NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Hospital/Medical/Infectious Waste Incinerators
- 2) Code Citation: 35 III. Adm. Code 229

3)	Section Numbers:	Proposed Action:	
100	229.100	Amend	
	229.102	Amend	D
	229.104	Amend	CECEIVED
	229.110	Amend	CLERK'S OFFICE
	229.112	Amend	JUL 0 1 2011
	229.115	Amend	STATE
	229.116	Amend	STATE OF ILLINOIS
	229.120	Amend	Pollution Control Board
	229.125	Amend	
	229.126	Amend	
	229.130	Repeal	
	229.142	Amend	
	229.146	Amend	
	229.148	Amend	
	229.150	Amend	
	229.152	Amend	100
	229.154	Amend	
	229.156	Amend	
	229.158	Amend	
	229.160	Amend	
	229.162	Amend	
	229.166	Amend	
	229.168	Amend	
	229.180	Amend	
	229,182	Amend	
	229.184	Amend	
	229.APPENDIX B	Amend	
	229.APPENDIX C	Amend	

- 4) <u>Statutory Authority</u>: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5]
- 5) A complete description of the subjects and issues involved: A lengthier description of this rulemaking to date is contained in the Board's first notice opinion and order in Amendments to 35 III. Adm. Code Part 229: Hospital/Medical/Infectious Waste

NOTICE OF PROPOSED AMENDMENTS

Incinerators (HMIWI), R11-20 (June 16, 2011). The proposed amendments are based on a proposal filed December 23, 2011 by the Illinois Environmental Protection Agency (IEPA). They reflect amendments adopted by the United States Environmental Protection Agency (USEPA) to tighten up federal air quality standards, including new source performance standards and emissions guidelines.

The proposed amendments are more stringent than existing rules, and have a January 1, 2014 compliance date. The IEPA reports Illinois currently has only one HMIWI facility to which the new rules would apply: the Stericycle, Inc. facility located in Clinton, DeWitt County. The Board has held a hearing on the proposed amendments on June 8, 2011. Stericycle testified that it believed it could come into compliance by the various interim dates set in the rules.

If Illinois does not adopt rules, USEPA will act instead. USEPA adopted its "Standards of Performance for New Stationary Sources and Emissions Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators" at 74 Fed. Reg. 51368 (Oct. 6, 2009). Section 129(b)(3) of the federal Clean Air Act (CAA), 42 USC7429(c), requires USEPA to develop a Federal Implementation Plan (FIP) within two years of federal promulgation of rules i.e., by October 6, 2011, unless the states adopt an approvable State Implementation Plan (SIP) revision containing the new incinerator rules.

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking:
 - a) Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators; Final Rule. 62 Federal Register 48348, September 15, 1997.
 - b) Sierra Club v. EPA, 167 F.3d 658 (DC Cir. 1999)
 - c) Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators; Final Rule. 74 Federal Register 51368, October 6, 2009.
 - d) Sierra Club v. EPA, 551 F.3d 1019 (DC Circ. 2008) (SSM Exemption). (Docket ID No.: EPA-HQ-OAR-2006-0534).
 - e) Thomas Holloway, January 12, 2007.MACT Performance Data for HMTWI Facilities (Docket ID No.: EPA-HQ-OAR-2006-0534)

NOTICE OF PROPOSED AMENDMENTS

- f) Thomas Holloway, July 6, 2009. Revised Compliance Costs and Economic Inputs for Existing HMIWI (Docket ID No.: EPA-HQ-OAR-2006-0534)
- g) Medical Waste Incinerators Background Information for Proposed Standards and Guidelines: Control Technology Performance Report for New and Existing Facilities U.S. Environmental Protection Agency. July 1994. (Docket ID No. EPA-453/R-94-044a).
- h) Medical Waste Incinerators Background Information for Proposed Standards and Guidelines: Model Plant Description and Cost Report for New and Existing Facilities U.S. Environmental Protection Agency. July 1994. (Docket ID No. EPA-453/R-94-045a).
- i) Stericycle, Inc. Waste Management Plan. Submitted to Illinois EPA as an attachment to annual performance test results.
- j) Response to Information Collection Request. Stericycle, Inc. December 20, 2007. (Docket ID No. EPA-HQ-OAR-2006-0534)
- k) Guidelines for Protecting the Safety and Health of Health Care. The National Institute for Occupational Safety and Health (NIOSH). Publication No. 88-119. September 1988.
- Stericycle, Inc. Environmental Responsibility. http://www.stericycle.com/medical-waste-disposal/health-safety.html Assessed on March 10, 2010.
- m) Economic Impacts of Revised MACT Standards for Hospital/Medical/Infectious Waste Incinerators. Katherine Heller, et al. July 2009. (Docket ID No. EPA-HQ-OAR-2006-0534)
- n) Illinois Environmental Protection Act (415 ILCS 5.).
- o) Clean Air Act (42 USC 7401 et seq.).
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No

NOTICE OF PROPOSED AMENDMENTS

- 9) <u>Does this rulemaking contain incorporations by reference</u>? Yes. See 35 Ill. Adm. Code 229.104, Incorporations by Reference
- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) Statement of statewide policy objectives: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, place, and manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of forty-five 45 days after the date of publication in the Illinois Register. Comments should reference Docket R11-20 and be addressed to:

Clerk's Office Illinois Pollution Control Board James R. Thompson Center, Suite 11-500 100 W. Randolph St. Chicago, IL 60601

The Board will accept oral public comment at the second hearing in this docket, set for: June 28, 2011, at 11:00 at James R. Thompson Center, Room 11-512, 100 W. Randolph St., Chicago IL. Persons interested in testifying should contact the hearing officer, Kathleen Crowley, at 312-814-6929.

Interested persons may obtain copies of the Board's opinion and order by downloading it from the Board's Web site at www.ipcb.state.il.us or by calling the Clerk's office at 312-814-3620.

- 13) <u>Initial regulatory flexibility analysis</u>: IEPA reports that there is only one source affected in Illinois: Stericycle, Inc. in Clinton, DeWitt County. Stericycle does not identify itself as a small business.
- 14) Regulatory agenda on which this rulemaking was summarized: January 2011

The full text of the Proposed Amendments begins on the next page:

1SI NOTICE VERSION

1		TITLE 35: ENVIRONMENTAL PROTECTION
2		SUBTITLE B: GENERAL PROVISIONS
3		CHAPTER I: POLLUTION CONTROL BOARD
4		SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
5		FOR STATIONARY SOURCES
6		
7		PART 229
8		HOSPITAL/MEDICAL/INFECTIOUS WASTE INCINERATORS
9		
10		SUBPART A: GENERAL PROVISIONS
11		
12	Section	
13	229.100	Abbreviations
14	229.102	Definitions
15	229.104	Incorporations by Reference
16		
17		SUBPART B: APPLICABILITY
18		
19	Section	
20	229.110	General Applicability
21	229.112	Exemptions
22		
23		SUBPART C: COMPLIANCE SCHEDULES
24	a .:	
25	Section	Constitute Challes Controlled Will Controlled
26	229.115	Compliance Schedules for HMIWIs That Will Continue to Operate
27	229.116	Compliance Schedules for HMIWIs That Will Shut Down
28 29		SUDDADT D. CAADD DEDAKT DEGUIDEMENTS
30		SUBPART D: CAAPP PERMIT REQUIREMENTS
31	Section	
32	229.120	CAAPP Permit Requirements
33	229.120	CAAT Termit Requirements
34		SUBPART E: EMISSIONSEMISSION LIMITS
35		SOBITACI E. <u>EMISSIONS</u> EMISSION EMITS
36	Section	
37	229.125	Emissions Emission Limits for Small, Medium, and Large HMIWIs
38	229.126	Emissions Emission Limits for Rural HMIWIs
39		
40		SUBPART F: EXCEPTIONS FROM EMISSION LIMITS
41		
42	Section	
43	229.130	Operation During Periods of Startup, Shutdown, or Malfunction (Repealed)

44	CY TD	NADE C. METHODS AND DEOCEDIDES FOR DEDEODMANCE TESTING
45	SOB	PART G: METHODS AND PROCEDURES FOR PERFORMANCE TESTING
46	5	
47	Section	No. 4. Annual Durandana for Doubernance Testing
48	229.140	Methods and Procedures for Performance Testing
49		CATED A DELLA COLUMN A A MOR DE OLUMN EL COLUMN EL COLUM
50		SUBPART H: COMPLIANCE REQUIREMENTS
51		
52	Section	
53	229.142	Initial Performance Testing and Establishment of Operating Parameters for All
54	220 144	HMIWIS Subsequent Performance Testing for All HMIWIS
55	229.144	Subsequent Performance Testing for All HMIWIs
56	229.146	Annual Testing for Opacity
57	229.148	Annual Performance Testing for AllSmall, Medium and Large HMIWIs
58	229.150	Compliance with Operating Parameter Values
59	229.152	Compliance Requirements for HMIWIS Using CEMS
60	229.154	Violations by HMIWIs Equipped with a Dry Scrubber Followed by a Fabric Filter
61	229.156	Violations by HMIWIs Equipped with a Wet Scrubber
62	229.158	Violations by HMIWIs Equipped with a Dry Scrubber Followed by a Fabric Filter
63		and a Wet Scrubber
64	229.160	Compliance Requirements for Rural HMIWIs
65	229.162	Inspection Requirements for AllRural HMIWIs
66	229.164	Optional Performance Testing to Address Actual or Potential Violations
67		
68		SUBPART I: MONITORING REQUIREMENTS
69		
70	Section	
71	229.166	Monitoring Requirements for AllSmall, Medium, and Large HMIWIs
72	229.168	Monitoring Requirements for Rural HMIWIs
73		
74		SUBPART J: REQUIREMENTS FOR HMIWI OPERATORS
75		
76	Section	
77	229.170	Operator Training and Qualification Requirements
78	229.172	Documentation To Be Maintained On-Site for Employees Operating HMIWIs
79		
80		SUBPART K: WASTE MANAGEMENT PLAN REQUIREMENTS
81		
82	Section	
83	229.176	Waste Management Plan Requirements for Hospitals Using On-Site Incinerators
84	229.178	Waste Management Plan Requirements for Hospitals Transporting Waste Off-Site
85		to an HMIWI
86	229.180	Waste Management Requirements for Commercial HMIWIs Accepting Waste

87	Gen	erated Off-Site
88	229.181 Was	te Management Plan Requirements for Other HMIWIs
89		•
90	SUBPAR	RT L: RECORDKEEPING AND REPORTING REQUIREMENTS
91		
92	Section	
93		ordkeeping Requirements
94	229.184 Rep	orting Requirements
95		
96	229.APPENDIX A	
97	229.APPENDIX B	Operating Parameters to Be Monitored and Minimum Measurement and
98	220 ADDENING	Recording Frequencies
99 100	229.APPENDIX C	Reference Test Methods and Procedures for Performance Tests
101	ATITUODITY: Im	plementing Sections 10, 39 and 39.5 and authorized by Section 27 of the
101		ection Act [415 ILCS 5/10, 27, 39 and 39.5].
102	Environmental 110	ection Act [+13 1DCS 3/10, 27, 39 and 39.5].
103	SOURCE: Adonte	d at 23 Ill. Reg. 6477, effective May 15, 1999; amended in R11-20 at 35 Ill.
105	Reg, effect	
106	, 01100	· · · · · · · · · · · · · · · · · · ·
107		SUBPART A: GENERAL PROVISIONS
108		
109	Section 229.100 A	bbreviations
110		
111	The following abbre	eviations have been used in this Partpart:
112		
	Act	Illinois Environmental Protection Act [415 ILCS 5]
	Agency	Illinois Environmental Protection Agency
	Board	Illinois Pollution Control Board
	Btu	British thermal units
	CAAPP	Clean Air Act Permit Program [415 ILCS 5/39.5]
	CEMS	Continuous Emissions Monitoring System
	CO	carbon monoxide
	Cd	cadmium
	dsef	dry standard cubic foot
	dsem £ ³	dry standard cubic meter cubic feet
		grains per thousand dry standard cubic feet
	gr/10 usci	grains per billion dry standard cubic feet
	gr/dscf	grains per dry standard cubic foot
	HCl	hydrogen chloride
	Hg	mercury
	HMIWI	hospital/medical/infectious waste incinerator
	******	TOP THE MEDIUM INVOICED TOUCH MOUNTAINED

	hr	hour
	lb(s)	pound(s)
	mg/dscm	milligrams per dry standard cubic meter
	mg	milligrams
	ng/dscm	nanograms per dry standard cubic meter
	\overline{NO}_x	Nitrogen Oxide
	Pb	lead
	PM	particulate matter
	ppmv	parts per million by volume
	SO^2	Sulfur Dioxide
	TEQ	toxic <u>equivalent</u> equivaleney
	USEPA	United States Environmental Protection Agency
113		
114	(Source: A	Amended at 35 Ill. Reg, effective)
115		
116	Section 229.102	Definitions
117		
118		ontained in this Section apply only to the provisions of this Part. Unless
119		herein and unless a different meaning of a term is clear from its context, the
120		ns used in this Part shall have the meanings specified for those terms in 415
121	ILCS 5/39.5, 35 I	II. Adm. Code 201.102 or 35 III. Adm. Code 211.
122		
123		ag leak detection system" means an instrument that is capable of monitoring
124		I loadings in the exhaust of a fabric filter in order to detect bag failures. A bag
125		k detection system includes, but is not limited to, an instrument that operates triboelectric, lightscattering, light-transmittance, or other effects to monitor
126		ative PM loadings.
127	<u>rei</u>	auve Fivi loadings.
128 129	מיי	atch HMIWI" means an HMIWI that is designed in such a way that neither
130		aten from with means an from with that is designed in such a way that herefore stee charging nor ash removal can occur during combustion.
131	wa	sic charging not asit temoval can occur during comoustion.
132	"P	iologicals" means preparations made from living organisms and their products,
132		cluding vaccines, cultures, etc., intended for use in diagnosing, immunizing, or
134		ating humans or animals or in research pertaining thereto.
135	u C	ating numerical of animals of in research peranting alerese.
136	"R	ody fluids" means liquid emanating or derived from humans and limited to:
137		ood; dialysate; amniotic, cerebrospinal, synovial, pleural, peritoneal and
138		ricardial fluids; semen and vaginal secretions.
139	pe	Transfer Transfer Courses and Ambient Courses Courses
140	"R	ypass stack" means an alternative stack used for discharging combustion gases
141		the atmosphere primarily to avoid severe damage to an air pollution control
142		vice or other equipment.
174	uc.	too or outer eduration

143

144	"Charge" means the act of placing waste into an HMIWI for incineration.
145	
146	"Chemotherapeutic waste" means waste material resulting from the production or
147	use of antineoplastic agents used for the purpose of stopping or reversing the
148	growth of malignant cells.
149	
150	"Co-fired combustor" means a unit combusting hospital waste or
151	medical/infectious waste with other fuels or wastes (e.g., coal, municipal solid
152	waste) and subject to an enforceable requirement limiting the unit to combusting a
153	fuel feed stream, of which 10 percent or less of the weight is comprised, in
154	aggregate, of hospital waste and medical/infectious waste as measured on a
155	calendar quarter basis. For purposes of this definition, pathological waste,
156	chemotherapeutic waste, and low-level radioactive waste are considered "other"
157	wastes when calculating the percentage of hospital waste and medical/infectious
158	waste combusted.
159	
160	"Commercial HMIWI" means an HMIWI that offers incineration services for
161	hospital/medical/infectious waste generated offsite by firms unrelated to the firm
162	that owns the HMIWI.
163	
164	"Continuous emission monitoring system" or "CEMS" means a monitoring
165	system for continuously measuring and recording the emissions of a pollutant
166	from an affected facility.
167	
168	"Continuous HMIWI" means an HMIWI that is designed to allow waste charging
169	and ash removal during combustion.
170	
171	"Dioxins/furans" means the total emissions of any tetra- through octa-chlorinated
172	dibenzo-para-dioxins and dibenzofurans, as measured by EPA Reference Method
173	23, incorporated by reference in Section 229.104(d) of this Subpart.
174	23, 11101 Potation of Total and Total
175	"Dry scrubber" means an add-on air pollution control system that injects dry
176	alkaline sorbent (dry injection) or sprays an alkaline sorbent (spray dryer) to react
177	with and neutralize acid gases in an HMIWI exhaust stream, forming a dry
178	powder material.
179	powasi massian
180	"Fabric filter" means an add-on air pollution control system that removes PM and
181	nonvaporous metals emissions by passing flue gas through filter bags.
182	non, apolous momes of passang rate gar among a rate anger
183	"Facilities manager" means the individual in charge of purchasing, maintaining,
184	and operating an HMIWI, or the owner's or operator's representative responsible
185	for the management of an HMIWI. Alternative titles may include director of
186	facilities or vice president of support services.
100	institutes of the bresident of puppers per trees.

187	
188	"High air phase" means the stage of the batch operating cycle when the primary
189	chamber reaches and maintains maximum operating temperatures.
190	
191	"Hospital" means any facility that has an organized medical staff, maintaining at
192	least 6 inpatient beds and where the primary function of the facility is to provide
193	diagnostic and therapeutic patient services and continuous nursing care primarily
194	to human inpatients who are not related and who stay on average in excess of 24
195	hours per admission. This definition does not include facilities maintained for the
196	sole purpose of providing nursing or convalescent care to human patients who
197	generally are not acutely ill but who require continuing medical supervision.
198	
199	"Hospital/medical/infectious waste incinerator" or "HMIWI" means any device
200	that combusts any amount of hospital waste or medical/infectious waste.
201	
202	"Hospital waste" means discards generated at a hospital, except unused items
203	returned to the manufacturer. The definition of hospital waste does not include
204	human corpses, remains, or anatomical parts that are intended for interment or
205	cremation.
206	
207	"HMIWI operator" means any person who operates, controls, or supervises the
208	day-to-day operation of an HMIWI.
209	
210	"Infectious agent" means any organism that is capable of being communicated by
211	invasion and multiplication in body tissues and is also capable of causing disease
212	or adverse health impacts in humans.
213	
214	"Intermittent HMIWI" means an HMIWI that is designed to allow waste charging,
215	but not ash removal, during combustion.
216	
217	"Large HMIWI" means:
218	
219	An HMIWI whose maximum design waste burning capacity is more than
220	500 lbs per hour; or
221	
222	A continuous or intermittent HMIWI whose maximum charge rate is more
223	than 500 lbs per hour; or
224	•
225	A batch HMIWI whose maximum charge rate is more than 4,000 lbs per
226	day.
227	
228	"Low-level radioactive waste" means waste that contains radioactive nuclides
229	emitting primarily beta or gamma radiation, or both, in concentrations or

230	quantities that exceed applicable Federal or State standards for unrestricted
231	release. Low-level radioactive waste is not high-level radioactive waste, spent
232	nuclear fuel, or by-product material as defined by the Atomic Energy Act of 1954
233	(42 USC 2014(e)(2)).
234	
235	"Malfunction" means any sudden, infrequent, and not reasonably preventable
236	failure of air pollution control equipment, process equipment, or of a process to
237	operate in a normal or usual manner. Failures that are caused, in part, by poor
238	maintenance or careless operation are not malfunctions.
239	
240	"Maximum charge rate" means:
241	
242	For continuous and intermittent HMIWI, 110 percent of the lowest 3-hou
243	average charge rate measured during the most recent performance test
244	demonstrating compliance with all applicable emission limits specified in
245	Subpart E of this Part.
246	
247	For batch HMIWI, 110 percent of the lowest daily charge rate measured
248	during the most recent performance test demonstrating compliance with
249	all applicable emission limits specified in Subpart E of this Part.
250	
251	"Maximum design waste burning capacity" means:
252	
253	For intermittent and continuous HMIWI:
254	
255	$C = P_{\nu} X 15,000$
255	$\frac{C = P_{\nu} X15,000}{8,500}$
256	
250	Where:
	C = HMIWI capacity, lb/hr
	$P_v = \text{primary chamber volume, } ft^3$
	15,000 = primary chamber heat release rate factor, Btu/ft ³ /hr
	8,500 = standard waste heating value, Btu/lb;
257	
258	For batch HMIWI:
259	
260	$\frac{P_{\nu}x4.5}{8}$
200	8
261	
	Where:
	C = HMIWI capacity, lb/hr
	$P_v = primary chamber volume, ft^3$

4.5 = waste density factor, lb/ft³ 8 = typical hours of operation of a batch HMIWI, hours.

"Maximum fabric filter inlet temperature" means 110 percent of the lowest 3-hour average temperature at the inlet to the fabric filter (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable dioxin/furan emission limit specified in Subpart E of this Part.

"Maximum flue gas temperature" means 110 percent of the lowest 3-hour average temperature at the outlet from the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable Hg emission limit specified in Subpart E of this Part.

"Medical/infectious waste" means any waste generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals. The definition of medical/infectious waste does not include hazardous waste identified or listed under the regulations in 40 CFR 261; household waste, as defined in 40 CFR 261.4(b)(1); and domestic sewage materials identified in 40 CFR 261.4(a)(1). For the purposes of this Part, medical/infectious waste includes:

Cultures and stocks of infectious agents and associated biologicals, including: vaccines and cultures intended for use in diagnosing, immunizing, or treating humans or animals; cultures from medical and pathological laboratories; cultures and stocks of infectious agents from research and industrial laboratories; wastes from the production of biologicals; and discarded live and attenuated vaccines;

Human pathological waste, including tissues, organs, and body parts and body fluids that are removed during surgery or autopsy, or other medical procedures, and specimens of body fluids and their containers;

Human blood, any products derived from human blood, or anything that has been in contact with human blood in any form;

Intravenous bags and associated tubing;

Sharps that have been used in animal or human patient care or treatment or in medical, research, or industrial laboratories, including hypodermic needles, syringes (with or without the attached needle), pasteur pipettes, scalpel blades, blood vials, and needles with attached tubing;

303	
304	Culture dishes, regardless of the presence of infectious agents, and culture
305	dishes and devices used to transfer, inoculate, and mix cultures;
306 `	
307	Any type of broken or unbroken glassware that has been in contact with
308	infectious agents;
309	· ·
310	Animal waste, including contaminated animal carcasses, body parts,
311	bedding of animals that were known to have been exposed to infectious
312	agents during research (including research in veterinary hospitals),
313	production of biologicals or testing of pharmaceuticals;
314	
315	Isolation wastes, including biological waste and discarded materials
316	contaminated with blood, excretions, exudates, or secretions from humans
317	who are isolated to protect others from highly communicable diseases, or
318	isolated animals known to be infected with highly communicable diseases;
319	and
320	
321	Unused sharps, including the following unused, discarded sharps:
322	hypodermic needles, suture needles, syringes, and scalpel blades.
323	<u> </u>
324	"Medium HMIWI" means:
325	IVAVARAMIA ZARIAA VV Z
326	An HMIWI whose maximum design waste burning capacity is more than
327	200 lbs per hour but less than or equal to 500 lbs per hour; or
328	200 100 per 110 m out 1000 mm of 14 mm
329	A continuous or intermittent HMIWI whose maximum charge rate, as set
330	by permit, is more than 200 lbs per hour but less than or equal to 500 lbs
331	per hour; or
332	per nous, or
333	A batch HMIWI whose maximum charge rate, as set by permit, is more
334	than 1,600 lbs per day but less than or equal to 4,000 lbs per day.
335	1
336	"Minimum dioxin/furan sorbent flow rate" means 90 percent of the highest 3-hour
337	average dioxin/furan sorbent flow rate (taken, at a minimum, once every hour)
338	measured during the most recent performance test demonstrating compliance with
339	the applicable dioxin/furan emission limit specified in Subpart E of this Part.
340	the applicable and an arrangement of the second of the sec
341	"Minimum Hg sorbent flow rate" means 90 percent of the highest 3-hour average
342	Hg sorbent flow rate (taken, at a minimum, once every hour) measured during the
343	most recent performance test demonstrating compliance with the applicable Hg
344	emission limit specified in Subpart E of this Part.
345	Attributors with abantan in a nature in a
JTJ	

"Minimum HCl sorbent flow rate" means 90 percent of the highest 3-hour average 346 HCl sorbent flow rate (taken, at a minimum, once every hour) measured during 347 the most recent performance test demonstrating compliance with the applicable 348 HCl emission limit specified in Subpart E of this Part. 349 350 "Minimum horsepower" or "minimum amperage" means 90 percent of the highest 351 3-hour average horsepower or amperage to the wet scrubber (taken, at a 352 minimum, once every minute) measured during the most recent performance test 353 demonstrating compliance with the applicable emission limits specified in 354 Subpart E of this Part. 355 356 "Minimum pressure drop across the wet scrubber" means 90 percent of the 357 highest 3-hour average pressure drop across the wet scrubber PM control device 358 (taken, at a minimum, once every minute) measured during the most recent 359 performance test demonstrating compliance with the applicable PM emission 360 limit specified in this Subpart E of this Part. 361 362 "Minimum reagent flow rate" means 90 percent of the highest 3-hour average 363 reagent flow rate at the inlet to the selective noncatalytic reduction technology 364 (taken, at a minimum, once every minute) measured during the most recent 365 performance test demonstrating compliance with the applicable NOx emissions 366 limit specified in Subpart E of this Part. 367 368 "Minimum scrubber liquor flow rate" means 90 percent of the highest 3-hour 369 average liquor flow rate at the inlet to the wet scrubber (taken, at a minimum. 370 once every minute) measured during the most recent performance test 371 demonstrating compliance with the applicable emission limits specified in 372 Subpart E of this Part. 373 374 "Minimum scrubber liquor pH" means 90 percent of the highest 3-hour average 375 liquor pH at the inlet to the wet scrubber (taken, at a minimum, once every 376 minute) measured during the most recent performance test demonstrating 377 compliance with the applicable HCl emission limit specified in Subpart E of this 378 379 Part. 380 "Minimum secondary chamber temperature" means 90 percent of the highest 3-381 hour average secondary chamber temperature (taken, at a minimum, once every 382 minute) measured during the most recent performance test demonstrating 383 compliance with the PM, CO, dioxin/furan, and applicable NOx emissions limits 384 specified in Subpart E of this Part. 385 386

387	"Operating day" means a 24-hour period between 12:00 midnight and the
388	following midnight during which any amount of hospital waste or
389	medical/infectious waste is combusted at any time in an HMIWI.
390	
391	"Operation" means any period during which waste is combusted in an HMIWI,
392	excluding periods of startup or shutdown.
393	
394	"Pathological waste" means waste material consisting of only human or animal
395	remains, anatomical parts, tissue, and the bags or containers used to collect and
396	transport the waste material and associated animal bedding, if applicable.
397	
398	"Primary chamber" means the chamber in an HMIWI that receives waste material,
399	in which the waste is ignited, and from which ash is removed.
400	
401	"Rural HMIWI" means any HMIWI identified in Section 229.110(a) of this Part,
402	that is located more than 50 miles from the boundary of the nearest Standard
403	Metropolitan Statistical Area, as defined in OMB Bulletin No. 93-17,
404	incorporated by reference at Section 229.104(b) of this Part, meets the criteria
405	specified in the definition of "small HMIWI" and burns less than 2,000 lbs per
406	week of hospital waste and medical/infectious waste (except the 2,000 lbs per
407	week limitation does not apply during performance testing).
408	•••
409	"Secondary chamber" means that component of an HMIWI that receives
410	combustion gases from the primary chamber and in which the combustion process
411	is completed.
412	•
413	"Shutdown" means the period of time after all waste has been combusted in the
414	primary chamber.
415	
416	"Small HMIWI" means:
417	
418	An HMIWI whose maximum design waste burning capacity is less than or
419	equal to 200 lbs per hour; or
420	
42 1	A continuous or intermittent HMIWI whose maximum charge rate, as set
122	by permit, is less than or equal to 200 lbs per hour; or
123	
124	A batch HMIWI whose maximum charge rate, as set by permit, is less
125	than or equal to 1,600 lbs per day.
1 26	
127	"Startup" means the period of time between the activation of an HMIWI and the
128	first charge of waste to the unit. For batch HMIWI, startup means the period of
1 29	time between activation of an HMIWI and ignition of the waste.
	v

430		
431		"Wet scrubber" means an add-on air pollution control device that utilizes either an
432		alkaline or some other type of scrubbing liquor to collect pollutants and/or
433		neutralize acid gases.
434		
435 436	(Sour	ce: Amended at 35 Ill. Reg, effective)
437 438	Section 229.	104 Incorporations by Reference
439	The following	g materials are incorporated in this Part by reference. These incorporations by
440 441	reference do	not include any later amendments or editions.
442 443 444 445	a)	"An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities," American Society for Healthcare Environmental Services, 840 North Lake Shore Drive, Chicago, Illinois, 60611 (1993).
446 447	b)	"Revised Statistical Definitions for Metropolitan Areas," OMB Bulletin No. 93-17, Office of Management and Budget, Washington, D.C. (June 30, 1993). Office
448 449 450		of Management and Budget, National Technical Information Services, 5285 Port Royal Road, Springfield, VA 22161. (703) 487-4600.
451 452	c)	40 CFR 60.8.
453 454 455	d)	40 CFR 60, appendix Appendix A, Methods 1, 2, 3, 3A, 5, 9, 10, 10B, 23, 26, 26A, 29.
456 457	e)	40 CFR 60, appendices Appendices B and F.
458 459	Ð	40 CFR appendix A, Methods 3B, 6, 6C, 7, 7E, 22 (2010).
460 461	g)	40 CFR 60, subpart Ce and Ec (2010).
462 463	<u>h</u>)	ANSI/ASME PTC19.10-1981, Flue and Gas Analyses [Part 10, Instruments and Apparatus]. American National Standards Institute (ANSI), Attn: Customer
464 465 466		Service Department, 25 West 43 rd Street, 4 th Floor, New York, NY 10036. (212) 642-4980.
167 168 169	<u>i)</u>	ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method), American Society for Testing and IM. (A 677) for
170 171 172		(Ontario Hydro Method). American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, PO Box C70, West Conshohocken, PA 19428-2959. (610) 832-9585.

