217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT[1]

PERMITTEE

BFI Medical Waste Inc.
Attn: R. Wade Van Zee, Manager, Environment, Safety, & Health
R.R. 4, Box 243L
Clinton, Illinois 61727

Application No.: 99110103
I.D. No.: 039808AAB
Applicant's Designation:
Date Received: November 15, 1999
Operation of: Medical Waste Incinerators
Date Issued: December 19, 2000
Expiration Date[2]: December 18, 2005
Source Location: RR 4, Box 243L, Clinton, DeWitt County
Responsible Official: Richard Geisser, Area Vice President

This permit is hereby granted to the above-designated Permittee to OPERATE a Medical Waste Incinerators, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/782-2113.

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

DES:AB:psj

cc: Illinois EPA, FOS, Region 3
USEPA

[1] This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 – federal PSD and 35 IAC Part 203 – Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

[2] Except as provided in Condition 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

BFI Medical Waste Inc.
R.R. 4, Box 243L
Clinton, Illinois 61727
Phone #(217)935-5816

I.D. No.: 039808AAB
Standard Industrial Classification: 4953,

1.2 Owner/Parent Company

Stericycle, Inc.
28161 North Keith Drive
Lake Forest, Illinois 60045

1.3 Operator

BFI Medical Waste Inc.
R.R. 4, Box 243L
Clinton, Illinois 61727

Contact Person's Name:
R. Wade Van Zee
Phone #(217) 935-5816

1.4 General Source Description

BFI Medical Waste Inc. is located in Clinton and operates two Hospital/Medical/Infectious Waste Incinerators. These HMIWI are the only significant emission units operated at this site.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BAT	Best Available Technology
Btu	British thermal unit
°C	Degrees Celsius
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CEMS	Continuous Emission Monitoring System
Cfm	Cubic foot per minute
CFR	Code of Federal Regulations
CO	Carbon Monoxide
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
°F	Degrees Fahrenheit
Ft	Feet
G	Grams
Gal	Gallons
Gr	Grains
HAP	Hazardous Air Pollutant
HCL	Hydrogen Chloride
Hg	Mercury
HMIWI	Hospital/Medical/Infectious Waste Incinerator
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
kW	kilowatts
L	liter
LAER	Lowest Achievable Emission Rate
lb	pound
MACT	Maximum Achievable Control Technology
mg	milligram
mmBtu	Million British thermal units
mmscf	Million standard cubic feet
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards

PM	Particulate Matter
PM_{10}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
ppmv	parts per million by volume
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
scf	Standard cubic feet
scm	Standard cubic meters
SO_2	Sulfur Dioxide
TEQ	Toxic equivalency
T	tons
T1	Title I – identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New – identifies Title I conditions that are being established in this permit
T1R	Title I Revised – identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material
yr	year

3.0 INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

a. Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane or liquefied petroleum gas; (B) units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with natural gas, propane, or liquefied petroleum gas; and (C) units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

b. Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons provided the tank is not used for the storage of gasoline or any listed hazardous air pollutant pursuant to Section 112(b) of the Clean Air Act [35 IAC 201.210(a)(10)].

c. Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a)(11)].

d. Storage tanks of any size containing exclusively soaps, detergents, surfactants, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners,

corn syrup, aqueous salt solutions, or aqueous caustic solutions provided an organic solvent has not been mixed with such materials [35 IAC 201.210(a)(17)].

e. Loading and unloading systems for railcars, tank trucks, or watercraft that handle only the following liquid materials provided an organic solvent has not been mixed with such materials: soaps, detergents, surfactants, lubricating oils, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions [35 IAC 201.210(a)(18)].

3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182, 218.182, or 219.182.

3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit’s process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.

3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1,

until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 1	Two Hospital/Medical/ Infectious Waste Incinerators	1988 & 1990	Venturi Scrubbers

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

5.1.1 This permit is issued based on the source requiring a CAAPP permit because the source is subject to a standard, limitation, or other requirement under Section 111 (NSPS) or Section 112 (HAPs) of the CAA for which USEPA requires a CAAPP permit, or because the source is in a source category designated by the USEPA, pursuant to 40 CFR 70.3(a)(2), (3), and (5) (40 CFR 70.3 Applicability) [Section 39.5(2)(a)(ii) and (iv) of the Act].

5.1.2 This permit is issued based on the source not being a major source of HAPs.

5.2 Applicable Regulations

5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.

