

PROPOSED CAAPP PERMIT
November 5, 2008

217/782-2113

"RENEWAL"
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE:

Stericycle, Inc.
Attn: R Wade Van Zee, Manager ESH
R. R. 4, Box 243L
Clinton, Illinois 61727

I.D. No.: 039808AAB
Application No.: 99110103

Date Received: March 17, 2005
Date Issued: TO BE DETERMINED
Expiration Date: TO BE DETERMINED

Operation of: Medical Waste Incinerators
Source Location: R. R. 4, Box 243L, Clinton, DeWitt County, 61727
Responsible Official: Rick Gabey, District Manager

This permit is hereby granted to the above-designated Permittee to OPERATE 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.

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

ECB:AB:psj

cc: Illinois EPA, FOS, Region 3
CES
Lotus Notes

¹ Except as provided in Conditions 1.5 and 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Stericycle, Inc.
PR 4 Box 243L
Clinton, Illinois 61727
217/935-4700

I.D. No.: 039808AAB
County: DeWitt
Standard Industrial Classification: 4953, Refuse Systems

1.2 Owner/Parent Company

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

1.3 Operator

Stericycle, Inc.
PR 4 Box 243L
Clinton, Illinois 61727

R. Wade Van Zee
217/935-4700

1.4 Source Description

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

1.5 Title I Conditions

As generally identified below, this CAAPP permit contains certain conditions for emission units at this source that address the applicability of permitting programs for the construction and modification of sources, which programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM), and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of the Illinois Environmental Protection Act (Act). These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

- a. This permit contains "Title I conditions" that reflect Title I requirements established in permits previously issued for this source, which conditions are specifically designated as "T1."

2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

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
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
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
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
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
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
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

3.0 CONDITIONS FOR 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). Note: These activities are not required to be individually listed.

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 5.3.2), the Permittee shall comply with the following requirements, as applicable:

3.2.1 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 (see Attachment 2) and 35 IAC Part 266. 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.

3.2.2 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 218.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.2.3 For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.

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

Description	Date Constructed	Emission Control Equipment	Subsection of this Permit
Two Hospital/Medical/ Infectious Waste Incinerators	1988 & 1990	Quench Tower, Venturi Scrubbers and Condensing Absorber	7.1

5.0 OVERALL SOURCE CONDITIONS

5.1 Applicability of Clean Air Act Permit Program (CAAPP)

- 5.1.1 a. 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) of the CAA for which USEPA requires a CAAPP permit, pursuant to 40 CFR 70.3(a)(2) [Section 39.5(2)(a)(ii) of the Act]. Specifically, this source is subject to 35 IAC Part 229 developed based on the requirements of 40 CFR 60, Subpart Ce "Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators". Both statutes require that any source in operation of a Hospital/Medical/Infectious Waste Incinerator shall apply for a CAAPP permit.
- b. This source is a synthetic minor source for HAP emissions. Conditions 5.6.2 and 7.1.6 reflect this status by placing the certain emission limitations on HAP emission to support non-major status of this source.

5.2 Area Designation

- 5.2.1 This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated attainment or unclassifiable for the National Ambient Air Quality Standards for all criteria pollutants (CO, lead, NO₂, ozone, PM_{2.5}, PM₁₀, SO₂).

5.3 Source-Wide Applicable Provisions and Regulations

- 5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.
- 5.3.2 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.
- b. Pursuant to 35 IAC 212.123(a), 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, except as allowed by 35 IAC 212.123(b) and 212.124.

5.3.3 Ozone Depleting Substances

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.

5.3.4 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 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 RMP, as part of the annual compliance certification required by Condition 9.8.

5.3.5 Future Emission Standards

- a. Should this stationary source become subject to a new or revised regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B 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 Condition 9.8. This permit may also have to be revised or reopened to address such new or revised regulations (see Condition 9.12.2).
- b. This permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this

permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

5.3.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.141, 244.142, and 244.143, 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 and is incorporated by reference into this permit.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared by the Director of the Illinois EPA or his or her designated representative.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.

5.4 Source-Wide Non-Applicability of Regulations of Concern

Source-wide non-applicability of regulations of concern are not set for this source. However, there are terms for unit specific non-applicability of regulations of concern set forth in Section 7 of this permit.