473	j)	"Fabric Filter Bag Leak Detection Guidance", U.S. Environmental Protection
474		Agency. (EPA-454/R-98-015, September 1997). Superintendent of Documents,
475 476		U.S. Government Printing Office (GPO), P979050, St. Louis, MO 63197-9000.
477	(Sour	ce: Amended at 35 Ill. Reg, effective)
478		
479 480		SUBPART B: APPLICABILITY
481	Section 229.1	110 General Applicability
482 482	۵)	Exponent on amorphised form in subspections (b) (c) (d) and (c) of this Section and
483 484	a)	Except as provided for in subsections (b), (c), (d) and (e) of this Section and
484 485		Section 229.112 of this Subpart, this Part applies to all HMIWIs for which:
486		1) Construction commenced either on or before June 20, 1996, or
487		modification was commenced either on or before March 16, 1998; or
488		
489		2) Construction commenced either after June 20, 1996 but no later than
490		December 1, 2008, or for which modification is commenced after March
491		16, 1998 but no later than April 6, 2010. This Part applies to all HMIWIs
492		for which construction commenced either on or before June 20, 1996,
493		except as provided for in subsections (b), (c), (d) and (e) of this Section
494		and Section 229.112 of this Subpart.
495		
496	b)	An HMIWI otherwise subject to the emission limits in this Part is only subject to
497		the recordkeeping requirements set forth in Section 229.182(b), (f) and (g) of this
498		Part during those periods when it combusts only pathological waste, low-level
499		radioactive waste, or chemotherapeutic waste, provided the owner or operator of
500		the HMIWI notifies the Agency of its intention to operate pursuant to this
501		operating scenario in its CAAPP application submitted in accordance with either
502		Section 229.115(b)(1), Subpart D of this Part, or Section 39.5 of the Act.
503		
504	c)	An HMIWI that combusts only pathological waste, low-level radioactive waste,
505		or chemotherapeutic waste is subject to only the recordkeeping requirements set
506		forth in <u>SectionSections</u> 229.182(c), (f) and (g) of this Part provided that the
507		owner or operator of an HMIWI provides, by December 15, 1999, both the
508		Agency and the USEPA with a written certification of its status as an HMIWI
509		burning only the wastes listed in this subsection.
510 511	47	A so fixed combustor is subject only to the recording in a subject of the
512	d)	A co-fired combustor is subject only to the recordkeeping requirements set forth in Section Section 220 182(d). (f) and (g) of this Port, provided that the augment of
513		in SectionSections 229.182(d), (f) and (g) of this Part, provided that the owner or
514		operator of the combustor is subject to a permit condition limiting its fuel feed
514 515		stream to co-fired combustor status, provides, by December 15, 1999, both the Agency and USEPA with a written certification of its status as a co-fired
) I J		Agency and Ober A with a written certification of its status as a co-fired

516		combustor, including an estimate of the relative weight of hospital waste, medical/infectious waste, and other fuels and/or waste combusted at the facility.
518		·
519	e)	Any hospital that does not operate an HMIWI but that sends any of its hospital
520		waste or medical/infectious waste to an off-site HMIWI is subject only to the
521		waste management plan provisions set forth at Section 229.178 of this Part.
522		
523	<u>f)</u>	Before January 1, 2014, each owner or operator of an HMIWI as defined in
524		subsection (a)(1) of this Section, subject to the emissions limits under Section
525		229.125(a) or Section 229.126(a), shall comply with all the applicable provisions
526		of this Part.
527		
528	g)	On and after January 1, 2014, an HMIWI as defined in subsection (a)(1) of this
529	<u> </u>	Section is no longer subject to the emissions limits under Section 229.125(a) or
530		Section 229.126(a) of this Part, but is subject to the emissions limits under
531		Section 229.125(c) or Section 229.126(c), and shall comply with all the applicable
532		provisions of this Part.
533		
534	<u>h)</u>	On and after January 1, 2014, each owner and operator of an HMIWI as defined
535		in subsection (a)(2) of this Section is no longer subject to the provisions under
536		New Source Performance Standards for Hospital/Medical/Infectious Waste
537		Incinerators (40 CFR 60, subpart Ec), but is subject to the emissions limits under
538		Section 229.125(c) or Section 229.126(c), and shall comply with all the applicable
539		provisions of this Part.
540		proviotoria of trip i trit.
541	(Source	e: Amended at 35 Ill. Reg, effective)
542	(55	, chocave
543	Section 229.1	12 Exemptions
544		
545	Notwithstandi	ing other provisions of this Part, the following emission units are exempt from the
546	requirements	of this Part:
547	•	
548	a)	Any combustor required to have a permit under Section 3005 of the Solid Waste
549		Disposal Act, 42 <u>USCU-S.C</u> 6925;
550		
551	b)	Any municipal waste combustor that meets the applicability provisions for
552	٠,	municipal waste combustors under Subparts Cb, Ea or Eb of 40 CFR 60;
553		mainerpar waste combustors under Subparts Co, Ea of Eo of 40 CFR 60;
554	c)	Any pyrolysis unit (i.e., a unit that uses endothermic gasification to treat hospital
555	<i>-,</i>	waste or medical/infectious waste in order to render such waste harmless);
556		;
557	d)	Any cement kiln firing hospital waste or medical/infectious waste; or
558	₩)	- my coment kini ining nospital waste of medical/infectious waste; or
- -		

559 560 561 562	<u>e)</u>	Any HMIWI for Hospital/60.	that me Medical	ets the ap	plicability provis s Waste Incinerat	ions for Sta ors under s	undards of Persubpart Ec of	rformance 40 CFR
563 564 565 566	e)	Hospital/Med	lical/Inj	lectious W	ndards of Performaste Incinerators O 6, contained in S	for Which	Construction of 40 CFR 60	⊦is).50e.
567 568	(Source	e: Amended a	at 35 Ill.	Reg	, effective)	
569 570		SU	BPAR7	ΓC: COM	IPLIANCE SCH	EDULES		
571 572	Section 229.1	15 Complian	ce Sche	dules for	HMIWIs That V	Will Contin	nue to Opera	ıte
573 574 575 576	<u>a)</u>	Section 229.1 229.125(a) or	10(a)(1 Section) of this P 1 229.126(wner or operator art, subject to the a) of this Part, sh g to the followin	emissions all comply	limits under a with all the a	Section
577 578 579 580 581 582		anothe operat	er date i tors of H	s specified	ubsection (a)(2)(1) I in the provision nall be in compliant, 2000.	s of this Pa	rt, all owners	or
582 583 584 585 586 587		operat compl	or of an iance w	HMIWI r ith this Pa	ubsection (a)(3)(6) nay have up to Sort. To avail them the owner or oper	eptember 1 selves of the	5, 2002, to conis extended	ome into
588 589 590 591 592 593 594 595		<u>A</u> +)	Noven pursua This co the need increment that, at	nber 15, 19 nt to Secti compliance ed for an e ental steps a minimu	PP application to 1999, requesting a on 39.5(5)(d) of schedule shall in tension, a final of to be taken town, meet the increase of this (B)(b)(2) of this	n extended the Act, [4] clude docu control plan ard compliant ements of p	compliance s 15 ILCS 5/39 mentation sum for the HMI ance with this	schedule, .5(5)(d)]. pporting [WI and s Part
97 98 99 600 601		<u>B</u> 2)	Meet the iA)	Finalize a	ng increments of all contracts for the process ary 29, 2000;	e purchase	of either pol	lution

602				
603			<u>ii</u> B)	Commence the implementation of either the process
604				modifications or the necessary construction or installation
605				of air pollution control devices for the HMIWI by
606				November 30, 2000;
607				
608			<u>iii</u> €)	Complete either the process modifications or the
609				installation or construction of the new air pollution control
610				equipment by August 31, 2001;
611				
612			<u>iv</u> Đ)	Perform initial startup of the retrofitted HMIWI by Januar
613				15, 2002; and
614				
615			<u>v</u> €)	Complete the initial performance test in accordance with
616				Section 229.142 of this Part within 180 days after initial
617				startup.
618				-
619		<u>3</u> e)	Any owner or	operator of an HMIWI that fails to demonstrate compliance
620			with this Part	by September 15, 2002, shall cease operation of the HMIW
621			until compliar	nce with the provisions of this Part is achieved.
622				•
623		<u>4d)</u>	Notwithstandi	ng subsection (a)(2)(b) of this Section, all owners or
624			operators of H	MIWIs shall be in full compliance with all of the HMIWI
625			operator provi	sions of Subpart J of this Part by September 15, 2000.
626				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
627	<u>b)</u>	On an	d after January	1, 2014, each owner or operator of an HMIWI, as defined in
628		Section	on 229.110(a)(1)	or (a)(2) of this Part, and subject to the emissions limits
629		<u>under</u>	Section 229.12:	5(c) of this Part as applicable, or Section 229.126(c) of this
530		Part, s	shall comply wit	h the applicable provisions of this Part according to the
531		follov	ving schedules:	
532				
533		1)	Except as prov	rided in subsection (b)(2) of this Section and unless another
534		_	date is specifie	ed in the provisions of this Part, all owners or operators of
535			HMIWIs shall	comply with all of the provisions of this Part by January 1,
636			2014.	programme or and rule by surround 1,
537				
538		<u>2)</u>	Except as prov	rided in subsection (b)(4) of this Section, the owner or
539			operator of an	HMIWI may have until October 6, 2014 to come into
540			compliance wi	th the emissions limits under Section 229.125(c) or
541				this Part. To avail itself of this extended compliance
542				owner or operator of an HMIWI shall:
543				TO THE AMERICA IT A DEMAIL.

544	<u>A)</u>		nit its CAAPP application and construction permit to the
545			cy, on or before January 1, 2012, requesting an extended
546			diance schedule, pursuant to Section 39.5(5)(d) of the Act
547		+	ILCS 5/39.5(5)(d)]. This compliance schedule shall include
548			mentation supporting the need for an extension, a final contro
549		_	for the HMIWI and incremental steps to be taken toward
550			diance with this Part that, at a minimum, meet the increments
551		of pro	ogress specified in subsection (b)(2)(B) of this Section;
552	- .	3.7	
553	<u>B</u>)	Meet	the following increments of progress by the dates indicated:
554			P' 1' 11 4 C 4 C 4
555		<u>i)</u>	Finalize all contracts for the purchase of pollution control
556			equipment, process modification or control systems by
557			August 1, 2012;
558			Company of the second of the s
559		<u>ii)</u>	Commence the implementation of either the process
560			modifications or the necessary construction or installation
561			of air pollution control devices for the HMIWI by March 1.
562			<u>2013;</u>
563		,	Complete Manager and Manager and
564		<u>iii)</u>	Complete either the process modifications or the
565			installation or construction of the new air pollution control
566			equipment by September 1, 2013;
567		:>	A -1: 6:11:1:-1:
568		<u>iv)</u>	Achieve final compliance, which includes incorporating all
569			process changes and/or completing retrofit construction as
570			described in the final control plan, connecting the air
571			pollution control equipment or process changes so that the
572			unit is brought on line, and ensuring that all necessary
573 574			process changes and air pollution control equipment are
			operating properly, no later than June 1, 2014;
575		>	Commisses the initial manfarmance test in accordance with
576		<u>v)</u>	Complete the initial performance test in accordance with
577 578			Section 229.142 of this Part no later than October 6, 2014;
578 579		· · · · ·	Submit the results of the initial performance test and
		<u>vi)</u>	revised waste management plan to the Agency no later than
580			
581 582			60 days following the initial performance test; and
704 (83		vii)	Submit notification to the Agency within 10 business days
583 584		<u>v11 j</u>	after completing (or failing to complete by the applicable
585			date) each of the increments of progress specified in
586			subsection (b)(2)(B) of this Section. The notification must
100			subsection (O/L/D) of this section. The notification must

687 688		be signed by the owner's or operator's representative responsible for the management of the HMIWI.
689		
690		3) If a petition for compliance extension is granted, the owner or operator of
691		an HMIWI, as defined in Section 229.110(a)(1) or (a)(2), must continue to
692		comply with the provisions of its current CAAPP permit during the
693		interim.
694		
695		4) Any owner or operator of an HMIWI that fails to demonstrate compliance
696		with this Part by October 6, 2014 shall cease operation of the HMIWI until
697		compliance with the provisions of this Part is achieved.
698		
699		5) Notwithstanding subsection (b)(2) of this Section, all owners or operators
700		of HMIWIs shall be in full compliance with all of the HMIWI operator
701		provisions of Subpart J of this Part before January 1, 2014.
702		provisions of Suopares of and fait before suitary 1, 2014.
703	(Sour	ce: Amended at 35 Ill. Reg, effective)
704	(Som	oc. Thirefided at 35 III. Reg, effective
705	Section 229.1	116 Compliance Schedules for HMIWIs That Will Shut Down
706	500010H 2271	To compliance senedules for that will start will start bown
707	All owners or	operators of HMIWIs that intend to permanently shut down their HMIWI as a
708	means of com	applying with this Part shall:
709	means of con	pryme with this rate shall.
710	<u>a)</u>	Provide the Agency with written notice of their intention to permanently shut
711	<u>ਲ</u> 1	down their HMIWI, as follows:
712		do wit then Tilvit wit, as tonows.
713		1) On or before November 15, 1999, for an HMIWI as defined in Section
714		229.110(a)(1) of this Part, subject to the emissions limits under Section
715		229.125(a) or Section 229.126(a) of this Part;
716		227.123(a) of Section 227.120(a) of this Part,
717		2) On or before January 1, 2013, except as provided for in Section
718		220 116(c) for an HMIVI as defined in Section 220 110(c)(2) - Cd.: D.
719		229.116(c), for an HMIWI as defined in Section 229.110(a)(2) of this Part, subject to the emissions limits under Section 229.125(c), as applicable, or
720		Section 229.126(c) of this Part.
721		Section 227,120(c) of this Part.
722	<u>b)</u>	Take the following affirmative steps to demonstrate that the HMIWI has been
23	<u>0,1</u>	rendered permanently inoperable by September 15, 2000, for an HMIWI as
24		defined in Section 220 110(a)(1) or by January 1 2014 for an HMIWI as
25		defined in Section 229.110(a)(1), or by January 1, 2014 for an HMIWI as defined in Sections 229.110(a)(2) of this Part:
26		in Sections 229.110(a)(2) of this Part.
27	a)	Provide the Agency with written notice of their intention to permanently shut
28	u)	down their HMIWI on or before November 15, 1999; and
29		down from 111vii w 1 on of octore november 13, 1999; and

730	b)	Take t	he follo	wing affirmative steps to demonstrate that the HMIWI has been
731		render	ed pern	nanently inoperable by September 15, 2000:
732				
733		1)	Weld 1	the primary chamber door shut;
734		,		
735		2)	Disma	antle the HMIWI; or
736		,		,
737		3)	Other	means that reasonably demonstrate that the HMIWI is no longer
738		-,	function	•
739			1001001	· · · · · · · · · · · · · · · · · · ·
740	<u>c)</u>	Excen	t as nro	vided in subsection (c)(5) of this Section, owners or operators may
741	<u>57</u>			tober 6, 2014 to shut down their HMIWIs to avoid being subject to
742				with the emissions limits under Section 229.125(c) or 229.126(c). To
743				wes of this extended compliance timeframe, the owner or operator of
744			IIWI sh	
7 44 745		<u>an inv</u>	11 44 1 211	<u>aii.</u>
745 746		1)	Submi	it its application to the Agency by July 1, 2013 requesting an
740 747		17		led compliance schedule, pursuant to Section 39.5(5)(d) of the Act
747				LCS 5/39.5(5)(d)]. This compliance schedule shall include
748 749				nentation of the analysis undertaken to support the need for an
750 751				tion, including an explanation of why the timeframe up to October 6,
751 752				s sufficient while the timeframe up to January 1, 2014 is not
752 753				ent, and incremental steps to be taken toward compliance with
753 754			арриса	able requirements of this Part.
754 755		2)	16	
755		<u>2</u>)		nsite alternative waste treatment technology is needed to be
756				ed before the HMIWI is shut down, an application for compliance
757				ion shall include the following elements of increments of progress
758			and co	mpletion date for each step of progress:
759 760			4.5	
760			<u>A)</u>	Finalize contract with an alternative waste treatment technology
761				vendor;
762				
763			<u>B</u>)	Initiate onsite construction or installation of alternative waste
764				treatment technology;
765				
766			<u>C)</u>	Complete onsite construction or installation of alternative waste
767				treatment technology; and
768			5.	
769			<u>D)</u>	Take the steps described under subsection (b) of this Section to
770				demonstrate that the HMIWI has been rendered permanently
771				inoperable.
772				

773		<u>3)</u>	If an onsite alternative waste treatment technology is not needed to be
774		<u> </u>	installed before an HMIWI is shut down, an application for compliance
775			extension shall include a plan for shut down. The plan for shut down shall
776			include steps described under subsection (b) of this Section to demonstrate
777			that the HMIWI has been rendered permanently inoperable.
778			that the Than wi has been rendered permanently moperable.
779		<u>4)</u>	If a petition for compliance extension is granted, the owner or operator of
780		37	an HMIWI, as defined in Section 229.110(a)(1) or (a)(2), must continue to
781			comply with the provisions of its current CAAPP permit during the
782			interim.
783			intermi.
784		5)	Any owner or operator of an UMIWI that fails to demonstrate compliance
785		<u>5)</u>	Any owner or operator of an HMIWI that fails to demonstrate compliance
786			with this Part by October 6, 2014 shall cease operation of the HMIWI until
787			compliance with the provisions of this Part is achieved.
788		6)	Notwithstanding subgration (a)(1) - fabis Seation - 11
789		<u>6)</u>	Notwithstanding subsection (c)(1) of this Section, all owners or operators
790			of HMIWIs shall be in full compliance with all of the HMIWI operator
791			provisions of Subpart J of this Part by January 1, 2014.
791 792	(Carre	a. A.m.	anded at 25 III. Days
793	(Source	e. Am	ended at 35 Ill. Reg, effective)
793 794			CLIDDADT D. CAADD DEDLAIT DEGLIDEN ASSES
79 4 795			SUBPART D: CAAPP PERMIT REQUIREMENTS
193 796	Section 220 12	20 64	ADD Domit Domit
790 797	Section 229.12	ZU CA	APP Permit Requirements
798	۵)	A 11 T.T1	MIWIs subject to the emissions limits in this Day 1. 11
799	<u>a)</u>		MIWIs subject to the emissions limits in this Part shall operate pursuant to a
800		CAAI	PP permit, as follows:
800 801		1)	Der Controller 15, 2000 C. The CVVIII. 1. C. 11. C. 11.
801 802		<u>1)</u>	By September 15, 2000, for an HMIWI as defined in Section
802 803			229.110(a)(1) of this Part; and
803 804		2)	Du Ianner, 1 2014 Server III (IVII) 1 C. 11 C. 11 C. 12 C. 12 C. 13 C. 14 C. 1
80 4 805		<u>2</u>)	By January 1, 2014, for an HMIWI as defined in Section 229.110(a)(1) or
806			(a)(2) of this Part.
807	L\	E	TIMINI THE STATE OF THE STATE O
808	<u>b</u>)	For an	y HMIWI subject to the emission limits in this Part that is first required to
		obtain	a CAAPP permit because it is subject to the emission limits in this Part, the
809		owner	or operator shall submit a complete application for a CAAPP permit, as
810		<u>follow</u>	<u>S:</u>
811		11	D C . 1 15 2000
812		<u>1)</u>	By September 15, 2000, except as provided for in Section
813			229.115(a)(2)(A) of this Part, for an HMIWI as defined in Section 229.110
814			(a)(1) of this Part; or
815			

a) All HMIWIs subject to the emissions limits in this Part shall operate put CAAPP permit by September 15, 2000. b) For any HMIWI subject to the emission limits in this Part that is first resolution a CAAPP permit because it is subject to the emission limits in this owner or operator shall submit a complete application for a CAAPP permit because it is subject to the emission limits in the owner or operator shall submit a complete application for a CAAPP permit because it is subject to the emission limits in the owner or operator shall submit a complete application for a CAAPP permit because it is subject to the emission limits in this owner or operator shall submit a complete application for a CAAPP permit because it is subject to the emission limits in this owner or operator of an HMIWI shall not be in violation of the requirement, spec subsection (a) of this Section, to have a CAAPP application, the owner operator of an HMIWI shall not be in violation of the requirement, spec subsection (a) of this Section, to have a CAAPP permit, to the extent present of the extent present of the Act [415 ILCS 5/39.5(5)(h)]. d) For any HMIWI that currently has a CAAPP permit, the following concapply: 1) If the CAAPP permit has a CAAPP permit, the following concapply: 1) If the CAAPP permit has a CAAPP permit shall apply for revision to the permit to incorporate the applicable requirements of this Part, as on or before November 15, 1999; or 2) If the CAAPP permit has less than 3 years remaining on the permit has explained to incorporate the applicable requirements of this Part; and 2) If the CAAPP permit shall be revised to incorporate the applicable requirements of this Part, upon renewal of the permit. 3) (Source: Amended at 35 Ill. Reg, effective) 30 (Source: Amended at 35 Ill. Reg, effective)	(b)(2)(A) of (a)(2) of
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Section 229.125 <u>Emissions Emission</u> Limits for Small, Medium, and Large HMIW	VIs
a)The emission limits in this Section shall apply at all times to HMIWIs identified in Section 229.110(a) at all times, except as provided in Section 229.110(b) of this Part and, Section 229.110(b)	ection ion

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859 229.126 of this Subpart and Subpart F of this Part.860

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a) Before January 1, 2014, each owner or operator of a small, medium, or large HMIWI as defined in Section 229.110(a)(1) of this Part shall comply with the following emissions limits:

b) The emission limits for small, medium, and large HMIWIs are as follows:

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Dallardand	Units	<u>HMIWI I</u>	<u>HMIWI EMISSIONS LIMITS</u>			
<u>Pollutant</u>	(7% oxygen, dry basis)	<u>Small</u>	<u>Medium</u>	<u>Large</u>		
Particulate	Milligrams per dry	115 (0.05)	69 (0.03)	34 (0.015)		
matter	standard cubic					
H	meter (mg/dscm)					
	(grains per dry					
	standard cubic					
	foot (gr/dscf))					
<u>Carbon</u>	Parts per million	<u>40</u>	<u>40</u>	<u>40</u>		
<u>monoxide</u>	by volume (ppmv)					
Dioxins/furans	Nanograms per	125 (55) or	125 (55) or	125 (55) or		
	dry standard cubic	<u>2.3 (1.0)</u>	2.3 (1.0)	<u>2.3 (1.0)</u>		
	meter total					
	dioxins/furans					
	(ng/dscm) (grains					
	per billion dry					
	standard cubic feet					
	(gr/10 ⁹ dscf)) or					
	ng/dscm TEQ (gr/10 ⁹ dscf)					
		100 000/	100			
<u>Hydrogen</u>	(ppmv) or percent	100 or 93%	100 or	100 or 93%		
<u>chloride</u>	reduction		<u>93%</u>			
Sulfur dioxide	(ppmv)	<u>55</u>	<u>55</u>	<u>55</u>		
<u>Nitrogen</u>	(ppmv)	<u>250</u>	<u>250</u>	<u>250</u>		
<u>oxides</u>						
<u>Lead</u>	mg/dscm (grains	1.2 (0.52) or	1.2 (0.52)	1.2 (0.52) or		
	per thousand dry	<u>70%</u>	<u>or 70%</u>	<u>70%</u>		
	standard cubic feet					
	$(gr/10^3 dscf)) or$					
	percent reduction		<u>-</u>			

Cadmium	mg/dscm (gr/10 ³ dscf) or percent reduction	0.16 (0.07) or 65%	0.16 (0.07) or 65%	0.16 (0.07) or 65%
Mercury	mg/dscm (gr/10 ³ dscf) or percent reduction	0.55 (0.24) or 85%	0.55 (0.24) or 85%	0.55 (0.24) or 85%

		HMIWI EMISSION LIMITS					
Pollutant	Units (7% oxygen, dry basis)	Small	Medium	Large			
PM	mg per dsem(grains per dsef)	115 (0.05)	69 (0.03)	34 (0.015)			
CO	ppmv	40	40	40			
Dioxins/Furans	Nanograms per dscm, total dioxins/furans (grains per billion dsef), or nanograms per dscm TEQ (grains per billion dsef)	125 (55) or 2.3 (1.0)	125 (55) or 2.3 (1.0)	125 (55) or 2.3 (1.0)			
HCl	ppmv or percent reduction	100 or 93%	100 or 93%	100 or 93%			
SO ₂	ppmv	55	55	5 5			
NO _*	ppmv	250	250	250			
₽b	mg per dsem (grains per thousand dsef) or percent reduction	1.2 (0.52) or 70%	1.2 (0.52) or 70%	1.2 (0.52) or 70%			
Cd	mg per dsem (grains per thousand dsef) or percent reduction	0.16 (0.07) or 65%	0.16 (0.07) or 65%	0.16 (0.07) or 65%			
Hg	mg per dsem (grains per thousand dsef) or percent reduction	0.55 (0.24) or 85%	0.55 (0.24) or 85%	0.55 (0.24) or 85%			

867

869 870 <u>b)</u>

No owner or operator of a small, medium, or large HMIWI subject to emissions limits listed under subsection (a) of this Section shall cause or allow any

868

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 in Section 229.104(d) of this Part, from any stack used by an HMIWI.

- On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, each owner or operator of a small, medium, or large HMIWI, as defined in Section 229.110(a)(1) and (a)(2) of this Part, shall comply with the following emissions limits, as applicable:
- e) 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.