5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

Compliance with this requirement is considered to be assured by the inherent nature of operations at this source, as demonstrated by historical operation.

b. 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 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

5.2.3 The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.2.4 Risk Management Plan

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in 40 CFR Part 68, then the owner or operator shall submit [40 CFR 68.215(a)(2)(i) and (ii)]:

a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or

b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan (RMP), as part of the annual compliance certification required by 40 CFR Part 70 or 71.

5.2.5 a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.

b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation

which was promulgated after the date issued of this permit.

5.2.6 Episode Action Plan

a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.

b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.

c. If a change occurs at the source which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.

d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:

i. Illinois EPA, Compliance Section; and

ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or

iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

5.3 Non-Applicability of Regulations of Concern

None

5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	0.46
Sulfur Dioxide (SO_2)	11.9
Particulate Matter (PM)	2.85
Nitrogen Oxides (NO_x)	25.4
HAP, not included in VOM or PM	6.57
TOTAL	47.18

5.5.2 Emissions of Hazardous Air Pollutants

This permit is issued based on the emissions of HAPs as listed in Section 112(b) of the CAA not being equal to or exceeding 10 tons per year of a single HAP or 25 tons per year of any combination of such HAPs, so that this source is considered a minor source for HAPs.

5.5.3 Other Source-Wide Emission Limitations

None

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1, pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.2 Retention and Availability of Records

a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of noncompliance of the source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of Conditions 5.6 and 5.7, and compliance procedures in Section 7 (Unit Specific Conditions) of this permit.

6.0 NOT APPLICABLE TO THIS PERMIT

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 1 Hospital Medical Infectious Waste Incinerators (HMIWI)

7.1.1 Description

A continuous HMIWI are used for disposal (incineration) of the hospital/medical infectious waste generated by other hospitals or medical facilities and shipped to this site for further incineration.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Unit 1: HMIWI	Continuous HMIWI #1 and #2 with a maximum waste charging rate of 1,500 lb/hr for each unit	Venturi Scrubbers

7.1.3 Applicability Provisions and Applicable Regulations

a. The “affected large hospital medical infectious waste incinerator” for the purpose of these unit-specific conditions, is an emission unit for incineration of the medical waste generated by other hospitals or medical facilities and shipped to the affected HMIWI for further incineration.

b. The affected large HMIWI is subject to the emission limits established in 35 IAC Part 229 "Hospital/Medical/Infectious Waste Incinerators" and shall fully comply with 35 IAC Part 229 by September 15, 2002 pursuant to 35 IAC 229.115(b), and Compliance Schedule established in Condition 7.1.10. The Permittee shall be in full compliance with all of the HMIWI operator provisions of 35 IAC Part 229, Subpart J by September 15, 2000. All emission limits and requirements of 35 IAC Part 229 are discussed further in this Section.

c. The affected large HMIWI is subject to the following emission limits until September 15, 2002:

i. No person shall cause or allow the emission of particulate matter into the atmosphere from 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 [35 IAC 212.181(d)].

ii. 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 [35 IAC 216.141].

d. Malfunction and Breakdown Provisions

In the event of a malfunction or breakdown of an inducted draft fan(s) or scrubber pump(s) of affected HMIWI, the Permittee is authorized to continue operation of affected HMIWI within 2 hours after the last charge to the HMIWI was introduced, in violation of the applicable requirement established by this permit, as necessary to prevent risk of injury to personnel or severe damage to equipment, pursuant to 35 IAC 229.130. The in-build automatic waste feed lockout device eliminates the ability to feed waste during malfunction events. This authorization is subject to the following requirements:

i. The Permittee shall repair the damaged inducted draft fan(s) or scrubber pump(s)of the affected HMIWI as soon as practicable.

ii. No operation is allowed during repair and/or replacement of the broken parts of affected HMIWI.

iii. The Permittee shall fulfill the applicable recordkeeping and reporting requirements of Conditions 7.1.12 and 7.1.13.

e. Startup Provisions

The Permittee is authorized to operate an affected HMIWI in violation of the applicable limit of 35 IAC 212.181(d) and 216.141 during startup pursuant to 35 IAC 201.262, as the Permittee has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual starts, and frequency of startups. This authorization is subject to the following:

i. This authorization extends for a period required to achieve mandated minimum operating temperatures following initial firing of fuel during each startup event. This authorization is based on the certain operating scenarios including but not limited to:

A. Dependant upon the temperature of each affected HMIWI prior to startup as the result of the ambient air temperature and the duration of time the HMIWI was not operated prior to the startup required minimum operating temperatures might not be realized within 6 hours.

