Ohio EPA
State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329

REC 0 AIR
POLLUTION CONTROL
APR 6 1992

George V. Voinovich
Governor

Donald R. Schregardus
Director

April 1, 1992 CERTIFIED MAIL

Re: Modification to Permit to Install No. 14-1036
Clermont County

Wm. H. Zimmer Generating Station
139 E. Fourth St
Cincinnati, OH 45202

Attention: Bernard L. Huff

Dear Sir:

Enclosed please find a modification to the Ohio EPA Permit to Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency and the Environmental Law Division of the Office of the Attorney General within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address: Environmental Board of Review, 236 East Town Street, Room 300, Columbus, OH 43215.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

Enclosure

cc: US EPA
Southwestern Ohio Air Pollution Control Agency

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Ohio EPA
State of Ohio Environmental Protection Agency

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Issuance Date: April 1, 1992

Effective Date: April 1, 1992

OHIO ENVIRONMENTAL PROTECTION AGENCY

MODIFICATION TO PERMIT TO INSTALL

Name of Applicant: Wm. H. Zimmer Generating Station
Address: US RT 52
City: Moscow, Ohio

The Ohio EPA has received a request for a modification for the Ohio EPA Permit to Install referenced above.

The Permit to Install issued to Wm. H. Zimmer Generating Station (PTI No. 14-1036) is hereby modified in the following manner:

Terms and Conditions have been modified.

The reason for the modification is:

To reflect the NSPS Subpart Db final regulations.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

Ohio Environmental Protection Agency

Donald R Schregardus

Director

Substantial construction for installation (such as the initiation of the construction of the boiler building foundation) must take place within eighteen months of the effective date of this permit. This deadline may be extended by up to twelve months, if application is made to the Director no less than sixty days before the expiration of this permit and the party shows good cause for any such extension.

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records or reports pertaining to the construction, modification or installation of the above described source of environmental pollutants.

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

The specified permit fee must be remitted within 15 days of the effective date of this permit to install.

The proposed source shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for the William H. Zimmer Generating Station located in Clermont County. The sources listed below shall not exceed the emission limits/control requirements contained in the table:

Ohio EPA Source No	Source Identification	Pollutant	Emission Rate
B006	11,968 MMBTU/hr coal-fired boiler Zimmer Unit 1	TSP	0.025 lb/MMBTU .5% of potential emissions 1310 tons/year.

	Opacity	20% as a six-minute average except for one six-minute period per hour of not more than 27%.
	SO_2	0.548 lb/MMBTU 9% of potential emissions 28,726 tons/year.
	NO_x	0.60 lb/MMBTU* 35% of potential emissions 31,452 tons/year.
	CO	1406 tons/year, as determined using AP-42 emissions factors.
	VOC	84 tons/year, as determined using an emission factor derived from the U.S. EPA report, Emissions of Reactive Volatile Organic Compounds from Utility Boilers

* In the event that actual NO_x emission rates are significantly less than 0.60 lb/MMBTU during normal operation of the boiler, a more stringent limit may be incorporated in the permit to operate for this source. This determination is to be made after sufficient data are obtained to quantify NO_x variability due to different operating conditions and combustion of the range of coal used at this facility.

B007 and B008 (each)	Two 603 MMBTU/hr oil-fired boiler Auxiliary Boilers A and B	TSP	0.02 lb/MMBTU, as determined using AP-42 emission factors 2.03 tons/year.

Opacity	20% as a 6-minute average.
SO_2	0.55 lb/MMBTU 55.7 tons/year
NO_x	0.10 lb/MMBTU 10.1 tons/year
CO	3.8 tons/year, as determined using AP-42 emission factors.
VOC	0.3 ton/year, as determined using AP-42 emission factors.

In the event that the SO_2 limits in 40 CFR Part 60, Subpart Db, when promulgated, include any more stringent emission limitations applicable to B007 and B008, such emission limitations will supersede those contained herein. In the event that 40 CFR Part 60 Subpart Db requirements for NO_x are modified, then the NO_x permit limit for sources B007 and B008 will be revised accordingly.