WT *.						
<u>Pollutant</u>	<u>Units</u> (7% oxygen, dry	HMIWI EMISSIONS LIMITS				
1 Onutant	basis)	<u>Small</u>	Medium	Large		
<u>Particulate</u>	Milligrams per dry	66 (0.029)	46 (0.020) ^a	25 (0.011)		
matter	standard cubic		34 (0.015) ^b			
	meter (mg/dscm)					
	(grains per dry					
	standard cubic					
	foot (gr/dscf))					
Carbon	Parts per million	20	5.5	11		
monoxide	by volume (ppmv)			_		
Dioxins/furans	Nanograms per	16 (7.0) or	0.85 (0.37)	9.3 (4.1) or		
	dry standard cubic	<u>0.013</u>	or 0.020	0.054		
	meter total	<u>(0.0057)</u>	<u>(0.0087)</u>	(0.024)		
	dioxins/furans					
	(ng/dscm) (grains					
	per billion dry					
	standard cubic feet					
	(gr/10 ⁹ dscf)) or					
	ng/dscm TEQ					
	(gr/10 ⁹ dscf)					
Hydrogen	(ppmv)	44 ^a 15 ^b	7.7	6.6		
<u>chloride</u>						
Sulfur dioxide	(ppmv)	4.2	4.2	9.0		
Nitrogen	(ppmv)	190	<u>190</u>	140		
<u>oxides</u>						

Lead	mg/dscm (grains per thousand dry standard cubic feet (gr/10 ³ dscf))	0.31 (0.14)	0.018 (0.0079)	0.036 (0.016)
Cadmium	mg/dscm (gr/10 ³ dscf)	<u>0.017</u> (0.0074)	0.013 (0.0057)	0.0092 (0.0040)
Mercury	mg/dscm (gr/10 ³ dscf)	0.014 (0.0061)	0.025 (0.011)	<u>0.018</u> (0.0079)

^a Emissions limits for HMIWIs as defined in Section 229.110(a)(1) of this Part.

^b Emissions limits for HMIWIs as defined in Section 229.110(a)(2) of this Part.

- No owner or operator of a small, medium, or large HMIWI subject to emission limits listed under subsection (c) of this Section shall cause or allow any emissions that cause greater than 6 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.
- e) On and after the date on which the initial performance test is completed or required to be completed under Section 229.142 of this Part, whichever date comes first, no owner or operator of an HMIWI, as defined in Section 229.110

 (a)(1) or (a)(2) of this Part and subject to the emissions limits under subsection (c) of this Section, shall cause to be discharged into the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points), enclosures of ash conveying systems, buildings, or other sources in excess of 5 percent of the observation period of 9 minutes per 3-hour period, according to Method 22, 40 CFR 60, appendix A, incorporated by reference in Section 229.104(d) of this Part, except as provided by the following exclusions:
 - 1) Visible emissions discharged inside buildings or enclosures of ash conveying systems; or
 - During maintenance and repair of ash conveying systems. Maintenance and/or repair shall not exceed 10 operating days per calendar quarter unless the owner or operator of an HMIWI makes a request to the Agency in writing for a longer period of time to complete maintenance and/or repair, and the Agency approves the owner's or operator's request in writing.

G	Source:	Amended at	35 III	. Keg.	, effective	J

Section 229.126 Emissions Emission Limits For Rural HMIWIs

 920 a)Notwithstanding the emissionsemission limits set out in Section 229.125 of this Part, any rural HMIWI shall comply with the emissionsemission limits set out in subsection (a) or (c)(b) of this Section. The emissionsemission limits under this Section shall apply at all times, except as provided for in Section 229.110(b) and Subpart F of this Part.

<u>a)</u> Before January 1, 2014, a rural HMIWI as defined in Section 229.110(a)(1) shall comply with the following emissions limits:

b) The emission limits for rural HMIWI are as follows:

<u>Pollutant</u>	<u>Units</u> (7% oxygen, dry basis)	EMISSION LIMITS
Particulate matter	mg/dscm	<u>197</u>
	(gr/dscf)	(0.086)
Carbon monoxide	ppmv	40
Dioxins/furans	ng/dscm total dioxins/furans	800 (350) or 15 (6.6)
	(gr/10 ⁹ dscf) or ng/dscm TEQ	
	(gr/10 ⁹ dscf)	
Hydrogen chloride	ppmv	<u>3100</u>
Sulfur dioxide	ppmv	<u>55</u>
Nitrogen oxides	ppmv	<u>250</u>
Lead	mg/dscm	<u>10</u>
	$(gr/10^3 dscf)$	(4.4)
Cadmium	mg/dscm	4
	$(gr/10^3 dscf)$	(1.7)
Mercury	mg/dscm	<u>7.5</u>
	$(gr/10^3 dscf)$	(3.3)

Pollutant	Units	EMISSION LIMITS
	(7% oxygen, dry basis)	
PM	mg per dscm (grains per dscf	197 (0.086)
CO	ppmv	40
Dioxin/Furans	nanograms per dsem total	800 (350) or 15 (6.6)
	dioxins/furans (grains per billion	
	dsef), or nanograms per dsem TEQ	
	(grains per billion dsef)	
HCl	ppmv	3100
SO ₂	ppmv	55
Nox	ppmv	250
Pb	mg-per dscm (grains per thousand	10 (4.4)
	dsef)	
Cd	mg-per-dscm (grains per thousand	4 (1.7)

	dsef)	
Hg	mg per dscm (grains per thousand dsef)	7.5 (3.3)

- No owner or operator of a rural HMIWI subject to emissions limits listed under subsection (a) of this Section 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.

c)

On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, a rural HMIWI, as defined in Section 229.110(a)(1) or (a)(2) of this Part, shall comply with the following emissions limits:

<u>Pollutant</u>	<u>Units</u> (7% oxygen, dry basis)	EMISSION LIMITS
Particulate matter	mg/dscm	87
	(gr/dscf)	(0.038)
Carbon monoxide	ppmv	20
Dioxins/furans	ng/dscm total dioxins/furans	240 (100) or 5.1 (2.2)
	(gr/10 ⁹ dscf) or ng/dscm TEQ	, , , , , , , , , , , , , , , , , , , ,
	$(gr/10^9 dscf)$	
Hydrogen chloride	ppmv	810
Sulfur dioxide	ppmv	<u>55</u>
Nitrogen oxides	ppmv	130
Lead	mg/dscm	0.50
	$\frac{(gr/10^3 dscf)}{}$	(0.22)
<u>Cadmium</u>	mg/dscm	0.11
	$(gr/10^3 dscf)$	(0.048)
Mercury	mg/dscm	0.0051
	$(gr/10^3 dscf)$	(0.0022)

No owner or operator of a rural HMIWI subject to emissions limits listed under subsection (c) of this Section shall cause or allow any emissions that cause greater than 6 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.

e) On and after the date on which the initial performance test is completed or required to be completed under Section 229.142 of this Part, whichever date comes first, no owner or operator of a rural HMIWI, as defined in Section 229.110(a)(1) or (a)(2) of this Part, subject to the emissions limits under

954		subsection (c) of this Section, shall cause to be discharged into the atmosphere
955		visible emissions of combustion ash from ash conveying system (including
956		conveyor transfer points), enclosures of ash conveying systems, buildings, or
957		other sources in excess of 5 percent of the observation period of 9 minutes per 3-
958		hour period, according to Method 22, 40 CFR 60, appendix A, incorporated by
959		reference at Section 229.104(d) of this Part, except as provided by the following
960		exclusions:
961		
962		1) Visible emissions discharged inside buildings or enclosures of ash
963		conveying systems; or
964		
965		2) During maintenance and repair of ash conveying systems. Maintenance
966		and/or repair shall not exceed 10 operating days per calendar quarter,
967		unless the owner or operator of an HMIWI makes a request to the Agency
968		in writing for a longer period of time to complete maintenance and/or
969		repair, and the Agency approves the owner's or operator's request in
970		writing.
971		
972	e)	No owner or operator of a rural HMIWI shall cause or allow any emissions that
973	-,	cause greater than 10 percent opacity, as measured on a 6 minute block average.
974		according to Method 9, 40 CFR 60, Appendix A, incorporated by reference at
975		Section 229.104(d) of this Part, from any stack used by an HMIWI.
976		2200001 22000 (U) 02 tales 1 alet, north alet alet alet alet alet alet alet alet
977	(Sourc	e: Amended at 35 Ill. Reg, effective)
978	(50	
979		SUBPART F: EXCEPTIONS FROM EMISSION LIMITS
980		
981		30 Operation During Periods of Startup, Shutdown, or Malfunction
982	(Repealed)	
983 984	a)	The emission limits specified in Subpart E of this Part do not apply to an HMIWI
985	4)	during periods of startup, shutdown or malfunction, if the requirements provided
986		in subsections (b), (c) and (d) of this Section are met.
987		in subsections (b), (c) and (d) of this section are met.
988	b)	No waste shall be charged to an HMIWI during periods of startup, shutdown or
989	0)	malfunction.
990		manunctions
991	e)	The shutdown of any HMIWI shall proceed according to the following
992	•	requirements:
993		requirements.
994		1) For continuous HMIWIs, shutdown may commence no less than 2 hours
995		after the last charge to an HMIWI;
996		and the last dialge to an invit or i,
,,,,		

997 998		2)	For intermittent HMIWIs, shutdown may commence no less than 4 hours after the last charge to an HMIWI; and
999			which the two countries is and
1000		3)	For batch HMIWIs, shutdown may commence no less than 5 hours after
1001		ŕ	the high air phase of combustion has been completed.
1002			•
1003	d)	Durin	ng periods of malfunction, the owner or operator of an HMIWI shall do all of
1004	•	the fo	bllowing.
1005			•
1006		1)	Take all reasonable steps to ensure that an HMIWI operates within the
1007			parameters established for that HMIWI and to minimize excess emissions;
1008			
1009		2)	Continue monitoring all applicable parameters; and
1010			
1011		3)	Take appropriate corrective actions prior to resuming the charging of any
1012			waste to an HMIWI.
1013			
1014	(Sour	ce: Rej	pealed at 33 Ill. Reg, effective)
1015			
1016			SUBPART H: COMPLIANCE REQUIREMENTS
1017			
1018			itial Performance Testing and Establishment of Operating Parameters
1019	<u>for All HMI</u>	<u>WIs</u>	
1020			
1021	<u>a)</u>		re January 1, 2014, each owner or operator of an HMIWI as defined in
1022			on 229.110(a)(1) of this Part, subject to the emissions limits under Section
1023			25(a) or Section 229.126(a) of this Part, shall comply with the following
1024		requi	rements:
1025			
1026		-	or of an HMIWI subject to the emissions limits under this Part shall comply
1027	with the follo	wing re	equirements:
1028			
1029		<u>l</u> a)	Except as provided in Section $\underline{229.115(a)(2)(B)(v)229.115(b)(2)(E)}$ of this
1030			Part, conduct an initial performance test on their HMIWI by September
1031			15, 2000.;
1032			
1033		<u>2</u> b)	Except as provided in subsection $(a)(3)(e)$ of this Section, in the initial
1034			performance test, test for all pollutants limited pursuant to Subpart E of
1035			this Part _. ;
1036			
1037		<u>3</u> e)	During the initial performance test, rural HMIWIs are not required to test
1038			for HCl, Pb or Cd _. ;
1039			

1040		<u>4</u> d)	If an HMIWI is equipped with a dry scrubber followed by a fabric filter, a
1041			wet scrubber, or a dry scrubber followed by a fabric filter and wet
1042			scrubber, or a selective noncatalytic reduction system, establish the
1043			appropriate maximum and minimum operating parameter values indicated
1044			in Appendix B of this Part for the relevant control system during the initial
1045			performance test, provided that the performance test demonstrates
1046			compliance with the emission limits specified in Section 229.125 of this
1047			Part.;
1048			
1049		<u>5</u> e)	If air pollution control equipment other than a dry scrubber followed by a
1050		_ ,	fabric filter, a wet scrubber, aer dry scrubber followed by a fabric filter
1051			and a wet scrubber, or a selective noncatalytic reduction system is used to
1052			comply with the emission limits under Section 229.125 of this Part, the
1053			initial performance test may not be conducted until site-specific operating
1054			parameters that will be monitored to demonstrate compliance with this
1055			Part have been established by the Agency in a construction permit and
1056			approved by USEPA.
1057			The court of the c
1058		<u>6</u> f)	For rural HMIWI, establish the maximum charge rate and minimum
1059		/	secondary chamber temperature as site-specific parameters during the
1060			initial performance test, provided that the performance test demonstrates
1061			that the HMIWI is in compliance with the emission limits specified in
1062			Section 229.126 of this Part.
1063			Towns 227120 of this lat.
1064	<u>b)</u>	On an	d after January 1, 2014, each owner or operator of an HMIWI, as defined in
1065		Sectio	n 229.110(a)(1) or (a)(2) of this Part, and subject to the emissions limits
1066		under	Section 229.125(c) as applicable, or Section 229.126(c) of this Part, shall
1067		compl	y with the following requirements:
1068			
1069		<u>1)</u>	Except as provided in Section 229.115(a)(2)(B)(v) of this Part, conduct an
1070		_	initial performance test on its HMIWI by January 1, 2014.
1071			The state of the s
1072		<u>2)</u>	Except as provided for in subsection (b)(6), in the initial performance test,
1073		_	test for all pollutants to demonstrate compliance with Section 229.125(c)
1074			or Section 229.126(c) emissions limits, as applicable, pursuant to Subpart
1075			E of this Part.
076			
077		<u>3)</u>	If an HMIWI is equipped with a dry scrubber followed by a fabric filter, a
.078			wet scrubber, a dry scrubber followed by a fabric filter and wet scrubber,
.079			or a selective noncatalytic reduction system, establish the appropriate
.080			maximum and minimum operating parameter values indicated in
.081			Appendix B of this Part for the relevant control system during the initial
.082			performance test, provided that the performance test demonstrates
			performance test demonstrates

1083			nce with the emission limits specified in Section 229.125 or
1084		<u>229.126</u>	of this Part.
1085			
1086	<u>4)</u>		pollution control device other than a dry scrubber followed by a
1087		fabric fil	lter, a wet scrubber, a dry scrubber followed by a fabric filter and a
1088		wet scru	bber, or a selective noncatalytic reduction system is used to
1089			with the emission limits under Section 229.125 or Section 229.126
1090		of this P	art, the initial performance test may not be conducted until site-
1091		specific	operating parameters that will be monitored to demonstrate
1092		complia	nce with this Part have been established by the Agency in a
1093		construc	tion permit and approved by USEPA.
1094			-
1095	<u>5)</u>	For a run	ral HMIWI that is not equipped with an air pollution control
1096	- -		establish the maximum charge rate and minimum secondary
1097		chamber	temperature as site-specific parameters during the initial
1098		performa	ance test, provided that the performance test demonstrates that the
1099			is in compliance with the emission limits specified in Section
1100		229.126	(c) of this Part.
1101			· ·
1102	<u>6)</u>	The own	ner or operator of an HMIWI may use results of previous
1103	_ -	performa	ance tests for initial compliance demonstration with the applicable
1104		_	as limits, provided the following conditions are met:
1105			
1106		<u>A)</u> <u>T</u>	The previous emissions tests were conducted using procedures and
1107			est methods listed in Section 229.140 of this Part or USEPA-
1108			ccepted voluntary consensus standards;
1109		_	
1110		<u>B</u>) <u>1</u>	The test results are certified as representative of current operations;
1111			and .
1112		_	
1113		<u>C</u>) <u>T</u>	The previous emissions tests were conducted no earlier than 1996.
1114		- -	
1115	<u>7)</u>	The own	ner or operator of an HMIWI that cannot certify and/or whose
1116			performance test results do not demonstrate compliance with one
1117			of the revised emission limits must conduct another performance
1118			hose pollutants.
1119			
1120	<u>8)</u>	The own	ner or operator of an HMIWI, as defined in Section 229.110(a)(1)
1121		•	of this Part, and subject to the emissions limits under Section
1122			(c) as applicable, or Section 229.126(c) of this Part, as applicable,
1123			ermine compliance with the visible emissions limit for fugitive
1124			us from ash handling in Sections 229.125(g) and 229.126(e) by

1125			conducting an initial performance test using Method 22, at 40 CFR 60,
1126			appendix A, incorporated by reference at Section 229.104(d) of this Part.
1127			
1128	(Sour	ce: Ame	ended at 35 Ill. Reg, effective)
1129			
1130	Section 229.1	146 An	nual Testing for Opacity
1131			
1132	Following the	e date or	which the initial performance test is completed, as required by Section
1133	229.142 of th	is Section	on, the owners or operators of all HMIWIs shall conduct an annual opacity
1134	test, in accord	lance wi	ith Section 229.140 of this Part. The opacity test schedules are as follows:
1135	by September	r 15 of e	ach year.
1136			·
1137	<u>a)</u>	By Se	ptember 15 of each year for an HMIWI as defined in Section 229.110(a)(1)
1138		of this	Part and subject to the emissions limits under Section 229.125(a) or
1139		Sectio	n 229.126(a) of this Part; and
1140			
1141	<u>b)</u>	By Jar	nuary 1 of each year for an HMIWI, as defined in Section 229.110(a)(1) or
1142	,	(a)(2)	of this Part, and subject to the emissions limits under Section 229.125(c) as
1143		applic	able, or Section 229.126(c) of this Part.
1144			
1145	(Sour	ce: Am	ended at 35 Ill. Reg, effective)
1146			
1147	Section 229.1	148 Ani	nual Performance Testing for <u>All</u> Small, Medium and Large HMIWIs
1148			<u> </u>
1149	Following the	e date or	which the initial performance test is completed, as required by Section
1150			each owner or operator of an HMIWI, as applicable, all owners or operators
1151	of small, med	lium, or	large HMIWIs shall conduct an annual performance test, by September 15
1152	of each year t	o detern	nine compliance with the applicable PM, CO and HCl emission limits
1153	specified in S	ection 2	229.125 or 229.126(b) of this Part, using the applicable test procedures and
1154	methods spec	ified in	Section 229.140 of this Part.
1155			
1156	<u>a)</u>	Annua	al performance test schedules are as follows:
1157			
1158		<u>1)</u>	Before January 1, 2014, each owner or operator of a small, medium, or
1159			large HMIWI as defined in Section 229.110(a)(1), subject to the emissions
1160			limits under Section 229.125(a) of this Part, shall complete an annual
1161			performance test by September 15 of each year; and
1162			
1163		<u>2)</u>	On and after January 1, 2014, an owner or operator of a small, rural,
1164			medium, or large HMIWI, as defined in Section 229.110(a)(1) or (a)(2),
1165			subject to the emissions limits under Section 229.125(c) as applicable, or
1166			in Section 229.126(c) of this Part, shall complete an annual performance
1167			test by January 1 of each year.

1108		
1169	<u>b</u> a)	If all 3 annual performance tests over a 3-year period indicate compliance with
1170		the <u>applicable</u> emission limits for PM, CO, or HCl specified in Section 229.125(b)
1171		of this Part, the owner or operator of an HMIWI may forego a performance test
1172		for that pollutant during the next 2 years. If the next performance test conducted
1173		every third year indicates compliance with the emission limits for PM, CO, or
1174		HCl specified in Section 229.125(b) of this Part, the owner or operator of an
1175		HMIWI may forego a performance test for that pollutant for an additional 2 years
1176		from the date of the previous performance test.
1177		
1178	<u>c</u> b)	If any performance test indicates noncompliance with the respective emission
1179		limit, the owner or operator of an HMIWI shall conduct a performance test for
1180		that pollutant annually until all annual performance tests over a 3-year period
1181		indicate compliance with the respective emission limits.
1182		
1183	<u>d)</u>	The owner or operator of an HMIWI may use any of the following types of
1184		continuous emission monitoring systems (CEMS), as provided in Section 229,152
1185		of this Part, to substitute for annual performance tests and parameter monitoring
1186		to demonstrate compliance with applicable emissions limits:
1187		
1188		1) PM CEMS: replace annual PM testing and opacity testing and monitoring
1189		of pressure drop across the wet scrubber, if applicable;
1190		
1191		2) CO CEMS: replace annual CO testing and monitoring of minimum
1192		secondary chamber temperature;
1193		
1194		3) HCl CEMS: replace annual HCl testing and monitoring of minimum HCl
1195		sorbent flow rate and minimum scrubber liquor pH.
1196		
1197	(Sourc	e: Amended at 35 Ill. Reg, effective)
1198	•	
1199	Section 229.1	50 Compliance with Operating Parameter Values
1200		
1201	a)	Following the date on which the initial performance test is completed, or is
1202	,	required to be completed underas provided in Section 229.142 of this Subpart,
1203		whichever date comes firstPart, an HMIWI, using a dry scrubber followed by a
1204		fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet
1205		scrubber to comply with the emission limits of this Part ₃ shall not operate above
1206		any of the applicable maximum or below any of the applicable minimum
1207		operating parametersparameter values specified in Appendix B of this Part. All
1208		operating parameters shall be measured as a 3-hour rolling average (calculated
1209		each hour as a 3-hour rolling average of the previous 3 operating hours) at all
1210		times except during periods of startum shutdown and malfunction (calculated

1211 1212		each hour as a 3-hour rolling average of the previous 3 operating hours). For batch HMIWIs, the charge rate shall be measured on a per batch basis.
1213		
1214	<u>b)</u>	Except as provided in Section 229.164 of this Subpart, for an HMIWI equipped
1215		with a selective noncatalytic reduction system, operation of the HMIWI above the
1216		maximum charge rate, below the minimum secondary chamber temperature, and
1217		below the minimum reagent flow rate simultaneously shall constitute a violation
1218		of the NO _x emissions limit.
1219		
1220	<u>c</u> b)	For HMIWIs using air pollution control equipment other than a dry scrubber
1221		followed by a fabric filter, a wet scrubber, or dry scrubber followed by a fabric
1222		filter and a wet scrubber to comply with the emission limits under Section
1223		229.125 or Section 229.126 of this Part, following the date on which the initial
1224		performance test is completed, as provided in Section 229.142 of this Part, an
1225		HMIWI shall not operate above any applicable maximum or below any applicable
1226		minimum operating parameter values established in its CAAPP permit.
1227		
1228	<u>d</u> e)	Operating parameter limits do not apply during performance tests.
1229		
1230	(Source	e: Amended at 35 Ill. Reg, effective)
1231	·	
1232	Section 229.1	52 Compliance Requirements for HMIWIs using CEMS
1233		
1234	The owner or	operator of an HMIWI may use a CEMS to demonstrate compliance with any of
1235		imits under Section 229.125 or Section 229.126(b) of this Part, if provided for in
1236	its permit.—A	ny HMIWI that is allowed to use a CEMS to demonstrate compliance with the
1237		ts of this Part-shall:
1238		
1239	<u>a)</u>	Any HMIWI that is allowed to use a CEMS to demonstrate compliance with the
1240		emission limits of this Part shall:
1241		
1242		1a) Determine compliance with the applicable emission limits using a 12-hour
1243		rolling average, calculated each hour as the average of the previous 12
1244		operating hours, not including startup, shutdown, or malfunction; and
1245		
1246		2b) Operate all CEMS in accordance with the applicable procedures under
1247		appendices Appendices B and F of 40 CFR 60, incorporated by reference
1248		at Section 229.104(e) of this Part.
1249		
1250	<u>b)</u>	In the case of CEMS for which USEPA has not published performance
1251	<u>≃</u> ,	specifications, the option to use the CEMS takes effect on the date of publication
1252		of the performance specifications in the Federal Register or after site-specific
سررس		AT AND PASSESSED AND ADDRESS OF THE PASSESSED AND ADDRESS OF ADDRE

1253		operating parameters used to demonstrate compliance with this Part have been
1254		established by the Agency in a construction permit and approved by USEPA.
1255		
1256	(Sour	rce: Amended at 35 Ill. Reg, effective)
1257	·	
1258	Section 229.	154 Violations by HMIWIs Equipped with a Dry Scrubber Followed by a
1259	Fabric Filte	r
1260		
1261		ovided in Section 229.164 of this Subpart, for an HMIWI equipped with a dry
1262	scrubber foll	owed by a fabric filter:
1263	_	
1264	a)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1265		the minimum secondary chamber temperature (each measured on a 3-hour rolling
1266		average) shall be a violation of the CO emissions emission limit;
1267		
1268	b)	Simultaneous operation of an HMIWI above the maximum fabric filter inlet
1269		temperature, above the maximum charge rate, and below the minimum
1270		dioxin/furan sorbent flow rate (each measured on a 3-hour rolling average) shall
1271		be a violation of the dioxin/furan emissionsemission limit;
1272		
1273	c)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1274	•	the minimum HCl sorbent flow rate (each measured on a 3-hour rolling average)
1275		shall be a violation of the HCl emissionsemission limit;
1276		· · · · · · · · · · · · · · · · · · ·
1277	d)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1278	,	the minimum Hg sorbent flow rate (each measured on a 3-hour rolling average)
1279		shall be a violation of the Hg emissionsemission limit; or
1280		<u> </u>
1281	e)	Use of the bypass stack at any time during operation of an HMIWI(except during
1282	-,	startup, shutdown or malfunction) is a violation of the PM, dioxin/furan, HCl, Pb,
1283		Cd and Hg emissionsemission limits:
1284		
1285	<u>f)</u>	If a CO CEMS is used to determine compliance with a CO emissions limit,
1286	=+	operation of the HMIWI above the CO emissions limit as measured by the CO
1287		CEMS shall be a violation of the emissions limit;
1288		OZIATO STREET SO B ATOMICON OF MIC CHINDSTONS HITTING
1289	g)	If a bag leak detection system is used, failure to initiate corrective action within
1290	₽./	one hour after the bag leak detection system alarm, or failure to operate and
1291		maintain the fabric filter so that the alarm is not engaged for more than 5 percent
1292		of the total operating time in a 6-month block reporting period, shall be a
1293		violation of the PM emissions limit;
1294		violation of the Livi chinosions mint,

1295	<u>h)</u>	If a bag leak detection system is used to demonstrate compliance with the opacity
1296		limit, failure to initiate corrective action within one hour after the bag leak
1297		detection system alarm shall be a violation of the opacity emissions limit;
1298		
1299	<u>i)</u>	If a CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg
1300	-	emissions limit, operation of the HMIWI above the applicable emissions limit as
1301		measured by the CEMS shall be a violation of the emissions limit;
1302		
1303	j)	If a continuous automated sampling system is used, operation of the HMIWI
1304		above the dioxin/furan emissions limit as measured by the continuous automated
1305		sampling system shall be a violation of the dioxin/furan emissions limit; or
1306		
1307	<u>k)</u>	If a continuous automated sampling system is used, operation of the HMIWI
1308		above the Hg emissions limit as measured by the continuous automated sampling
1309		system shall be a violation of the Hg emissions limit.
1310		
1311	(Sour	ce: Amended at 35 Ill. Reg, effective)
1312	`	
1313	Section 229.	156 Violations by HMIWIs Equipped with a Wet Scrubber
1314		
1315	Except as pro	ovided in Section 229.164 of this Subpart, for an HMIWI equipped with a wet
1316	scrubber:	·
1317		
1318	a)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1319	,	the minimum pressure drop across the wet scrubber or below the minimum
1320		horsepower or amperage to the system (each measured on a 3-hour rolling
1321		average) is a violation of the PM emissionsemission limit;
1322		<u></u>
1323	b)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1324	- /	the minimum secondary chamber temperature (each measured on a 3-hour rolling
1325		average) is a violation of the CO emissionsemission limit;
1326		<u></u>
1327	c)	Simultaneous operation of an HMIWI above the maximum charge rate, below the
1328	-/	minimum secondary chamber temperature and below the minimum scrubber
1329		liquor flow rate (each measured on a 3-hour rolling average) is a violation of the
1330		dioxin/furan emissionsemission limit;
1331		divinia ratan <u>amborono</u> umbalon mant,
1332	d)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1333	Ψ)	the minimum scrubber liquor pH (each measured on a 3-hour rolling average) is a
1334		violation of the HCl emissionsemission limit;
1335		
1336	e)	Simultaneous operation of an HMIWI above the maximum flue gas temperature
1337	•,	and above the maximum charge rate (each measured on a 3-hour rolling average)
		average)