B. Upon completion of refractory repairs and/or replacement in the HMIWI and related ductwork a curing process utilizing the natural gas fired burners is required. Depending upon the extent of the refractory repairs and/or replacement the curing process may require several days before required minimum operating temperatures can be safely achieved.

ii. The Permittee shall take the following measures to minimize startup emissions, the duration of startups, and minimize the frequency of startups:

A. Implementation of established startup procedures; and

B. No waste is allowed to be charged into the affected HMIWI until the unit has reached a minimum operating temperature established by this permit.

iii. The Permittee shall fulfill the applicable recordkeeping requirements of Condition 7.1.12.

7.1.4 Non-Applicability of Regulations of Concern

a. Each affected large HMIWI is exempted from compliance with 35 IAC Part 229 by September 15, 2000, except for operator provisions, pursuant to 35 IAC 229.115(b).

b. Each affected large HMIWI is not subject to 40 CFR 60.50c because construction of this HMIWI was commenced prior to June 20, 1996.

c. This permit is issued based on the affected HMIWI not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64.2(b)(1)(i). This exemption is determined based on the following:

i. 35 IAC Part 229 had been created based on the 40 CFR 60, Subpart Ce “Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators” published in 1997; and

ii. Pursuant to 40 CFR 64.2(b)(1)(i), all such sources subject to any NSPS regulation proposed after November 15, 1990 are exempted from CAM applicability.

7.1.5 Operating Requirements and Work Practices

a. The following wastes are allowed for incineration:

i. General hospital waste, including medical/infectious waste and pathological waste, at the rate not exceeding 1,500 lb/hr, based on measurement of the weight of each load or "charge" of waste introduced into the incinerator.

ii. Other types of waste(s) specifically authorized by the Bureau of Land Permit Section in accordance with 39(c) or (d) of the Illinois Environmental Protection Act including proof of local siting approval following the procedures in 39.2 of the Illinois Environmental Protection Act.

b. The total charging rate of each affected HMIWI shall not exceed 1,500 lb/hr, based on measurement of the weight of each load or "charge" of waste introduced into the incinerator.

c. The waste shall be fed to each affected HMIWI when the Automatic Waste Feed Cutoff System (AWFCS) and associated equipment is operating. The AWFCS shall be set to prevent charging of waste to affected HMIWI when the following conditions occur:

i. Temperature of exhaust gas leaving the primary chamber is less than 1,400°F.

ii. Temperature of exhaust gas leaving the secondary chamber is less than 1,800°F.

iii. Temperature of exhaust gas leaving the secondary chamber is greater than 2,350°F.

iv. Loss of scrubbant pressure.

v. Quench water flow less than 5 gallons per minute.

vi. Emergency stack is open.

vii. PH of scrubbant is less than 3.0.

7.1.6 Operator Training and Qualification Requirements

The Permittee has to demonstrate compliance with all of the following requirements by September 15, 2000.

a. No HMIWI shall be operated unless a trained and qualified HMIWI operator, as specified in 35 IAC Part 229, is available on-site to operate or supervise the operation of the HMIWI.

b. To become a trained and qualified operator, a person shall complete a training program that, at a minimum, meets the criteria specified further in this condition, pass the examination administered in accordance with condition described below and have either 6 months experience as an HMIWI operator or have completed 2 burn cycles under the observation of 2 trained and qualified HMIWI operators.

c. An operator training program shall satisfy all of the following criteria:

i. Consist of at least 24 hours of training covering the following subjects:

A. Work safety procedures;

B. Pre-startup procedures;

C. Environmental concerns, including pathogen destruction and types of emissions;

D. Basic combustion principles, including combustion byproducts;

E. Instruction in the proper operation of the same type of incinerator that will be used by the operator, including proper startup, waste charging, and shutdown procedures;

F. Combustion controls and monitoring;

G. Operation of air pollution control equipment and factors affecting performance;

H. Methods for monitoring pollutants, both by CEMS and by monitoring of HMIWI and air pollution control device operating parameters, and monitoring instrument calibration procedures;