Ohio EPA Source No	Source Identification	Pollutant	Emission Rate
F001	Plant Paved Roadways and parking areas.	Fugitive Dust	5% opacity as a 3-minute average.
	UNPAVED ROADWAYS	**FUGITIVE DUST**	**COMPLIANCE WITH OAC RULE 3745-37-08**
F002	Material Storage Piles - includes coal and FGD waste piles	Fugitive Dust	5% opacity as a 3-minute average.
P901	Coal Handling - includes - barge unloading, sampling station, conveyor transfer station, silos, crusher station, and belt conveyors.	Fugitive Dust	.03 grains/dry standard cubic foot from each control device, 10% opacity as a 6-minute average from all areas.

P902	Flyash handling - includes pneumatic conveyors, flyash transfer bin, and flyash storage silos.	Fugitive Dust	.03 grains/dry standard cubic foot from each control device, 10% opacity as a 6-minute average from all areas.
P903	Lime handling - includes barge unloading, conveyor transfer stations, belt conveyors, pneumatic conveyors, active storage silos, and day storage silos	Fugitive Dust	Same as above
P904	FGD waste treatment - includes blending equipment.	Fugitive Dust	Same as above

For sources F001 and F002, compliance determinations shall be made using Method 9 of the Appendix on Test Methods in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), except that the data reduction and average opacity calculation shall be based upon a set of 12 consecutive visible emission observations recorded at 15-second intervals.

In the event that new test method(s) for visible emissions is (are) adopted in 40 CFR, Part 60, the Director may modify this permit to incorporate such new test method(s).

The fugitive dust emission limits for F001 and F002 are based upon the requirements of the proposed approval of the Ohio EPA Total Suspended Particulate (TSP) State Implementation Plan (SIP) published on January 2, 1987 (52FR91). If the emission limits in the proposed approval of the TSP SIP are not finalized as proposed, the owners of the Zimmer plant may petition the Ohio EPA for revised emission limits for F001 and F002 based upon the applicable fugitive dust limitations.

If the Director determines that meeting the limits for F002 is infeasible, then the Director shall determine a new BACT limit for this source.

SUMMARY
TOTAL NEW SOURCE EMISSIONS

Pollutant	Tons/Year
Particulate (including fugitive dust)	1,444
SO_2	28,837
NO_x	31,472
CO	1,414
VOC	84

APPLICABLE RULES AND REGULATIONS

Sources described in this Permit to Install must meet all applicable state and federal regulations, including the following:

40 CFR 52.21 Prevention of Significant Deterioration (PSD)

40 CFR Part 60 New Source Performance Standards (NSPS)
Subpart Da, Standard of Performance Standards for Electric Utility Steam Generating units for Which Construction is Commenced after September 18, 1978

~~Subpart D, Standard of Performance of Fossil Fuel-Fired Steam Generators for Which Construction is Commenced after August 17, 1971, and~~ Subpart Db, Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units, **APPENDIX F - QUALITY ASSURANCE PROCEDURES, PROCEDURE 1,**
Subpart Y, Standards of Performance for Coal Preparation Plants

OAC 3745-15-06 Malfunction of equipment/scheduled maintenance

OAC 3745-17 Particulate mass emissions and opacity

OAC 3745-18 SO_2 emissions

OAC 3745-21-08 CO emissions

OAC 3745-23-06 NO_x emissions

OAC 3745-31 Permits to Install and use of Best Available Technology (BAT)

This condition in no way limits the applicability of any other state or federal regulation.

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source No.	Source Description	NSPS Regulation (Subpart)
B006	11,968 MMBTU/hr coal fired boiler	Subpart Da
B007 & B008	603 MMBTU/hr oil fired auxiliary boilers	~~Subpart D and~~ Subpart Db
P901	Coal handling	Subpart Y

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for each of the above sources:

1. Construction date (no later than 30 days after such date);
2. Anticipated start-up date (not more than 60 days or less than 30 prior to such date);
3. Actual start-up date (within 15 days after such date); and
4. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
Division of Air Pollution Control
Authorization and Compliance Unit
P.O. Box 1049
Columbus, Ohio 43266-1049

and Southwestern Ohio Air Pollution Control Agency
~~2400 Beekman Street~~ **1632 CENTRAL PARKWAY**
Cincinnati, Ohio 45210

REPORTING

Any written reports required by the Permit to Install shall be submitted to Southwestern Ohio Air Pollution Control Agency.