1338		is a violation of the Hg emissionsemission limit; or
1339		
1340	f)	Use of the bypass stack at any time during operation of an HMIWI(except during
1341		startup, shutdown, or malfunction) is a violation of the PM, dioxin/furan, HCl, Pb
1342		Cd and Hg emissionsemission limits;
1343		
1344	g)	If a CO CEMS is used to determine compliance with a CO emissions limit,
1345	-	operation of the HMIWI above the CO emissions limit as measured by the CO
1346		CEMS shall be a violation of the emissions limit;
1347		
1348	<u>h)</u>	If a CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg
1349		emissions limit, operation of the HMIWI above the applicable emissions limit as
1350		measured by the CEMS shall be a violation of the emissions limit;
1351		
1352	<u>i)</u>	If a continuous automated sampling system is used, operation of the HMIWI
1353	=4	above the dioxin/furan emissions limit as measured by the continuous automated
1354		sampling system shall be a violation of the dioxin/furan emissions limit; or
1355		sampling system start be a violation of the dioxinstatal emissions mill, or
1356	j)	If a continuous automated sampling system is used, operation of the HMIWI
1357	,,,	above the Hg emissions limit as measured by the continuous automated sampling
1358		system shall be a violation of the Hg emissions limit.
1359		System shall be a violation of the rig chilosions mint.
1360	(Sour	ce: Amended at 35 Ill. Reg, effective)
1361	(bourt	c. Finended at 35 m. Reg, effective
1362	Section 220 1	158 Violations by HMIWIs Equipped with a Dry Scrubber Followed by a
1363	Fabric Filter	and a Wet Scrubber
1364	rabite ritter	and a viet Sciubbei
1365	Evcent as pro	vided in Section 229.164 of this Subpart, for an HMIWI equipped with a dry
1366		owed by a fabric filter and a wet scrubber:
1367	scrubber forto	wed by a labile like and a wet schubber.
1368	a)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1369	a)	the minimum secondary chamber temperature (each measured on a 3-hour rolling
1370		average) is a violation of the CO emissions emission limit;
1370		average) is a violation of the CO emissions emission limit,
1371	b)	Simultaneous energian of an HMIVII above the manimum false. Clearly La
1372	0)	Simultaneous operation of an HMIWI above the maximum fabric filter inlet
1374		temperature, above the maximum charge rate and below the minimum
1374		dioxin/furan sorbent flow rate (each measured on a 3-hour rolling average) is a
		violation of the dioxin/furan emissionsemission limit;
1376	۵)	Cimultaneous analysism of an ITM/IW/I above the second of the ITM
1377	c)	Simultaneous operation of an HMIWI above the maximum charge rate and below
1378		the minimum scrubber liquor pH (each measured on a 3-hour rolling average) is a
1379		violation of the HCl emissionsemission limit;
1380		

1381 1382	d)	Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum Hg sorbent flow rate (each measured on a 3-hour rolling average) is
1383		a violation of the Hg emissionsemission limit; or
1384		a violation of the rig emissions mint, of
1385	e)	Use of the hymers stock at any time during appretion of an IIMINU(appret during
1386	6)	Use of the bypass stack at any time during operation of an HMIWI(except during
1387		startup, shutdown, or malfunction) is a violation of the PM, dioxin/furan, HCl, Pb
1388		Cd and Hg emissionsemission limits;
1389	6	If CO CEMS is used to determine assertions with a CO.
1390	<u>f)</u>	If CO CEMS is used to determine compliance with a CO emissions limit,
		operation of the HMIWI above the CO emissions limit as measured by the CO
1391		CEMS shall be a violation of the emissions limit;
1392	- \	TC-11-1 transfer at 1 Ct at the control of the
1393	g)	If a bag leak detection system is used, failure to initiate corrective action within
1394		one hour after the bag leak detection system alarm, or failure to operate and
1395		maintain the fabric filter so that the alarm is not engaged for more than 5 percent
1396		of the total operating time in a 6-month block reporting period, shall be a
1397		violation of the PM emissions limit;
1398	• >	
1399	<u>h</u>)	If a bag leak detection system is used to demonstrate compliance with the opacity
1400		limit, failure to initiate corrective action within one hour after the bag leak
1401		detection system alarm shall be a violation of the opacity emissions limit;
1402	•	VC CPD CC 1
1403	<u>i)</u>	If CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg
1404		emissions limit, operation of the HMIWI above the applicable emissions limit as
1405		measured by the CEMS shall be a violation of the emissions limit;
1406	• `	
1407	j)	If a continuous automated sampling system is used, operation of the HMIWI
1408		above the dioxin/furan emissions limit as measured by the continuous automated
1409		sampling system shall be a violation of the dioxin/furan emissions limit; or
1410	1.	
1411	<u>k)</u>	If a continuous automated sampling system is used, operation of the HMIWI
1412		above the Hg emissions limit as measured by the continuous automated sampling
1413		system shall be a violation of the Hg emissions limit.
1414	/0	
1415	(Sourc	ce: Amended at 35 Ill. Reg, effective)
1416	G // 000 d	(A C
1417	Section 229.1	60 Compliance Requirements for Rural HMIWIs
1418		
1419	<u>a)</u>	Prior to January 1, 2014, the requirements set forth in subsections (c) through (e)
1420		of this Section shall apply to all rural HMIWIs subject to the emissions limits
1421		under Section 229.126 of this Part.
1422		

1423 1424 1425 1426 1427	<u>b)</u>	On and after January 1, 2014, the requirements set forth in subsections (c) through (e) of this Section shall apply to all rural HMIWIs that are not equipped with an air pollution control device and that are subject to the emissions limits under Section 229.126 of this Part.
1428 1429 1430 1431 1432 1433 1434 1435	<u>c</u> a)	Following the date on which the initial performance test is completed or is required to be completed under Section 229.142 of this Subpart, whichever date comes first, the owners or operators of rural HMIWI shall not operate their HMIWI either above the maximum charge rate or below the minimum secondary chamber temperature measured as 3-hour rolling averages at all times, except during periods of startup or shutdown (calculated each hour as a 3-hour rolling the average of the previous 3 operating hours) at all times.
1436 1437	<u>d)</u>	Operating parameter limits do not apply during performance tests.
1438 1439 1440 1441 1442	<u>e</u> b)	Except as provided in Section 229.164 of this Subpart, the simultaneous operation of a rural HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (calculated as a 3-hour rolling average) shall constitute a violation of the PM, CO and dioxin/furan emission limits.
1443	(Sourc	e: Amended at 35 Ill. Reg, effective)
1444 1445	Section 229.1	62 Inspection Requirements for AllRural HMIWIs
1446 1447 1448 1449 1450	a)	Before January 1, 2014, each owner or operator of a rural HMIWI subject to the emission limits under Section 229.126 of this Part shall inspect the HMIWI according to the following schedule: Each owner or operator of a rural HMIWI shall inspect the HMIWI according to the following schedule:
1451 1452		1) An initial inspection shall be conducted by September 15, 2000; and
1453 1454 1455 1456		2) An annual inspection shall be conducted by September 15 of each year thereafter.
1457 1458 1459	b)	Each <u>equipment</u> inspection shall be conducted to ensure the proper operation of the rural -HMIWI and, at a minimum, shall consist of the following steps:
1460 1461 1462		 An inspection of all burners, pilot assemblies, and pilot sensing devices, cleaning the pilot flame sensor, as necessary;
1463 1464 1465		2) An inspection of the primary and secondary chamber combustion air flow, adjusting, as necessary;

1466 1467		3)	An inspection of the hinges and door latches, lubricating, as necessary;
1468		4)	An inspection of dampers, fans, and blowers;
1469		7)	All hispection of dampers, rans, and blowers,
1470		5)	An inspection of the HMIWI door and door gaskets;
1471		٠,	in inspection of the first wi door and door gaskets,
1472		6)	An inspection of all HMIWI motors;
1473		• • •	i in inspection of all little () i inotato,
1474		7)	An inspection of the primary chamber refractory lining, cleaning,
1475		,	repairing or replacing the lining, as necessary;
1476			,
1477		8)	An inspection of the incinerator shell for corrosion or hot spots;
1478		,	1
1479		9)	An inspection of the secondary/tertiary chamber and stack, cleaning as
1480		•	necessary;
1481			•
1482		10)	Where applicable, an inspection of the mechanical loader, including limit
1483			switches;
1484			
1485		11)	A visual inspection of the waste bed (grates), repairing or sealing, as
1486			necessary;
1487			
1488		12)	Where applicable, an inspection of air pollution control devices to ensure
1489			their proper operation;
1490			
1491		13)	Where applicable, an inspection of the waste heat boiler systems;
1492			
1493		14)	An inspection of all bypass stack components;
1494			
1495		15)	Calibration of thermocouples, sorbent feed systems and monitoring
1496			equipment; and
1497		a a-s	
498		16)	A general inspection of all equipment to ensure that it is maintained in
499			good operating condition.
500		ATM.	
501	c)		owner or operator of ana rural HMIWI shall document that, during the burn
502			e immediately following the inspection required by this Section, the HMIWI
.503 .504		is op	erating properly and make any necessary adjustments.
.504 .505	٦١.	A 11	pointanance adjustments or remains identified desire the section of
506	d)	All II	naintenance, adjustments, or repairs identified during the equipment
507			ection required under this Section shall be completed within 10 days after the action. The owner or operator of an HMIWI may have a longer period of time
508			nich to complete any repairs identified as a result of the inspection required
200		III WI	non to complete any repairs identified as a result of the inspection required

1509		by this Section, provided that it makes this request to the Agency in writing, and
1510		the Agency approves the owner or operator of an HMIWI's request in writing.
1511		
1512	<u>e)</u>	The owner or operator of a small, rural, medium, or large HMIWI subject to the
1513		emission limits under Section 229.125(c) as applicable, or Section 229.126 of this
1514		Part, shall inspect the HMIWI as outlined in subsection (b) of this Section,
1515		according to the following schedule:
1516		
1517		1) An initial equipment inspection shall be conducted by January 1, 2014;
1518		<u>and</u>
1519		
1520		2) An annual equipment inspection shall be conducted by January 1 of each
1521		year thereafter.
1522		
1523	Ð	The owner or operator of an HMIWI subject to the emissions limits under Section
1524		229.125(c) as applicable, or Section 229.126(c) of this Part, shall inspect the air
1525		pollution control devices, according to the following schedule:
1526		
1527		1) An initial air pollution control device inspection shall be conducted by
1528		January 1, 2014; and
1529		
1530		2) An annual air pollution control device inspection shall be conducted by
1531		January 1 of each year thereafter.
1532		
1533	<u>g)</u>	Each air pollution control device inspection, as applicable, shall be conducted to
1534	₽ ⁄	ensure the proper operation of the device and, at a minimum, shall consist of the
1535		following steps:
1536		<u> </u>
1537		1) Where applicable, an inspection of the thermocouples, sorbent feed
1538		systems, and any other monitoring equipment, adjusting applicable
1539		calibrations, as necessary; and
1540		Canolidation and House of the Land
1541		2) A general inspection of the equipment to ensure that it is maintained in
1542		good operating condition.
1543		good operating conditions
1544	<u>h</u>)	All maintenance, adjustments, or repairs identified during an air pollution control
1545	<u>11,7</u>	device inspection required under this Section shall be completed within 10 days
1546		after the inspection. The owner or operator of an HMIWI may have a longer
1547		period of time in which to complete any repairs identified as a result of the
1548		inspection required by this Section, provided that it makes this request to the
1549		Agency in writing and the Agency approves the request in writing.
1550		rigency in writing and the rigency approves the request in writing.
1551	(Source	ce: Amended at 35 Ill. Reg, effective)
1331	(Some	c. Amended at 35 m. reg, effective

1552			
1553			SUBPART I: MONITORING REQUIREMENTS
1554			
1555	Section 229.	166 M	Ionitoring Requirements for <u>AllSmall, Medium, and Large</u> HMIWIs
1556			_ , , , , , , , , , , , , , , , , , , ,
1557	<u>a)</u>	Each	owner or operator of an HMIWI subject to the emissions limits under
1558			ion 229.125(c) as applicable, or Section 229.126(c) of this Part, shall comply
1559			requirements of this Section according to the following schedule:
1560			
1561		<u>1)</u>	Before January 1, 2014, for a small, medium or large HMIWI;
1562			
1563		<u>2)</u>	On and after January 1, 2014, except as provided for in Section
1564			229.115(b)(3) or Section 229.116(c)(4), for a small, medium or large
1565			HMIWI and a rural HMIWI that is equipped with an air pollution control
1566			device.
1567			
1568	<u>b</u> a)	Once	e the initial performance test required by Section 229.142 of this Part has
1569		been	performed, and the site-specific minimum and maximum operating
1570		parar	meter values have been established, the owner or operator of ana small,
1571			um or large HMIWI, as applicable, shall continuously monitor those
1572		parar	neters.
1573			
1574	<u>c</u> b)		owner or operator of ana small, medium or large HMIWI, as applicable, shall
1575		comp	oly with the following monitoring requirements:
1576			
1577		1)	Install, calibrate according to manufacturer's specifications, maintain, and
1578			operate devices or establish methods for monitoring the applicable
579			maximum and minimum operating parameters specified in Appendix B of
580			this Part (unless CEMS are used as a substitute for certain parameters as
581			specified) sosueh that these devices or methods measure and record values
582			for these operating parameters at the frequencies indicated in Appendix B
583			of this Part at all times, except during periods of startup and shutdown;
584		•	
.585		2)	Install, calibrate according to manufacturer's specifications, maintain, and
586			operate a device or establish a method for identifying the use of the bypass
587			stack, including date, time, and duration of use;
588		•	
589		3)	If control equipment other than a dry scrubber followed by a fabric filter, a
590			wet scrubber, or a dry scrubber followed by a fabric filter and a wet
591			scrubber, or a selective noncatalytic reduction system is used to comply
592			with the applicable emissionsemission limits under Section
593			229.125(c)229.125(b) as applicable, or Section 229.126(c) of this Part,
594			install, calibrate according to manufacturer's specifications, maintain, and

1595			operate the equipment necessary to monitor the site-specific operating
1596			parameters developed and approved pursuant to Section 229.142(a)(5) or
1597			(b)(5)Section 229.142(e) of this Part; and
1598			
1599		4)	Record monitoring data at all times during HMIWI operation, except
1600			during the periods of monitoring equipment malfunction, calibration, or
1601			repair. At a minimum, valid monitoring data shall be recorded for 75
1602			percent of the operating hours per day and for 90 percent of the operating
1603			days per calendar quarter that an HMIWI is combusting hospital waste or
1604			medical/infectious waste.
1605			
1606	<u>d</u>)	<u>If an</u>	HMIWI is equipped with an air pollution control device that includes a
1607			c filter and a PM CEMS is not used to demonstrate compliance, the owner or
1608		opera	ator of the HMIWI may use a bag leak detection system to determine
1609		comp	bliance with the PM emissions limit. The owner or operator shall meet the
1610		follo	wing requirements for each bag leak detection system installed:
1611			
1612		1)	Each triboelectric bag leak detection system may be installed, calibrated,
1613			operated, and maintained according to the "Fabric Filter Bag Leak
1614			Detection Guidance," as incorporated by reference in Section 229.104;
1615			
1616		<u>2)</u>	The bag leak detection system shall be certified by the manufacturer as
1617		=-	being capable of detecting PM emissions at concentrations of 10
1618			milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or
1619			less;
1620			10001
1621		<u>3)</u>	The bag leak detection system sensor shall provide an output of relative
1622		<u>2,1</u>	PM loadings;
1623			11/11/00/01/05/01
1624		<u>4)</u>	The bag leak detection system shall be equipped with a device to
1625		11	continuously record the output signal from the sensor;
1626			continuously locold the output signal from the sensor,
1627		<u>5)</u>	The bag leak detection system shall be equipped with an audible alarm
1628		21	system that sounds automatically when an increase in relative PM
1629			emissions over a preset level is detected. The alarm shall be located where
1630			it is easily heard by plant operating personnel;
1631			it is easily heard by blant operating personner.
1632		6)	For positive pressure fabric filter systems, a bag leak detector shall be
		<u>6)</u>	installed in each baghouse compartment or cell;
1633			instance in each bagnouse compartment of cent,
1634		7)	For negative pressure or induced air fabric filters, a bag leak detector shall
1635		<u>7)</u>	
1636			be installed downstream of the fabric filter;
1637			

1638 1639		<u>8)</u>	If multiple bag leak detectors are required, the bag leak detection system's instrumentation and alarm may be shared among detectors;
1640			moramentation and alami may be shared among detectors,
1641		<u>9)</u>	The baseline output shall be established by adjusting the range and the
1642		2.J.	averaging period of the device and establishing the alarm set points and
1643			the alarm delay time according to section 5.0 of the "Fabric Filter Bag
1644			Leak Detection Guidance," as incorporated by reference in Section
1645			229.104;
1646			
1647		<u>10)</u>	Following initial adjustment of the system, the sensitivity or range,
1648		10)	averaging period, alarm set points, or alarm delay time may not be
1649			adjusted. Increasing the sensitivity by more than 100 percent or
1650			decreasing by more than 50 percent over a 365-day period is a violation,
1651			unless the adjustment follows a complete fabric filter inspection that
1652			demonstrates that the fabric filter is in good operating condition. Each
1653			adjustment shall be recorded;
1654			authorit bitair be recorded,
1655		11)	Records of the results of each inspection, calibration, and validation check
1656		<u>,</u>	shall be maintained; and
1657			Mair 50 managed, and
1658		12)	The fabric filter must be operated and maintained so that the bag leak
1659		<u> </u>	detection system alarm is not engaged for more than 5 percent of the total
1660			operating time in a 6-month block reporting period; however, corrective
1661			action must be initiated within 1 hour after the alarm.
1662			action mast be initiated within 1 hour after the alarm.
1663	(Source	e Am	ended at 35 Ill. Reg, effective)
1664	(2011)		
1665	Section 229.1	68 Mo	onitoring Requirements for Rural HMIWIs
1666			
1667	<u>a)</u>	Each o	owner or operator of a rural HMIWI subject to the emissions limits under
1668		Sectio	n 229.126 of this Part shall comply with requirements of this Section
1669			ling to the following schedule:
1670			
1671		<u>1)</u>	Before January 1, 2014, for a rural HMIWI; and
1672			
1673		<u>2)</u>	On and after January 1, 2014, except as provided for in Section
1674			229.115(b)(3) or Section 229.116(c)(4), for a rural HMIWI that is not
1675			equipped with an air pollution control device.
1676			
1677	<u>b</u>)	The ov	wner or operator of each rural HMIWI shall comply with the following
1678			oring requirements:
1679			
1680		<u>l</u> a)	Install, calibrate according to manufacturer's specifications, maintain and
			1

1681			-	te a device measuring and recording the temperature of the
1682				dary chamber on a continuous basis, the output of which shall be
1683			record	led, at a minimum, once every minute of operation;
1684				
1685		<u>2</u> b)		, calibrate according to manufacturer's specifications, maintain, and
1686			-	te a device that automatically measures and records the date, time,
1687			and w	eight of each charge fed into an HMIWI; and
1688				
1689		<u>3</u> e)		d monitoring data at all times during HMIWI operation, except
1690				g periods of monitoring equipment malfunction, calibration, or
1691				. At a minimum, valid monitoring data shall be recorded for 75
1692			percer	nt of the operating hours per day and for 90 percent of the operating
1693				per calendar quarter that an HMIWI is combusting hospital waste or
1694			medic	al/infectious waste.
1695				
1696	(Sour	ce: Am	ended a	at 35 Ill. Reg, effective)
1697				
1698		SUBPA	ART K:	WASTE MANAGEMENT PLAN REQUIREMENTS
1699				
1700	Section 229.1	180 Wa	aste Ma	nagement Requirements for <u>Commercial</u> HMIWIs-Accepting
1701	Waste Gener	rated O	ff-Site	
1702				
1703	a)			operator of any commercial HMIWI that accepts hospital waste or
1704		medic	al/infec	tious waste generated off-site shall:
1705				
1706		1)		de hospital, medical or infectious waste customers with written
1707				nation at least once a year concerning the availability of waste
1708			manag	gement practices for reducing the volume and toxicity of waste to be
1709			incine	erated;- and
1710				
1711		<u>2)</u>		uct training and education programs in waste segregation for each of
1712			the co	mpany's waste generator customers;
1713				
1714		<u>3)</u>		e that each waste generator customer prepares its own waste
1715			<u>manaş</u>	gement plan that includes, at a minimum, the following elements:
1716				
1717			<u>A</u>)	Segregation of recyclable wastes such as paper products, glass,
1718				batteries and metals;
1719				
1720			<u>B)</u>	Segregation of non-recyclable wastes such as polyvinyl chloride
1721				plastics, pharmaceutical waste, and mercury-containing waste; and
1722				
1723			<u>C</u>)	Purchasing recycled or recyclable products;

1724				
1724 1725		<u>4</u> 2)	Suhm	it a waste management plan to the Agency, in accordance with
1726		<i>ユ=)</i>		on 229.184(b) of this Part, that outlines the efforts that will be
1727			under	taken to implement the requirements distribute information as
1728				fied in subsections subsection (a)(1) through (a)(3) of this Section and
1729				fies the information that will be distributed.
1730			Identi	Hes the information that will be distributed.
1731	b)	Daner	or elec	tronic copies of the materials disseminated under this Section shall
1731	0)	-		lable to the Agency upon written request.
1732		oc ma	uc avai	lable to the Agency upon written request.
1734	(Sour	o. Am	ended s	at 35 Ill. Reg, effective)
1735	(Source)	c. All	chaca a	it 35 m. Reg, checuve
1736	SU	BPART	L: RE	ECORDKEEPING AND REPORTING REQUIREMENTS
1737				
1738	Section 229.1	82 Re	cordke	eping Requirements
1739				C 173 473777 11 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1740	a)			operator of an HMIWI subject to the emissionsemission limits
1741		under	Subpar	t E of this Part shall maintain records of the following information:
1742		4.	TTI.	
1743		1)	The c	alendar date of each record;
1744		•	rm 0	
1745		2)	The fo	ollowing data, where applicable:
1746				
1747			A)	Concentrations of all applicable pollutants listed in Section
1748				229.125(a) or (c), or in Section 229.126(a) or (c) of this Part (as
1749				determined by the CEMS, if applicable), and any measurements of
1750				opacity as required under Section 229.125(b), (d), or (f) or Section
1751				229.126(b) or (d); Concentrations of all applicable pollutants listed
1752				in Section 229.125(b) or 229.126(b) of this Part (as determined by
1753				the CEMS, if applicable) and any measurements of opacity as
1754				required under Section 229.125(e) or 229.126(e);
1755				***************************************
1756			B)	HMIWI charge dates, times and weights, and hourly charge rates;
1757			~ ``	70 01 1 01 1 1 1 01 1 01 1 1 1 1 1 1 1 1
1758			C)	If a fabric filter is used, the fabric filter inlet temperatures during
1759				each minute of operation;
1760				
1761			D)	The amount and type of dioxin/furan sorbent used during each
1762				hour of operation;
1763				
1764			E)	The amount and type of Hg sorbent used during each hour of
1765				operation;
1766				

1769 1770 1771 1771 1772 1773 1774 1775 1776 1777 1778 1G) The secondary chamber temperature recorded during each minute of operation; 1779 1779 1778 1779 1780 1781 1781 1781 1781 1781 1784 1 If a selective noncatalytic reduction system is used to comply, the minimum secondary chamber temperature recorded during each minute of operation; 1781 1782 1783 1784 1785 1786 1786 1787 1788 LJ) The horsepower or amperage to the wet scrubber during each minute of operation; 1786 1787 1788 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
amount and type of NO _X reagent used during each hour of operation; H) If a selective noncatalytic reduction system is used to comply, the minimum secondary chamber temperature recorded during each minute of operation; The secondary chamber temperatures recorded during each minute of operation; H) The secondary chamber temperatures recorded during each minute of operation; IG) The secondary chamber temperatures recorded during each minute of operation; The liquor flow rate to the wet scrubber inlet during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; LJ) Any pressure drop across the wet scrubber system during each minute of operation;
amount and type of NO _X reagent used during each hour of operation; 1772 1773 1774 H) If a selective noncatalytic reduction system is used to comply, the minimum secondary chamber temperature recorded during each minute of operation; 1776 1777 1778 IG) The secondary chamber temperatures recorded during each minute of operation; 1780 1781 IH) The liquor flow rate to the wet scrubber inlet during each minute of operation; 1782 1783 1784 KI) The horsepower or amperage to the wet scrubber during each minute of operation; 1786 1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1772 1773 1774 18
1773 1774 H) If a selective noncatalytic reduction system is used to comply, the minimum secondary chamber temperature recorded during each minute of operation; 1777 1778 1G) The secondary chamber temperatures recorded during each minute of operation; 1780 1781 1781 1781 1781 1782 1783 1784 1785 1786 1787 1786 1787 1788 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
minimum secondary chamber temperature recorded during each minute of operation; The secondary chamber temperatures recorded during each minute of operation; The secondary chamber temperatures recorded during each minute of operation; The liquor flow rate to the wet scrubber inlet during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; Any pressure drop across the wet scrubber system during each minute of operation;
minimum secondary chamber temperature recorded during each minute of operation; The secondary chamber temperatures recorded during each minute of operation; The secondary chamber temperatures recorded during each minute of operation; The liquor flow rate to the wet scrubber inlet during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; Any pressure drop across the wet scrubber system during each minute of operation;
minute of operation; 1777 1778 IG) The secondary chamber temperatures recorded during each minute of operation; 1780 1781 1781 1782 1782 1783 1784 KI) The horsepower or amperage to the wet scrubber during each minute of operation; 1785 1786 1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1777 1778 1779 1780 1780 1780 1781 1781 1781 1782 1782 1783 1784 1785 1785 1786 1787 1787 1788 IG) The secondary chamber temperatures recorded during each minute of operation; 17 be liquor flow rate to the wet scrubber inlet during each minute of operation; 17 be horsepower or amperage to the wet scrubber during each minute of operation; 1787 1787 1788 1999 1999 1999 1999 1999
of operation; IT80 IT81 IH) The liquor flow rate to the wet scrubber inlet during each minute of operation; IT82 IT83 IT84 IT85 IT85 IT86 IT87 IT88 Any pressure drop across the wet scrubber system during each minute of operation;
of operation; The liquor flow rate to the wet scrubber inlet during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; The horsepower or amperage to the wet scrubber during each minute of operation; Any pressure drop across the wet scrubber system during each minute of operation;
1780 1781 1781 1782 1783 1784 1785 1786 1787 1788 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
operation; The horsepower or amperage to the wet scrubber during each minute of operation; Any pressure drop across the wet scrubber system during each minute of operation;
operation; 1783 1784 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1783 1784 1785 1786 1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1784 <u>KI</u>) The horsepower or amperage to the wet scrubber during each minute of operation; 1786 1787 <u>LJ</u>) Any pressure drop across the wet scrubber system during each minute of operation;
minute of operation; 1786 1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1786 1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1787 LJ) Any pressure drop across the wet scrubber system during each minute of operation;
1788 minute of operation;
· r · · · · · · · · · · · · · · · · · ·
1790 \underline{MK}) The temperature at the outlet from the wet scrubber during each
1791 minute of operation;
1792
1793 NE) The pH at the inlet to the wet scrubber during each minute of
1794 operation;
1795
1796 OM) Identification of any use of the bypass stack, including dates,
times, and the duration of such use; and
1798
1799 PN) For sources complying with Section 229.166(c)(b)(3) of this Part,
1800 all operating parameter data collected monitored; and
1801
1802 Q) If a bag leak detection system is used, maintain records of the
1803 system alarm, the time of the alarm, the time corrective action was
initiated and completed, and a brief description of the cause of the
1805 alarm and the corrective action taken, as applicable;
1806
1807 3) Identification of any calendar days for which data on emissionsemission
rates or operating parameters specified under subsection (a)(2) of this
Section have not been obtained, with an identification of the

