

APPENDIX F
CONSTRUCTION PERMITS



217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Trade Waste Incineration
Attention: James L. Gary
7 Mobile Avenue
Sauget, Illinois 62201-1069

DATE: ?

Application No.: 83120053
Applicant's Designation:
Subject: Two TWI-2000 Incinerators
Date Issued: September 2, 1986
Location: #7 Mobile Avenue, Sauget

I.D. No.: 163121AAP
Date Received: June 9, 1986

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of two TWI-2000 Series 2 Hazardous Waste Incinerators one with a Joy Spray Dry Adsorber and fabric filter, and the second unit with a Venturi Scrubber, Cyclonic Water Gas Separator, Induced Draft Fan, and Exhaust Expansion Tank as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. The incinerator when constructed shall include a Waste Feed Interlock System to insure that waste is not fed to the incinerator unless all critical operating parameters are within acceptable limits. As part of this system stack monitors shall be installed on each incinerator for Oxygen, Carbon Monoxide, and Hydrocarbons. For the incinerator with the SDA the following two additional emission monitors are required: Broken Bag Detector and hydrogen chloride monitor.
2. Particulate matter emissions from the incinerator shall not exceed 0.08 grains per dry standard cubic foot of gas discharged to the atmosphere, pursuant to 35 Ill. Adm. Code 121.181(b).
3. Carbon monoxide emissions from the incinerator shall not exceed 500 parts per million, corrected to 50 percent excess air, pursuant to 35 Ill. Adm. Code 216.141.
4. Hydrogen chloride emissions from incinerators 2 and 3 shall not exceed 4 lbs/hr or the control devices shall demonstrate a minimum HCL removal efficiency of 99%.

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5. The new incinerators shall be constructed and operated with a waste cutoff interlock system which will prevent introduction of waste into the incinerator when any of the following events have occurred.
 - a. I.D. fan failure.
 - b. Atomizing air pressure below 10 psig.
 - c. Incinerator chamber pressure 2" w.c. above atmospheric for more than 5 seconds.
 - d. Emergency stack opens.
 - e. Failure to sustain operating parameters specified in special condition 3.
 - f. Burner failure in the primary or secondary chamber.
 - g. When primary chamber temperature falls below 1500°F or secondary chamber exceeds 2275°F.
 - h. Carbon monoxide concentration exceeds 500 ppm or exceed 50 ppm for more than three minutes.

For The Incinerator With A Venturi Scrubber

- i. Quench water flow below 100 gpm.
- j. Venturi scrubber water below 37 gpm, pressure drop across Venturi scrubber less than 21" w.c., scrubber pH less than 6 and flue gas temperature entering the scrubber greater than 180°F.

For The Incinerator With A Spray Dryer Adsorber

- k. Loss of slurry flow to SDA.
 - l. High hydrogen chloride concentration in the stack.
 - m. High opacity as indicated by the broken bag detector.
 - n. High inlet temperature to the fabric filter.
6. The incinerators and associated air pollution control equipment shall be constructed such that the values of the parameters being monitored are displayed for operating personnel.
 7. Operation of the incinerator utilizing auxiliary fuel will be limited as to composition and incinerator operating conditions which will meet all applicable regulations. Such a request should be incorporated in the trial burn plan.



- 8. Trade Waste Incineration shall submit as-built plans and specifications to the Agency as part of their operating permit application.
- 9. Prior to operation the new units, 2 and 3, shall be tested pursuant to an Agency approved trial burn plan. Trade Waste Incineration shall submit a detailed trial burn plan for Agency approval prior to startup. The trial burn plan shall provide for demonstration of the incinerators' destruction and removal efficiency, and particulate matter, carbon monoxide, organic material, and hydrogen chloride emissions throughout the range of waste characteristics and incinerator operating parameters for which an operating permit will be sought. Such trial burn plan should also indicate period of operation of incinerators during shakedown and testing. Standard condition 9 which allows 30 days for shakedown and testing, is hereby superceded by this condition.

An operating permit will only be issued for these incinerators after a trial burn has demonstrated compliance with all applicable regulations. Based upon trial burn operation and waste material burned, the operating permit may limit the incinerator operating parameters and the composition of the incinerator's waste feed.

- 10. As part of the trial burn plan, Trade Waste Incineration shall propose procedures for maintaining operating records. Such procedures shall include appropriate notification to the Agency and action to be taken by operating personnel in the event of equipment malfunction or breakdown.
- 11. Emissions of particulate matter (TSP), sulfur oxides (SO₂), nitrogen oxides (NO_x), organic material (OM) and carbon monoxide (CO) shall not exceed the amounts specified in the Table below.

Emission Source	Annual Emissions (Tons/Year)				
	TSP	SO ₂	NO _x	OM	CO
Existing Incinerator	15.0	7.7	4.0	0.9	6.6
New Incinerators	30.0	15.4	8.0	1.8	13.2
Storage Operations				6.9	

These limits are based on the potential emissions of the incinerators and storage as indicated in the permit application.


