

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE  
RENEWAL

PERMITTEE

Northwestern University  
Attn: Gary Wojtowicz  
2020 Ridge Avenue  
Evanston, Illinois 60208

Application No.: 73032180

I.D. No.: 031600CUO

Applicant's Designation:

Date Received: May 1, 2006

Subject: Campus Utility Plant

Date Issued:

Expiration Date:

Location: 410 East Huron Street, Chicago, Cook County, 60611

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of three natural gas fired boilers with distillate fuel oil back-up (Boilers #1, #2 and #4), one natural gas-fired boiler (Boiler #3), and one pathological medical waste incinerator as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued:
  - i. To limit the emissions of air pollutants from the source to less than the levels at which the source would be a major source, (i.e., 100 tons/year for nitrogen oxide (NO<sub>x</sub>) carbon monoxide (CO) and volatile organic material (VOM)) as further described in Attachment A. As a result the source is excluded from the requirements to obtain a Clean Air Act Permit Program permit.
  - ii. To limit the potential emissions of VOM from the source to less than 25 tons/year. As a result, the source is excluded from the requirement of 35 Ill. Adm. Code Part 205, Emission Reduction Market System. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- d. For purposes of this permit, Northwestern University is not considered to be a single source with Northwestern Memorial Hospital, I.D. No. 031600FMX, located at 251 East Huron Street in Chicago. These two sources do not belong to the same major industrial grouping.

- 2a. Boiler #4 is subject to the New Source Performance Standard (NSPS) for Small Industrial - Commercial - Institutional Steam Generating Units, 40 CFR 60, Subparts A and Dc. The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- c. Pursuant to 40 CFR 60.42c(d), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO<sub>2</sub> in excess of 215 ng/J (0.50 lb/mmBtu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.
- d. Pursuant to 40 CFR 60.42c(h)(1), for distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 mmBtu/hour), compliance with the emission limits or fuel oil sulfur limits under 40 CFR 60.42c may be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f), as applicable.
- e. Pursuant to 40 CFR 60.43c(c), on and after the date on which the initial performance test is completed or required to be completed under 40 CFR 60.8, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 mmBtu/hour) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
- f. Pursuant to 40 CFR 60.43c(d), the PM and opacity standards under 40 CFR 60.43c apply at all times, except during periods of startup, shutdown, or malfunction.
- 3a. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 Ill. Adm. Code 212.122, pursuant to

35 Ill. Adm. Code 212.123(a), except as allowed by 35 Ill. Adm. Code 212.123(b) and 212.124.

- b. Pursuant to 35 Ill. Adm. Code 212.123(b), The emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 meter (1000 foot) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- c. Pursuant to 35 Ill. Adm. Code 212.181(d), no person shall cause or allow the emission of particulate matter into the atmosphere from all other incinerators for which construction or modification commenced on or after April 14, 1972, to exceed 229 mg/scm (0.1 gr/scf) of effluent gases corrected to 12 percent carbon dioxide.
- d. Pursuant to 35 Ill. Adm. Code 212.206, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period to exceed 0.15 kg of particulate matter per MW-hour of actual heat input from any fuel combustion emission unit using liquid fuel exclusively (0.10 lbs/mmBtu).
- 4. No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion source with actual heat input smaller than, or equal to, 73.2 MW (250 mmBtu/hour), burning liquid fuel exclusively to exceed 0.46 kg of sulfur dioxide per MW-hour of actual heat input when distillate fuel oil is burned (0.3 lbs/mmBtu), pursuant to 35 Ill. Adm. Code 214,122(b)(2).
- 5a. Pursuant to 35 Ill. Adm. Code 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hour) to exceed 200 ppm, corrected to 50 percent excess air.
- b. Pursuant to 35 Ill. Adm. Code 216.141, no person shall cause or allow the emission of carbon monoxide into the atmosphere from any incinerator to exceed 500 ppm, corrected to 50 percent excess air.
- 6a. This permit is issued based upon the pathological waste incinerator combusting only pathological waste, low-level radioactive waste, or chemotherapeutic waste and not being subject to the control requirements of 35 Ill. Adm. Code Part 229, Hospital/Medical/Infectious Waste Incinerators (HMIWI).
- b. Pursuant to 35 Ill. Adm. Code 229.110(c), an HMIWI that combusts only pathological waste, low-level radioactive waste, or chemotherapeutic waste is subject to only the recordkeeping requirements set forth in 35

Ill. Adm. Code 229.182(c), (f) and (g), provided that the owner or operator of an HMIWI provides, by December 15, 1999, both the Illinois EPA and the USEPA with a written certification of its status as an HMIWI burning only the wastes listed in 35 Ill. Adm. Code 229.110(c).