1810 1811				ensemission rates or operating parameters not measured, reasons for aining data, and a description of the corrective actions taken;
1812				,
1813		4)	Identifi	cation of any malfunctions, including the calendar date, the time
1814		.,		ration, and a description of the malfunction and of the corrective
1815				aken to remedy it;
1816				
1817		5)	Identifi	cation of calendar days for which data on emissionsemission rates
1818		-,		ating parameters specified under subsection (a)(2) of this Section
1819			-	ed the applicable limits, with a description of the exceedences,
1820				for such exceedences, and a description of the corrective actions
1821			taken;	
1822				
1823		6)	The res	ults of the initial, annual, and any other subsequent performance
1824		٠,		nducted to determine compliance with the applicable emissions
1825				nd/or to establish or re-establish operating parameters, as
1826				ble, and a description, including sample calculations, of how the
1827				ng parameters were established or re-established, if applicable;
1828			оригии.	,
1829		7)	Records	s of calibration of any monitoring devices as required under
1830		• •		is $229.166(c)(b)(1)$, (2) and (3) and $229.168(a)$ and (b)(1) and (2) of
1831			this Par	
1832			tino i cu	.,
1833		8)	Identifi	cation of the names of all HMIWI operators who have met the
1834		0)		for qualification under Section 229.170 of this Part, including:
1835			OTILOTIA	for qualification affact Section 227.170 of this farty merianing.
1836			A)	Documentation of training and the dates of the training; and
1837			11)	Doumientation of duming and the ways of the duming, and
1838			B)	The date of the initial review and all subsequent annual reviews of
1839				the information specified in Section 229.172(a) of this Part, as
1840				required by Section 229.172(b) of this Part.
1841				
1842	b)	The o	wner or o	operator of an HMIWI claiming an exemption from the
1843	0)			sion limits in this Part pursuant to Section 229.110(b) of this Part
1844				remporaneous records identifying each period of time when only
1845			_	aste, low-level radioactive waste, or chemotherapeutic waste is
1846			_	ing the calendar date and duration of such periods.
1847		Cuille	.,v.uu	
1848	c)	The o	wner or o	operator of an HMIWI claiming an exemption pursuant to Section
1849	•,			his Part shall keep records on a calendar quarter basis
1850				that only pathological waste, low-level radioactive waste, or
1851				atic waste is burned.
1852		7414111		
-				

1853	d)	The owner or operator of a co-fired combustor claiming an exemption from the
1854		emissionsemission limits under Section 229.110(d) of this Part shall maintain
1855		records on a calendar quarter basis of the relative weight of hospital waste and/or
1856		medical/infectious waste, and of all other fuels or waste combusted.
1857		
1858	<u>e)</u>	The owner or operator of each HMIWI subject to the emissions limits under
1859		Section 229.125(c) or Section 229.126 of this Part shall maintain records of the
1860		annual equipment inspection required under Section 229.162 of this Part.
1861		
1862	Ð	The owner or operator of each HMIWI subject to the emissions limits under
1863		Section 229.125(c) or 229.126(c) of this Part shall maintain records of the annual
1864		air pollution control device inspection required under Section 229.162 of this Part
1865		
1866	e)	The owner or operator of each rural HMIWI shall maintain records of the annual
1867	•	equipment inspections required under Section 229.162 of this Part, any required
1868		maintenance, and any repairs not completed within 10 days after an inspection or
1869		the time frame established by the Agency.
1870		• • •
1871	g)	If a bag leak detection system is used, the owner or operator shall maintain
1872		records of the system alarm, the time of the alarm, the time corrective action was
1873		initiated and completed, a brief description of the cause of the alarm and the
1874		corrective action taken, as applicable.
1875		
1876	<u>h)</u>	The owner or operator of each HMIWI, when applicable, shall maintain records
1877		of any required maintenance, adjustments, or repairs identified during an
1878		inspection required under Section 229.162 of this Part not completed within 10
1879		days after the inspection or the timeframe approved in writing by the Agency.
1880		
1881	<u>i</u> £)	All records required under this Section shall be maintained onsite for a period of 5
1882		years, in either paper copy or electronic format, unless an alternative format has
1883		been approved by the Agency in a permit condition.
1884		
1885	j g)	All records required to be maintained pursuant to this Section shall be made
1886		available to the Agency upon request.
1887		
1888	(Source	e: Amended at 35 Ill. Reg, effective)
1889		
1890	Section 229.1	84 Reporting Requirements
1891		
1892	a)	The facilities manager and the responsible official for the affected source shall
1893		certify each report required under this Section.
1894	• •	
1895	b)	The owner or operator of an HMIWI shall submit to the Agency the results of any

1896 performance test conducted on the HMIWI within 60 days after conducting the 1897 performance test. The information submitted with the initial performance test 1898 required by Section 229.142 of this Part shall include: 1899 1900 1) Before January 1, 2014, except as provided for in Section 229.115(b)(3) or 1901 Section 229.116(c)(4), as applicable, the test data and values for the site-1902 specific operating parameters established pursuant to Section 229.142(a)(4), (5) or (6), as applicable, and a description, including 1903 1904 sample calculations, of how the operating parameters were established 1905 during the initial performance test for an HMIWI subject to the emissions limits under Section 229.125(a) or 229.126(a) of this Part; The test data 1906 1907 and values for the site-specific operating parameters established for an 1908 HMIWI pursuant to either Section 229.142(d), (e) or (f) of this Part, as 1909 applicable; and 1910 1911 2) On and after January 1, 2014, the test data and values for the site-specific 1912 operating parameters established pursuant to Section 229.142(b)(3), (4) or (5), as applicable, and a description, including sample calculations, of how 1913 1914 the operating parameters were established during the initial performance 1915 test for an HMIWI subject to the emissions limits under Section 1916 229.125(c) or Section 229.126(c) of this Part; 1917 1918 <u>3)</u> If a bag leak detection system is used, analysis and supporting 1919 documentation demonstrating conformance with guidance and 1920 specifications for bag leak detection systems in Section 229.166(d)(1); and 1921 1922 <u>4</u>) A copy of the waste management plan required under Subpart K of this 1923 Part. 1924 1925 All owners or operators of HMIWIs shall submit the information specified under c) 1926 this subsection (c) to the Agency, as follows: All owners or operators of HMIWIs 1927 shall submit the information specified under this subsection (e) to the Agency by 1928 September 15, 2001 and by September 15 of each year thereafter. Once an 1929 HMIWI is issued a CAAPP permit, the owner or operator of an HMIWI shall 1930 submit these reports semi-annually, in accordance with subsection (d) of this 1931 Section. The annual report shall include the following information: 1932 1933 1) By September 15, 2001, and by September 15 of each year thereafter, for 1934 an HMIWI subject to the emissions limits under Section 229.125(a) or 1935 229.126(a) of this Part; 1936 1937 2) By January 1, 2014, and by January 1 of each year thereafter, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as 1938

1939		applica	able, for an HMIWI subject to the emissions limits under Section					
1940		229.125(c) or (e) or Section 229.126(c) of this Part; and						
1941								
1942	<u>3)</u>	The annual report required under subsection (c)(1) or (2) of this Section						
1943			nclude the following information:					
1944								
1945		<u>A</u> 1)	Before January 1, 2014, the values for site-specific operating					
1946			parameters established pursuant to Section 229.142(a)(4), (5) or (6)					
1947			of this Part, as applicable; The values for site-specific operating					
1948			parameters established pursuant to either Section 229.142(d), (e) or					
1949			(f) of this Part;					
1950								
1951		<u>B)</u>	On and after January 1, 2014, except as provided for in Section					
1952			229.115(b)(3) or Section 229.116(c)(4), as applicable, the values					
1953			for site-specific operating parameters established pursuant to					
1954			Section 229.142(b)(3), (4) or (5) of this Part, as applicable;					
1955								
1956		<u>C</u> 2)	The highest maximum operating parameter and the lowest					
1957			minimum operating parameter, as applicable, for each operating					
1958			parameter, recorded for the calendar year being reported <u>pursuant</u>					
1959			to Section 229.142(a)(4), (5) or (6), or Section 229.142(b)(3), (4)					
1960			or (5) of this Part, as applicable; and for the calendar year					
1961			preceding the year being reported;					
1962								
1963		<u>D)</u>	The highest maximum operating parameter and the lowest					
1964			minimum operating parameter, as applicable, for each operating					
1965			parameter recorded pursuant to Section 229.142(a)(4), (5) or (6) or					
1966			Section 229.142(b)(3), (4) or (5) of this Part, as applicable, for the					
1967			calendar year preceding the year being reported, in order to					
1968			provide the Agency with a summary of the performance of the					
1969			affected facility over a 2-year period;					
1970								
971		<u>E</u> 3)	Any information recorded pursuant to Section 229.182(a)(3)					
972		_ ,	through (5) of this Subpart for the calendar year being reported and					
.973			for the calendar year preceding the year being reported;					
974			, i de jeriou,					
975		<u>F</u> 4)	If no exceedences or malfunctions were recorded under Section					
976		- /	229.182(a)(3) through (a)(5) of this Subpart for the calendar year					
977			being reported, a statement that no exceedences occurred during					
978			the reporting period; and					
979								
980		<u>G</u> 5)	Any use of the bypass stack, the duration of use, the reason for					
981			malfunction, and the corrective actions taken.					

1982		
1983	d)	Once an HMIWI is issued a CAAPP permit, the owner or operator of the HMIWI
1984		shall submit the reports required under subsection (c) of this Section
1985		semiannually. The semiannual reports must be submitted within 60 days
1986		following the end of the reporting period. The first semiannual reporting period
1987		ends on June 30 of each year and the second semiannual reporting period ends on
1988		December 31 of each year. Once the owner or operator of an HMIWI is required
1989		to submit semiannual reports, these reports must be submitted within 60 days
1990		following the end of the reporting period. The first semiannual reporting period
1991		ends on March 15 of each year and the second semiannual reporting period ends
1992		on September 15 of each year.
1993		
1994	e)	The owner or operator of each rural HMIWI subject to the emissions emission
1995		limits under Section 229.126(b) of this Part, shall submit an annual report
1996		containing all information listed in subsections (b) and (c) of this Section by no
1997		later than 60 days following the year in which the data was collected. Subsequent
1998		reports shall be sent no later than 12 calendar months following the previous
1999		report. Once the unit is subject to permitting requirements under the CAAPP, the
2000		owner or operator shall submit these reports semiannually in accordance with the
2001		schedule specified in subsection (d) of this Section.
2002		
2003	(Sou	rce: Amended at 35 Ill. Reg, effective)

Section 229.APPENDIX B Operating Parameters to be Monitored and Minimum Measurement and Recording Frequencies

An "X" in any box in this matrix means that measurement of that parameter is required.

MININ	MUM FREQUE	NCY	CONTROL SYSTEM				
Operating Parameters	<u>Data</u> <u>Measurement</u>	<u>Data</u> <u>Recording</u>	Dry Scrubber Followed by Fabric Filter	Wet Scrubber	Dry Scrubber Followed by Fabric Filter and Wet Scrubber	Selective Noncatalytic Reduction System	
Maximum Charge Rate ¹	Continuous	Once per hour	X	X	X	<u>X</u>	
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	X	
Minimum Dioxin/Furan Sorbent Flow Rate	<u>Hourly</u>	Once per hour	X		X		
Minimum HCl Sorbent Flow Rate	Hourly	Once per hour	X		<u>X</u>		
Minimum Reagent Flow Rate	<u>Hourly</u>	Once per hour				X	
Minimum Hg Sorbent Flow Rate	Hourly	Once per hour	<u>X</u>		<u>X</u>		
Minimum Pressure Drop Across	Continuous	Once per minute		X	X		

the Wet Scrubber or Minimum Horsepower or Amperage to Wet					
Scrubber					
<u>Minimum</u>	<u>Continuous</u>	Once per	<u>X</u>	<u>X</u>	
<u>Scrubber</u>		<u>hour</u>			
Liquor Flow			•		
Rate					
Minimum	Continuous	Once per	<u>X</u>	<u>X</u>	
Scrubber		<u>hour</u>			
Liquor pH					

For batch HMIWIs, record the charge per batch.

2009 2010

MIN	IMUM FREQUI	ENCY	CONTROL SYSTEM			
Operating Parameters	Data Measurement	Data Recording	Dry Serubber Followed by Fabric Filter	Wet Serubber	Dry Serubber Followed by Fabric Filter and Wet Serubber	
Maximum ¹ Charge Rate	Continuous	Once per hour	X	X .	X	
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	Hourly	Once per hour	X		X	

Flow Rate					
Minimum Hg	Hourly	Once per hour	X		X
Sorbent Flow					
Rate					
Minimum	Continuous	Once per		X	X
Pressure Drop		minute			
Across the					
Wet Scrubber					
or Minimum					
Horsepower					
or Amperage					
to Wet					
Serubber		_		_	
Minimum	Continuous	Once per		X	X
Serubber		minute			
Liquor Flow					
Rate	<u></u>				
Minimum	Continuous	Once per		X	X
Scrubber		minute			
Liquor pH					

2011		
2012	¹ For batch HMIWIs, record the charge per batch.	
2013		
2014	(Source: Amended at 35 Ill. Reg, effective _	

Section 229.APPENDIX C Reference Test Methods and Procedures for Performance 2015 2016 Tests 2017 2018 The following test methods and procedures shall be used as specified in Section 229.140(e) of this Part, when conducting any performance test for the purpose of demonstrating compliance 2019 2020 with the emissionsemission limits established under this Part. 2021 2022 a) All performance tests shall consist of a minimum of 3 test runs conducted under 2023 representative operating conditions. The minimum sample time of 1 hour per test 2024 run shall be used unless otherwise indicated. In order to demonstrate compliance 2025 with the emissionsemission limits set forth in Subpart E of this Part, the arithmetic 2026 average of all 3 performance test runs shall be used. 2027 2028 b) Method 1, at 40 CFR 60, incorporated by reference at Section 229.104(d) of this 2029 Part, shall be used to select the sampling location and number of traverse points. 2030 2031 c) Method 2, at 40 CFR 60, shall be used to determine average gas density, as well 2032 as to measure gas velocity. 2033 2034 Method 3, 3A, or 3B, at 40 CFR 60, shall be used for gas composition analysis, d) 2035 including measurement of oxygen concentration. Method 3, 3A or 3B, at 40 CFR 2036 60, shall be used simultaneously with each of the other reference methods. As an 2037 alternative to Method 3B, ASME PTC-19-10-1981-Part 10 may be used. 2038 2039 d) Method 3 or 3A, at 40 CFR 60 shall be used for gas composition analysis. 2040 including measurement of oxygen concentration. Method 3 or 3A, at 40 CFR 60. 2041 shall be used simultaneously with each reference method. 2042 The pollutant concentrations shall be adjusted to 7 percent oxygen using the 2043 e) following equation: 2044 2045 2046 $C_{adi} = C_{meas} (20.9-7)/(20.9-\%O_2)$ 2047 Where: 2048 C_{adi} pollutant concentration adjusted to 7 percent oxygen: C_{meas} pollutant concentration measured on a dry basis (20.9-7)= 20.9 percent oxygen - 7 percent oxygen (defined oxygen corrective basis); 20.9 oxygen concentration in air, percent; and $%O_2$ = oxygen concentration measured on a dry basis, percent.

2050	<u>f</u>)	Method 5, 26A, or 29, at 40 CFR 60, shall be used to measure PM emissions. As
2051		an alternative, a PM CEMS may be used in determining compliance with PM
2052		emissions using a 12-hour rolling average, calculated each hour as the average of
2053		the previous 12 operating hours.
2054		
2055	f)	Method 5 or 29, at 40 CFR 60 shall be used to measure particulate matter
2056		emissions.
2057		
2058	<u>g)</u>	Method 7 or 7E, at 40 CFR 60, shall be used to measure NO _X emissions.
2059		
2060	<u>h)</u>	Method 6 or 6C, at 40 CFR 60, shall be used to measure SO ₂ emissions.
2061		
2062	<u>ig</u>)	Method 9, at 40 CFR 60, shall be used to measure stack opacity. As an
2063	-	alternative, the use of a bag leak detection system or a PM CEMS to demonstrate
2064		compliance with the PM standards is considered demonstrative of compliance
2065		with the opacity requirements.
2066		
2067	j h)	Method 10 or 10B, at 40 CFR 60, shall be used to measure CO emissions. As an
2068		alternative, a CO CEMS may be used to measure CO emissions.
2069		
2070	<u>k)</u>	Method 22, at 40 CFR 60, shall be used to measure fugitive ash emissions.
2071		
2072	<u>ļi</u>)	Method 23, at 40 CFR 60, shall be used to measure total dioxin/furan emissions.
2073	-,	As an alternative, the facility may elect to sample total dioxins/furans by
2074		installing, calibrating, maintaining, and operating a continuous automated
2075		sampling system for monitoring dioxin/furan emissions. The minimum sample
2076		time for Method 23 sampling shall be 4 hours per test run. If the affected facility
2077		has selected the TEQ for dioxin/furans (set out in Appendix A of this Part), as
2078		provided under Section 229.125(b) or 229.126(b) of this Part, whichever is
2079		applicable, the following procedures shall be used to determine compliance:
2080		
2081		1) Measure the concentration of each dioxin/furan tetra-through-octa-
2082		congener emitted using Method 23;
2083		
2084		2) For each dioxin/furan congener measured in accordance with subsection
2085		(i)(1) of this Section, multiply the congener concentration by its
2086		corresponding TEQ factor specified in Appendix A of this Part; and
2087		
2088		3) Sum the products calculated in accordance with subsection (i)(2) of this
2089		Section to obtain the total concentration of dioxin/furans emitted in terms
2090		of TEQ.
2091		
2092	<u>m</u> j)	Method 26 or 26A, at 40 CFR 60, shall be used to measure HCl emissions. As ar
<u>-</u>	===;/	· —

2093 alternative, an HCl CEMS may be used to measure HCl emissions. Before January 1, 2014, if If the affected facility has selected the percentage reduction 2094 standard for HCl as provided under Section 229.125(a)(b) or 229.126(a)(b) of this 2095 Part, whichever is applicable, the percentage reduction in HCl emissions (%R_{HCl}) 2096 is computed using the following formula: 2097 2098 $(\%R_{HCI}) = ((E_i - E_0)/E_i) \times 100$ 2099 2100 2101 Where: 2102 %R_{HCI} = percentage reduction of HCI emissions achieved; E_{i} = HCI emissions concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis); and E_{o} = metal emissions concentration (Pb, Cd, or Hg) measured at the control device outlet, corrected to 7 percent oxygen (dry basis). 2103 Method 29, at 40 CFR 60, shall be used to measure Pb, Cd, and Hg emissions. As 2104 <u>n</u>k) an alternative, ASTM D6784-02 may be used to measure Hg emissions; a multi-2105 metals CEMS or Hg CEMS may be used to measure Pb, Cd, and Hg emissions; or 2106 the facility may elect to sample Hg by installing, calibrating, maintaining, and 2107 operating a continuous automated sampling system for monitoring Hg emissions. 2108 Before January 1, 2014, if If the affected facility has selected the percentage 2109 reduction standards for metals as provided in Section 229.125(a)(b) or 2110 229.126(a)(b) of this Part, whichever is applicable, the percentage reduction in 2111 emissions (%R_{metal}) is computed using the following formula: 2112 2113 $(\%R_{\text{metal}}) = ((E_i - E_0)/E_i) \times 100$ 2114 2115 2116 Where: 2117 = percentage reduction of metal emissions (Pb, Cd, or Hg) achieved; E. = metal emissions concentration (Pb, Cd, or Hg) measured at the control device inlet, corrected to 7 percent oxygen (dry basis); and = metal emissions concentration (Pb, Cd, or Hg) measured at E_{O} the control device outlet, corrected to 7 percent oxygen (dry basis). 2118 (Source: Amended at 35 Ill. Reg. _____, effective _____) 2119

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: GENERAL PROVISIONS CHAPTER I: POLLUTION CONTROL BOARD

SUBCHAPTER C: EMISSION STANDARDS AND LIMITATIONS

FOR STATIONARY SOURCES

PART 229

HOSPITAL/MEDICAL/INFECTIOUS WASTE INCINERATORS

SUBPART A: GENERAL PROVISIONS

Section

229.100 Abbreviations 229.102 Definitions

229.104 Incorporations by Reference

SUBPART B: APPLICABILITY

Section

229.110 General Applicability

229.112 Exemptions

SUBPART C: COMPLIANCE SCHEDULES

Section

229.115 Compliance Schedules for HMIWIs That Will Continue to Operate

229.116 Compliance Schedules for HMIWIs That Will Shut Down

SUBPART D: CAAPP PERMIT REQUIREMENTS

Section

229.120 CAAPP Permit Requirements

SUBPART E: EMISSIONS LIMITS

Section

229.125 Emissions Limits for Small, Medium, and Large HMIWIs

229.126 Emissions Limits for Rural HMIWIs

SUBPART F: EXCEPTIONS FROM EMISSION LIMITS (Repealed)

Section

229.130 Operation During Periods of Startup, Shutdown, or Malfunction

(Repealed)