 Bharat Mathur, P.E.
 Manager, Permit Section
 Division of Air Pollution Control

BM:JDC:jmm/1857F/25-27

cc: Region 1



217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Trade Waste Incineration, A Division of
Chemical Waste Management
Attention: James L. Gary
7 Mobile Avenue
Sauget, Illinois 62201-1069

Application No.: 87100024

I.D. No.: 163121AAP

Applicant's Designation: INCIR

Date Received: May 24, 1988

Subject: TWI 2000 Series 2, Incinerator

Date Issued: August 19, 1988

Location: 7 Mobile Avenue, Sauget, Illinois

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of Incinerator #3 Model TWI 2000 with associated Dry Scrubber as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Particulate matter emissions for the incinerator shall not exceed 0.08 grains per dry standard cubic foot of the gas discharged to the atmosphere, pursuant to 35 Ill. Adm. Code 121.181(b).
2. Carbon monoxide emissions from the incinerator shall not exceed 500 parts per million corrected to 50 percent excess air, pursuant to 35 Ill. Adm. Code 216.141.
3. The incinerator shall be equipped with sensors to monitor the following parameters:
 - a. Upper and lower combustion chamber exit gas temperature.
 - b. Upper and lower combustion chamber pressure.
 - c. Spray dryer adsorber inlet temperature.
 - d. Spray dryer adsorber outlet temperature.
 - e. Lime slurry head tank liquid level.
 - f. Water pressure to slurry head tank makeup.
 - g. Baghouse tube sheet pressure drop.
 - h. Combustion stack gas flow rate.
 - i. Stack gas oxygen concentration.

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- j. Stack gas carbon monoxide concentration.
 - k. Stack gas total hydrocarbon concentration.
 - l. Stack gas HCL concentration.
 - m. Stack gas opacity.
 - n. Liquid and/or sludge waste flow rate into the incinerator.
 - o. Solid waste charged.
 - p. Primary fuel pressure.
 - q. Combustion air pressure.
 - r. Primary Burner & Pilot flame.
 - s. Secondary Burners & Pilots flames.
 - t. Emergency stack latch.
4. The incinerator shall be designed and constructed to operate with an automatic waste feed cutoff interlock system which will prevent the introduction of waste into the incinerator when operating outside the permitted range of parameters.
- a. Startup range of parameters are established based upon design specifications and performance tests conducted on Incinerator Unit 2 and can be changed after successful stack test demonstration on Unit 3.
 - (1) Primary chamber below 1600°F.
 - (2) Secondary chamber below 1800°F.
 - (3) Primary or secondary chamber above atmospheric pressure.
 - (4) Spray dryer adsorber inlet greater than 2200°F.
 - (5) Spray dryer adsorber outlet greater than 400°F or below 370°F.
 - (6) Low liquid level in lime slurry head tank.
 - (7) Low makeup water pressure into slurry heat tank.
 - (8) Baghouse tube sheet pressure drop greater than 10 inches water column.
 - (9) Combustion stack gas flow less than 5,000 acfm or greater than 15,000 acfm.
 - (10) Oxygen concentration less than 6% by volume.
 - (11) Carbon monoxide concentration greater than 500 ppm.
 - (12) Carbon monoxide concentration greater than 50 ppm for 3 minutes.
 - (13) Total hydrocarbon concentration greater than 100 ppm corrected to 7% oxygen.
 - (14) HCl concentration greater than 100 ppm for 1 hour.
 - (15) Opacity greater than 10%.
 - (16) Primary fuel pressure below 30 psig.
 - (17) Combustion air pressure below 10 inches W.C.
 - (18) Primary burner failure.
 - (19) Secondary burner failure.
 - (20) Emergency stack open.



Page 3

- b. Operating parameters will be established based upon evaluation of actual operation and measured emissions during a trial burn.
5. The incinerator and associated air pollution control equipment shall be constructed such that the values of the parameters monitored and/or indicator of acceptable status are displayed for operating personnel with audible and visual alarms.
6. The Permittee shall submit as built plans of the incinerator and air pollution control equipment as part of the operating permit application.
7. The Permittee shall not initiate the start-up of the incinerator without written approval from the Agency. This special condition supercedes standard condition 6(b).
8. Stack emission tests shall be conducted on this Unit 3 Incinerator to establish emission rates and compliance with the applicable regulations. The required stack tests are to be conducted by an independent tester.
 - a. Emission tests are required for the following pollutants:
 - (1) Particulate matter.
 - (2) Hydrogen chloride.
 - (3) Nitrogen oxides.
 - (4) Carbon Monoxide.
 - (5) Principal organic hazardous components.
 - b. The Permittee shall submit a stack test plan at least 60 days in advance for Agency approval. The plan shall contain detailed plans and procedures.
 - c. Written notice of the scheduled dates for compliance stack testing shall be given at least 30 days in advance to the Agency. Final notice shall be given verbally not less than 7 days before emission testing begins. The required notice shall be given to the following:

Illinois Environmental Protection Agency
Attn: Permit Section Manager
Division of Air Pollution Control
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-2113

Illinois Environmental Protection Agency
Attn: Source Emission Test Specialist
Division of Air Pollution Control
The Intercontinental Center
1701 First Avenue
Maywood, Illinois 60153



Illinois Environmental Protection Agency
Division of Air Pollution Control - Regional Office
2009 Mall Street
Collinsville, Illinois 62234
618/345-0700

- 9. Prior to startup, the Permittee shall submit instrumentation and monitoring specifications. A proposal for the details of record keeping and report formats used to show compliance with the limitations of the operating parameters required to be monitored in special condition 3 of this construction permit shall be submitted to the Agency for approval.
a. The instrumentation and data logging equipment shall provide for storage of 100% of the incinerator parameters and stack monitored results in a computer readable format. Copies shall be made available to the Agency in a suitable computer readable format.
b. The data logging equipment shall also provide for recording waste analysis parameter for as burned waste streams.
c. The data logging equipment shall provide real time access to the incinerator operating parameters through a telecommunication computer port.
d. The proposal shall set forth the hardware and software specifications for the information system along with available options in report formats and data exchange media.
e. The permittee shall install a computer linkup system with IEPA Springfield, IEPA Collinsville and some location with public access. Such a system and location will require Agency approval.
10. Prior to startup, the Permittee shall submit details of an operator training program for Agency approval.
11. Prior to startup, the Permittee shall submit for Agency approval, specifications for on-site security including video cameras, monitoring cabinet locks and seals and details of security fencing.
12. Emissions of particulate matter (TSP), sulfur oxides (SO2), nitrogen oxides (NOx), organic material (OM), and carbon monoxide (CO) shall not exceed the amounts specified in the Table below.

Table with 6 columns: Emission Source, TSP, SO2, NOx, OM, CO. Rows include Incinerator Unit 1, 2, 3, 4*, and Waste Storage with corresponding emission values.



Page 5

*These limits are established based on 7205 hours of operation per year and average emission rates given in the application. These limits will be revised after the stack test results are reviewed.

13. Prior to startup, the permittee shall provide details of the Quality Assurance/Quality Control programs for the monitoring systems specified in Special Condition 3 above for Agency approval.

Please note that the start-up and trial burn plan as submitted with the application is not acceptable. Plan deficiencies will be identified at a later time.

A handwritten signature in cursive script, reading "Terry A. Sweitzer".

Terry A. Sweitzer, P.E.
Manager, Permit Section
Division of Air Pollution Control

TAS:JDC:ds:5035H/32-36

cc: Region 3



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emissions of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

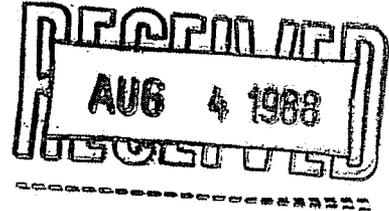


217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Trade Waste Incineration
A Division of Chemical Waste Management
Attn: James L. Gary
7 Mobil Avenue
Sauget, Illinois 62201



Application No.: 88010001

I.D. No.: 163121AAP

Applicant's Designation: INCIN #4

Date Received: March 22, 1988

Subject: Transportable Rotary Kiln Incinerator

Date Issued: August 3, 1988

Location: 7 Mobile Avenue, Sauget, IL

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of a Transportable Rotary Kiln Incinerator Unit #4 equipped with a dry scrubber and a baghouse, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Particulate matter emissions from the incinerator shall not exceed 0.08 grains per dry standard cubic foot of the gas discharged to the atmosphere, pursuant to 35 Ill. Adm. Code 121.181(b).
2. Carbon monoxide emissions from the incinerator shall not exceed 500 parts per million corrected to 50 percent excess air, pursuant to 35 Ill. Adm. Code 216.141.
3. The incinerator shall be equipped with sensors to continuously monitor the following parameters:
 - a. Kiln and secondary combustion chamber exit gas temperature.
 - b. Kiln and secondary combustion chamber pressure.
 - c. Spray dryer adsorber inlet temperature.
 - d. Spray dryer adsorber outlet temperature.
 - e. Lime slurry feed tank liquid level low.
 - f. Water pressure to slurry feed tank makeup.
 - g. Baghouse tube sheet pressure drop.
 - h. Combustion stack gas flow rate.
 - i. Stack gas oxygen concentration.
 - j. Stack gas carbon monoxide concentration.
 - k. Stack gas total hydrocarbon concentration.
 - l. Stack gas HCL concentration.
 - m. Stack gas infrared absorption.
 - n. Liquid and/or sludge waste flow rate into the incinerator.
 - o. Solid waste charged.