7. This permit is issued based on the incinerator not being subject to the New Source Performance Standard (NSPS) for Commercial and Industrial Solid Waste Incineration Units that Commenced Construction On or Before November 30, 1999, 40 CFR 60 Subpart DDDD. Pursuant to 40 CFR 60.2555(a), incineration units burning 90 percent or more by weight (on a calendar quarter basis and excluding the weight of auxiliary fuel and combustion air) of pathological waste, low-level radioactive waste, and/or chemotherapeutic waste as defined in 40 CFR 60.2875 are not subject to this 40 CFR 60 Subpart DDDD if you meet the two requirements specified in 40 CFR 60.2555(a)(1) and (2).
- 8a. Incineration in the primary chamber shall not begin unless the secondary chamber combustion zone temperature has been preheated to or at least the manufacturer's recommended temperature, but no less than the temperature at which compliance was demonstrated in the most recent compliance test, or 1400°F in the absence of a compliance test. This temperature shall be maintained during operation.
- b. Inspections of the incinerator and control systems equipment and operations shall be performed as necessary but at least once per week when the incinerator is in operation to confirm compliance with the requirements of this permit.
- 9a. This permit is issued based on the use of only natural gas and distillate fuel oil the Boilers #1, #2 and #4 and the use of only natural gas in Boiler #3. The use of any other fuel in the boilers requires that the Permittee first obtain a construction permit from the Illinois EPA.
- b. The Permittee shall not utilize distillate fuel oil (Grades No. 1 and 2) at this source with a sulfur content greater than the larger of the following two values:
  - i. 0.28 weight percent; or
  - ii. The wt. percent given by the formula: Maximum wt. percent sulfur =  $(0.00015) \times (\text{Gross heating value of oil, Btu/lb})$ .
- c. Organic liquid by-products or waste materials shall not be used in these fuel combustion emission units.
- d. The Illinois EPA shall be allowed to sample all fuels stored at the above location.
- 10a. Emissions and operation of Boilers #1 and #2 shall not exceed the following limits:

i. Natural Gas Usage: 200,000 therms/month, 1,200,000 therms/year

ii. Emissions for the combustion of natural gas:

<u>Pollutant</u>	<u>Emission Factor (lbs/1,000 therm)</u>	<u>Emissions</u> (Tons/Mo) (Tons/Yr)	
Nitrogen Oxides (NO <sub>x</sub> )	28.0	2.80	16.8
Carbon Monoxide (CO)	8.4	0.80	5.0
Particulate Matter (PM)	0.76	0.08	0.50
Volatile Organic Material (VOM)	0.55	0.06	0.30
Sulfur Dioxide (SO <sub>2</sub> )	0.06	0.01	0.04

These limits are based on the maximum fuel usage, and standard emission factors (Tables 1.4-1 and 1.4-2, AP-42, Fifth Edition, Volume I, Supplement D, July 1998).

iii. Distillate Fuel Oil Usage: 100,000 gallons/month, 100,000 gallons/year

iv. Emissions from the combustion of distillate fuel oil:

<u>Pollutant</u>	<u>Emission Factor (lbs/1,000 Gal)</u>	<u>Emissions</u> (Tons/Mo) (Tons/Yr)	
Nitrogen Oxides (NO <sub>x</sub> )	20.0	1.00	1.00
Carbon Monoxide (CO)	5.0	0.25	0.25
Particulate Matter (PM)	2.0	0.10	0.10
Volatile Organic Material (VOM)	0.2	0.01	0.01
Sulfur Dioxide (SO <sub>2</sub> )	44.0	2.20	2.20

These limits are based on the maximum fuel usage, and standard emission factors (Tables 1.3-1 and 1.3-3, AP-42, Fifth Edition, Volume I, Supplement D, July 1998).

b. Emissions and operation of Boiler #3 shall not exceed the following limits:

i. Natural Gas Usage: 800,000 therms/month, 4,800,000 therms/year

ii. Emissions for the combustion of natural gas:

<u>Pollutant</u>	<u>Emission Factor (lbs/1,000 therm)</u>	<u>Emissions</u> (Tons/Mo) (Tons/Yr)	
Nitrogen Oxides (NO <sub>x</sub> )	18.8	7.50	45.10
Carbon Monoxide (CO)	4.1	1.60	9.80
Particulate Matter (PM)	0.76	0.30	1.80
Volatile Organic Material (VOM)	0.55	0.22	1.30
Sulfur Dioxide (SO <sub>2</sub> )	0.06	0.02	0.14

These limits are based on the maximum fuel usage, and standard emission factors (Tables 1.4-1 and 1.4-2, AP-42, Fifth Edition, Volume I, Supplement D, July 1998). The emission factors for NO<sub>x</sub> and CO were derived from stack tests performed at this plant.

- c. Emissions and operation of Boiler #4 shall not exceed the following limits:

- i. Natural Gas Usage: 1,000,000 therms/month, 6,300,000 therms/year
- ii. Emissions for the combustion of natural gas:

<u>Pollutant</u>	<u>Emission Factor</u> (lbs/1,000 therm)	<u>Emissions</u>	
		(Tons/Mo)	(Tons/Yr)
Nitrogen Oxides (NO <sub>x</sub> )	10.9	5.50	34.30
Carbon Monoxide (CO)	2.0	1.00	6.30
Particulate Matter (PM)	0.76	0.40	2.40
Volatile Organic Material (VOM)	0.55	0.30	1.70
Sulfur Dioxide (SO <sub>2</sub> )	0.06	0.03	0.19

These limits are based on the maximum fuel usage, standard emission factors (Tables 1.4-1 and 1.4-2, AP-42, Fifth Edition, Volume I, Supplement D, July 1998). The emission factors for NO<sub>x</sub> and CO were derived from stack tests performed at this plant.

- iii. Distillate Fuel Oil Usage: 100,000 gallons/month, 100,000 gallons/year
- iv. Emissions from the combustion of distillate fuel oil:

<u>Pollutant</u>	<u>Emission Factor</u> (lbs/1,000 Gal)	<u>Emissions</u>	
		(Tons/Mo)	(Tons/Yr)
Nitrogen Oxides (NO <sub>x</sub> )	18.9	0.90	0.90
Carbon Monoxide (CO)	1.4	0.10	0.10
Particulate Matter (PM)	2.0	0.10	0.10
Volatile Organic Material (VOM)	0.2	0.01	0.01
Sulfur Dioxide (SO <sub>2</sub> )	44.0	2.20	2.20

These limits are based on the maximum fuel usage, standard emission factors (Tables 1.3-1 and 1.3-3, AP-42, Fifth Edition, Volume I, Supplement D, July 1998). The emission factors for NO<sub>x</sub> and CO were derived from stack tests performed at this plant.

- d. This permit is issued based on negligible emission of nitrogen oxides, carbon monoxide and particulate matter from the pathological waste incinerator. For this purpose emissions of each pollutant shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.

11. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 12a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
  - i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
  - ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.
- b. Testing required by Condition 13 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
- 13a. Pursuant to 35 Ill. Adm. Code 212.107, for both fugitive and nonfugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR part 60, Appendix A, incorporated by reference in 35 Ill. Adm. Code 212.113, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. This Condition shall not apply to 35 Ill. Adm. Code 212.301, pursuant to 35 Ill. Adm. Code 212.107.
- b. Pursuant to 35 Ill. Adm. Code 212.109, except as otherwise provided in 35 Ill. Adm. Code Part 212, and except for the methods of data reduction when applied to 35 Ill. Adm. Code 212.122 and 212.123, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, and the procedures in 40 CFR 60.675(c) and (d), if applicable, incorporated by reference in 35 Ill. Adm. Code

212.113, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged, pursuant to 35 Ill. Adm. Code 212.109.