SUBPART G: METHODS AND PROCEDURES FOR PERFORMANCE TESTING

Section

229.140 Methods and Procedures for Performance Testing

SUBPART H: COMPLIANCE REQUIREMENTS

Section

229.142 Initial Performance Testing and Establishment of Operating

Parameters for All HMIWIS

229.144 Subsequent Performance Testing for All HMIWIS

229.146 Annual Testing for Opacity

```
Annual Performance Testing for All Small, Medium and Large HMIWIS
229.148
           Compliance with Operating Parameter Values
229.150
           Compliance Requirements for HMIWIS Using CEMS
229.152
           Violations by HMIWIs Equipped with a Dry Scrubber Followed by a
229.154
Fabric Filter
229.156 Violations by HMIWIs Equipped with a Wet Scrubber
         Violations by HMIWIs Equipped with a Dry Scrubber Followed by a
229.158
                       and a Wet Scrubber
Fabric Filter
229.160 Compliance Requirements for Rural HMIWIs
          Inspection Requirements for All Rural HMIWIs
229.162
         Optional Performance Testing to Address Actual or Potential
229.164
Violations
SUBPART I: MONITORING REQUIREMENTS
Section
           Monitoring Requirements for All Small, Medium, and Large HMIWIS
229.166
           Monitoring Requirements for Rural HMIWIs
229.168
SUBPART J: REQUIREMENTS FOR HMIWI OPERATORS
Section
           Operator Training and Qualification Requirements
229.170
           Documentation To Be Maintained On-Site for Employees Operating
229.172
HMIWIS
SUBPART K: WASTE MANAGEMENT PLAN REQUIREMENTS
Section
           Waste Management Plan Requirements for Hospitals Using On-Site
229.176
Incinerators
          Waste Management Plan Requirements for Hospitals Transporting Waste
229.178
Off-Site to an HMIWI
          Waste Management Requirements for Commercial HMIWIs Accepting Waste
229.180
Generated Off Site
          Waste Management Plan Requirements for Other HMIWIS
229.181
SUBPART L: RECORDKEEPING AND REPORTING REQUIREMENTS
Section
           Recordkeeping Requirements
229.182
           Reporting Requirements
229.184
                             Toxic Equivalency (TEQ) Factors
229. Appendix APPENDIX A
229. Appendix APPENDIX B Operating Parameters to Be Monitored and Minimum
Measurement and Recording Frequencies
229. Appendix APPENDIX C Reference Test Methods and Procedures for Performance
Tests
AUTHORITY: Implementing Sections 10, 39 and 39.5 and authorized by Section 27
of the Environmental Protection Act +[415 ILCS 5/10, 27, 39 and 39.5+].
SOURCE: Adopted at 23 Ill. Reg. 6477, effective May 15, 1999; amended in R11-20
at 35 Ill. Reg. _____, effective _____
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SUBPART A: GENERAL PROVISIONS

Section 229.100 Abbreviations

The following abbreviations have been used in this part: Part:

ActIllinois Environmental Protection Act [415 ILCS 5] AgencyIllinois Environmental Protection AgencyBoardIllinois Pollution Control BoardBtuBritish thermal unitsCAAPPClean Air Act Permit Program [415 ILCS 5/39.5] CdCadmiumCEMSContinuous Emissions Monitoring SystemCOCarbon monoxidedscfdry standard cubic footdscmdry standard cubic meterft3cubic feetgrSystemCOcarbon monoxideCdcadmiumgr/103 dscfgrains per thousand dry standard cubic feetgr/109 dscfgrains per billion dry standard cubic feetgr/dscfgrains per dry standard cubic footHClHydrogen chlorideHgMercuryHMIWIHospital/Medical/Infectious Waste IncineratorhrhourlbfootHClhydrogen chlorideHgmercuryHMIWIhospital/medical/infectious waste incineratorhrhourlb(s)pound(s)mg/dscmmilligrams per dry standard cubic metermg ng/dscmmilligramsnanogramsmeterng/dscmnanograms per dry standard cubic meterNOxNitrogen OxidePbLeadPMParticulateOxidePbleadPMparticulate matterppmvparts per million by volumeSO2Sulfur dioxideTEQToxic equivalent equivalencyUSEPAUnitedDioxideTEOtoxic equivalentUSEPAUnited States Environmental Protection Agency (Source: Amended at 35 Ill. Reg._____, effective _____)

Section 229.102 Definitions

The definitions contained in this Section apply only to the provisions of this Part. Unless otherwise defined herein and unless a different meaning of a term is clear from its context, the definitions of terms used in this Part shall have the meanings specified for those terms in 415 ILCS 5/39.5, 35 Ill. Adm. Code 201.102 or 35 Ill. Adm. Code 211.

"Bag leak detection system" means an instrument that is capable of monitoring PM loadings in the exhaust of a fabric filter in order to detect bag failures. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, lightscattering, light-transmittance, or other effects to monitor relative PM loadings.

"Batch HMIWI" means an HMIWI that is designed in such a way that neither waste charging nor ash removal can occur during combustion.

"Biologicals" means preparations made from living organisms and their products, including vaccines, cultures, etc., intended for use in diagnosing, immunizing, or treating humans or animals or in research pertaining thereto.

"Body fluids" means liquid emanating or derived from humans and limited to: blood; dialysate; amniotic, cerebrospinal, synovial, pleural, peritoneal and pericardial fluids; semen and vaginal secretions.

"Bypass stack" means an alternative stack used for discharging combustion gases to the atmosphere primarily to avoid severe damage to an air pollution control device or other equipment.

"Charge" means the act of placing waste into an HMIWI for incineration.

"Chemotherapeutic waste" means waste material resulting from the production or use of antineoplastic agents used for the purpose of stopping or reversing the growth of malignant cells.

"Co-fired combustor" means a unit combusting hospital waste or medical/infectious waste with other fuels or wastes (e.g., coal, municipal solid waste) and subject to an enforceable requirement limiting the unit to combusting a fuel feed stream, of which 10 percent or less of the weight is comprised, in aggregate, of hospital waste and medical/infectious waste as measured on a calendar quarter basis. For purposes of this definition, pathological waste, chemotherapeutic waste, and low-level radioactive waste are considered "other" wastes when calculating the percentage of hospital waste and medical/infectious waste combusted.

"Commercial HMIWI" means an HMIWI which that offers incineration services for hospital/medical/ infectious waste generated offsite by firms unrelated to the firm that owns the HMIWI.

"Continuous emission monitoring system" or "CEMS" means a monitoring system for continuously measuring and recording the emissions of a pollutant from an affected facility.

"Continuous HMIWI" means an HMIWI that is designed to allow waste charging and ash removal during combustion.

"Dioxins/furans" means the total emissions of any tetra- through octachlorinated dibenzo-para-dioxins and dibenzofurans, as measured by EPA Reference Method 23, incorporated by reference in Section 229.104(d) of this Subpart.

"Dry scrubber" means an add-on air pollution control system that injects dry alkaline sorbent (dry injection) or sprays an alkaline sorbent (spray dryer) to react with and neutralize acid gases in an HMIWI exhaust stream, forming a dry powder material.

"Fabric filter" means an add-on air pollution control system that removes PM and nonvaporous metals emissions by passing flue gas through filter bags.

"Facilities manager" means the individual in charge of purchasing, maintaining, and operating an HMIWI, or the owner's or operator's representative responsible for the management of an HMIWI. Alternative titles may include director of facilities or vice president of support services.

"High air phase" means the stage of the batch operating cycle when the primary chamber reaches and maintains maximum operating temperatures.

"Hospital" means any facility that has an organized medical staff, maintaining at least 6 inpatient beds and where the primary function of the facility is to provide diagnostic and therapeutic patient services and continuous nursing care primarily to human inpatients who are not related and who stay on average in excess of 24 hours per admission. This definition does not include facilities maintained for the sole purpose of providing nursing or convalescent care to human patients who generally are not acutely ill but who require continuing medical supervision.

"Hospital/medical/infectious waste incinerator" or "HMIWI" means any device that combusts any amount of hospital waste or medical/infectious waste.

"Hospital waste" means discards generated at a hospital, except unused items returned to the manufacturer. The definition of hospital waste does not include human corpses, remains, or anatomical parts that are intended for interment or cremation.

"HMIWI operator" means any person who operates, controls, or supervises the day-to-day operation of an HMIWI.

"Infectious agent" means any organism that is capable of being communicated by invasion and multiplication in body tissues and is also capable of causing disease or adverse health impacts in humans.

"Intermittent HMIWI" means an HMIWI that is designed to allow waste charging, but not ash removal, during combustion.

"Large HMIWI" means:

An HMIWI whose maximum design waste burning capacity is more than 500 lbs per hour; or

A continuous or intermittent HMIWI whose maximum charge rate is more than 500 lbs per hour; or

A batch HMIWI whose maximum charge rate is more than 4,000 lbs per day.

"Low-level radioactive waste" means waste that contains radioactive nuclides emitting primarily beta or gamma radiation, or both, in concentrations or quantities that exceed applicable Federal or State standards for unrestricted release. Low-level radioactive waste is not high-level radioactive waste, spent nuclear fuel, or by-product material as defined by the Atomic Energy Act of 1954 (42 U.S.C.USC 2014(e)(2)).

"Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or of a process to operate in a normal or usual manner. Failures that are caused, in part, by poor maintenance or careless operation are not malfunctions.

"Maximum charge rate" means:

For continuous and intermittent HMIWI, 110 percent of the lowest 3-hour average charge rate measured during the most recent performance test demonstrating compliance with all applicable emission limits specified in Subpart E of this Part.

For batch HMIWI, 110 percent of the lowest daily charge rate measured during the most recent performance test demonstrating compliance with all applicable emission limits specified in Subpart E of this Part.

"Maximum design waste burning capacity" means:

For intermittent and continuous HMIWI:

C=PV x 15,000/8,500

Where: C = C=HMIWI capacity, lb/hr

PV = hrPv=primary chamber volume, ft3 15,000 = 315,000 = primary chamber heat release rate factor, Btu/ft3/hr 8,500 = standard waste heating value, Btu/lb;

For batch HMIWI:

C=PV x 4.5/8

Where:

C=HMIWI capacity, lb/hr

PV = hrPv=primary chamber volume, ft3 4.5 =

34.5=waste density factor, lb/ft3 8 = 38=typical hours of operation of a batch HMIWI, hours.

"Maximum fabric filter inlet temperature" means 110 percent of the lowest 3-hour average temperature at the inlet to the fabric filter (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable dioxin/furan emission limit specified in Subpart E of this Part.

"Maximum flue gas temperature" means 110 percent of the lowest 3-hour average temperature at the outlet from the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable Hg emission limit specified in Subpart E of this Part.

"Medical/infectious waste" means any waste generated in the diagnosis, treatment, or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals. The definition of medical/infectious waste does not include hazardous waste identified or listed under the regulations in 40 CFR 261; household waste, as defined in 40 CFR 261.4(b)(1); and domestic sewage materials identified in 40 CFR 261.4(a)(1). For the purposes of this Part, medical/infectious waste includes:

Cultures and stocks of infectious agents and associated biologicals, including: vaccines and cultures intended for use in diagnosing, immunizing, or treating humans or animals; cultures from medical and pathological laboratories; cultures and stocks of infectious agents from research and industrial laboratories; wastes from the production of biologicals; and discarded live and attenuated vaccines;

Human pathological waste, including tissues, organs, and body parts and body fluids that are removed during surgery or autopsy, or other medical procedures, and specimens of body fluids and their containers;

Human blood, any products derived from human blood, or anything that has been in contact with human blood in any form;

Intravenous bags and associated tubing;

Sharps that have been used in animal or human patient care or treatment or in medical, research, or industrial laboratories, including hypodermic needles, syringes (with or without the attached needle), pasteur pipettes, scalpel blades, blood vials, and needles with attached tubing;

Culture dishes, regardless of the presence of infectious agents, and culture dishes and devices used to transfer, inoculate, and mix cultures;

Any type of broken or unbroken glassware that has been in contact with infectious agents;

Animal waste, including contaminated animal carcasses, body parts, bedding of animals that were known to have been exposed to infectious agents during research (including research in veterinary hospitals), production of biologicals or testing of pharmaceuticals;

Isolation wastes, including biological waste and discarded materials contaminated with blood, excretions, exudates, or secretions from humans who are isolated to protect others from highly communicable diseases, or isolated animals known to be infected with highly communicable diseases; and

Unused sharps, including the following unused, discarded sharps: hypodermic needles, suture needles, syringes, and scalpel blades.

"Medium HMIWI" means:

An HMIWI whose maximum design waste burning capacity is more than 200 lbs per hour but less than or equal to 500 lbs per hour; or

A continuous or intermittent HMIWI whose maximum charge rate, as set by permit, is more than 200 lbs per hour but less than or equal to 500 lbs per hour; or

A batch HMIWI whose maximum charge rate, as set by permit, is more than 1,600 lbs per day but less than or equal to 4,000 lbs per day.

"Minimum dioxin/furan sorbent flow rate" means 90 percent of the highest 3-hour average dioxin/furan sorbent flow rate (taken, at a minimum, once every hour) measured during the most recent performance test demonstrating compliance with the applicable dioxin/furan emission limit specified in Subpart E of this Part.

"Minimum Hg sorbent flow rate" means 90 percent of the highest 3-hour average Hg sorbent flow rate (taken, at a minimum, once every hour) measured during the most recent performance test demonstrating compliance with the applicable Hg emission limit specified in Subpart E of this Part.

"Minimum HCl sorbent flow rate" means 90 percent of the highest 3-hour average HCl sorbent flow rate (taken, at a minimum, once every hour) measured during the most recent performance test demonstrating compliance with the applicable HCl emission limit specified in Subpart E of this Part.

"Minimum horsepower" or "minimum amperage" means 90 percent of the highest 3-hour average horsepower or amperage to the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable emission limits specified in Subpart E of this Part.

"Minimum pressure drop across the wet scrubber" means 90 percent of the highest 3-hour average pressure drop across the wet scrubber PM control device (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable PM emission limit specified in this Subpart E of this Part.

"Minimum reagent flow rate" means 90 percent of the highest 3-hour average reagent flow rate at the inlet to the selective noncatalytic reduction technology (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable NOx emissions limit specified in Subpart E of this Part.

"Minimum scrubber liquor flow rate" means 90 percent of the highest 3-hour average liquor flow rate at the inlet to the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable emission limits specified in Subpart E of this Part.

"Minimum scrubber liquor pH" means 90 percent of the highest 3-hour average liquor pH at the inlet to the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable HCl emission limit specified in Subpart E of this Part.

"Minimum secondary chamber temperature" means 90 percent of the highest 3-hour average secondary chamber temperature (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the PM, CO, dioxin/furan, and applicable NOx emissions limits specified in Subpart E of this Part.

"Minimum secondary chamber temperature" means 90 percent of the highest 3 hour average secondary chamber temperature (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the applicable PM, CO, and dioxin/furan emission limits specified in Subpart E of this Part.

"Operating day" means a 24-hour period between 12:00 midnight and the following midnight during which any amount of hospital waste or medical/infectious waste is combusted at any time in an HMIWI.

"Operation" means any period during which waste is combusted in an HMIWI, excluding periods of startup or shutdown.

"Pathological waste" means waste material consisting of only human or animal remains, anatomical parts, tissue, and the bags or containers used to collect and transport the waste material and associated animal bedding, if applicable.

"Primary chamber" means the chamber in an HMIWI that receives waste material, in which the waste is ignited, and from which ash is removed.

"Rural HMIWI" means any HMIWI identified in Section 229.110(a) of this Part, that is located more than 50 miles from the boundary of the nearest Standard Metropolitan Statistical Area, as defined in OMB Bulletin No. 93-17, incorporated by reference at Section 229.104(b) of this Part, meets the criteria specified in the definition of "small HMIWI" and burns less than 2,000 lbs per week of hospital waste and medical/infectious waste (except the 2,000 lbs per week limitation does not apply during performance testing).

"Secondary chamber" means that component of an HMIWI that receives combustion gases from the primary chamber and in which the combustion process is completed.

"Shutdown" means the period of time after all waste has been combusted in the primary chamber.

"Small HMIWI" means:

An HMIWI whose maximum design waste burning capacity is less than or equal to 200 lbs per hour; or

A continuous or intermittent HMIWI whose maximum charge rate, as set by permit, is less than or equal to 200 lbs per hour; or

A batch HMIWI, whose maximum charge rate, as set by permit, is less than or equal to 1,600 lbs per day.

"Startup" means the period of time between the activation of an HMIWI and the first charge of waste to the unit. For batch HMIWI, startup means the period of time between activation of an HMIWI and ignition of the waste.

"Wet scrubber" means an add-on air pollution control device that utilizes either an alkaline or some other type of scrubbing liquor to collect pollutants and/or neutralize acid gases.

(Source: Amended at 35 Ill. Reg._____, effective ______)

Section 229.104 Incorporations by Reference

The following materials are incorporated in this Part by reference. These incorporations by reference do not include any later amendments or editions.

- a) "An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities," American Society for Healthcare Environmental Services, 840 North Lake Shore Drive, Chicago, Illinois, 60611 (1993).
- b) "Revised Statistical Definitions for Metropolitan Areas," OMB Bulletin No. 93-17, Office of Management and Budget, Washington, D.C. (June 30, 1993). Office of Management and Budget, National Technical Information Services, 5285 Port Royal Road, Springfield, VA 22161. (703) 487-4600.
 - c) 40 CFR 60.8.
- d) 40 CFR 60, Appendix appendix A, Methods 1, 2, 3, 3A, 5, 9, 10, 10B, 23, 26, 26A, 29.
 - e) 40 CFR 60, Appendices appendices B and F.
- f) 40 CFR Appendix A, Methods 3B, 6, 6C, 7, 7E, 22 (2010).
 - g) 40 CFR 60, subpart Ce and Ec (2010).
- h) ANSI/ASME PTC19.10-1981, Flue and Gas Analyses, [Part 10, Instruments and Apparatus]. American National Standards Institute (ANSI), Attn: Customer Service Department, 25 West 43rd Street, 4th Floor, New York, NY 10036. (212) 642-4980.
- i) ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources

(Ontario Hydro Method). American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, PO Box C70, West Conshohocken, PA 19428-2959. (610) 832-9585.

j) "Fabric Filter Bag Leak Detection Guidance", U.S. Environmental Protection Agency. (EPA-454/R-98-015, September 1997). Superintendent of Documents, U.S. Government Printing Office (GPO), P979050, St. Louis, MO 63197-9000.

(Source:	Amended	at	35	Ill.	Reg.	, effective	
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SUBPART B: APPLICABILITY

Section 229.110 General Applicability

- a) Except as provided for in subsections (b), (c), (d) and (e) of this Section and Section 229.112 of this Subpart, this Part applies to all HMIWIs for which:
- 1) Construction commenced either on or before June 20, 1996, or modification was commenced either on or before March 16, 1998; or
- 2) Construction commenced either after June 20, 1996 but no later than December 1, 2008, or for which modification is commenced after March 16, 1998 but no later than April 6, 2010.
- a) This Part applies to all HMIWIs for which construction commenced either on or before June 20, 1996, except as provided for in subsections (b), (c), (d) and (e) of this Section and Section 229.112 of this Subpart.
- b) An HMIWI otherwise subject to the emission limits in this Part is only subject to the recordkeeping requirements set forth in Section 229.182(b), (f) and (g) of this Part during those periods when it combusts only pathological waste, low-level radioactive waste, or chemotherapeutic waste, provided the owner or operator of the HMIWI notifies the Agency of its intention to operate pursuant to this operating scenario in its CAAPP application submitted in accordance with either Section 229.115(b)(1), Subpart D of this Part, or Section 39.5 of the Act.
- c) An HMIWI that combusts only pathological waste, low-level radioactive waste, or chemotherapeutic waste is subject to only the recordkeeping requirements set forth in SectionsSection 229.182(c), (f) and (g) of this Part provided that the owner or operator of an HMIWI provides, by December 15, 1999, both the Agency and the USEPA with a written certification of its status as an HMIWI burning only the wastes listed in this subsection.
- d) A co-fired combustor is subject only to the recordkeeping requirements set forth in SectionsSection 229.182(d), (f) and (g) of this Part, provided that the owner or operator of the combustor is subject to a permit condition limiting its fuel feed stream to co-fired combustor status, provides, by December 15, 1999, both the Agency and USEPA with a written certification of its status as a co-fired combustor, including an estimate of the relative weight of hospital waste, medical/infectious waste, and other fuels and/or waste combusted at the facility.
- e) Any hospital that does not operate an HMIWI but that sends any of its hospital waste or medical/infectious waste to an off-site HMIWI is subject only

to the waste management plan provisions set forth at Section 229.178 of this Part.

- f) Before January 1, 2014, each owner or operator of an HMIWI, as defined in subsection 229.110 (a)(1) of this Section, subject to the emissions limits under Section 229.125(a) or Section 229.126(a), shall comply with all the applicable provisions of this Part.
- g) On and after January 1, 2014, an HMIWI as defined in subsection 229.110 (a)(1) of this Section is no longer subject to the emissions limits under Section 229.125(a) or Section 229.126(a) of this Part, but is subject to the emissions limits under Section 229.125(c) or Section 229.126(c), and shall comply with all the applicable provisions of this Part.
- h) On and after January 1, 2014, each owner and operator of an HMIWI as defined in subsection 229.110 (a)(2) of this subpartSection is no longer subject to the provisions under New Source Performance Standards for Hospital/Medical/Infectious Waste Incinerators (40 CFR 60, Subpartsubpart Ec), but is subject to the emissions limits under Section 229.125(c) or Section 229.126(c), and shall comply with all the applicable provisions of this Part.

(Source:	Amended	at	35	Ill.	Reg.	, effe	ective)
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Section 229.112 Exemptions

Notwithstanding other provisions of this Part, the following emission units are exempt from the requirements of this Part:

- Any combustor required to have a permit under Section 3005 of the Solid Waste Disposal Act, 42 <u>U.S.C.USC</u> 6925;
- b) Any municipal waste combustor that meets the applicability provisions for municipal waste combustors under Subparts Cb, Ea or Eb of 40 CFR 60;
- c) Any pyrolysis unit (i.e., a unit that uses endothermic gasification to treat hospital waste or medical/infectious waste in order to render such waste harmless);
- d) Any cement kiln firing hospital waste or medical/infectious waste;
 or
- e) Any HMIWI that meets the applicability provisions for Standards of Performance for Hospital/Medical/Infectious Waste Incinerators under Subpart Ec of 40 CFR 60.
- e) Any HMIWI subject to the Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996, contained in Subpart Ec of 40 CFR 60.50c.

(Source:	Amended	at	35	III.	Reg.	, effective
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SUBPART C: COMPLIANCE SCHEDULES

Section 229.115 Compliance Schedules for HMIWIs That Will Continue to Operate

a) Before January 1, 2014, each owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) of this Part_ subject to the emissions limits under

Section 229.125(a) or Section 229.126(a) of this Part, shall comply with all the applicable provisions of this Part according to the following schedules:

- 1a) Except as provided in subsection (a) (2)—(b) of this Section and unless another date is specified in the provisions of this Part, all owners or operators of HMIWIs shall be in compliance with all of the provisions of this Part by September 15, 2000.
- 2b) Except as provided in subsection (a) (3) (c) of this Section, the owner or operator of an HMIWI may have up to September 15, 2002, to come into compliance with this Part. To avail themselves of this extended compliance timeframe, the owner or operator of an HMIWI shall:
- A±) Submit its CAAPP application to the Agency, on or before November 15, 1999, requesting an extended compliance schedule, pursuant to Section 39.5(5)(d) of the Act, [415 ILCS 5/39.5(5)(d)]. This compliance schedule shall include documentation supporting the need for an extension, a final control plan for the HMIWI and incremental steps to be taken toward compliance with this Part that, at a minimum, meet the increments of progress specified in subsection (a)(2)(B) (b)(2) of this Section;
 - B2) Meet the following increments of progress by the dates indicated:
- iAi) Finalize all contracts for the purchase of either pollution control equipment, process modification or control systems by February 29, 2000;
- <u>iiBii</u>) Commence the implementation of either the process modifications or the necessary construction or installation of air pollution control devices for the HMIWI by November 30, 2000;
- <u>iiiCiii</u>) Complete either the process modifications or the installation or construction of the new air pollution control equipment by August 31, 2001;
- ivDiv) Perform initial startup of the retrofitted HMIWI by January 15, 2002; and
- <u>vEv</u>) Complete the initial performance test in accordance with Section 229.142 of this Part within 180 days after initial startup.
- 3e) Any owner or operator of an HMIWI that fails to demonstrate compliance with this Part by September 15, 2002, shall cease operation of the HMIWI until compliance with the provisions of this Part is achieved.
- 4d) Notwithstanding subsection (a)(2) (b) of this Section, all owners or operators of HMIWIs shall be in full compliance with all of the HMIWI operator provisions of Subpart J of this Part by September 15, 2000.
- b) On and after January 1, 2014, each owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) or (a)(2) of this Part, and subject to the emissions limits under Section 229.125(c) of this Part, as applicable, or Section 229.126(c) of this Part, shall comply with the applicable provisions of this Part according to the following schedules:
- 1) Except as provided in subsection $(\underline{b})(2)$ of this Section and unless another date is specified in the provisions of this Part, all owners or operators of HMIWIs shall comply with all of the provisions of this Part by January 1, 2014.

- 2) Except as provided in subsection (b)(4) of this Section, the owner or operator of an HMIWI may have until October 6, 2014,2014 to come into compliance with the emissions limits under Section 229.125(c) or 229.126(c) of this Part. To avail themselvesitself of this extended compliance timeframe, the owner or operator of an HMIWI shall:
- A) Submit its CAAPP application and construction permit to the Agency, on or before January 1, 2012, requesting an extended compliance schedule, pursuant to Section 39.5(5)(d) of the Act, [415 ILCS 5/39.5(5)(d)]. This compliance schedule shall include documentation supporting the need for an extension, a final control plan for the HMIWI and incremental steps to be taken toward compliance with this Part that, at a minimum, meet the increments of progress specified in subsection (b)(2)(B) of this Section;
- B) Meet the following increments of progress by the dates indicated:
- i) Finalize all contracts for the purchase of either pollution control equipment, process modification or control systems by August 1, 2012;
- ii) Commence the implementation of either the process modifications or the necessary construction or installation of air pollution control devices for the HMIWI by March 1, 2013;
- iii) Complete either the process modifications or the installation or construction of the new air pollution control equipment by September 1, 2013:
- iv) Achieve final compliance, which includes incorporating all process changes and/or completing retrofit construction as described in the final control plan, connecting the air pollution control equipment or process changes such that the unit is brought on line, and ensuring that all necessary process changes and air pollution control equipment are operating properly, no later than June 1, 2014;
- v) Complete the initial performance test in accordance with Section 229.142 of this Part no later than October 6, 2014;
- vi) Submit the results of the initial performance test and revised waste management plan to the Agency no later than 60 days following the initial performance test; and
- vii) Submit notification to the Agency within 10 business days of after completing (or failing to complete by the applicable date) each of the increments of progress specified in subsection (b)(2)(B) of this Section. The notification must be signed by the owner's or operator's representative responsible for the management of the HMIWI.
- 3) If a petition for compliance extension is granted, the owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) or (a)(2), must continue to comply with the provisions of theirits current CAAPCAAPP permit during the interim.
- 4) Any owner or operator of an HMIWI that fails to demonstrate compliance with this Part by October 6, 2014,2014 shall cease operation of the HMIWI until compliance with the provisions of this Part is achieved.

Notwithstanding subsection (b)(2) of this Section, all owners or of HMIWIs shall be in full compliance with all of the HMIWI operator provisions of Subpart J of this Part before January 1, 2014. (Source: Amended at 35 Ill. Reg. ______, effective ____ Section 229.116 Compliance Schedules for HMIWIs That Will Shut Down All owners or operators of HMIWIs that intend to permanently shut down their HMIWI as a means of complying with this Part shall: a) Provide the Agency with written notice of their intention to shut down their HMIWI, as follows: permanently On or before November 15, 1999, for an HMIWI as defined in Section 229.110 (a) (1) of this Part_ subject to the emissions limits under Section 229.125(a) or Section 229.126(a) of this Part; On or before January 1, 2013, except as provided for in Section 229.116(c), for an HMIWI as defined in Section 229.110(a)(2) of this Part_ subject to the emissions limits under Section 229.125(c), as applicable, or Section 229.126(c) of this Part. Take the following affirmative steps to demonstrate that the HMIWI has been rendered permanently inoperable by September 15, 2000, for an HMIWI as defined in Section 229.110(a)(1), or by January 1, 2014 for an HMIWI as defined in Sections 229.110(a)(2) of this Part: Provide the Agency with written notice of their intention to permanently shut down their HMIWI on or before November 15, 1999; and Take the following affirmative steps to demonstrate that the HMIWI has been rendered permanently inoperable by September 15, 2000: 1) Weld the primary chamber door shut; 2) Dismantle the HMIWI; or Other means that reasonably demonstrate that the HMIWI is no longer functional. Except as provided in subsection (c)(5) of this Section, owners or operators may have up to October 6, 2014,2014 to shut down their HMIWIs to avoid being subject to compliance with the emissions limits under Section 229.125(c) or 229.126(c). To avail themselves of this extended compliance timeframe, the owner or operator of an HMIWI shall: Submit theirits application to the Agency by July 1, 2013, 2013 requesting an extended compliance schedule, pursuant to Section 39.5(5)(d) of the Act- [415 ILCS 5/39.5(5)(d)]. This compliance schedule shall include documentation of the analysis undertaken to support the need for an extension, including an explanation of why the timeframe up to October 6, 2014 is sufficient while the timeframe up to January 1, 2014 is not sufficient, and incremental steps to be taken toward compliance with applicable requirements of this Part+_

- 2) If an onsite alternative waste treatment technology is needed to be installed before the HMIWI is shut down, an application for compliance extension shall include the following elements of increments of progress and completion date for each step of progress:
- Finalize contract with an alternative waste treatment technology vendor;
- B) Initiate onsite construction or installation of alternative waste treatment technology;
- Complete onsite construction or installation of alternative waste treatment technology; and
- D) Take the steps described under subsection (b) of this Section to demonstrate that the HMIWI has been rendered permanently inoperable.
- 3) If an onsite alternative waste treatment technology is not needed to be installed before an HMIWI is shut down, an application for compliance extension shall include a plan for shut down. The plan for shut down shall include steps described under subsection (b) of this Section to demonstrate that the HMIWI has been rendered permanently inoperable.
- 4) If a petition for compliance extension is granted, the owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) or (a)(2), must continue to comply with the provisions of theirits current CAAPCAAPP permit during the interim.
- 5) Any owner or operator of an HMIWI that fails to demonstrate compliance with this Part by October 6, 2014,2014 shall cease operation of the HMIWI until compliance with the provisions of this Part is achieved.
- 6) Notwithstanding subsection (c)(1) of this Section, all owners or operators of HMIWIs shall be in full compliance with all of the HMIWI operator provisions of Subpart J of this Part by January 1, 2014.

(Source: Ame	nded at	35	I11.	Reg.	, effective	
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SUBPART D: CAAPP PERMIT REQUIREMENTS

Section 229.120 CAAPP Permit Requirements

- a) All HMIWIs subject to the emissions limits in this Part shall operate pursuant to a CAAPP permit, as follows:
- By September 15, 2000, for an HMIWI as defined in Section 229.110
 (a) (1) of this Part; and
- 2) By January 1, 2014, for an HMIWI as defined in Section 229.110 (a)(1) or (a)(2) of this Part.
- b) For any HMIWI subject to the emission limits in this Part that is first required to obtain a CAAPP permit because it is subject to the emission limits in this Part, the owner or operator shall submit a complete application for a CAAPP permit, as follows:
- 1) By September 15, 2000, except as provided for in Section 229.115(a)(2)(A) of this Part, for an HMIWI as defined in Section 229.110 (a)(1) of this Part; or

- 2) By January 1, 2014, except as provided for in Section 229.115(b)(2)(A) of this Part for an HMIWI as defined in Section 229.110 (a)(1) or (a)(2) of this Part.
- a) All HMIWIs subject to the emissions limits in this Part shall operate pursuant to a CAAPP permit by September 15, 2000.
- b) For any HMIWI subject to the emission limits in this Part that is first required to obtain a CAAPP permit because it is subject to the emission limits in this Part, the owner or operator shall submit a complete application for a CAAPP permit by September 15, 2000, except as provided for in Section 229.115(b)(1) of this Part.
- c) Upon submittal of a timely and complete CAAPP application, the owner or operator of an HMIWI shall not be in violation of the requirement, specified in subsection (a) of this Section, to have a CAAPP permit, to the extent provided in Section 39.5(5)(h) of the Act [415 ILCS 5/39.5(5)(h)].
- d) For any HMIWI that currently has a CAAPP permit, the following conditions apply:
- 1) If the CAAPP permit has 3 or more years remaining on the permit term, the owner or operator of an HMIWI shall apply for revision to the CAAPP permit to incorporate the applicable requirements of this Part, as follows: on or before November 15, 1999; or
 - A) On or before November 15, 1999, for an HMIWI as defined in Section 229.110 (a)(1) of this Part, and
- B) On or before January 1, 2013, for an HMIWI as defined in Section 229.110 (a)(1) or (a)(2) of this Part; or
- 2) If the CAAPP permit has less than 3 years remaining on the permit term, the CAAPP permit shall be revised to incorporate the applicable requirements of this Part, upon renewal of the permit.

(Source:	Amended	at	35	Ill.	Reg.		effective)
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SUBPART E: EMISSION EMISSIONS LIMITS

Section 229.125 Emissions Limits for Small, Medium, and Large HMIWIs

a) The emission limits in this Section shall apply at all times to HMIWIs identified in Section 229.110(a) at all times, except as provided in Section 229.110(b) of this Part, and Section 229.126 of this Subpart and Subpart F of this Part.

- a) Before January 1, 2014, each owner or operator of a small, medium, or large HMIWI as defined in Section 229.110(a)(1) of this Part, shall comply with the following emissions limits:
- b) The emission limits for small, medium, and large HMIWIs are as follows:

HMIWI Emissions Limits

PollutantUnits

(7% oxygen, dry basis) SmallMediumLargeParticulate MINIX EMISSIONS
LIMITSSmallMediumLargeParticulate matterMilligrams per dry standard cubic meter (mg/dscm) (grains per dry standard cubic foot (gr/dscf))115 (0.05)69 (0.03)34 (0.015) Carbon monoxideParts per million by volume (ppmv)404040Dioxins/furansNanograms per dry standard cubic meter total dioxins/furans (ng/dscm) (grains per billion dry standard cubic feet (gr/109 dscf)) or ng/dscm TEQ (gr/109 dscf)125 (55) or 2.3 (1.0)125 (55) or 2.3 (1.0)125 (55) or 2.3 (1.0)125 (55) or 2.3 (1.0)125 (55) or 93%100 or 93%Sulfur dioxide(ppmv) 555555Nitrogen oxides(ppmv)250250250Leadmg/dscm (grains per thousand dry standard cubic feet (gr/103 dscf)) or percent reduction1.2 (0.52) or 70%1.2 (0.52) or 70%Cadmiummg/dscm (gr/103 dscf) or percent reduction0.16 (0.07) or 65%0.16 (0.07) or 65%Mercurymg/dscm (gr/103 dscf) or percent reduction0.55 (0.24) or 85%0.55 (0.24) or 85%0.55 (0.24) or 85%

HMIWI EMISSION LIMITSPollutantUnits
(7% oxygen, dry basis)SmallMediumLargePMmg per dscm(grains per dscf) 115
(0.05)69 (0.03)34 (0.015)Coppmv404040Dioxins/
FuransNanograms 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)125 (55) or 2.3 (1.0)125 (55) or 2.3 (1.0)HClppmv or percent
reduction100 or 93%100 or 93%100 or 93%SO2ppmv555555NOxppmv250250250Pbmg per
dscm (grains per thousand dscf) or percent reduction1.2 (0.52)
or 70%1.2 (0.52) or 70%1.2 (0.52) or 70%Cdmg per dscm (grains per thousand dscf)
or percent reduction0.16 (0.07)
or 65%0.16 (0.07) or 65%0.16 (0.07) or 65%Hgmg per dscm (grains per thousand
dscf) or percent reduction0.55 (0.24)
or 85%0.55 (0.24) or 85%0.55 (0.24) or 85%

- b) No owner or operator of a small, medium, or large HMIWI subject to emissions limits listed under subsection (a) of this Section 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 appendix A, incorporated by reference in Section 229.104(d) of this Part, from any stack used by an HMIWI.
- c) On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, each owner or operator of a small, medium, or large HMIWI, as defined in Sections Section 229.110(a)(1) and (a)(2) of this Part, shall comply with the following emissions limits, as applicable:
- e) 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.

HMIWI Emissions Limits

PollutantUnits

(7% oxygen, dry basis) SmallMediumLargeParticulate HMIWI EMISSIONS
LIMITSSmallMediumLargeParticulate matterMilligrams per dry standard cubic meter (mg/dscm) (grains per dry standard cubic foot (gr/dscf))66 (0.029)46 (0.020)a 34 (0.015)b25 (0.011) Carbon monoxideParts per million by volume (ppmv)205.511Dioxins/furansNanograms per dry standard cubic meter total dioxins/furans (ng/dscm) (grains per billion dry standard cubic feet (gr/109

dscf)) or ng/dscm TEQ (gr/109 dscf)16 (7.0) or 0.013 (0.0057)0.85 (0.37) or 0.020 (0.0087)9.3 (4.1) or 0.054 (0.024) Hydrogen chloride (ppmv)44a 15b7.76.6Sulfur dioxide (ppmv)4.24.29.0Nitrogen oxides (ppmv)190190140Leadmg/dscm (grains per thousand dry standard cubic feet (gr/103 dscf))0.31 (0.14) 0.018 (0.0079)0.036 (0.016) Cadmiummg/dscm (gr/103 dscf)0.017 (0.0074) 0.013 (0.0057)0.0092 (0.0040) Mercurymg/dscm (gr/103 dscf)0.014 (0.0061)0.025 (0.011)0.018 (0.0079) a Emissions limits for HMIWIS as defined in Section 229.110(a)(1) of this Part.

b Emissions limits for HMIWIs as defined in Section 229.110(a)(2) of this Part.

- d) No owner or operator of a small, medium, or large HMIWI subject to emission limits listed under subsection (c) of this Section shall cause or allow any emissions that cause greater than 6 percent opacity, as measured on a 6-minute block average, according to Method 9, 40 CFR 60, Appendix appendix A, incorporated by reference at Section 229.104(d) of this Part, from any stack used by an HMIWI.
- e) On and after the date on which the initial performance test is completed or required to be completed under Section 229.142 of this Part, whichever date comes first, no owner or operator of an HMIWI, as defined in Section 229.110 (a) (1) or (a) (2) of this Part and subject to the emissions limits under subsection (c) of this Section, shall cause to be discharged into the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points), enclosures of ash conveying systems, buildings, or other sources in excess of 5 percent of the observation period of 9 minutes per 3-hour period, according to Method 22, 40 CFR 60, Appendixappendix A, incorporated by reference in Section 229.104(d) of this Part, except as provided by the following exclusions:
- Visible emissions discharged inside buildings or enclosures of conveying systems; or
- 2) During maintenance and repair of ash conveying systems.

 Maintenance and/or repair shall not exceed 10 operating days per calendar quarter unless the owner or operator of an HMIWI makes a request to the Agency in writing for a longer period of time to complete maintenance and/or repair, and the Agency approves the owner<u>'s</u> or operator's request in writing.

(Source: Amended at 35 Ill. Reg._____, effective ______)

Section 229.126 Emissions Limits For Rural HMIWIS

a) Notwithstanding the emissions limits set out in Section 229.125 of this Part, any rural HMIWI shall comply with the emissions limits set out in subsection (a) or (c) (b) of this Section. The emissions limits under this Section shall apply at all times, except as provided for in Section 229.110(b) and Subpart F of this Part.

a) Before January 1, 2014, a rural HMIWI as defined in Section 229.110(a)(1) $_{\tau}$ shall comply with the following emissions limits:

b) The emission limits for rural HMIWI are as follows:

```
PollutantUnits
(7% oxygen, dry basis)
HMIWI Emissions LimitsParticulateEMISSION LIMITSParticulate mattermg/dscm
(gr/dscf)197
(0.086) Carbon monoxideppmv40Dioxins/furansng/dscm total dioxins/furans (gr/109
dscf) or ng/dscm TEQ (gr/109 dscf)800 (350) or 15 (6.6) Hydrogen chlorideppmv
3100Sulfur dioxideppmv55Nitrogen oxidesppmv250Leadmg/dscm
(gr/103 dscf)10
 (4.4) Cadmiummg/dscm
(gr/103 dscf)4
 (1.7) Mercurymg/dscm
(gr/103 dscf)7.5
 (3.3)
PollutantUnits
(7% oxygen, dry basis) EMISSION LIMITSPM mg per dscm (grains per dscf) 197
(0.086) COppmv40Dioxin/
Furansnanograms per dscm total dioxins/furans (grains per billion dscf), or
nanograms per dscm TEQ (grains per billion dscf) 800 (350) or 15
(6.6) HClppmv3100SO2ppmv55NOxppmv250Pbmg per dsem (grains per thousand dsef)10
(4.4)Cdmg per dscm (grains per thousand dscf)4 (1.7)Hgmg per dscm (grains per
thousand dscf) 7.5 (3.3)
     No owner or operator of a rural HMIWI subject to emissions limits listed
under subsection (a) of this Section 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 Part 60, Appendix appendix A, incorporated by
reference at Section 229.104(d) of this Part Part, from any stack used by an
HMIWI.
     No owner or operator of a rural HMIWI shall cause or allow any emissions
0)
that cause greater than 10 percent opacity, as measured on a 6 minute block
average, according to Method 9, 40 CFR Part 60, Appendix A, incorporated by
reference at Section 229.104(d) of this Part, from any stack used by an HMIWI.
     On and after January 1, 2014, except as provided for in Section
229.115(b)(3) or Section 229.116(c)(4), as applicable, a rural HMIWI, as defined
in Section 229.110(a)(1) or (a)(2) of this Part, shall comply with the following
emissions limits:
PollutantUnits
(7% oxygen, dry basis) Emissions LimitsParticulate EMISSION LIMITSParticulate
mattermq/dscm
(gr/dscf)87
 (0.038) Carbon monoxideppmv20Dioxins/furansng/dscm total dioxins/furans (gr/109
dscf) or ng/dscm TEQ (gr/109 dscf)240 (100) or 5.1 (2.2) Hydrogen chlorideppmv
810Sulfur dioxideppmv55Nitrogen oxidesppmv130Leadmg/dscm
(gr/103 dscf) 0.50
 (0.22) Cadmiummg/dscm
(gr/103 dscf) 0.11
 (0.048) Mercurymg/dscm
(gr/103 dscf) 0.0051
 (0.0022)
```

No owner or operator of a rural HMIWI subject to emissions limits listed

under subsection (c) of this Section shall cause or allow any emissions that cause greater than 6 percent opacity, as measured on a 6 minute block average,

d)

according to Method 9, 40 CFR Part 60, Appendix appendix A, incorporated by reference at Section 229.104(d) of this Part, from any stack used by an HMIWI.

- e) On and after the date on which the initial performance test is completed or required to be completed under Section 229.142 of this Part, whichever date comes first, no owner or operator of a rural HMIWI, as defined in Section 229.110 (a) (1) or (a) (2) of this Part, subject to the emissions limits under subsection (c) of this Section, shall cause to be discharged into the atmosphere visible emissions of combustion ash from ash conveying system (including conveyor transfer points), enclosures of ash conveying systems, buildings, or other sources in excess of 5 percent of the observation period of 9 minutes per 3-hour period, according to Method 22, 40 CFR 60, Appendixappendix A, incorporated by reference at Section 229.104(d) of this Part, except as provided by the following exclusions:
- 1) Visible emissions discharged inside buildings or enclosures of ash conveying systems; or
- During maintenance and repair of ash conveying systems.

 Maintenance and/or repair shall not exceed

 10 operating days per calendar quarter, unless the owner or operator of an

 HMIWI makes a request to the Agency in writing for a

 longer period of time to complete maintenance

 and/or repair, and the Agency approves the owner's

 or operator's request in writing.

(Source: Amended at 35 Ill. Reg. _____, effective _____)

SUBPART F: EXCEPTIONS FROM EMISSION LIMITS (Repealed)

Section 229.130 Operation During Periods of Startup, Shutdown, or Malfunction (Repealed)

- a) The emission limits specified in Subpart E of this Part do not apply to an HMIWI during periods of startup, shutdown or malfunction, if the requirements provided in subsections (b), (c) and (d) of this Section are met.
- b) No waste shall be charged to an HMIWI during periods of startup, shutdown or malfunction.
- e) The shutdown of any HMIWI shall proceed according to the following requirements:
- 1) For continuous HMIWIs, shutdown may commence no less than 2 hours after the last charge to an HMIWI;
- 2) For intermittent HMIWIs, shutdown may commence no less than 4 hours after the last charge to an HMIWI; and
- 3) For batch HMIWIs, shutdown may commence no less than 5 hours after the high air phase of combustion has been completed.

- d) During periods of malfunction, the owner or operator of an HMIWI shall do all of the following:
- 1) Take all reasonable steps to ensure that an HMIWI operates within the parameters established for that HMIWI and to minimize excess emissions;
- 2) Continue monitoring all applicable parameters; and
- Take appropriate corrective actions prior to resuming the charging of any waste to an HMIWI.

(Source: Repealed at 3533 Ill. Reg. ______, effective ______)

SUBPART H: COMPLIANCE REQUIREMENTS

Section 229.142 Initial Performance Testing and Establishment of Operating Parameters for All HMIWIS

a) Before January 1, 2014, each owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) of this Part, subject to the emissions limits under Section 229.125(a) or Section 229.126(a) of this Part, shall comply with the following requirements:

The owner or operator of an HMIWI subject to the emissions limits under this Part shall comply with the following requirements:

- Let Except as provided in Section 229.115(a)(2)(B)(v) $\frac{229.115(b)(2)(E)}{2000;2000}$ of this Part, conduct an initial performance test on their HMIWI by September 15, $\frac{2000;2000}{2000}$
- 2b) Except as provided in subsection (a)(3) (e) of this Section, in the initial performance test, test for all pollutants limited pursuant to Subpart E of this Part.
- 3e) During the initial performance test, rural HMIWIs are not required to test for HCl, Pb or Cd.
- 4d) 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, or a selective noncatalytic reduction system, establish the appropriate maximum and minimum operating parameter values indicated in Appendix B of this Part for the relevant control system during the initial performance test, provided that the performance test demonstrates compliance with the emission limits specified in Section 229.125 of this Part.
- 5e) If air pollution 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, or a selective noncatalytic reduction system is used to comply with the emission limits under Section 229.125 of this Part, 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 Agency in a construction permit and approved by USEPA.
- $6\pm$) For rural HMIWI, establish the maximum charge rate and minimum secondary chamber temperature as site-specific parameters during the initial performance

test, provided that the performance test demonstrates that the HMIWI is in compliance with the emission limits specified in Section 229.126 of this Part.

- b) On and after January 1, 2014, each owner or operator of an HMIWI, as defined in Section 229.110 (a)(1) or (a)(2) of this Part, and subject to the emissions limits under Section 229.125(c) $_{7}$ as applicable, or Section 229.126(c) of this Part, shall comply with the following requirements:
- 1) Except as provided in Section 229.115(a)(2)(B)(v) of this Part, conduct an initial performance test on theirits HMIWI by January 1, 2014.
- 2) Except as provided for in paragraph (b) (6) of this subsection (b) (6), in the initial performance test, test for all pollutants to demonstrate compliance with Section 229.125(c) τ or Section 229.126(c) emissions limits, as applicable, pursuant to Subpart E of this Part.
- 3) If an HMIWI is equipped with a dry scrubber followed by a fabric filter, a wet scrubber, a dry scrubber followed by a fabric filter and wet scrubber, or a selective noncatalytic reduction system, establish the appropriate maximum and minimum operating parameter values indicated in Appendix B of this Part for the relevant control system during the initial performance test, provided that the performance test demonstrates compliance with the emission limits specified in Section 229.125 or 229.126 of this Part.
- 4) If an air pollution control device other than a dry scrubber followed by a fabric filter, a wet scrubber, a dry scrubber followed by a fabric filter and a wet scrubber, or a selective noncatalytic reduction system is used to comply with the emission limits under Section 229.125 or Section 229.126 of this Part, 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 Agency in a construction permit and approved by USEPA.
- 5) For a rural HMIWI that is not equipped with an air pollution control device, establish the maximum charge rate and minimum secondary chamber temperature as site-specific parameters during the initial performance test, provided that the performance test demonstrates that the HMIWI is in compliance with the emission limits specified in Section 229.126(c) of this Part.
- 6) The owner or operator of an HMIWI may use results of previous performance test(s) tests for initial compliance demonstration with the applicable emissions limits, provided the following conditions are met:
- A) The previous emissions test(s) was tests were conducted using procedures and test methods listed in Section 229.140 of this Part, USEPA-accepted voluntary consensus standards;
 - B) The test results are certified as representative of current operations; and
- C) The previous emissions test(s) wastests were conducted no earlier than 1996.
- 7) The owner or operator of an HMIWI that cannot certify and \angle or whose previous performance test $\frac{(s)}{(s)}$ results do not demonstrate compliance with one or more of the revised emission limits must conduct another performance test for those pollutants.

8) The owner or operator of an HMIWI, as defined in Section 229.110(a)(1) or (a)(2) of this Part, and subject to the emissions limits under Section 229.125(c), as applicable, or Section 229.126(c) of this Part, as applicable, shall determine compliance with the visible emissions limit for fugitive emissions from ash handling in Sections 229.125(g) and 229.126(e) by conducting an initial performance test using Method 22, at 40 CFR 60, Appendix appendix A, incorporated by reference at Section 229.104(d) of this Part.

(Source: Amended at 35 Ill. Reg._____, effective _____)

Section 229.146 Annual Testing for Opacity

Following the date on which the initial performance test is completed, as required by Section 229.142 of this Section, the owners or operators of all HMIWIS shall conduct an annual opacity test, in accordance with Section 229.140 of this Part. The opacity test schedules are as follows: , by September 15 of each year.

- a) By September 15 of each year,— for an HMIWI, as defined in Section 229.110 (a)(1) of this Part, and subject to the emissions limits under subsectionSection 229.125(a) or subsectionSection 229.126(a) of this Part; and
- b) By January 1 of each year, for an HMIWI, as defined in Section 229.110 (a)(1) or (a)(2) of this Part, and subject to the emissions limits under Section 229.125(c), as applicable, or Section 229.126(c) of this Part.

(Source: Amended at 35 Ill. Reg._____, effective ______)

Section 229.148 Annual Performance Testing for All Small, Medium and Large HMIWIS

Following the date on which the initial performance test is completed, as required by Section 229.142 of this Part, all owners or operators of small, medium, or large HMTWIS each owner or operator of an HMTWI, as applicable, shall conduct an annual performance test, by September 15 of each year to determine compliance with the applicable PM, CO and HCl emission limits specified in Section 229.125(b) or 229.126 of this Part, using the applicable test procedures and methods specified in Section 229.140 of this Part.

- a) Annual performance test schedules are as follows:
- 1) Before January 1, 2014, each owner or operator of a small, medium, or large HMIWI as defined in Section 229.110(a)(1), subject to the emissions limits under Section 229.125(a) of this Part_ shall complete an annual performance test by September 15 of each year; and
- 2) On and after January 1, 2014, an owner or operator of a small, rural, medium, or large HMIWI, as defined in Section 229.110(a)(1) or (a)(2), subject to the emissions limits under Section 229.125(c), as applicable, or in Section 229.126(c) of this Part, shall complete an annual performance test by January 1 of each year.
- bab) If all 3 annual performance tests over a 3-year period indicate compliance with the applicable emission limits for PM, CO, or HCl specified in Section 229.125(b) of this Part, 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 Section 229.125(b) of this Part, 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.

- ebc) 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.
- d) The owner or operator of an HMIWI may use any of the following types of continuous emission monitoring systems ("CEMS"CEMS), as provided in Section 229.152 of this Part, to substitute for annual performance tests and parameter monitoring to demonstrate compliance with applicable emissions limits:
- PM CEMS: replace annual PM testing and opacity testing and monitoring of pressure drop across the wet scrubber, if applicable;
- CO CEMS: replace annual CO testing and monitoring of minimum secondary chamber temperature;
- 3) HCl CEMS: replace annual HCl testing and monitoring of minimum HCl sorbent flow rate, and minimum scrubber liquor pH.

(Source:	Amended	at	35	Ill.	Reg.	 effective	>

Section 229.150 Compliance with Operating Parameter Values

- a) Following the date on which the initial performance test is completed, or is required to be completed under as provided in Section 229.142 of this Subpart, whichever date comes first Part, an HMIWI, using a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet scrubber to comply with the emission limits of this Part, shall not operate above any of the applicable maximum parameters or below any of the applicable minimum operating parameters values specified in Appendix B of this Part. All operating parameters shall be measured as a 3-hour rolling average (calculated each hour as a 3-hour rolling average of the previous 3 operating hours) at all times, except during periods of startup, shutdown, and malfunction (calculated each hour as a 3-hour rolling average of the previous 3 operating hours). For batch HMIWIs, the charge rate shall be measured on a per batch basis.
- b) Except as provided in Section 229.164 of this Subpart, for an HMIWI equipped with a selective noncatalytic reduction system, operation of the HMIWI above the maximum charge rate, below the minimum secondary chamber temperature, and below the minimum reagent flow rate simultaneously shall constitute a violation of the NOx emissions limit.
- ebc) For HMIWIs using 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, to comply with the emission limits under Section 229.125 or Section 229.126 of this Part, following the date on which the initial performance test is completed, as provided in Section 229.142 of this Part, an HMIWI shall not operate above any applicable maximum or below any applicable minimum operating parameter values established in its CAAPP permit.

- ded) Operating parameter limits do not apply during performance tests.	
(Source: Amended at 35 Ill. Reg, effective)	
Section 229.152 Compliance Requirements for HMIWIs using CEMS	
The owner or operator of an HMIWI may use a CEMS to demonstrate compliance with any of the emission limits under Section 229.125(b) or Section 229.126 of this Part, if provided for in its permit. Any HMIWI that is allowed to use a CEMS to demonstrate compliance with the emission limits of this Part shall:	-
a) Any HMIWI that is allowed to use a CEMS to demonstrate compliance with the emission limits of this Part shall:	
1a) Determine compliance with the applicable emission limits using a 12-hour rolling average, calculated each hour as the average of the previous 12 operating hours, not including startup, shutdown, or malfunction; and	
2b) Operate all CEMS in accordance with the applicable procedures under - Appendices appendices B and F of 40 CFR 60, incorporated by reference at Section 229.104(e) of this Part.	
b) In the case of CEMS for which USEPA has not published performance specifications, the option to use the CEMS takes effect on the date of publication of the performance specifications in the Federal Register or after site-specific operating parameters used to demonstrate compliance with this Part have been established by the Agency in a construction permit and approved by USEPA.	
(Source: Amended at 35 Ill. Reg, effective)	
Section 229.154 Violations by HMIWIs Equipped with a Dry Scrubber Followed by a Fabric Filter	
Except as provided in Section 229.164 of this Subpart, for an HMIWI equipped with a dry scrubber followed by a fabric filter:	
a) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) shall be a violation of the CO emissions limit;	
b) Simultaneous operation of an HMIWI above the maximum fabric filter inlet temperature, above the maximum charge rate, and below the minimum dioxin/furan sorbent flow rate (each measured on a 3-hour rolling average) shall be a violation of the dioxin/furan emissionemissions limit;	
c) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum HCl sorbent flow rate (each measured on a 3-hour rolling average) shall be a violation of the HCl emissionemissions limit;	
d) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum Hg sorbent flow rate (each measured on a 3-hour rolling average) shall be a violation of the Hg emissionemissions limit; or	
e) Use of the bypass stack (except during startup, shutdown or malfunction) at any time during operation of an HMIWI is a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emissionemissions limits;	

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- f) If a CO CEMS is used to determine compliance with a CO emissions limit, operation of the HMIWI above the CO emissions limit as measured by the CO CEMS shall be a violation of the emissions limit;
- g) If a bag leak detection system is used, failure to initiate corrective action within one hour <u>ofafter</u> the bag leak detection system alarm, or failure to operate and maintain the fabric filter <u>suchso</u> that the alarm is not engaged for more than 5 percent of the total operating time in a 6-month block reporting period, shall be a violation of the PM emissions limit;
- h) If a bag leak detection system is used to demonstrate compliance with the opacity limit, failure to initiate corrective action within one hour <u>ofafter</u> the bag leak detection system alarm shall be a violation of the opacity emissions limit;
- i) If a CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg emissions limitslimit, operation of the HMIWI above the applicable emissions limit as measured by the CEMS shall be a violation of the emissions limit;
- j) If a continuous automated sampling system is used, operation of the HMIWI above the dioxin/furan emissions limit as measured by the continuous automated sampling system shall be a violation of the dioxin/furan emissions limit; or
- k) If a continuous automated sampling system is used, operation of the HMIWI above the Hg emissions limit as measured by the continuous automated sampling system shall be a violation of the Hg emissions limit.

(Source: Amended at 35 Ill. Reg, effective	(Source:	Amended	at	35	Ill.	Reg.		effective	
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Section 229.156 Violations by HMIWIs Equipped with a Wet Scrubber

Except as provided in Section 229.164 of this Subpart, for an HMIWI equipped with a wet scrubber:

- a) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum pressure drop across the wet scrubber or below the minimum horsepower or amperage to the system (each measured on a 3-hour rolling average) is a violation of the PM emissionemissions limit;
- b) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) is a violation of the CO emissionemissions limit;
- c) Simultaneous operation of an HMIWI above the maximum charge rate, below the minimum secondary chamber temperature and below the minimum scrubber liquor flow rate (each measured on a 3-hour rolling average) is a violation of the dioxin/furan emissions limit;
- d) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum scrubber liquor pH (each measured on a 3-hour rolling average) is a violation of the HCl emissionemissions limit;
- e) Simultaneous operation of an HMIWI above the maximum flue gas temperature and above the maximum charge rate (each measured on a 3-hour rolling average) is a violation of the Hg emissionemissions limit; or

- f) Use of the bypass stack (except during startup, shutdown, or malfunction) at any time during operation of an HMIWI is a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emissions limits;
- g) If a CO CEMS is used to determine compliance with a CO emissions limit, operation of the HMIWI above the CO emissions limit as measured by the CO CEMS shall be a violation of the emissions limit;
- h) If a CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg emissions limit, operation of the HMIWI above the applicable emissions limit as measured by the CEMS shall be a violation of the emissions limit;
- i) If a continuous automated sampling system is used, operation of the HMIWI above the dioxin/furan emissions limit as measured by the continuous automated sampling system shall be a violation of the dioxin/furan emissions limit; or
- j) If a continuous automated sampling system is used, operation of the HMIWI above the Hg emissions limit as measured by the continuous automated sampling system shall be a violation of the Hg emissions limit.

(Source:	Amended	at	35	Ill.	Reg.	, effective)
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Section 229.158 Violations by HMIWIs Equipped with a Dry Scrubber Followed by a Fabric Filter and a Wet Scrubber

Except as provided in Section 229.164 of this Subpart, for an HMIWI equipped with a dry scrubber followed by a fabric filter and a wet scrubber:

- a) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) is a violation of the CO emissionemissions limit;
- b) Simultaneous operation of an HMIWI above the maximum fabric filter inlet temperature, above the maximum charge rate and below the minimum dioxin/furan sorbent flow rate (each measured on a 3-hour rolling average) is a violation of the dioxin/furan emissionemissions limit;
- c) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum scrubber liquor pH (each measured on a 3-hour rolling average) is a violation of the HCl emissionemissions limit;
- d) Simultaneous operation of an HMIWI above the maximum charge rate and below the minimum Hg sorbent flow rate (each measured on a 3-hour rolling average) is a violation of the Hg emissionemissions limit; or
- e) Use of the bypass stack (except during startup, shutdown, or malfunction) at any time during operation of an HMIWI is a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emissionemissions limits;
- f) If CO CEMS is used to determine compliance with a CO emissions limit, operation of the HMIWI above the CO emissions limit as measured by the CO CEMS shall be a violation of the emissions limit;
- g) If a bag leak detection system is used, failure to initiate corrective action within one hour <u>ofafter</u> the bag leak detection system alarm, or failure to operate and maintain the fabric filter <u>suchso</u> that the alarm is not engaged

for more than 5 percent of the total operating time in a 6-month block reporting period_ shall be a violation of the PM emissions limit;

- h) If a bag leak detection system is used to demonstrate compliance with the opacity limit, failure to initiate corrective action within one hour <u>ofafter</u> the bag leak detection system alarm shall be a violation of the opacity emissions limit;
- i) If CEMS is used to determine compliance with a PM, HCl, Pb, Cd, and/or Hg emissions limit, operation of the HMIWI above the applicable emissions limit as measured by the CEMS shall be a violation of the emissions limit;
- j) If a continuous automated sampling system is used, operation of the HMIWI above the dioxin/furan emissions limit as measured by the continuous automated sampling system shall be a violation of the dioxin/furan emissions limit; or
- k) If a continuous automated sampling system is used, operation of the HMIWI above the Hg emissions limit as measured by the continuous automated sampling system shall be a violation of the Hg emissions limit.

(Source:	Amended	at	35	Ill.	Reg.	 effective)

Section 229.160 Compliance Requirements for Rural HMIWIs

- a) Prior to January 1, 2014, the requirements set forth in subsections (c) through (e) of this <u>sectionSection</u> shall apply to all rural HMIWIs subject to the emissions limits under Section 229.126 of this Part.
- b) On and after January 1, 2014, the requirements set forth in subsections (c) through (e) of this <u>sectionSection</u> shall apply to all rural HMIWIs that are not equipped with an air pollution control device and that are subject to the emissions limits under Section 229.126 of this Part.
- eac) Following the date on which the initial performance test is completed or is required to be completed under Section 229.142 of this Subpart, whichever date comes first, the owners or operators of a rural HMIWI shall not operate their HMIWI either above the maximum charge rate or below the minimum secondary chamber temperature measured as 3-hour rolling averages at all times, except during periods of startup or shutdown (calculated each hour as the average of the previous a 3 hour rolling average of the previous 3 operating hours) at all times.
- d) Operating parameter limits do not apply during performance tests.
- ebg) Except as provided in Section 229.164 of this Subpart, the simultaneous operation of a rural HMIWI above the maximum charge rate and below the minimum secondary chamber temperature (calculated as a 3-hour rolling average) shall constitute a violation of the PM, CO and dioxin/furan emission limits.

(S	ource:	Amended at	35	Ill.	Reg.			_, effective	
Section	229.162	Inspection	on I	Requir	ements	for	All	Rural HMIWIs	

a) Before January 1, 2014, each owner or operator of a rural HMIWI subject to the emission limits under Section 229.126 of this Part shall inspect the HMIWI according to the following schedule:

Each owner or operator of a rural HMIWI shall inspect the HMIWI according to the following schedule:

- 1) An initial inspection shall be conducted by September 15, 2000; and
- 2) An annual inspection shall be conducted by September 15 of each year thereafter.
- b) Each equipment inspection shall be conducted to ensure the proper operation of the <u>rural</u> HMIWI and, at a minimum, shall consist of the following steps:
- An inspection of all burners, pilot assemblies, and pilot sensing devices, cleaning the pilot flame sensor, as necessary;
- 2) An inspection of the primary and secondary chamber combustion air flow, adjusting, as necessary;
- 3) An inspection of the hinges and door latches, lubricating, as necessary;
 - 4) An inspection of dampers, fans, and blowers;
 - 5) An inspection of the HMIWI door and door gaskets;
 - 6) An inspection of all HMIWI motors;
- 7) An inspection of the primary chamber refractory lining, cleaning, repairing or replacing the lining, as necessary;
 - 8) An inspection of the incinerator shell for corrosion or hot spots;
- 9) An inspection of the secondary/tertiary chamber and stack, cleaning as necessary;
- 10) Where applicable, an inspection of the mechanical loader, including limit switches;
- 11) A visual inspection of the waste bed (grates), repairing or sealing, as necessary;
- 12) Where applicable, an inspection of air pollution control devices to ensure their proper operation;
 - 13) Where applicable, an inspection of the waste heat boiler systems;
 - 14) An inspection of all bypass stack components;
- 15) Calibration of thermocouples, sorbent feed systems and monitoring equipment; and
- 16) A general inspection of all equipment to ensure that it is maintained in good operating condition.
- c) The owner or operator of an a rural HMIWI shall document that, during the burn cycle immediately following the inspection required by this Section, the HMIWI is operating properly and make any necessary adjustments.

- d) All maintenance, adjustments, or repairs identified during the equipment inspection required under this Section shall be completed within 10 days after the inspection. The owner or operator of an HMIWI may have a longer period of time in which to complete any repairs identified as a result of the inspection required by this Section, provided that it makes this request to the Agency in writing, and the Agency approves the owner or operator of an HMIWI's request in writing.