5.5 Source-Wide Control Requirements and Work Practices

Source-wide control requirements and work practices are not set for this source. However, there are requirements for unit specific control requirements and work practices set forth in Section 7 of this permit.

5.6 Source-Wide Production and Emission Limitations

5.6.1 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 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

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	13.4
Total	54.01

5.6.2 Emissions of Hazardous Air Pollutants

Pursuant to Section 39.5(7)(a) of the Act, the emissions of HAPs from the source shall be less than 10 tons/year for each individual HAP and 25 tons/year for all HAPs combined. 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). This condition is being imposed so that the source is not a major source of HAP emissions

5.6.3 Other Source-Wide Production and Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to the federal rules for PSD, state rules for MSSCAM, or Section 502(b)(10) of the CAA. However, there are unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

5.7 Source-Wide Testing Requirements

5.7.1 Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- a. Testing by Owner or Operator: The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests [35 IAC 201.282(a)].
- b. Testing by the Illinois EPA: The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or

operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary [35 IAC 201.282(b)].

- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source. However, there are provisions for unit specific monitoring set forth in Section 7 of this permit.

5.9 Source-Wide Recordkeeping Requirements

5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.6.1, pursuant to Section 39.5(7)(b) of the Act.

5.9.2 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.

5.10 Source-Wide Reporting Requirements

5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements within 30 days, 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. There are also reporting requirements for unit specific emission units set forth in Section 7 of this permit.

5.10.2 Annual Emissions Report

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

5.11 Source-Wide Operational Flexibility/Anticipated Operating Scenarios

Source-wide operational flexibility is not set for this source.

5.12 Source-Wide Compliance Procedures

5.12.1 General Procedures for Calculating Emissions

Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be based on the recordkeeping and reporting requirements of Conditions 5.9 and 5.10, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

Not applicable to this source

7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

7.1 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.

Waste vehicles enter the Stericycle facility and proceed to the unloading dock. The unloading inside the building waste is scanned with a scintillation detector to ensure that radioactive hospital waste is not processed and then loaded onto a conveyor system. Waste is able to be fed to either of the two HMIWI's and is transported via conveyor to the mechanical loader, which charges the HMIWI.

Each incinerator is a two-stage combustion system, which ensures complete destruction of waste. Material is fed into the primary stage via a dual door ram feed system. The primary chamber is maintained at temperatures greater than 1400°F. The secondary chamber is designed for more than 2 seconds residence time in an excess air atmosphere, which promotes the complete oxidation and combustion of the primary chamber exhaust. Both the primary and secondary chamber temperatures are monitored and recorded. Natural gas burners are utilized to preheat the combustion chambers and maintain temperature in the respective chambers.

For each HMIWI, the exhaust gases exit the secondary chamber and enter a quench tower where they are cooled via a combination of freshwater and re-circulated spray. The quenched gases will then pass through the condensing absorber, venturi scrubber, and final demister for removal of pollutants. The condensing absorber scrubber liquor pH is controlled via sodium hydroxide addition to neutralize absorbed acid gases. Exhaust gases are then vented to the atmosphere via a single stack per each HMIWI/air pollution control system.

Note: This narrative description is for informational purposes only and is not enforceable.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
HMIWI	Continuous HMIWI #1 and #2 with a maximum waste charging rate of 1,500 lb/hr for each unit	1988 & 1990	Quench Tower, Venturi Scrubbers and Condensing Absorbers

7.1.3 Applicable Provisions and Regulations

a. The "affected large hospital medical infectious waste incinerator (HMIWI)" for the purpose of these unit-specific conditions, is an emission unit described in Conditions 7.1.1 and 7.1.2 above.

b. The affected large HMIWI is subject to the following emission limits established in 35 IAC Part 229 "Hospital/Medical/Infectious Waste Incinerators":

i. The emissions shall not exceed the following limits pursuant to 35 IAC 229.125(b), except during periods of startup, shutdown, or malfunction if no waste is charged to an affected HMIWI pursuant to 35 IAC 229.130(a):