I. Inspection and maintenance of an HMIWI, air pollution control equipment, and CEMS;

J. Corrective measures to remedy malfunctions and conditions that may lead to malfunction;

K. Characteristics of and proper handling procedures for bottom and fly ash;

L. Recordkeeping procedures; and

M. Applicable Federal, State, and local regulations.

ii. Administer an examination designed by the course instructor; and

iii. Provide reference materials covering all of the course topics specified above.

d. Operator qualification is valid from the date on which the examination specified in Condition 7.1.6(c)(ii) is passed, or the completion of the experience requirements set forth in Condition 7.1.6(b), whichever is later.

e. In order for an operator that has been qualified in accordance with Condition 7.1.6(b) to maintain the necessary qualification status, the operator shall:

i. Complete and pass an annual review course of at least 4 hours in length that, at a minimum, covers the following subjects:

A. An update of applicable regulations;

B. Proper incinerator operation, including startup and shutdown procedures;

C. Proper incinerator inspection and maintenance;

D. Responses to malfunctions and conditions that may lead to malfunction; and

E. A discussion of operating problems encountered by attendees.

ii. If an operator fails to either take or to complete and pass the annual review course, the operator's qualification will lapse.

iii. If the operator's qualification lapses for less than 3 years, qualification may be reinstated by taking and passing the annual review course, as provided under Condition 7.1.6(e)(1).

iv. If there is a 3 year or greater lapse in an operator's qualification, then the operator shall take and pass an operator training course, as provided for under Condition 7.1.6(c), in order to reinstate the qualification [35 IAC 229. 170].

7.1.7 Waste Management Plan Requirements

The Permittee of the affected HMIWI by accepting hospital waste or medical/infectious waste generated off-site shall:

a. Provide hospital, medical or infectious waste customers with written information at least once a year concerning the availability of waste management practices for reducing the volume and toxicity of waste to be incinerated; and

b. Submit a waste management plan to the Agency, in accordance with 35 IAC 229.184(b)(2), that outlines the efforts that will be undertaken to distribute information as specified in Condition 7.1.7(a)(i) and identifies the information that will be distributed [35 IAC 229.180].

7.1.8 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected large HMIWI is subject to the following:

a. After September 15, 2002 the emissions shall not exceed the following limits pursuant to 35 IAC 229.125(b):

Pollutant	Units (7% oxygen, dry basis)	Emission Limits for Large HMIWI
PM	mg per dscm (grains per dscf)	34 (0.015)
CO	ppmv	40
Dioxins/ Furans	Nanograms per dscm, total dioxins/furans (grains per billion dscf), or nanograms per dscm TEQ (grains per billion dscf)	125 (55) or 2.3 (1.0)
HCL	ppmv or percent reduction	100 or 93%
SO_2	ppmv	55
NO_x	ppmv	250
Pb	mg per dscm (grains per thousand dscf) or Percent reduction	1.2 (0.52) or 70%
Cd	mg per dscm (grains per thousand dscf) or Percent reduction	0.16(0.07) or 65%
Hg	mg per dscm (grains per thousand dscf) or Percent reduction	0.55 (0.24) or 85%

b. Prior to September 15, 2002 emissions of CO and PM from the affected large HMIWI shall not exceed the limits identified in Condition 7.1.3(c).

c. Operation of the affected HMIWI shall not exceed the following limits:

The total amount of waste incinerated in each affected HMIWI shall not exceed 1,500 lb/hr and the total annual combined amount of waste for unit #1 and #2 shall not exceed 13,140 T/yr.

d. Emissions of HCL (total) from the affected HMIWI shall not exceed the following limits:

HCL Emissions

(lb/hr)	(Ton/Year)
1.5	6.57

These limits establish potential HCL emissions from affected HMIWI based on the maximum design capacity

and HCL standard emission factor of 1.0 lb/ton of the charging waste. These limits contain revisions to the previously issued permits 87070016 and 89070019 (currently combined in permit 87070016). The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of these permits, consistent with the information provided in the CAAPP application. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, emission limits and charging rates established in these permits have been increased [T1R].

e. Compliance with annual limits 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)

f. Each affected HMIWI is exempt from the emission limits set forth in Condition 7.1.8(a) during periods of startup, shutdown, or malfunction if no waste is charged to an affected HMIWI pursuant to 35 IAC 229.130(a).

