeeping and reporting requirements and specific and general conditions.

AIR POLLUTION CONTROL PERMIT
MANDATORY OPERATION PERMIT
FOR AN EXISTING AIR CONTAMINANT SOURCE

FACILITY ID NO.: 241027050

SIC NO.: 4961

MANDATORY OPERATION PERMIT NO.: 241027050-J01

TYPE OF SOURCE: Major Attainment Area Source

THIS OPERATING PERMIT IS PERMANENT UNLESS ALTERED, REVOKED OR SUSPENDED.

In compliance with the provisions of Chapter 144, Wisconsin Statutes, and Chapters NR 400 to 499, Wisconsin Administrative Code,

Name of Source: Milwaukee County Health and
Human Services Power Plant

Street Address: 9250 Watertown Plank Road
Wauwatosa, Wisconsin

Principal Officer or
Authorized Representative
and Title: James Wahner, Director

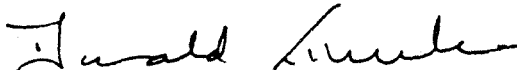
is authorized to operate four boilers located at 9250 Watertown Plank Road, Wauwatosa, Wisconsin in accordance with the permit application dated February 28, 1985 and in accordance with the conditions stated herein.

This authorization requires compliance by the permit holder with the emission limitations, monitoring requirements and other terms and conditions set forth in Parts I and II hereof.

Dated at Madison, Wisconsin this 20th day of February, 1991.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
For the Secretary

By



Donald F. Theiler, Director
Bureau of Air Management

PART I
SPECIFIC PERMIT CONDITIONS

PRELIMINARY SPECIFIC PERMIT CONDITIONS

BY CATEGORY OF EMISSION UNITS:

A. Boilers

1. Categorical Emission Limitation:

<u>Pollutant</u>	<u>Applicable Wisconsin Adm. Code or Statute</u>	<u>Limitation/ Requirement</u>
Particulate	s. NR 415.06(1)(c)2., Wis. Adm. Code	.15 pound per million BTU heat input, for all four boilers
	s. 144.394(3), Wis. Stats., and s. NR 415.03, Wis. Adm. Code	22 pounds per hour for B24.
Sulfur Dioxide	s. NR 417.07(2)(a) Wis. Adm. Code	3.2 pounds per million BTU heat input, when only one coal boiler is operating. For boilers 21, 22 and 23.
	s. 144.394(3), Wis. Stats., and s. NR 417.025, Wis. Adm. Code	2.729 pounds per million BTU heat input, when only two coal boilers are operating. For boilers 21, 22 and 23.
	s. 144.394(3), Wis. Stats., and s. NR 417.025, Wis. Adm. Code	1.85 pounds per million BTU heat input, when all three coal boilers are operating. For boilers 21, 22 and 23.

	s. 144.394(3), Wis. Stats., and s. NR 417.025, Wis. Adm. Code	82.36 pounds per hour for B24.
Nitrogen Oxide	s. 144.394(3), Wis. Stats., and s. NR 428.03, Wis. Adm. Code	122.5 pounds per hour per boiler for B21, 22 and 23. 88.55 pounds per hour for B24.
Carbon Monoxide	s. 144.394(6), Wis. Stats., and s. NR 426.025, Wis. Adm. Code	43.75 pounds per hour per boiler for B21, 22 and 23. 6.44 pounds per hour for B24.
Visible Emissions	s. NR 431.04(2), Wis. Adm. Code	20% Opacity
Fugitive Dust	s. NR 415.04, Wis. Adm. Code	See Note below.

Note: No person shall cause, allow or permit any materials to be handled, transported, or stored without taking precautions to prevent particulate matter from becoming airborne.

2. Other Conditions:

- a. Source performance tests shall be conducted on boiler 21 within 365 days after the issuance of this permit to prove compliance with the particulate and visible emissions limitations, while operating boiler 21 at 100% capacity. If operation at 100% capacity is not feasible, the source shall operate at a capacity level which is approved by the Department in writing. The Department shall be informed at least 20 working days prior to the tests so a Department representative can witness the testing. At the time of notification, a stack test plan following the provisions set forth in Section 439.05, Wisconsin Administrative Code, shall also be submitted for approval.

Two copies of the report on the tests shall be submitted to the Department for evaluation within 60 days after the tests.

- b. The Milwaukee County Power Plant facility will monitor and require its suppliers to furnish its sulfur content (by weight %) and heat content (BTU data) on each shipment of the solid fossil

They should further indicate to the coal supplier that it apply the following ASTM or other methods that would be equivalent to the ASTM method when sampling and performing the analysis which would be part of the facilities compliance demonstration.