- p. Primary fuel pressure.
 - q. Combustion air pressure.
 - r. Primary Burner & Pilot flame.
 - s. Secondary Burners & Pilots flame.
 - t. Emergency stack latch.
4. The incinerator shall be designed and constructed to operate with an automatic waste feed cutoff interlock system which will prevent the introduction of waste into the incinerator when operating outside the permitted range of parameters.
- a. Startup range of parameters are established based upon design specifications and performance tests conducted on Incinerator Unit 2 and can be changed after successful stack test demonstration on Unit 4.
 - (1) Kiln chamber below 1600°F.
 - (2) Secondary chamber below 1800°F.
 - (3) Kiln or secondary chamber above atmospheric pressure.
 - (4) Spray dryer adsorber inlet greater than 2200°F.
 - (5) Spray dryer adsorber outlet greater than 400°F or below 370°F.
 - (6) Low liquid level in lime slurry feed tank.
 - (7) Low makeup water pressure into slurry feed tank.
 - (8) Baghouse tube sheet pressure drop greater than 10 inches water column.
 - (9) Oxygen concentration less than 6% by volume.
 - (10) Carbon monoxide concentration greater than 500 ppm.
 - (11) Carbon monoxide concentration greater than 50 ppm for 3 minutes.
 - (12) Total hydrocarbon concentration greater than 100 ppm corrected to 7% oxygen for one hour running average.
 - (13) HCl concentration greater than 100 ppm for 1 hour running average.
 - (14) Opacity greater than 10%.
 - (15) Primary fuel pressure below 30 psig.
 - (16) Combustion air pressure below 10 inches W.C.
 - (17) Kiln burner failure.
 - (18) Secondary burner failure.
 - (19) Emergency stack open.
 - (20) Combustion stack gas flow parameters will be established at a later stage.
 - b. Operating parameters shall be established based upon evaluation of actual operation and measured emissions during a trial burn.
5. The incinerator and associated air pollution control equipment shall be constructed such that the values of the parameters monitored and/or indicator of acceptable status are displayed for operating personnel with audible and visual alarms.



Page 3

6. The Permittee shall submit as built plans for the incinerator and air pollution control equipment as part of the operating permit application.
7. The Permittee shall not initiate the start-up of the incinerator without written approval from the Agency. This special condition supersedes standard condition 6(b).
8. Stack emission tests shall be conducted on this Incinerator to establish emission rates and compliance with the applicable regulations. The required stack tests are to be conducted by an independent tester.
 - a. Emission tests are required for the following pollutants:
 - (1) Particulate matter.
 - (2) Hydrogen chloride.
 - (3) Nitrogen oxides.
 - (4) Carbon monoxide.
 - (5) Destruction of principal organic hazardous components.
 - b. The Permittee shall submit a start-up plan and trial burn plans and procedures. Such a trial burn plan shall require the Agency's approval 30 days prior to any start-up and testing.
 - c. Written notice of the scheduled dates for compliance stack testing shall be given at least 30 days in advance to the Agency. Final notice shall be given verbally not less than 7 days before emission testing begins. The required notice shall be given to the following:

Illinois Environmental Protection Agency
Attn: Permit Section Manager
Division of Air Pollution Control
P.O. Box 19276
Springfield, IL 62794-9276
217/782-2113

Illinois Environmental Protection Agency
Attn: Source Emission Test Specialist
Division of Air Pollution Control
Intercontinental Center
1701 First Avenue
Maywood, IL 60153
312/345-9780

Illinois Environmental Protection Agency
Division of Air Pollution Control-Regional Office
2009 Mall Street
Collinsville, IL 62234
618/345-0700



9. Prior to startup, the Permittee shall submit instrumentation and monitoring specifications. A proposal for the details of record keeping and report formats used to show compliance with the limitations of the operating parameters required to be monitored in special condition 3 of this construction permit shall be submitted to the Agency for approval.
 - a. The instrumentation and data logging equipment shall provide for storage of 100% of the incinerator parameters and stack monitored results in a computer readable format. Copies shall be made available to the Agency in a suitable computer readable format.
 - b. The data logging equipment shall also provide for recording waste analysis parameter for as burned waste streams.
 - c. The data logging equipment shall provide real time access to the incinerator operating parameters through a telecommunication computer port.
 - d. The proposal shall set forth the hardware and software specifications for the information system along with available options in report formats and data exchange media.
 - e. The permittee shall install a computer linkup system with IEPA Springfield, IEPA Collinsville and some location with public access. Such a system and location will require Agency approval.
10. Prior to startup, the Permittee shall submit details of an operator training program for Agency approval.
11. Prior to startup, the Permittee shall submit for Agency approval, specifications for on-site security including video cameras, monitoring cabinet locks and seals and details of security fencing.
12. Emissions of particulate matter (TSP), sulfur oxides (SO₂), nitrogen oxides (NO_x), organic material (OM), and carbon monoxide (CO) shall not exceed the amounts specified in the Table below.

<u>Emission Source</u>	<u>Annual Emissions (Tons/Year)</u>				
	<u>TSP</u>	<u>SO₂</u>	<u>NO_x</u>	<u>OM</u>	<u>CO</u>
Incinerator Unit 4	16.92	50.76	61.6	3.1	13.68

These limits are established based on 7205 hours of operation per year and average emission rates given in the application. These limits will be revised after the stack test results are reviewed.