PSD REQUIREMENTS

The source described in this Permit to Install is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by the U.S. Environmental Protection Agency 40 CFR 52.21. The authority to apply and enforce the PSD regulations has been delegated to the Ohio Environmental Protection Agency. The terms and conditions of this permit and the requirements of the PSD regulations are also enforceable by the U.S. Environmental Protection Agency.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

START-UP AND SHUTDOWN

The emission limitations for sources B006, B007 and B008 will not apply during periods of startup and shutdown of the boilers.

Start-up for B006 is defined as the period beginning with the initial firing of the boiler, and ending one hour after the establishment of a stable coal fire. In no event shall a normal start-up period exceed four hours, unless the owner/operator demonstrates, on a case-by-case basis, to the satisfaction of the Director that a longer time period was needed. Longer start-up periods may result from equipment problems which prevent the establishment of a stable coal fire in the boiler.

Shutdown for B006 is defined as the period after the exhaust gases entering the precipitator have fallen below 250 degrees Fahrenheit. In no event shall the shutdown period exceed three hours, unless the owner/operator demonstrates to the satisfaction of the Director that a longer time period is required.

For B007 and B008, start-up is defined as the period not to exceed one hour, commencing with the initial firing of the boiler unless the owner/operator demonstrates to the satisfaction of the Director that a longer time period is required.

Shut-down for B007 and B008 is defined as the one hour period commencing one-half hour before the last burner is turned off.

MALFUNCTION/ABATEMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

In accordance with OAC Rule 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the Southwestern Ohio Air Pollution Control Agency. Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment, that requires the shutdown or bypassing of said equipment, must be accompanied by the shutdown of the associated air pollution sources.

BACT DETERMINATION

As specified in OAC rule 3745-31-05 and 40 CFR 52.21, Best Available Control Technology (BACT) is required on the sources included in the permit. The BACT requirements are identified below:

Source No.	Pollutant	BACT
B006	TSP, Opacity	Electrostatic Precipitator
	SO_2	Magnesium enhanced lime flue gas desulfurization (FGD) system.
	NO_x	Low NO_x burners, compartmentalized windboxes, and reduced heat release in the burner zone.

A short-term BACT SO_2 emission limit of 1.0 lb/MMBTU, 3-hour average, shall be applicable to B006, provided that the exclusive method for determining compliance with the 3-hour average SO_2 emission limit under the BACT section of this permit shall be a Method 6 stack gas sampling OR METHOD 6C as specified in 40 CFR Part 60, Appendix A, under representative operating conditions.

This compliance test methodology (Method 6 or Method 6C) shall only be used to determine compliance with the short-term BACT SO_2 emission limit in this section of the permit, and is not applicable to any other SO_2 emission limit in this permit.

B007 and B008	TSP, Opacity, SO_2, NO_x	Use of #2 fuel oil with a sulfur content of not to exceed 0.5% by weight.

F001 - Plant Paved Roadways, Parking Areas and Unpaved Roadways

Periodic flushing with water **(PAVED AREAS), PERIODIC APPLICATION OF WATER OR DUST SUPPRESSANTS**, limiting vehicle speed to 20 mph, covering all trucks hauling potential dust generating material, prompt clean-up of spills, and water washing of wheels of haul vehicles satisfies the BACT requirement for this source.

F002 - Material Storage Piles

Periodic spraying with water to minimize or eliminate visible emissions of fugitive dust from the coal and FGD waste storage piles satisfies the BACT requirement for this source.

P901 - Coal Handling

A) Barge unloading station 1 - water sprays with a chemical proportioner along with aluminum hoods, skirtboards, rubber sealing strips and rubber curtains at the bucket elevator barge unloader, satisfies the BACT requirement for this operation.

B) Belt conveyors - Enclosing all conveyors in pipe tubes or with sheet metal covering satisfies the BACT requirements for this operation.

C) Transfer Stations 4E, A, B and Transfer to Plant Silos - Total enclosure with emission ducted to bag-type filters satisfies the BACT requirements for this operation.

D) Transfer Station 2 - Water sprays with a chemical proportioner along with total enclosure with emissions ducted to bag-type filters satisfies BACT requirements for this operation.

E) Crushing Station 3 - Water sprays with a chemical proportioner along with total enclosure satisfies the BACT requirements for this operation.

F) Crushing Station 5 - Total enclosure satisfies the BACT requirements for this operation.

G) Sampling Station 4 and 6 - Total enclosure satisfies the BACT requirements for this operation.