7.1.9 Testing Requirements

The Permittee shall fulfill the following testing requirements established in 35 IAC 229.140, 229.142, 229.144, 229.146, and 229.148 for all performance tests:

a. Initial performance testing of the affected large HMIWI shall be performed no later than the date established in the Compliance Schedule of Condition 7.1.10 and by using the following USEPA test Methods, as established by 35 IAC 229.104(d):

USEPA Methods: 1, 2, 3, 3a, 5, 9, 10, 10B, 23, 26, 26A, and 29.

b. When conducting a performance test for an HMIWI, the owner or operator shall:

i. Test an HMIWI at the waste charging rate specified in its permit or, if no permit has been issued, in its permit application;

ii. Burn representative waste streams that are typically combusted in that HMIWI;

iii. Conduct testing during periods that are inclusive of maximum emissions of the HMIWI and not during periods of startup, malfunction, or shutdown; and

iv. Weigh the amount of waste combusted for each run of the performance test before charging the waste to an HMIWI to within 1.0 percent accuracy determined by calibration of the weigh scale prior to the test.

c. The owner or operator of an HMIWI shall submit a test plan to the Illinois EPA at least 45 days before conducting a performance test. Performance test plans shall include the following:

i. The proposed date of the performance test;

ii. A roster of testing personnel, which provides information concerning their testing experience;

iii. A description of the specific conditions under which the test will be performed, including, at a minimum:

A. Why these conditions will be representative of the operation and include maximum emissions of the HMIWI; and

B. The means by which the operating parameter values will be determined;

iv. A technical description of the HMIWI being tested;

v. The parameters and pollutants that will be monitored during the performance test; and

vi. The quality assurance procedures that will be followed during the performance test.

d. The owner or operator of an HMIWI shall give the Illinois EPA 5 days written notice prior to actually conducting any performance testing required by the provisions of 35 IAC Part 229.

e. Testing conducted pursuant to 35 IAC Part 229 shall be according to the procedures and test methods specified for the measurement of each pollutant in Appendix C of 35 IAC Part 229.

f. Any use of a bypass stack during a performance test shall invalidate the results of that run.

g. The owner or operator of an HMIWI may conduct a repeat performance test at any time to establish new site specific operating values for the HMIWI. Such new site specific operating parameter values may not be relied upon until approved by the Illinois EPA as a permit condition.

h. Following the date on which the initial performance test is completed, as required by this permit and 35 IAC 229.142, the Permittee shall conduct an annual performance test, by September 15 of each year to determine compliance with the PM, CO and HCl emission limits specified in 35 IAC 229.125(b), using the applicable test procedures and methods specified in 35 IAC 229.140.

   i. If all 3 annual performance tests over a 3-year period indicate compliance with the emission limits for PM, CO, or HCl specified in 35 IAC 229.125(b), the owner or operator of an HMIWI may forego a performance test for that pollutant during the next 2 years. If the next performance test conducted every third year indicates compliance with the emission limits for PM, CO, or HCl specified in 35 IAC 229.125(b), the owner or operator of an HMIWI may forego a performance test for that pollutant for an additional 2 years from the date of the previous performance test.

   ii. If any performance test indicates noncompliance with the respective emission limit, the owner or operator of an HMIWI shall conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the respective emission limits.

i. The Illinois EPA or the USEPA may request that the owner or operator of an HMIWI conduct a new performance test at any time.

j. The Permittee shall comply with the following initial performance testing and establishment of operating parameters requirements, pursuant to 35 IAC 229.142:

i. If an HMIWI is equipped with a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and wet scrubber, establish the appropriate maximum and minimum operating parameter values indicated in Appendix B of 35 IAC Part 229 and Condition 7.1.9(l) of this permit for the relevant control system during the initial performance test, provided that the performance test demonstrates compliance with the emission limits specified in 35 IAC 229.125; and

ii. If air pollution control equipment other than a dry scrubber followed by a fabric filter, a wet scrubber, or dry scrubber followed by a fabric filter and a wet scrubber is used to comply with the emission limits under 35 IAC 229.125, the initial performance test may not be conducted until site-specific operating parameters that will be monitored to demonstrate compliance with this Part have been established by the Illinois EPA in a construction permit and approved by USEPA.

k. Operating Parameters to be Monitored and Minimum Measurement and Recording Frequencies. Operating Parameters shall be calculated each hour as a 3-hour rolling average of the previous 3 operating hours, pursuant to 35 IAC 229.150(a). An “x” in any box in this matrix means that measurement of that parameter is required.