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%

ii. No owner or operator of a small, medium, or large HMIWI shall cause or allow any emissions that cause greater than 10 percent opacity, as measured on a 6 minute block average, according to Method 9, 40 CFR 60, Appendix A, incorporated by reference at Section 229.104(d) of this Part, from any stack used by an HMIWI [35 IAC 229.125(b)].

c. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in

Sections 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply only to photochemically reactive material. Alternatively, pursuant to 35 IAC 215.302, a control device shall achieve overall VOM control reduction by at least 85 percent.

d. Startup Provisions

Subject to the following terms and conditions, the Permittee is authorized to operate an affected HMIWI in violation of the applicable standards in Condition 7.1.3(b) during startup. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally describing the efforts that will be used "...to minimize startup emissions, duration of individual starts, and frequency of startups." Also, this authorization is based on the applicable requirements of 35 IAC 229.130.

- i. This authorization does not relieve the Permittee from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual startups and frequency of startups.
- ii. The Permittee shall conduct startup of each affected HMIWI in accordance with written procedures prepared by the Permittee and maintained at the facility's control room for the affected HMIWI, that are specifically developed to minimize emissions from startups and that include, at a minimum, the following measures:
 - A. The Permittee shall conduct startup of an affected HMIWI in accordance with the manufacturer's written instructions or other written instructions prepared by the Permittee and maintained on site.
 - B. 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:
 1. 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.

2. 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.

C. 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 applicable recordkeeping and reporting requirements of Condition 7.1.9 and 7.1.10.

iv. As provided by 35 IAC 201.265, an authorization in a permit for excess emissions during startup does not shield a Permittee from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

e. Malfunction and Breakdown Provisions

Subject to the following terms and conditions, the Permittee is authorized to continue operation of the affected HMIWI in violation of the applicable standards in Condition 7.1.3(b) in the event of a malfunction or breakdown of the affected HMIWI and associated air pollution control equipment. This authorization is provided pursuant to 35 IAC 229.130, 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide essential service or to prevent risk of injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.

i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued

operation solely for the economic benefit of the Permittee.

- ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practical stop charging the waste into the affected HMIWI, repair the affected HMIWI, remove the affected HMIWI from service or undertake other action so that excess emissions cease.
- iii. In the event of a malfunction or breakdown, the Permittee is authorized to continue operation of affected HMIWI within 2 hours after the last charge to the HMIWI was introduced, 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 should eliminate the ability to feed waste during malfunction events.
- iv. Pursuant to 35 IAC 229.130(d), during periods of malfunction, the owner or operator of an HMIWI shall do all of the following:
 - A. Take all reasonable steps to ensure that an HMIWI operates within the parameters established for that HMIWI and to minimize excess emissions;
 - B. Continue monitoring all applicable parameters; and
 - C. Take appropriate corrective actions prior to resuming the charging of any waste to an HMIWI.
- v. The Permittee shall fulfill the applicable recordkeeping and reporting requirements of Conditions 7.1.9 and 7.1.10. For these purposes, time shall be measured from the start of a particular incident. The absence of excess emissions for a short period shall not be considered to end the incident if excess emissions resume. In such circumstances, the incident shall be considered to continue until corrective actions are taken so that excess emissions cease or the Permittee takes the affected HMIWI out of service.
- vi. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.
- vii. This authorization does not relieve the Permittee from the continuing obligation to minimize excess

emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

f. Shutdown Provisions

Pursuant to 35 IAC 229.130(c), the shutdown of the affected HMIWI shall proceed according to the following requirements:

For continuous HMIWIs, shutdown may commence no less than 2 hours after the last charge to an HMIWI.

- g. No person shall cause or allow the emission of particulate matter into the atmosphere from all other incinerators for which construction or modification commenced on or after April 14, 1972, to exceed 229 mg/scm (0.1 gr/scf) of effluent gases corrected to 12 percent carbon dioxide [35 IAC 212.181(d)].
- h. 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].