P902 - Flyash handling

A) Transfer from ESP hopper to transfer bin - Pneumatic conveying with a bag filter and water trap silencer satisfies the BACT requirement for this operation.

B) Transfer from transfer bin to storage silo - Pressurized transport with a bag filter for conveying air satisfies the BACT requirement for this operation.

C) Transfer from storage silo to trucks (when necessary) - A water spray system satisfies the BACT requirement for this operation.

P903 - Lime handling

A) Barge unloading (Station L1) - Totally enclosed screw conveyor and bag filters at the transfer to the belt conveyor satisfies the BACT requirement for this operation.

B) Transfer stations - Total enclosure with emissions ducted to bag-type filters for all transfer stations between the barge unloading and the lime day silos of the sludge fixation process satisfies the BACT requirement for this operation.

C) Conveyors - Oversized capacity conveyors designed to operate at slow speeds with 35 degree idlers to deter dust generation, along with total enclosure, satisfies the BACT requirement for this operation.

D) Transfer from storage silo - Venting emissions to a dust collection facility satisfies the BACT requirement for this operation.

P904 - FGD Waste Treatment

Blending and treating - An enclosed building and venting emissions in the air space above the blending equipment to a wet collector satisfies the BACT requirement for this operation.

These conditions in no way limit the applicability of any other state or federal regulations.

LIMITATIONS ON USE OF AUXILIARY BOILERS

Sources B007 and B008 shall not be used to provide electric output to the utility power distribution system for sale. These units are to be used to provide steam during start-up and shutdown conditions, and occasionally for plant heating. The amount of oil used in B007 and B008 shall not exceed a total of 3,360,000 gallons per year, and the sulfur content of the oil shall not exceed 0.5%. **THE ANNUAL CAPACITY FACTOR (AS DEFINED AT 40 CFR 60 41.6) OF EACH B007 AND B008 SHALL NOT EXCEED 10 PERCENT.**

IN-STACK MONITORING AND REPORTING REQUIREMENTS

Monitors for opacity, sulfur dioxide, nitrogen oxides, and either oxygen or carbon dioxide shall be installed on B006. ~~Except as provided in the following paragraph.~~ Monitors for opacity~~,~~ ~~nitrogen oxides, and either oxygen or carbon dioxide~~ shall be installed on B007 and B008. The monitoring equipment shall be installed and maintained in accordance with the applicable portions of 40 CFR Part 60 - Standards of Performance for New Stationary Sources. The data from the sulfur dioxide monitor shall not be used to determine compliance with the short-term BACT sulfur dioxide emission limitation specified on page 10 of this permit.

~~The installation of in-stack monitors for nitrogen oxides and oxygen or carbon dioxide on B007 and B008 may be deferred until after the completion of the initial stack test for nitrogen oxides. If the actual nitrogen oxides emission rate (expressed as NO_2) is less than 0.07 pounds per million Btu's, then the nitrogen oxides and oxygen or carbon dioxide monitors will not be required on B007 and B008.~~

No later than 30 days prior to the installation of the continuous monitoring equipment, the owner/operator shall submit, for the final approval of the Director, a report showing the exact locations selected for the monitors.

Within 30 days after the installation of the continuous monitoring and recording equipment for opacity **ON B006**, and within 180 days after the initial start-up of the boiler (but not later than the date of the respective boiler emission stack test for the continuous monitoring and recording equipment for sulfur dioxide, nitrogen oxides and carbon dioxide or oxygen), this facility shall conduct performance specification tests of such equipment pursuant to Section 3704.03 (I) of the Ohio Revised Code and 40 CFR Part 60 - Appendix B, Performance Specification Tests 1, 2, and 3. Personnel from the Ohio EPA field office shall be permitted to witness the performance specification test, and 2 copies of the test results shall be submitted to the Ohio

EPA field office within 45 days after the test is completed. **THE SAME PERFORMANCE SPECIFICATION TEST REQUIREMENTS APPLY TO B007 AND B008. HOWEVER, THE REQUIRED DATE FOR THE COMPLETION OF THE PERFORMANCE SPECIFICATION TESTS ON THESE LOW CAPACITY BOILERS SHALL BE DELAYED UNTIL THE SOURCES OPERATE FOR A SUFFICIENT LENGTH OF TIME TO ALLOW FOR THE CONDITIONING AND OPERATIONAL TEST PERIODS TO BE COMPLETED.**

Pursuant to 40 CFR Parts 60.7 and 60.13(h), this facility shall submit reports on a quarterly basis to the Ohio EPA field office documenting all instances of opacity values in excess of any limitations specified in the terms and conditions of this permit.