- c. Pursuant to 35 Ill. Adm. Code 212.110(a), measurement of particulate matter emissions from stationary emission units subject to 35 Ill. Adm. Code Part 212 shall be conducted in accordance with 40 CFR Part 60, Appendix A, Methods 5, 5A, 5D, or 5E, pursuant to 35 Ill. Adm. Code 212.110(a).
  - d. Pursuant to 35 Ill. Adm. Code 212.110(b), the volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, and 4, pursuant to 35 Ill. Adm. Code 212.110(b).
  - e. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA, pursuant to 35 Ill. Adm. Code 212.110(c).
14. The incinerator's afterburner shall be equipped with a continuous monitoring device which is installed, calibrated, maintained, and operated according to vendor's specification at all times that the afterburner is in use. This device shall monitor the afterburner combustion chamber temperature.
- 15a. Pursuant to 40 CFR 60.48c(e)(11), the owner or operator of each affected facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR 60.42c shall keep records as required under 40 CFR 60.48c(d), including if fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under 40 CFR 60.48c(f)(1), (2), (3), or (4), as applicable.
- b. Pursuant to 40 CFR 60.48c(f)(1), fuel supplier certification shall include the following information for distillate oil:
    - i. The name of the oil supplier;
    - ii. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and

- iii. The sulfur content of the oil.
  - c. Pursuant to 40 CFR 60.48c(g)(1), except as provided under 40 CFR 60.48c(g)(2) and (g)(3), the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
    - i. As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR 60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.
    - ii. As an alternative to meeting the requirements of 40 CFR 60.48c(g)(1), the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO<sub>2</sub> standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.
  - d. Pursuant to 40 CFR 60.48c(i), all records required under 40 CFR 60.48c shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.
16. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant,

the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

17. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
- 18a. Pursuant to 35 Ill. Adm. Code 229.182(c), the owner or operator of an HMIWI claiming an exemption pursuant to 35 Ill. Adm. Code 229.110(c) shall keep records on a calendar quarter basis demonstrating that only pathological waste, low-level radioactive waste, or chemotherapeutic waste is burned.
  - b. Pursuant to 35 Ill. Adm. Code 229.182(f), all records required under 35 Ill. Adm. Code 229.182 shall be maintained onsite for a period of 5 years, in either paper copy or electronic format, unless an alternative format has been approved by the Illinois EPA in a permit condition.
  - c. Pursuant to 35 Ill. Adm. Code 229.182(g), all records required to be maintained pursuant to 35 Ill. Adm. Code 229.182 shall be made available to the Illinois EPA upon request.
- 19a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
  - i. Natural gas usage (therms/month and therms/year) for each boiler (Boilers #1 and #2, Boiler #3 and Boiler #4);
  - ii. Distillate fuel oil usage (gallons/month and gallons/year) for each boiler (Boilers #1 and #2 and Boiler #4);
  - iii. Sulfur content of the distillate fuel oil (% by weight);
  - iv. The amount of waste burned in the incinerator (tons/month and tons/year); and
  - v. Monthly and annual emissions of CO, NO<sub>x</sub>, PM, SO<sub>2</sub>, VOM and HAPs, with supporting calculations (tons/month and tons/year).
- b. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records

retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.

20. If there is an exceedance of or deviation from the requirements of this permit as determined by the record required by this permit, the Permittee shall submit a report to the Agency's Compliance Section in Springfield, Illinois within 30 days after the exceedance/deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or deviation and efforts to reduce emissions and future occurrences.
21. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
22. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Illinois EPA  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Illinois EPA  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

If you have any questions on this, please call George Kennedy at 217/782-2113.

Edwin C. Bakowski, P.E.  
Acting Manager, Permit Section  
Division of Air Pollution Control

Date Signed: \_\_\_\_\_

ECB:GMK:psj

cc: IEPA, FOS Region 1  
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission for the Northwestern University operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels (i.e., 100 tons/year for volatile organic material (VOM)) at which this facility would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

<u>Equipment</u>	E M I S S I O N S (Tons/Year)				
	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>VOM</u>	<u>SO<sub>2</sub></u>	<u>PM</u>
Boilers #1 & #2 (Natural Gas)	16.80	5.00	0.30	0.04	0.50
(Fuel Oil)	1.00	0.25	0.01	2.20	0.10
Boiler #3	45.10	9.80	1.30	0.14	1.80
Boiler #4 (Natural Gas)	34.30	6.30	1.70	0.19	2.40
(Fuel Oil)	0.90	0.10	0.01	2.20	0.10
Incenerator	<u>0.44</u>	<u>0.44</u>			
Totals	98.54	21.89	3.32	4.77	4.90

GMK:psj