MINIMUM FREQUENCY			**CONTROL SYSTEM**		
Operating Parameters	**Data Meas-urement**	**Data Recording**	**Dry Scrubber Followed by Fabric Filter**	**Wet Scrubber**	**Dry Scrubber Followed by Fabric Filter and Wet Scrubber**
Maximum[1] Charge Rate	Continuous	Once per hour	X	X	X

MINIMUM FREQUENCY			CONTROL SYSTEM		
Operating Parameters	**Data Meas-urement**	**Data Recording**	**Dry Scrubber Followed by Fabric Filter**	**Wet Scrubber**	**Dry Scrubber Followed by Fabric Filter and Wet Scrubber**
Maximum Fabric Filter Inlet Temperature	Continuous	Once per minute	X		X
Maximum flue gas temperature	Continuous	Once per minute	X	X	
Minimum secondary chamber temperature	Continuous	Once per minute	X	X	X
Minimum Dioxin/ Furan Sorbent Flow Rate	Hourly	Once per hour	X		X
Minimum HCl Sorbent Flow Rate	Hourly	Once per hour	X		X
Minimum Hg Sorbent Flow Rate	Hourly	Once per hour	X		X
Minimum Pressure Drop Across the Wet Scrubber or Minimum Horsepower or Amperage to Wet Scrubber	Continuous	Once per minute		X	X
Minimum Scrubber Liquor Flow Rate	Continuous	Once per minute		X	X
Minimum Scrubber Liquor pH	Continuous	Once per minute		X	X

[1]For batch HMIWIs, record the charge per batch.

7.1.10 Compliance Plan/Schedule of Compliance

To meet full compliance with 35 IAC Part 229 by September 15, 2002 the Permittee shall fulfill the following actions:

a. Commence the implementation of the necessary construction or installation of air pollution control device(s) for the affected large HMIWI by November 30, 2000;

b. Complete the installation or construction of the new air pollution control equipment by August 31, 2001;

c. Perform initial startup of the retrofitted HMIWI by January 15, 2002; and

d. Complete the initial performance test in accordance with 35 IAC 229.142 and testing conditions of this permit within 180 days after initial startup.

7.1.11 Monitoring Requirements

a. Once the initial performance test required by this permit and 35 IAC 229.142 has been performed, and the site-specific minimum and maximum operating parameter values have been established, the owner or operator of the affected large HMIWI shall continuously monitor those parameters.

b. The owner or operator of the affected large HMIWI shall comply with the following monitoring requirements:

i. Install, calibrate according to manufacturer's specifications, maintain, and operate devices or establish methods for monitoring the applicable maximum and minimum operating parameters specified in Condition 7.1.9(k) and Appendix B of 35 IAC Part 229 such that these devices or methods measure and record values for these operating parameters at the frequencies indicated in Condition 7.1.9(k) of this permit at all times, except during periods of startup and shutdown;

ii. Install, calibrate according to manufacturer's specifications, maintain, and operate a device

or establish a method for identifying the use of the bypass stack, including date, time, and duration of use;

iii. If control equipment other than a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet scrubber is used to comply with the emission limits under Condition 7.1.6(a), install, calibrate according to manufacturer's specifications, maintain, and operate the equipment necessary to monitor the site-specific operating parameters developed and approved pursuant to 35 IAC 229.142 (e); and

iv. Record monitoring data at all times during HMIWI operation, except during the periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be recorded for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that an HMIWI is combusting hospital waste or medical/infectious waste [35 IAC 229.166].

c. The Permittee shall monitor emissions of CO until September 15, 2002 or the date of compliance with all requirements and emission standards of 35 IAC Part 229, whichever comes first. To verify the accuracy of the CO monitor readings, the Permittee shall perform daily calibration checks by using known calibration gases as described below.

i. Daily checks shall be conducted using a (1) high purity nitrogen zero gas and (2) a high range EPA Protocol (1 or 2) gas containing 150 to 180 ppm CO and 8 to 12 vol % O_2.

ii. The CO monitors shall be recalibrated if the daily checks indicate more than 10% drift from either gas as described above.

iii. If the measured drift exceeds the limits described above for 5 consecutive days, or if either monitor shows greater than 20% drift, then the Permittee shall notify a qualified instrumentation technician and corrective action shall be taken to repair and/or recalibrate the monitor.

iv. Cylinder gas audits shall be conducted using a low level gas containing 60 to 90 ppm CO and 4 to 6 vol % O_2, and a high range gas as described above. The monitors shall be challenged three (3) times with each calibration gas, and the average determined. If the drift exceeds 15% based on the calibration gas values, then corrective measures shall be taken as necessary.

v. The Permittee shall maintain records of the daily CO monitor checks. These records shall be available for inspection by the Illinois EPA.