Based on the review of particulate stack test results for B006, the Director may determine that the quarterly reports should, in addition, document all instances of opacity reading in excess of a value lower than the emission limits set forth in this permit.

Pursuant to 40 CFR Part 60.49a, this facility shall submit reports on a quarterly basis to the Ohio EPA field office documenting for each day in the quarter, the thirty-day average sulfur dioxide and nitrogen oxide emission rates, and the percent reduction of the potential sulfur dioxide emission rate for B006. This and all information required by 40 CFR Part 60.49a shall be included in the report.

The quarterly reports required by the above conditions shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall cover the data obtained during the previous calendar quarters.

COAL SAMPLING AND REPORTING

The operator of this facility shall collect daily composite samples of the coal burned in this source. A sufficient number of individual samples shall be collected so that each composite sample is representative of the average "as burned" quality of coal burned during each calendar day. The coal sampling shall be performed in accordance with ASTM Method D2234-76, Collection of a Gross Sample of Coal.

Each daily composite sample of coal shall be analyzed for ash content (%), sulfur content (%), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content and heat content determination shall be ASTM Method 03174, Ash in the Analysis Sample of Coal and Coke, ASTM Method D4239-83, Sulfur in the Analysis of Coal and Coke Using High Temperature Tube Furnace Combustion Methods, and ASTM Method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, respectively.

Monthly reports concerning the quality and quantity of the coal burned at this facility shall be submitted to the Air Quality Modeling and Planning Section of the Division of Air Pollution Control. These reports shall be submitted on magnetic medium in a format to be specified by the Director. The reports shall be submitted no later than 45 days after the end of each calendar month and shall include the following information for each day during the calendar month:

a. the total quantity of coal burned (tons);
b. the average ash content (%) of the coal burned;
c. the average sulfur content (%) of the coal burned;
d. the average heat content (Btu/pound) of the coal burned;
e. the average potential (uncontrolled) sulfur dioxide emission rate (pounds SO_2 per million Btu actual heat input) from the coal burned;

The daily coal sampling requirement will satisfy the requirement in 40 CFR Part 60.47a(b)(1) that the sulfur dioxide emission before the sulfur dioxide control device be determined.

OIL SAMPLING AND REPORTING

The owner/operator shall collect and analyze samples of fuel oil to be used in the auxiliary boilers. Samples from each fuel delivery shall be collected according to ASTM D4057-81 Practice for Manual Sampling of Petroleum and Petroleum Products.

Each sample shall be analyzed for heat content according to ASTM D240-76, Standard Test Method for heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and for sulfur content according to ASTM D1552-83, Test Methods for Sulfur in Petroleum Products (High Temperature Method) or ASTM D4294-83, Test Method for Sulfur in Petroleum Products by Nondispersive X-Ray Fluorescence Spectometry.

Quarterly reports shall be submitted to the Ohio EPA field office no later than 30 days after the end of each calendar quarter. The reports shall include the following information:

a. the total quantity (gallons), the sulfur content (weight percent) and the heat content (Btu per gallon) of each fuel shipment;

b. the potential sulfur dioxide emission rate (pounds SO_2 per million Btu), calculated using the appropriate AP-42 emission factor;
c. the dates and amounts of fuel consumed in each of the auxiliary boilers (B007 and B008);
d. the cumulative fuel consumption in the auxiliary boilers for the calendar year.

STACK TESTING

Within 60 days after achieving full capacity operation, but no later than 180 days after initial start-up of the respective boilers, the owner/operator shall conduct, or have conducted, performance testing on the air contaminant sources in accordance with procedures approved by the Agency. Two copies of the written report shall be submitted and signed by the person responsible for the test, describing the test procedures followed and the results of such tests. The Director or an Ohio EPA representative shall be allowed to witness the tests, examine testing equipment and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

A. A completed Intent to Test form shall be submitted to the Ohio EPA field office where the original permit application was filed. This notice shall be made thirty (30) days in advance and shall specify the source operating parameters, the proposed test procedures and the time, date, place and person(s) conducting such tests.

B. Two copies of the test results shall be submitted within thirty (30) days after the completion of the performance test.