1. Sample collection ASTM D2234-82
2. Preparing Coal Sample Analysis: ASTM D2013-72
3. Sulfur content ASTM D3177-84 or ASTM D4239-83
4. Caloric value (heat container) ASTM D2015-77

- c. Fuels other than natural gas or number two fuel oil shall not be burned in boiler B24. Fuels other than bituminous or sub-bituminous coal shall not be burned in boilers B21, B22 and B23.

GENERAL CONDITIONS APPLICABLE TO THE ENTIRE FACILITY

- a. The owner or operator of any air contaminant source subject to Section NR 445.05, Wisconsin Administrative Code, shall meet the notification, plan submittal and final compliance dates specified in the rule (and as amended by judicial order) for the hazardous air contaminants contained in Tables 1 through 4 of Section NR 445, Wisconsin Administrative Code. Compliance schedule for Tables 1, 2 and 3 - The owner or operator of any facility whose actual emissions for calendar year 1986 of volatile organic compounds or of particulate matter were over 100 tons for each of the 2 air contaminants, shall:

Notify the Department's Bureau of Air Management in writing by January 1, 1989, which of the hazardous contaminants in tables 1 to 3 of s. NR 445.04 the source is capable of emitting, and the allowable emissions of each substance in the tables by the source.

Submit to the Department by April 1, 1989, a compliance plan for achieving compliance with subs. (1) to (3) of NR 415.05 and

Achieve final compliance with subs. (1) to (3) by April 1, 1990, if compliance consists of measures other than installation of control equipment or by April 1, 1991, if compliance requires installation of control equipment.

Compliance schedule for Table 4 compounds:

Notify the Department's Bureau of Air Management in writing by April 1, 1990, which of the contaminants on table 4 the source is capable of emitting and the allowable emissions of each substance.

Submit to the Department by April 1, 1992, a compliance plan for achieving compliance with NR 445.05(4) and

Achieve final compliance with NR 445.05(4) by April 1, 1993, if compliance consists of measures other than installation of control equipment or by April 1, 1994, if compliance requires installation of control equipment.

- b. The facility shall meet the stack testing, fuel sampling and analysis, and continuous emission monitoring requirements of NR 439.075, Wisconsin Administrative Code.

Periodic testing for sulfur dioxide emissions from boilers 21, 22 and 23 is required as specified by NR 439.075(1)(c)2., and NR 439.075(1)(b), Wisconsin Administrative Code. The first such test must be performed within 24 months of the date this permit is issued.

Continuous monitoring of opacity is required for any coal boiler burning 25,000 tons or more per year of coal.

Continuous emission monitoring for SO₂ is required if more than 100,000 tons of coal per year is burned at the facility.

The owner or operator of a coal burning installation which has an annual coal burning rate equal to or greater than 10,000 tons per year but less than 100,000 tons per year shall sample coal and submit reports on coal quality in the following manner:

Perform coal sampling using the procedures in ASTM D2234, which result in data at least as reliable as classification II-D-2, defined in ASTM D2234 as manual sampling - stationary coal sampling - random spacing, and analyze these samples for ash content, sulfur content, and heat content according to the applicable methods and procedures in s. NR 439.07(2).

Submit quarterly reports within 30 days following the end of each calendar quarter which shall include the following information for each month during the calendar quarter:

- 1) The total quantity of coal burned expressed in tons.
- 2) Weighted average percent of the ash content of the coal burned.
- 3) Weighted average percent of the sulfur content of the coal burned.
- 4) Weighted average heat content expressed in BTU per pound of the coal burned.

- 5) Weighted average sulfur dioxide emission rate in terms of pounds of sulfur dioxide per million BTU heat input from the coal burned.

c. Applicable Testing Methods

Whenever emissions testing is required by the Department:

1. Compliance with particulate matter emissions limits shall be determined by methods described in Section NR 439.06(1), Wisconsin Administrative Code.
2. Compliance with visible emission limits shall be determined by methods described in Section NR 439.06(9), Wisconsin Administrative Code.
3. Compliance with sulfur dioxide emission limits shall be determined by methods described in Section NR 439.06(2), Wisconsin Administrative Code.
4. Compliance with nitrogen oxide emission limits shall be determined by methods described in Section NR 439.06(6), Wisconsin Administrative Code.
5. Compliance with carbon monoxide emission limits shall be determined by methods described in Section NR 439.06(4), Wisconsin Administrative Code.

JB/pad

FEB91/105-2