7.1.12 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected HMIWI to demonstrate compliance with Condition 5.5.1 and Section 7 of this permit, pursuant to Section 39.5(7)(b) of the Act:

a. The owner or operator of an HMIWI subject to the emission limits under 35 IAC Part 229 shall maintain records of the following information:

i. The calendar date of each record;

ii. The following data, where applicable:

A. Concentrations of all applicable pollutants listed in 35 IAC 229.125(b) and any measurements of opacity as required under 35 IAC 229.125(c);

B. HMIWI charge dates, times and weights, and hourly charge rates;

C. If a fabric filter is used, the fabric filter inlet temperatures during each minute of operation;

D. The amount and type of dioxin/furan sorbent used during each hour of operation;

E. The amount and type of Hg sorbent used during each hour of operation;

F. The amount and type of HCl sorbent used during each hour of operation;

G. The secondary chamber temperatures recorded during each minute of operation;

H. The liquor flow rate to the wet scrubber inlet during each minute of operation;

I. The horsepower or amperage to the wet scrubber during each minute of operation;

J. Any pressure drop across the wet scrubber system during each minute of operation;

K. The temperature at the outlet from the wet scrubber during each minute of operation;

L. The pH at the inlet to the wet scrubber during each minute of operation; and

M. Identification of any use of the bypass stack, including dates, times, and the duration of such use.

iii. Identification of any calendar days for which data on emission rates or operating parameters specified under Condition 7.1.11(a)(ii) have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining data, and a description of the corrective actions taken;

iv. Identification of any malfunctions, including the calendar date, the time and duration, and a description of the malfunction and of the corrective action taken to remedy it;

v. Identification of calendar days for which data on emission rates or operating parameters specified under Condition 7.1.11(a)(ii) exceeded the applicable limits, with a description of the exceedences, reasons for such exceedences, and a description of the corrective actions taken;

vi. The results of the initial, annual, and any other performance tests;

vii. Records of calibration of any monitoring devices as required under Condition 7.1.10(b); and

viii. Identification of the names of all HMIWI operators who have met the criteria for qualification under 35 IAC 229.170, including:

A. Documentation of training and the dates of the training; and

B. The date of the initial review and all subsequent annual reviews of the information specified in 35 IAC 229.172(a), as required by 35 IAC 229.172(b).

b. All records required under 35 IAC Part 229 shall be maintained on site for a period of 5 years, in either paper copy or electronic format, unless an alternative format has been approved by the Illinois EPA.

c. Records for Startup

The Permittee shall maintain the following records, pursuant to Section 39.5(7)(b) of the Act, for each affected HMIWI subject to Condition 7.1.3(d), which at a minimum shall include:

i. The following information for each startup of HMIWI:

A. Date and duration of the startup, i.e., start time and time normal operation achieved;

B. If normal operation was not achieved, an explanation why startup could not be achieved;

C. A detailed description of the startup, including reason for operation and whether charging of waste was performed during this time; and

D. An explanation why established startup procedures could not be performed.

ii. A maintenance and repair log for each HMIWI, listing each activity performed with date.

d. All records required to be maintained pursuant to 35 IAC Part 229 shall be made available to the Illinois EPA upon request.

7.1.13 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of affected HMIWI with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

a. The facility manager and the responsible official for the affected source shall certify each report required under 35 IAC Part 229.

b. The owner or operator of an HMIWI shall submit to the Illinois EPA the results of any performance test conducted on the HMIWI within 60 days after conducting the performance test. The information submitted with the initial performance test required by this permit shall include:

i. The test data and values for the site-specific operating parameters established for an HMIWI pursuant to 35 IAC 229.142; and

ii. A copy of the waste management plan required under 35 IAC Part 229, Subpart K.