13. Prior to startup, the permittee shall provide details of the Quality Assurance/Quality Control programs for the monitoring systems specified in Special Condition 3 above for Agency approval.



Page 5

The Agency will review when amended the start-up plan and trial burn plans when they are received.

A handwritten signature in cursive script that reads "Terry A. Sweitzer".

Terry A. Sweitzer, P.E.
Manager, Permit Section
Division of Air Pollution Control

TAS:JDC:jmm/4932H/51-55

cc: Region 3



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emissions of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

**DIRECTORY
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL**

July 1, 1985

For assistance in preparing a permit application contact the Permit Section,

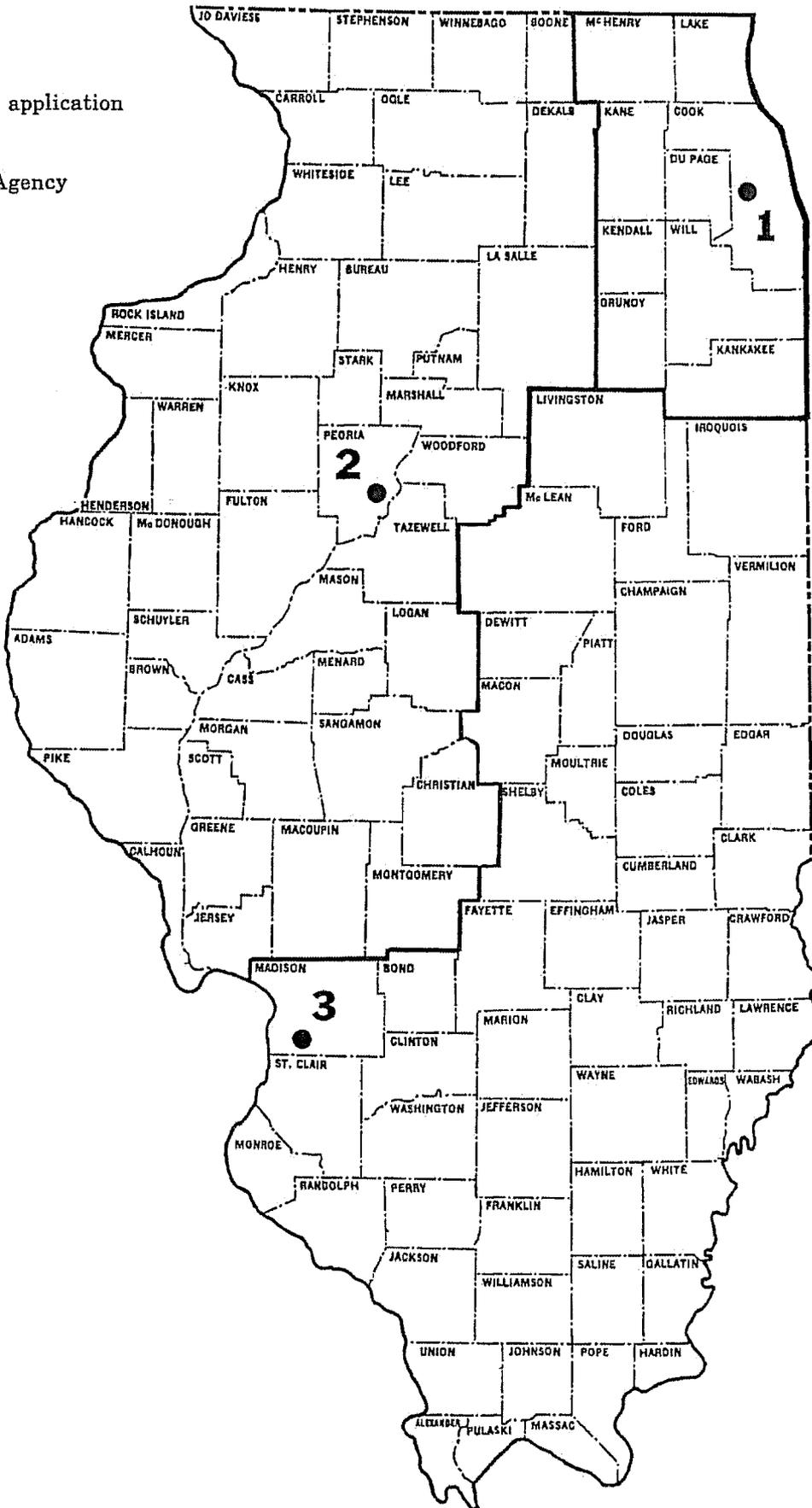
Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
2200 Churchill Road
Springfield, Illinois 62706
(217) 782-2113

or a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA
Region 1
Intercontinental Center
1701 S. 1st Avenue
Maywood, Illinois 60153
(312) 345-9780

Illinois EPA
Region 2
5415 North University
Peoria, Illinois 61614
(309) 691-2200

Illinois EPA
Region 3
2009 Mall Street
Collinsville, Illinois 62234
(618) 345-0700