7.1.4 Non-Applicability of Regulations of Concern

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:

- a. 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
- b. 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 Control Requirements and Work Practices

- a. Waste Management Plan Requirements [35 IAC Part 229 Subpart K]

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

- i. 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
 - ii. 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 7.1.5(a)(i) and identifies the information that will be distributed [35 IAC 229.180].
 - iii. Paper or electronic copies of the materials disseminated under this Section shall be made available to the Agency upon written request.
- b. Operator Training and Qualification Requirements [35 IAC Part 229 Subpart J]
- i. 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.
 - ii. 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.
 - iii. An operator training program shall satisfy all of the following criteria:
 - A. Consist of at least 24 hours of training covering the following subjects:
 - 1. Work safety procedures;
 - 2. Pre-startup procedures;
 - 3. Environmental concerns, including pathogen destruction and types of emissions;
 - 4. Basic combustion principles, including combustion byproducts;
 - 5. 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;

6. Combustion controls and monitoring;
 7. Operation of air pollution control equipment and factors affecting performance;
 8. Methods for monitoring pollutants, both by CEMS and by monitoring of HMIWI and air pollution control device operating parameters, and monitoring instrument calibration procedures;
 9. Inspection and maintenance of an HMIWI, air pollution control equipment, and CEMS;
 10. Corrective measures to remedy malfunctions and conditions that may lead to malfunction;
 11. Characteristics of and proper handling procedures for bottom and fly ash;
 12. Recordkeeping procedures; and
 13. Applicable Federal, State, and local regulations.
- B. Administer an examination designed by the course instructor; and
- C. Provide reference materials covering all of the course topics specified above.
- iv. Operator qualification is valid from the date on which the examination specified in Condition 7.1.5(b)(iii)(B) is passed, or the completion of the experience requirements set forth in Condition 7.1.5(b)(ii), whichever is later.
- v. In order for an operator that has been qualified in accordance with Condition 7.1.5(b) to maintain the necessary qualification status, the operator shall:
- A. Complete and pass an annual review course of at least 4 hours in length that, at a minimum, covers the following subjects:
 1. An update of applicable regulations;

2. Proper incinerator operation, including startup and shutdown procedures;
 3. Proper incinerator inspection and maintenance;
 4. Responses to malfunctions and conditions that may lead to malfunction; and
 5. A discussion of operating problems encountered by attendees.
- B. If an operator fails to either take or to complete and pass the annual review course, the operator's qualification will lapse.
 - C. 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 7.1.5(b)(v)(A).
 - D. 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 7.1.5(b)(iii), in order to reinstate the qualification [35 IAC 229. 170].
- c. The following wastes are allowed for incineration:
- 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. For permission to burn any other wastes identified above, the Permittee should apply to the Illinois EPA (Bureau of Air/Permit Section) through an appropriate construction permit application.
- d. 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. The Permittee exceeds any of the minimum or maximum operating parameter limits that are identified and established in Condition 7.1.8(c).
- e. The requirements in Conditions 7.1.5 (c) and (d) have been established in accordance with 39.5(7) of the Act.

7.1.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6.1, the affected large HMIWI are subject to the following:

- a. 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 ton/yr.
- b. Emissions of HCL (total) from the affected HMIWI shall not exceed the following limits:

HCL Emissions	
<u>(lb/Hour)</u>	<u>(Ton/Year)</u>
1.5	6.57

The above limitations were established in Permit 99110103, pursuant to PSD. These limits ensure that the construction and/or modification addressed in the aforementioned permit does not constitute a new major source or major modification pursuant to Title I of the CAA, specifically the federal rules for PSD. In addition, the above limitations contain revisions to previously issued Permits 87070016 and 89070019, as reflected in this Title V permit issued on 12/19/2000 [T1].

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) [T1].

7.1.7 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. When conducting a performance test for an HMIWI, the Permittee 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.
- b. 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.
- c. 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.
- d. 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.
- e. Any use of a bypass stack during a performance test shall invalidate the results of that run.
- f. 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.
- g. Following the date on which the initial performance test is completed (Note: the initial performance test was completed

in 2001), 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.
- h. Pursuant to 35 IAC 229.146, the Permittee shall conduct an annual opacity test, in accordance with 35 IAC 229.140, by September 15 of each year.
 - 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 wet scrubber establish the appropriate maximum and minimum operating parameter values indicated in Appendix B of 35 IAC Part 229 and Condition 7.1.8(c) 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.