c. The owner or operator of affected HMIWIs shall submit the information specified further in this condition to the Illinois EPA by September 15, 2002 and by September 15 of each year thereafter. After issuance of the CAAPP permit, the Permittee shall submit these reports semi-annually. The annual report shall include the following information:

i. The values for site-specific operating parameters established pursuant to 35 IAC 229.142;

ii. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter, recorded for the calendar year being reported and for the calendar year preceding the year being reported;

iii. Any information recorded pursuant to 35 IAC 229.182(a)(3) through (5) for the calendar year being reported and for the calendar year preceding the year being reported;

iv. If no exceedences or malfunctions were recorded under 35 IAC 229.182(a)(3) through (a)(5) for the calendar year being reported, a statement that no exceedences occurred during the reporting period; and

v. Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.

d. The semiannual reports must be submitted within 60 days following the end of the reporting period. The first semiannual reporting period ends on March 15 of each year and the second semiannual reporting period ends on September 15 of each year.

e. Upon experiencing an incineration process system malfunction that causes the bypass stack to open, the Permittee shall perform the following:

i. Immediately notify Illinois EPA Field Operation Section:

Illinois EPA
Division of Air Pollution Control
2125 South First Street
Champaign, Illinois 61820
Phone: 217/278-5800

ii. Generate an Air Excursion Incident (Bypass Stack Open) report. The report shall indicate the unit number, date, time, duration, system malfunction, and corrective action.

iii. The report(s) shall be filed at the facility for a minimum of five years and shall be readily available for inspection by the Illinois EPA.

iv. A semi-annual report must be submitted to the Illinois EPA summarizing air excursion incidents that cause the bypass stack to open. The report must provide a description of each excursion, the action taken to correct each excursion and a summary of total bypass minutes vs. total operating time during each

reporting period. Total operating time is the time the affected HMIWI units were in operation pursuant to 35 IAC 229.102.

v. Each semi-annual report must be submitted to the above address and Compliance Section within 60 days of the end of the reporting period.

7.1.14 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.1.15 Compliance Procedures

a. Compliance with emission limits established in this permit for affected HMIWI is assumed to be achieved by compliance with operating, control, and testing requirements and procedures established pursuant to 35 IAC Part 229. Specific emission factors for the regulated air pollutants shall be established based on the data of initial stack testing performed.

b. The standard emission factors for emissions shall be used prior to new controlled emission data being retrieved from the stack testing. For these purposes, the following AP-42 emission factors shall be used:

Pollutant	Emission Factor, lb/ton of waste charged
HCL	1.0*
PM	4.67**
NO_x	3.56**
CO	2.95**

*Low Energy Scrubber (AP-42, Table 2.3-3)
**Uncontrolled Emissions (AP-42, Tables 2.3-1, 2.3-2)

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after November 4, 2000 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 Emissions Trading Programs

As of the date of issuance of this permit, there are no such economic incentive, marketable permit or emission trading programs that have been approved by USEPA.

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes without applying for or obtaining an amendment to this permit, provided that the changes do not constitute a modification under Title I of the CAA, emissions will not exceed the emissions allowed under this permit following implementation of the physical or

operational change, and the Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change [Section 39.5(12)(a) of the Act]. This notice shall:

a. Describe the physical or operational change;

b. Identify the schedule for implementing the physical or operational change;

c. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;

d. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and

e. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

Monitoring Period	Report Due Date
January - June	September 1

July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

a. The name and identification of the affected unit(s);

b. The person(s) who will be performing sampling and analysis and their experience with similar tests;

c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;

d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;

e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;

f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and

g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

a. The name and identification of the affected unit(s);

b. The date and time of the sampling or measurements;

c. The date any analyses were performed;

d. The name of the company that performed the tests and/or analyses;

e. The test and analytical methodologies used;

f. The results of the tests including raw data, and/or analyses including sample calculations;

g. The operating conditions at the time of the sampling or measurements; and

h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

iii. Illinois EPA - Air Permit Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 (“Title I provisions”) and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 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 applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and

d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner

unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(a) and (p)(ii) of the Act and 415 ILCS 5/4]:

a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

d. Sample or monitor any substances or parameters at any location:

   i. At reasonable times, for the purposes of assuring permit compliance; or

   ii. As otherwise authorized by the CAA, or the Act.

e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and

f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply With Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit 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 sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].

b. Other records required by this permit shall be retained for a period of at least 5 years from the

date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 – Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.

b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.

c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain

compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;

ii. The permitted source was at the time being properly operated;

iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is

removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;

b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;

c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement when establishing the emission standards or limitations, or other terms or conditions of this permit; and

d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

9.12.3 Inaccurate Application

The Illinois EPA 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 Section 39.5(15)(b) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing

to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

10.1 Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

AB:psj