217/782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

Trade Waste Incineration
A Division of Chemical Waste Management, Inc.
Attn: James L. Gary
7 Mobile Avenue
Sauget, Illinois 62201-1069

Application No.: 88030101
Applicant's Designation: TANK FARM3
Subject: Tank Farm Number 3
Date Issued: June 27, 1988

I.D. No.: 163121AAP
Date Received: March 29, 1988

Operating Permit Expiration
Date: June 30, 1990

Location: 7 Mobile Avenue, Sauget, IL

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and/or air pollution control equipment consisting of ten 12,000 gal. and sixteen 30,000 gal. waste blending and storage tanks with carbon adsorption and associated truck and rail car unloading stations with vapor balance as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Operation of the emission source(s) included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
2. Within 60 days from the issuance of this permit a carbon adsorber breakthrough monitoring program shall be submitted for Agency approval. Operation of this tank farm shall not begin until the Agency has approved the breakthrough monitor program.
3. Emissions of organic material shall not exceed 2.5 tons/year. This limit is based on information provided in the application.

Terry A. Sweitzer, P.E.
Manager, Permit Section
Division of Air Pollution Control

TAS:JDC:jmm/4939H/54

cc: Region 3

RECEIVED JUN 28 1988



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

**STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**

July 1, 1985

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The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.
2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.
3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.
4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emissions of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,
 - c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,
 - d. does not take into consideration or attest to the structural stability of any units or parts of the project, and



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

**STANDARD CONDITIONS
FOR
OPERATING PERMITS**

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special permit condition(s).

1. The issuance of this permit does not release the permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
2. The Agency has issued this permit based upon the information submitted by the permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.207.
3. a. The permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Agency and unless a new permit or revision of the existing permit(s) is issued for such modification.
b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.
4. The permittee shall allow any duly authorized agent of the Agency, upon the presentation of credentials, at reasonable times:
 - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
 - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
 - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
 - d. to obtain and remove samples of any discharge or emission of pollutants, and
 - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.
5. The issuance of this permit:
 - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located,
 - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities,



STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 2200 CHURCHILL ROAD
 SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1010. Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 and an additional civil penalty up to \$1,000.00 for each day the failure continues. A fine up to \$1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

ANNUAL EMISSION REPORT	FOR AGENCY USE ONLY
------------------------	---------------------

1a. NAME OF OWNER:		2a. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):	
1b. TELEPHONE NUMBER:		2b. STREET ADDRESS OF EMISSION SOURCE:	
1c. STREET ADDRESS OF OWNER:		2c. CITY OF EMISSION SOURCE:	2d. TELEPHONE NUMBER:
1d. CITY:		2e. COUNTY:	2f. LOCATED WITHIN CITY LIMITS: <input type="checkbox"/> YES <input type="checkbox"/> NO
1e. STATE:	1f. ZIP CODE:	2g. TOWNSHIP:	2h. ZIP CODE:

PERMIT INFORMATION AND REFERENCE								
3.	APPLICATION NUMBER	IDENTIFICATION NUMBER	IS THE DATA AND INFORMATION PREVIOUSLY SUBMITTED TRUE, CORRECT, CURRENT AND COMPLETE?		DURING THIS REPORTING PERIOD MAXIMUM EMISSIONS FROM THIS OPERATION HAVE:			PERCENTAGE BY WHICH EMISSIONS HAVE INCREASED OR DECREASED
					INCREASED	REMAINED THE SAME	DECREASED	
			<input type="checkbox"/> YES	<input type="checkbox"/> NO				%
			<input type="checkbox"/> YES	<input type="checkbox"/> NO				%
			<input type="checkbox"/> YES	<input type="checkbox"/> NO				%
			<input type="checkbox"/> YES	<input type="checkbox"/> NO				%

4. PERIOD COVERED BY THIS REPORT: FROM _____ TO _____

5. THE ABOVE INFORMATION IS SUBMITTED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, RULE 107(b) AS ADOPTED APRIL 14, 1972, AND THE INFORMATION IS TRUE, CORRECT, COMPLETE, AND CURRENT. THE SIGNATURE MUST BE THAT OF THE PERSON AUTHORIZED TO EXECUTE AN OPERATING PERMIT APPLICATION.

AUTHORIZED SIGNATURE _____

A COPY OF THIS FORM MUST BE SUBMITTED FOR EACH PERMIT APPLICATION LISTED ABOVE.

THIS DOCUMENT IS NOT A PERMIT APPLICATION AND IS SOLELY FOR STATISTICAL AND INFORMATIONAL PURPOSES.

IF THE INFORMATION CONTAINED IN A LISTED PERMIT APPLICATION IS NO LONGER CORRECT, MATERIAL CORRECTING THE APPLICATION SHOULD BE SENT TO THE PERMIT SECTION OF THE DIVISION OF AIR POLLUTION CONTROL. IF THE CORRECTION IS DUE TO A MODIFICATION (INCREASE IN EMISSIONS) OR NEW EQUIPMENT, THIS MATERIAL SHOULD BE SUBMITTED AS A CONSTRUCTION PERMIT APPLICATION. OTHERWISE A LETTER EXPLAINING THE CORRECTION WILL BE SUFFICIENT.