7.1.8 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 7.1.8(c) 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 7.1.8(c) 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 7.1.3(b), 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. 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). These operating parameters should be revised if the new parameters being established through scheduled or unscheduled tests of the affected HMIWI. An "x" in any box in this matrix means that measurement of that parameter is required. The following parameter values have been established during initial compliance testing demonstration and incorporated into this permit pursuant to 39.5(7) of the Act:

MINIMUM FREQUENCY			CONTROL SYSTEM	PARAMETER VALUES	
Operating Parameters	Data Measurement	Data Recording	Wet Scrubber	Unit #1	Unit #2
Maximum Charge Rate, lbs	Continuous	Once per hour	X	1,386	1,421
Maximum flue gas temperature	Continuous	Once per minute	X	127.9°F	128.9°F
Minimum secondary chamber temperature	Continuous	Once per minute	X	1,806.7°F	1,811.2°F
Minimum Pressure Drop Across the Wet Scrubber	Continuous	Once per minute	X	36.41	38.6
Minimum Scrubber Liquor Flow Rate	Continuous	Once per minute	X	44.09	49.0
Minimum Scrubber Liquor pH	Continuous	Once per minute	X	5.04	4.7

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected large HMIWI to demonstrate compliance with conditions 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. The amount and type of dioxin/furan sorbent used during each hour of operation;
 - D. The amount and type of Hg sorbent used during each hour of operation;
 - E. The amount and type of HCl sorbent used during each hour of operation;
 - F. The secondary chamber temperatures recorded during each minute of operation;
 - G. The liquor flow rate to the wet scrubber inlet during each minute of operation;
 - H. The horsepower or amperage to the wet scrubber during each minute of operation;
 - I. Any pressure drop across the wet scrubber system during each minute of operation;
 - J. The temperature at the outlet from the wet scrubber during each minute of operation;
 - K. The pH at the inlet to the wet scrubber during each minute of operation; and
 - L. 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 7.1.8(c) 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;
 - v. Identification of calendar days for which data on emission rates or operating parameters specified under Condition 7.1.8(c) 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 7.1.8(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 large 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, if applicable.
 - ii. A maintenance and repair log for each HMIWI, listing each activity performed with date.
- d. Records for Malfunctions and Breakdowns

The Permittee shall maintain records, pursuant to Section 39.5(7)(b) of the Act, of continued operation of each

affected large HMIWI subject to Condition 7.1.3(e) during malfunctions and breakdown, which as a minimum, shall include:

- i. Date and duration of malfunction or breakdown.
 - ii. A detailed explanation of the malfunction or breakdown.
 - iii. An explanation why the affected large HMIWI continued to operate in accordance with Condition 7.1.3(e).
 - iv. The measures used to reduce the quantity of emissions and the duration of the event.
 - v. The steps taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
 - vi. The amount of release above typical emissions during malfunction/breakdown.
- e. Total monthly/annual emissions being released and determined based on the Compliance Procedures of Condition 7.1.12.

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected HMIWI with the permit requirements, 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. Reporting under 35 IAC Part 229 (35 IAC 229.184);
 - i. The facility manager and the responsible official for the affected source shall certify each report required under 35 IAC Part 229.
 - ii. 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.
 - iii. The owner or operator of affected HMIWIs shall submit the following information specified further in this condition to the Illinois EPA with the semiannual reports within 60 days after the reporting period (September 15 and March 15 of each year). The reports shall include the following information in addition to the information required in Condition 8.6.1:

- A. The values for site-specific operating parameters established pursuant to 35 IAC 229.142;
 - B. 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;
 - C. 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;
 - D. 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 or malfunctions occurred during the reporting period; and
 - E. Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.
- b. 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 Air Regional Field Office (for mailing address, see Condition 8.6.4(b)).
 - 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. All incidents related to an opening of the bypass stack, as described above, shall be addressed in the semi-annual reports described in Condition 7.1.10(a) and 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. The requirements of Condition 7.1.10(b)(i) through (b)(iv) above have been established pursuant to 39.5(7)(b) of the Act.
- c. The Permittee shall notify the Illinois EPA Compliance Section of noncompliance of the affected large HMIWI with the permit requirements within 30 days of the violation 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.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected large HMIWI.