C. The air contaminants for which source B006 must be tested are particulate matter, sulfur dioxide and nitrogen oxides.

D. The air contaminants for which either Source B007 or B008 must be tested are particulate matter and nitrogen oxides. **AN INITIAL HEAT INPUT TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE ASME POWER TEST CODE 4.1: SECTION 5 AND 7.3.**

DETERMINATION OF OPACITY OF EMISSIONS

The opacity of the emissions from the boilers and potential fugitive dust sources will be determined using the methods set forth in rule 3745-17-03 of the Ohio Administrative Code.

NO_X MONITORING, TESTING AND REPORTING REQUIREMENTS - THE OWNER/OPERATOR IS NOT REQUIRED TO INSTALL OR OPERATE A CONTINUOUS MONITORING SYSTEM FOR NITROGEN OXIDES ON SOURCES B007 OR B008 PROVIDING THAT:

A. B007 AND B008 BE RESTRICTED TO AN ANNUAL CAPACITY FACTOR OF 10% OR LESS,

B. THE NITROGEN CONTENT OF THE VERY LOW SULFUR OIL NOT EXCEED 0.3% BY WEIGHT,

C. THE OWNER/OPERATOR CONDUCTS AN INITIAL PERFORMANCE TEST OVER A 24-HOUR PERIOD TO DEMONSTRATE COMPLIANCE WITH THE NO_X EMISSION RATE. THEREAFTER, A 3-HOUR PERFORMANCE TEST MUST BE PERFORMED AFTER EVERY 400 HOURS OF SOURCE OPERATION OR ONCE PER CALENDAR YEAR, WHICHEVER OCCURS FIRST. THE PERFORMANCE TESTS MUST BE CONDUCTED USING METHOD 7, 7A, 7E OR OTHER APPROVED REFERENCE METHODS,

D. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF 1) THE CALENDAR DATE OF EACH DAY B007 AND B008 ARE OPERATED, 2) THE NUMBER OF HOURS OF OPERATION EACH DAY AND 3) THE HOURLY STEAM LOAD,

E. THE OWNER/OPERATOR SUBMITS TO THE AGENCY QUARTERLY REPORTS WHICH INCLUDE THE FOLLOWING INFORMATION:

1. ANNUAL CAPACITY FACTOR OVER THE PREVIOUS 12 MONTHS, AFTER INITIAL STARTUP.
2. THE RESULTS OF AN NO_X EMISSION TESTS REQUIRED IN THE QUARTER,
3. THE HOURS OF OPERATION DURING EACH MONTH OF THE QUARTER, AND
4. THE HOURS OF OPERATION SINCE THE LAST NO_X EMISSION TEST.

FGD SYSTEM DESIGN REQUIREMENTS

In an effort to maximize the availability of the FGD system, the following items shall be included in the design, construction, and operation of the system:

A. The FGD shall include one spare scrubber module (the actual number of modules shall exceed the number needed to achieve 91% control efficiency at maximum boiler load).

B. The lime preparation system shall include one spare ball mill slaker.

C. The slurry processing system shall include one spare thickener.

D. The FGD shall include the spare absorber recirculation pump on each absorber.

E. The mist eliminator in the scrubber should be designed for maximum efficiency and minimum solids buildup. A system for washing the mist eliminators without removal from service shall be included.

F. The materials of construction shall be selected to minimize corrosion and erosion.

G. The operator of the FGD system shall develop a detailed inspection and preventative maintenance plan. The plan should address inspection frequency and routine maintenance for critical system components. A copy of the plan shall be submitted to the Ohio EPA field office with the application for a permit to operate B006

AMBIENT MONITORING REQUIREMENTS

The owner/operator of the facility shall continue to operate and maintain one ambient meteorological station at or in the vicinity of the plant site. The station shall, at a minimum, include equipment to measure wind speed and wind direction.

Following the completion of the construction of the facility, the owner/operator will be required to install, calibrate, operate and maintain a minimum of two ambient SO_2 monitoring instruments and a minimum of four ambient particulate monitoring instruments. The ambient monitoring equipment will be located and operated in a manner and for a period of time to be approved by the Director of the Ohio EPA. The monitors will be operated for a period of two years after the start-up of B006. Upon the review of the data from the monitors, the Director may determine that a longer monitoring period is required for some or all of the monitors.