DIRECTORY
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL

July 1, 1985

For assistance in preparing a permit application contact the Permit Section,

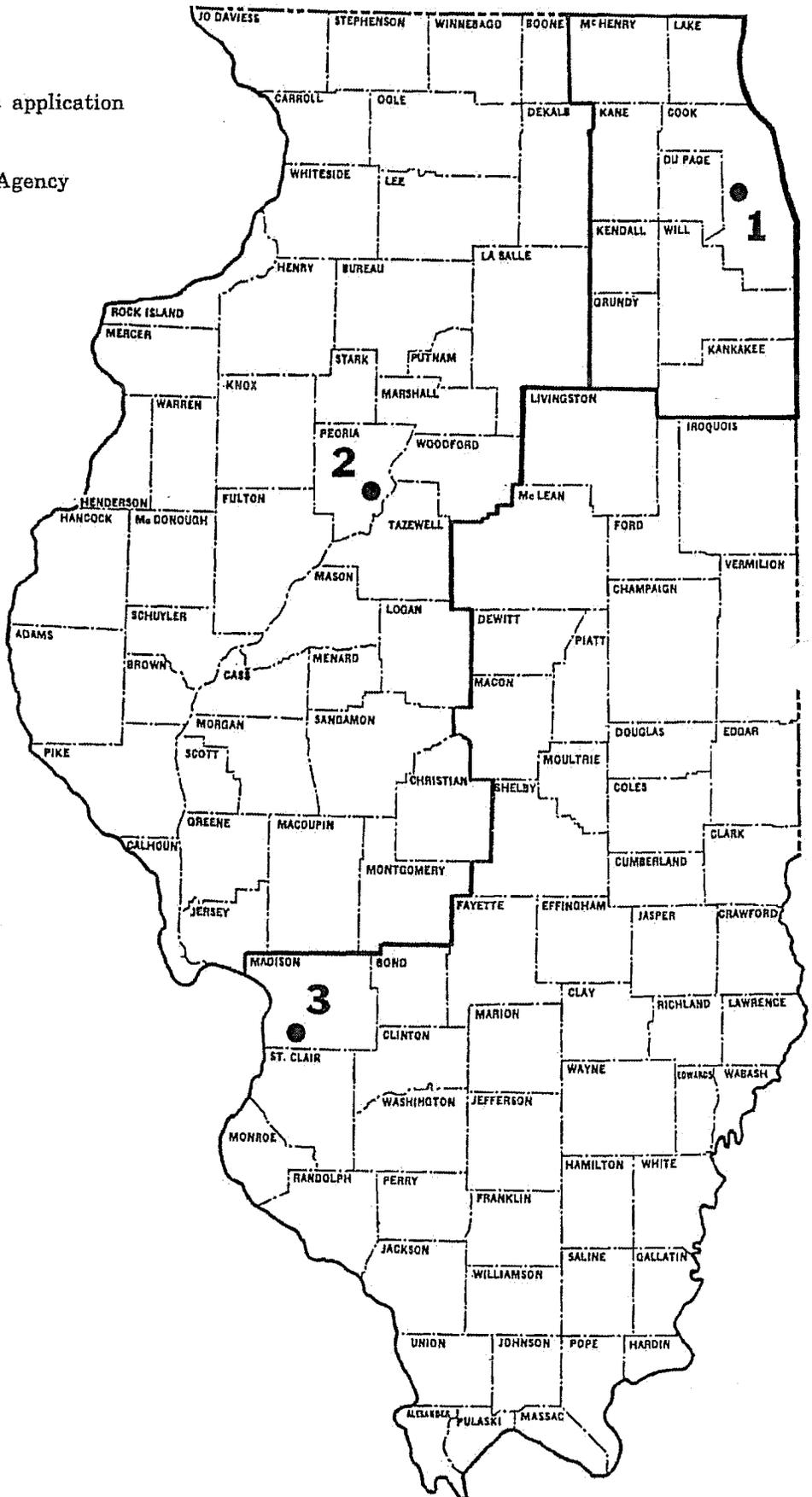
Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
2200 Churchill Road
Springfield, Illinois 62706
(217) 782-2113

or a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA
Region 1
Intercontinental Center
1701 S. 1st Avenue
Maywood, Illinois 60153
(312) 345-9780

Illinois EPA
Region 2
5415 North University
Peoria, Illinois 61614
(309) 691-2200

Illinois EPA
Region 3
2009 Mall Street
Collinsville, Illinois 62234
(618) 345-0700





State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

NOV 10 REC'D

Mary A. Gade, Director

P. O. Box 19506, Springfield, IL 62794-9506

217-782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

Trade Waste Incineration
Attn: General Manager
7 Mobile Avenue
Sauget, IL 62201

Application No.: 95080025
Applicant's Designation: 250 Boiler
Subject: Cleaver-Brooks Boiler
Date Issued: November 7, 1995