7.1.12 Compliance Procedures

- a. Compliance with emission limits of Condition 7.1.6 and numerical limitations established by 35 IAC Part 229 shall be based on the appropriate testing, monitoring, recordkeeping and reporting requirements as established in Conditions, 7.1.7, 7.1.8, 7.1.9 and 7.1.10 respectively.
- b. The following emission factors derived from the stack testing conducted shall be used for purposes of monthly/annual emission calculations:

Pollutant	Emission Factor, lb/ton of waste charged	Stack Test(s) Date
HCL*		September of each year
Cadmium	0.000099	6/02
Lead	0.00205	6/02
Mercury	0.00496	6/02
PM*		September of each year
CO (from waste)*		September of each year

* Emission factors should be derived from the most recent annual compliance tests as described in Condition 7.1.7(g).

- c. Emissions from the natural gas combustion shall be calculated based on the following standard emission factors or the most recent version of AP-42:

Pollutant	Emission Factor (lb/10 ⁶ ft ³)
PM	7.6
NO _x	100.0
CO	84

These are the emission factors for uncontrolled natural gas combustion in small boilers (< 100 mmBtu/hr), Tables 1.4-1 and 1.4-2, AP-42, Volume I, Fifth Edition, March 1998.

Emissions (ton) = [(Natural Gas Consumed, mmscf) x (The
Appropriate Emission Factor, lb/mmscf)]/(2,000
lb/ton)

- d. The conditions described above are established in accordance with provisions 39.5(7) of the Act.

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 (TO BE DETERMINED), 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

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

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 that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;

- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. 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. This notice shall:
 - i. Describe the physical or operational change;
 - ii. Identify the schedule for implementing the physical or operational change;
 - iii. 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;
 - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
 - v. 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 if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. 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 Conditions 8.6.3 and 8.6.4.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA every six months as follows, pursuant to Condition 7.1.10(a)(iii):

<u>Monitoring Period</u>	<u>Report Due Date</u>
September 16 - March 15	Within 60 days after the reporting period
March 16 - September 15	Within 60 days after the reporting period

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 determinations of emissions and operation that are intended to be made, including sampling and monitoring locations;
- e. The test method(s) that 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. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:

- i. Illinois EPA - Air Compliance Unit

- Illinois Environmental Protection Agency
Bureau of Air
Compliance & Enforcement Section (MC 40)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

- ii. Illinois EPA - Air Quality Planning Section

- Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section (MC 39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

iii. Illinois EPA - Air Regional Field Office

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

iv. USEPA Region 5 - Air Branch

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

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
1021 North Grand Avenue East
P.O. Box 19506
Springfield, Illinois 62794-9506

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, Title I conditions in this permit, which are identified by a T1, T1N, or T1R designation, remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) were newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

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.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- 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, pursuant to Section 39.5(7)(j) and (p) of the Act, 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, or 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 this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [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 there under.

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 as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- 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 applicable requirements; 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. At 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 including any logs, plans, procedures, or instructions required to be kept 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, Air Quality Planning 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 Unit, 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 and applicable regulations [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as Attachment 1 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 [Section 39.5(7)(k) of the Act]:

- 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.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7)(k)(iv) of the Act.

- 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 [Section 39.5(7)(k)(iv) of the Act].

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, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, 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 that inaccurate statements were made in establishing the emission standards or limitations, or other terms or conditions of this permit.

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

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 and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5)(e) and (i) 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. In the event of a challenge to any portion of the permit, other portions of the permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and 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

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5)(l) and (o) of the Act].

Note: Pursuant to Sections 39.5(5)(h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal

application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

10.0 ATTACHMENTS

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: _____

Attachment 2 - Compliance Assurance Monitoring (CAM) Plan

Not applicable to this source

Attachment 3 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, www.epa.state.il.us. This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

Guidance On Revising A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-revising.pdf

Guidance On Renewing A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-renewing.pdf

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

www.epa.state.il.us/air/caapp/index.html

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

www.epa.state.il.us/air/caapp/199-caapp.pdf

www.epa.state.il.us/air/permits/197-fee.pdf

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