I.D. No.: 163121AAP
Date Received: August 11, 1995

Operating Permit Expiration
Date: November 7, 2000

Location: 7 Mobile Avenue, Sauget, IL

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and air pollution control equipment consisting of a Cleaver-Brooks natural gas fired boiler model CB 700-250-150 PSIG as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1 a. Natural gas shall be the only fuel fired.
- b. Emissions and operation of this boiler shall not exceed the following limits:

<u>Fuel</u>	<u>Operating Hours</u> (hr/yr)	<u>Nitrogen Oxides</u>		<u>Carbon Monoxide</u>	
		<u>(lb/hr)</u>	<u>(ton/yr)</u>	<u>lb/hr</u>	<u>ton/yr</u>
Natural Gas	8,760	1.46	6.41	2.1	9.2

These limits are based upon the maximum firing rate for the boiler, and standard emission factors.

- c. The Permittee shall notify the Agency prior to any change in the types of fuel used in the boiler.
- d. Compliance with the annual limit shall be determined from a running total of 12 months of data.
- 2a. The Permittee shall maintain records of the following items, and such other items as may be appropriate to allow the Agency to review compliance with the limits in Condition 1.
 - i. Annual usage of natural gas (10⁶ scf/month and 10⁶ scf/year).
 - ii. These records shall be retained for three years and shall be available for inspection by the Agency.

Page 2

If you have an question on this, please call Jim Cobb at 217-782-2113.

Donald E. Sutton

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JDC/53112.wpd

cc: Region 3



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

P.O. Box 19506, SPRINGFIELD, ILLINOIS 62794-9506

THOMAS V. SKINNER, DIRECTOR

217/782-2113

CERTIFIED MAIL

CONSTRUCTION PERMIT GRANT - OPERATING PERMIT DENIAL

PERMITTEE

Onyx Environmental Services
Attn: Doug Harris, Gen. Mgr.
#7 Mobile Avenue
Sauget, Illinois 62201

Application No.: 00110030 I.D. No.: 163121AAP
Applicant's Designation: CARBONINI4 Date Received: November 8, 2000
Subject: PAC Injection and Lime Recirculation
Date Issued: February 6, 2001
Location: #7 Mobile Avenue, Sauget

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission unit(s) and/or air pollution control equipment consisting of an activated carbon injection system and baghouse solids recirculation system for the Unit 4 hazardous waste incinerator as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special conditions:

- 1a. This construction permit is issued for improvements to the air pollution control system for the Unit 4 hazardous waste incinerator to facilitate compliance with the applicable emission limitations of 40 CFR 63 Subpart EEE, National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Incinerators, which become effective on September 30, 2002.
- b. This construction permit has not addressed the other applicable requirements of 40 CFR 63 Subpart EEE, such as operator training and certification.
- c. This permit does not authorize modification or reconstruction of the Unit 4 incinerator.
2. This permit does not relax or revise the requirements established in the existing permits for the Unit 4 incinerator, e.g., Air Pollution Control Operating Permit 90020011.
3. The improvements to the air pollution control system shall be designed, installed, equipped and operated to comply with applicable requirements of 40 CFR 63 Subpart EEE. In particular, the systems must comply with applicable requirements for activated carbon injection systems and dry scrubber systems.
4. The compliance milestones of 40 CFR 63 Subpart EEE shall be accomplished for Unit 4 on or before the required date, as specified below.
 - a. Submittal of a revision to the pending Title V application to incorporate the requirements of 40 CFR 63 Subpart EEE, by March 30, 2001.

GEORGE H. RYAN, GOVERNOR

Page 2

- b. Submittal of any request for extended compliance by September 30, 2001.
 - c. Submittal of Compliance Progress Report by October 1, 2001.
 - d. Submittal of a Comprehensive Performance Test Plan by March 30, 2002.
 - e. Compliance with the applicable provisions of 40 CFR 63 Subpart EEE by September 30, 2002.
 - f. Initiation of initial performance testing on or before March 30, 2003.
 - g. Completion of initial performance testing by May 29, 2003.
 - h. Submittal of Notification of Compliance or Non-Compliance by August 27, 2003.
5. The Unit 4 incinerator may be operated as generally authorized by existing permits with the improvements to the control system addressed by this construction permit. During such operation, the Permittee shall carry out an orderly shakedown of the new systems, develop limits for relevant operating parameters and conduct required performance testing.

The OPERATING permit application is DENIED because the Illinois Environmental Protection Act, Section 9, and 35 Ill. Adm. Code 201.160 might be violated.

Pursuant to Section 201.160, an operating permit may not be issued until the equipment has been constructed or modified in accordance with applicable conditions in this construction permit. The Illinois EPA suggests that you reapply for the operating permit after the construction is completed in accordance with the construction permit. This information must be submitted in duplicate and should reference the application and I.D. numbers assigned above.

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

Donald E. Sutton

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:CRR:jar

cc: Region 3