- e) On and after January 1, 2014, the The owner or operator of a small, rural, medium, or large HMIWI subject to the emission limits under Section 229.125(c)— as applicable, or Section 229.126 of this Part, shall inspect the HMIWI as outlined in subsection (b) of this Section, according to the following schedule:
- 1) An initial equipment inspection shall be conducted by January 1, 2014; and
- 2) An annual equipment inspection shall be conducted by January 1 of each year thereafter.
- f) On and after January 1, 2014, the The owner or operator of an HMIWI subject to the emissions limits under Section 229.125(c) as applicable, or Section 229.126(c) of this Part, shall inspect the air pollution control device(s) devices, according to the following schedule:
- 1) An initial air pollution control device inspection shall be conducted by January 1, 2014; and
- 2) An annual air pollution control device inspection shall be conducted by January 1 of each year thereafter.
- g) Each air pollution control device inspection, as applicable, shall be conducted to ensure the proper operation of the device and, at a minimum, shall consist of the following steps:
- Where applicable, an inspection of the thermocouples, sorbent feed systems, and any other monitoring equipment, adjusting applicable calibration(s) calibrations, as necessary; and
- 2) A general inspection of the equipment to ensure that it is maintained in good operating condition.
- h) All maintenance, adjustments, or repairs identified during an air pollution control device inspection required under this Section shall be completed within 10 days after the inspection. The owner or operator of an HMIWI may have a longer period of time in which to complete any repairs identified as a result of the inspection required by this Section, provided that it makes this request to the Agency in writing, and the Agency approves the request in writing.

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(Source:	Amended	at	35	T11.	Reg.	, effective)

SUBPART I: MONITORING REQUIREMENTS

Section 229.166 Monitoring Requirements for All Small, Medium, and Large HMIWIS

- a) Each owner or operator of an HMIWI subject to the <u>emissionemissions</u> limits under Section 229.125(c) $_{\tau}$ as applicable, or Section 229.126(c) of this Part, shall comply with requirements of this Section according to the following schedule:
- Before January 1, 2014, for a small, medium or large HMIWI;
- 2) On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), for a small, medium or large HMIWI, and a rural HMIWI that is equipped with an air pollution control device(s).
- bab) Once the initial performance test required by Section 229.142 of this Part has been performed, and the site-specific minimum and maximum operating parameter values have been established, the owner or operator of an a small, medium or large HMIWI, as applicable, shall continuously monitor those parameters.
- <u>cbc</u>) The owner or operator of an <u>a small</u>, <u>medium or large</u> HMIWI, as applicable, shall comply with the following monitoring requirements:
- 1) 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 Appendix B of this Part (unless CEMS are used as a substitute for certain parameters as specified) such that these devices or methods measure and record values for these operating parameters at the frequencies indicated in Appendix B of this Part at all times, except during periods of startup and shutdown;
- 2) 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;
- 3) 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, or a selective noncatalytic reduction system is used to comply with the applicable emissions limits under Section 229.125(c) 229.125(b), as applicable, or Section 229.126(c) of this Part, 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 Section 229.142(a)(5) or (b)(5) Section 229.142 (e) of this Part; and
- 4) Record monitoring data at all times during HMTWI 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.
- d) If an HMIWI is equipped with an air pollution control device that includes a fabric filter and a PM CEMS is not used to demonstrate compliance, the owner or operator of the HMIWI may use a bag leak detection system to determine compliance with the PM emissions limit. The owner or operator shall meet the following requirements for each bag leak detection system installed:
- 1) Each triboelectric bag leak detection system may be installed, calibrated, operated, and maintained according to the

☐ Fabric Filter Bag Leak Detection Guidance, ☐ as incorporated by reference in Section 229.104;

- 2) The bag leak detection system shall be certified by the manufacturer as being capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less;
- The bag leak detection system sensor shall provide an output of relative
 PM loadings;
- 4) The bag leak detection system shall be equipped with a device to continuously record the output signal from the sensor;
- 5) The bag leak detection system shall be equipped with an audible alarm system that sounds automatically when an increase in relative PM emissions over a preset level is detected. The alarm shall be located where it is easily heard by plant operating personnel;
- 6) For positive pressure fabric filter systems, a bag leak detector shall be installed in each baghouse compartment or cell;
- 7) For negative pressure or induced air fabric filters, a bag leak detector shall be installed downstream of the fabric filter:
- 8) If multiple bag leak detectors are required, the bag leak detection system's instrumentation and alarm may be shared among detectors;
- 9) The baseline output shall be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time according to section 5.0 of the "Fabric Filter Bag Leak Detection Guidance," as incorporated by reference in Section 229.104;
- 10) Following initial adjustment of the system, the sensitivity or range,
 averaging period, alarm set points, or alarm delay time may not be
 adjusted. Increasing the sensitivity decreasing by more than 50 percent over a 365-day period is a violation,
 adjustment follows a complete fabric filter inspection that demonstrates that the fabric filter is in good operating condition. Each adjustment shall be recorded;
- 11) Maintain records Records of the results of each inspection, calibration, and validation check shall be maintained; and
- 12) The fabric filter must be operated and maintained such so that the bag leak detection system alarm is not engaged for more than 5 percent of the total operating time in a 6-month block reporting period; however, corrective action must be initiated within 1 hour of after the alarm.

(Source: Amended at 35 Ill. Reg. , effective	Source: 1	Amended at	35 Ill.	Req	, effective	
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Section 229.168 Monitoring Requirements for Rural HMIWIs

- a) Each owner or operator of a rural HMIWI subject to the emissions limits under Section 229.126 of this Part shall comply with requirements of this Section according to the following schedule:
 - 1) Before January 1, 2014, for a rural HMIWI; and
- 2) On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), for a rural HMIWI that is not equipped with an air pollution control device $\frac{(s)}{c}$.
- b) The owner or operator of each rural HMIWI shall comply with the following monitoring requirements:
- 1a) Install, calibrate according to manufacturer's specifications, maintain, and operate a device measuring and recording the temperature of the secondary chamber on a continuous basis, the output of which shall be recorded, at a minimum, once every minute of operation;
- 2b) Install, calibrate according to manufacturer's specifications, maintain, and operate a device that automatically measures and records the date, time, and weight of each charge fed into an HMIWI; and
- 3e) Record monitoring data at all times during HMIWI operation, except during 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 hours per calendar quarter that an HMIWI is combusting hospital waste or medical/infectious waste.

(Source:	Amended	at	35	Ill.	Req.	, effective		١
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SUBPART K: WASTE MANAGEMENT PLAN REQUIREMENTS

Section 229.180 Waste Management Requirements for Commercial HMIWIS Accepting
Waste Generated Off Site

- a) The owner or operator of any commercial HMIWI that accepts hospital waste or medical/infectious waste generated off-site shall:
- 1) 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
- 2) Conduct training and education programs in waste segregation for each of the company's waste generator customers;
- 3) Ensure that each waste generator customer prepares its own waste management plan that includes, at a minimum, the following elements:
- A) Segregation of recyclable wastes such as paper products, glass, batteries and metals;
- B) Segregation of non-recyclable wastes such as polyvinyl chloride plastics, pharmaceutical waste, and mercury-containing waste; and

C) Purchasing recycled or recyclable products :--:

424) Submit a waste management plan to the Agency, in accordance with Section 229.184(b) of this Part, that outlines the efforts that will be undertaken to implement the requirements distribute information as specified requirements specified in subsections (a)(1) through (a)(3) of this Section. and identifies the information that will be distributed.

b) Paper or electronic copies of the materials disseminated under this Section shall be made available to the Agency upon written request.

(Source: Amended at 35 Ill. Reg._____, effective ______)

SUBPART L: RECORDKEEPING AND REPORTING REQUIREMENTS

Section 229.182 Recordkeeping Requirements

- a) The owner or operator of an HMIWI subject to the emissions limits under Subpart E of this Part shall maintain records of the following information:
 - 1) The calendar date of each record;
 - 2) The following data, where applicable:
- A) Concentrations of all applicable pollutants listed in Section 229.125 (a) $_{7-}$ or (c), or in Section 229.126 (a) or (c) of this Part (as determined by the CEMS, if applicable), and any measurements of opacity as required under Section 229.125(b), (d), or (f) or Section 229.126(b) or (d);

Concentrations of all applicable pollutants listed in Section 229.125(b) or 229.126(b) of this Part (as determined by the CEMS, if applicable) and any measurements of opacity as required under Section 229.125(c) or 229.126(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) If a selective noncatalytic reduction system is used to comply, the amount and type of NOX reagent used during each hour of operation;
- H) If a selective noncatalytic reduction system is used to comply, the minimum secondary chamber temperature recorded during each minute of operation;
- IGI) The secondary chamber temperatures recorded during each minute of operation;
- JHJ) The liquor flow rate to the wet scrubber inlet during each minute of operation;

- <u>KTK</u>) The horsepower or amperage to the wet scrubber during each minute of operation;
- LUL) Any pressure drop across the wet scrubber system during each minute of operation:
- MKM) The temperature at the outlet from the wet scrubber during each minute of operation;
- NLN) The pH at the inlet to the wet scrubber during each minute of operation;
- Θ MO) Identification of any use of the bypass stack, including dates, times, and the duration of such use; and
- <u>PNP</u>) For sources complying with Section 229.166(c) $\frac{\text{(b)}(3)}{\text{(b)}}$ of this Part, all operating parameter data collected monitored; and
- Q) If a bag leak detection system is used, maintain records of the system alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken, as applicable.
- 3) Identification of any calendar days for which data on emissions rates or operating parameters specified under subsection (a)(2) of this Section have not been obtained, with an identification of the emissions rates or operating parameters not measured, reasons for not obtaining data, and a description of the corrective actions taken;
- 4) 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;
- 5) Identification of calendar days for which data on emissions rates or operating parameters specified under subsection (a)(2) of this Section exceeded the applicable limits, with a description of the exceedences, reasons for such exceedences, and a description of the corrective actions taken;
- 6) The results of the initial, annual, and any other subsequent performance tests conducted to determine compliance with the applicable emissions limits and/or to establish or re-establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable;
- 7) Records of calibration of any monitoring devices as required under Sections 229.166(c)(b)(1), (2) and (3) and 229.168 (b)(a)(1) and (2) of this Part; and
- 8) Identification of the names of all HMIWI operators who have met the criteria for qualification under Section 229.170 of this Part, 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 Section 229.172(a) of this Part, as required by Section 229.172(b) of this Part.

- b) The owner or operator of an HMIWI claiming an exemption from the emissions limits in this Part pursuant to Section 229.110(b) of this Part shall keep contemporaneous records identifying each period of time when only pathological waste, low-level radioactive waste, or chemotherapeutic waste is burned, including the calendar date and duration of such periods.
- c) The owner or operator of an HMIWI claiming an exemption pursuant to Section 229.110(c) of this Part shall keep records on a calendar quarter basis demonstrating that only pathological waste, low-level radioactive waste, or chemotherapeutic waste is burned.
- d) The owner or operator of a co-fired combustor claiming an exemption from the emissions limits under Section 229.110(d) of this Part shall maintain records on a calendar quarter basis of the relative weight of hospital waste and/or medical/infectious waste, and of all other fuels or waste combusted.
- e) The owner or operator of each HMIWI subject to the emissions limits under Section 229.125(c), or Section 229.126 of this Part, shall maintain records of the annual equipment inspection required under Section 229.162 of this Part.e) The owner or operator of each rural HMIWI shall maintain records of the annual equipment inspections required under Section 229.162 of this Part, any required maintenance, and any repairs not completed within 10 days after an inspection or the time frame established by the Agency.
- f) The owner or operator of each HMIWI subject to the emissions limits under Section 229.125(c) or 229.126(c) of this Part, shall maintain records of the annual air pollution control device inspection required under Section 229.162 of this Part.
- g) If a bag leak detection system is used, the owner or operator shall maintain records of the system alarm, the time of the alarm, the time corrective action was initiated and completed, a brief description of the cause of the alarm and the corrective action taken, as applicable.
- h) The owner or operator of each HMIWI, wherewhen applicable, shall maintain records of any required maintenance, adjustments, or repairs identified during an inspection required under Section 229.162 of this Part not completed within 10 days after the inspection or the timeframe approved in writing by the Agency.
- ifi) All records required under this Section shall be maintained onsite for a period of 5 years, in either paper copy or electronic format, unless an alternative format has been approved by the Agency in a permit condition.
- jgi) All records required to be maintained pursuant to this Section shall be made available to the Agency upon request.

(Source:	Amended	at	35	Ill.	Reg.	, effective
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Section 229.184 Reporting Requirements

a) The facilities manager and the responsible official for the affected source shall certify each report required under this Section.

- b) The owner or operator of an HMIWI shall submit to the Agency 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 Section 229.142 of this Part shall include:
- 1) Before January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, the test data and values for the site-specific operating parameters established pursuant to Section 229.142(a)(4), (5) or (6), as applicable, and a description, including sample calculations, of how the operating parameters were established during the initial performance test for an HMIWI subject to the emissions limits under Section 229.125(a) or 229.126(a) of this Part;

The test data and values for the site specific operating parameters established for an HMIWI pursuant to either Section 229.142(d), (e) or (f) of this Part, as applicable; and

- 2) On and after January 1, 2014, the test data and values for the site-specific operating parameters established pursuant to Section 229.142(b)(3), (4) or (5), as applicable, and a description, including sample calculations, of how the operating parameters were established during the initial performance test for an HMIWI subject to the emissions limits under Section 229.125(c) $_{\tau}$ or Section 229.126(c) of this Part;
- 3) If a bag leak detection system is used, analysis and supporting documentation demonstrating conformance with guidance and specifications for bag leak detection systems in Section 229.166(d)(1); and
- 424) A copy of the waste management plan required under Subpart K of this Part.
- c) All owners or operators of HMIWIs shall submit the information specified under this subsection (c) to the Agency, as follows:

All owners or operators of HMIWIs shall submit the information specified under this subsection (c) to the Agency by September 15, 2001 and by September 15 of each year thereafter. Once an HMIWI is issued a CAAPP permit, the owner or operator of an HMIWI shall submit these reports semi annually, in accordance with subsection (d) of this Section. The annual report shall include the following information:

- 1) By September 15, 2001, and by September 15 of each year thereafter, for an HMIWI subject to the emissions limits under Section 229.125(a) or 229.126(a) of this Part;
- 2) By January 1, 2014, and by January 1 of each year thereafter, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, for an HMIWI subject to the emissions limits under Section 229.125(c) or (e) $_{7}$ or Section 229.126(c) of this Part; and
- 3) The annual report required under subsection (c)(1) or (2) of this subsectionSection shall include the following information:

A (c)(1) Before January 1, 2014, the values for site-specific operating parameters established pursuant to Section 229.142(a)(4), (5) or (6) of this Part, as applicable;

- B) On and after January 1, 2014, except as provided for in Section 229.115(b)(3) or Section 229.116(c)(4), as applicable, the values for site-specific operating parameters established pursuant to Section 229.142(b)(3), (4) or (5) of this Part, as applicable;
- C(c)(2) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter, recorded for the calendar year being reported pursuant to Section 229.142(a)(4), (5) or (6), or Section 229.142(b)(3), (4) or (5) of this Part, as applicable; and for the calendar year preceding the year being reported;
- D) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to Section 229.142(a)(4), (5) or (6),— or Section 229.142(b)(3), (4) or (5), of this Part, as applicable, for the calendar year preceding the year being reported, in order to provide the Agency with a summary of the performance of the affected facility over a 2-year period;
 - E(c) (3) Any information recorded pursuant to Section 229.182(a)(3) through (5) of this Subpart for the calendar year being reported and for the calendar year preceding the year being reported;
 - F(c)(4) If no exceedences or malfunctions were recorded under Section 229.182(a)(3) through (a)(5) of this Subpart for the calendar year being reported, a statement that no exceedences occurred during the reporting period; and
 - G(c)(5) Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.
- d) Once an HMIWI is issued a CAAPP permit, the owner or operator of the HMIWI shall submit the reports required under subsection (c) of this Section semi-annually semiannually. The semiannual reports must be submitted within 60 days following the end of the reporting period. The first semiannual reporting period ends on June 30 of each year and the second semiannual reporting period ends on December 31 of each year.

Once the owner or operator of an HMIWI is required to submit semiannual reports, these 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) The owner or operator of each rural HMIWI subject to the emissions limits under Section 229.126(b) of this Part, shall submit an annual report containing all information listed in subsections (b) and (c) of this Section by no later than 60 days following the year in which the data was collected. Subsequent reports shall be sent no later than 12 calendar months following the previous report. Once the unit is subject to permitting requirements under the CAAPP, the owner or operator shall submit these reports semiannually in accordance with the schedule specified in subsection (d) of this Section.

(Source: Amended at 35 Ill. Reg. ______, effective _______)

Section 229.APPENDIX B Operating Parameters to be Monitored and Minimum Measurement and Recording Frequencies.

An "*X" in any box in this matrix means that measurement of that parameter is required.

MINIMUM FREQUENCYCONTROL FREQUENCYCONTROL SYSTEMOperating ParametersData
MeasurementData RecordingDry Scrubber Followed by Fabric FilterWet ScrubberDry
Scrubber Followed by Fabric Filter and Wet ScrubberSelective Noncatalytic
Reduction SystemMaximum Charge RatelContinuousOnce per hourXXXXMaximum Fabric
Filter Inlet TemperatureContinuousOnce per minuteXXMaximum Flue Gas
TemperatureContinuousOnce per minuteXXXMinimum Secondary Chamber
TemperatureContinuousOnce per minuteXXXXMinimum Dioxin/Furan Sorbent Flow
RateHourlyOnce per hourXXMinimum HCl Sorbent Flow RateHourlyOnce per
hourXXMinimum Reagent Flow RateHourly OnceRateHourlyOnce per hourXXMinimum Pressure Drop
Across the Wet Scrubber or Minimum Horsepower or Amperage to Wet
ScrubberContinuousOnce per minuteXXMinimum Scrubber Liquor Flow
RateContinuousOnce per hourXXMinimum Scrubber Liquor pHContinuousOnce per
hourXX1For batch HMIWIs, record the charge per batch.

Operating Parameters to be Monitored and Minimum Measurement and Recording Frequencies. An "x" in any box in this matrix means that measurement of that parameter is required.

MINIMUM FREQUENCY

CONTROL SYSTEMOperating

ParametersData Meas urementData RecordingDry Scrubber Followed by Fabric FilterWet ScrubberDry Scrubber Followed by Fabric Filter and Wet Scrubber Maximum1 Charge RateContinuousOnce per hourXXXMaximum Fabric Filter Inlet TemperatureContinuousOnce per minuteXXMaximum flue gas temperatureContinuousOnce per minuteXXXMinimum secondary chamber temperatureContinuousOnce per minuteXXXMinimum Dioxin/ Furan Sorbent Flow RateHourlyOnce per hourXXMinimum HCl Sorbent Flow RateHourlyOnce per hourXXMinimum Hg Sorbent Flow RateHourlyOnce per hourXXMinimum Pressure Drop Across the Wet Scrubber or Minimum Horsepower or Amperage to Wet ScrubberContinuousOnce per minuteXXMinimum Scrubber Liquor Flow RateContinuousOnce per minuteXXMinimum Scrubber Liquor pHContinuousOnce per minuteXX 1For batch HMIWIs, record the charge per batch.

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Section 229.APPENDIX C Reference Test Methods and Procedures for Performance Tests \div

The following test methods and procedures shall be used as specified in Section 229.140(e) of this Part, when conducting any performance test for the purpose of demonstrating compliance with the emissions limits established under this Part.

a) All performance tests shall consist of a minimum of 3 test runs conducted under representative operating conditions. The minimum sample time of 1 hour per test run shall be used unless otherwise indicated. In order to demonstrate compliance with the emissionemissions limits set forth in Subpart E of this Part, the arithmetic average of all 3 performance test runs shall be used.

- b) Method 1, at 40 CFR 60, incorporated by reference at Section 229.104(d) of this Part, shall be used to select the sampling location and number of traverse points.
- c) Method 2, at 40 CFR 6060, shall be used to determine average gas density, as well as to measure gas velocity.
- d) Method 3, 3A, or 3B, at 40 CFR 6060, shall be used for gas composition analysis, including measurement of oxygen concentration. Method 3, 3A or 3B, at 40 CFR 6060, shall be used simultaneously with each of the other reference methods. As an alternative to Method 3B, ASME PTC-19-10-1981-Part 10 may be used.
- d) Method 3 or 3A, at 40 CFR 60 shall be used for gas composition analysis, including measurement of oxygen concentration. Method 3 or 3A, at 40 CFR 60 shall be used simultaneously with each reference method.
- e) The pollutant concentrations shall be adjusted to 7 percent oxygen using the following equation:

Cadj = Cmeas (20.9-7)/(20.9-%02)

average of the previous 12 operating hours.

Where:

- Cadj = pollutant concentration adjusted to 7 percent oxygen; Cmeas = pollutant concentration measured on a dry basis (20.9-7) = 20.9 percent oxygen 7 percent oxygen (defined oxygen correction corrective basis); 20.9 = oxygen concentration in air, percent; and %02 = oxygen concentration measured on a dry basis, percent.
- f) Method 5, 26A, or 29, at 40 CFR 6060, shall be used to measure PM emissions. As an alternative, a PM CEMS may be used in determining compliance with PM emissions using a 12-hour rolling average, calculated each hour as the
- f) Method 5 or 29, at 40 CFR 60 shall be used to measure particulate matter emissions.
- g) Method 7 or 7E, at 40 CFR 6060, shall be used to measure NOX emissions.
- h) Method 6 or 6C, at 40 CFR 6060, shall be used to measure SO2 emissions.
- igi) Method 9, at 40 CFR 6060, shall be used to measure stack opacity. As an alternative, the use of a bag leak detection system or a PM CEMS to demonstrate compliance with the PM standards is considered demonstrative of compliance with the opacity requirements.
- jhi) Method 10 or 10B, at 40 CFR 6060, shall be used to measure CO emissions.
 As an alternative, a CO CEMS may be used to measure CO emissions.
- k) Method 22, at 40 CFR $60\underline{60}$, shall be used to measure fugitive ash emissions.
- 111) Method 23, at 40 CFR 6060, shall be used to measure total dioxin/furan emissions. As an alternative, the facility may elect to sample total dioxins/furans by installing, calibrating, maintaining, and operating a continuous automated sampling system for monitoring dioxin/furan emissions. The minimum sample time for Method 23 sampling shall be 4 hours per test run. If

the affected facility has selected the TEQ for dioxin/furans (set out in Appendix A of this Part), as provided under Section 229.125(b) or 229.126(b) of this Part, whichever is applicable, the following procedures shall be used to determine compliance:

- Measure the concentration of each dioxin/furan tetra-through-octa-congener emitted using Method 23;
- 2) For each dioxin/furan congener measured in accordance with subsection (i)(1) of this Section, multiply the congener concentration by its corresponding TEQ factor specified in Appendix A of this Part; and
- 3) Sum the products calculated in accordance with subsection (i)(2) of this Section to obtain the total concentration of dioxin/furans emitted in terms of TEQ.

mjm) Method 26 or 26A, at 40 CFR 6060, shall be used to measure HCl emissions. As an alternative, an HCl CEMS may be used to measure HCl emissions. Before January 1, 2014, if If the affected facility has selected the percentage reduction standard for HCl as provided under Section 229.125(a)(b) or 229.126(a)(b) of this Part, whichever is applicable, the percentage reduction in HCl emissions (%RHCl) is computed using the following formula:

 $(RHC1) = ((Ei-Eo)/Ei) \times 100$

Where:

percentage reduction of HClHCI emissions achieved;Ei = HClHCI emissions concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis); andEo HClandEo=metal emissions concentration (Pb, Cd, or Hg) measured at the control device outlet, corrected oxygen (dry basis). to 7 percent mkn) Method 29, at 40 CFR 6060, shall be used to measure Pb, Cd, and Hg As an alternative, ASTM D6784-02 may be used to measure Hg emissions; a multi-metals CEMS or Hg CEMS may be used to measure Pb, Cd, and Hg emissions; or the facility may elect to sample Hg by installing, calibrating, maintaining, and operating a continuous automated sampling system for monitoring Hg emissions. Before January 1, 2014, ifIfif the affected facility has selected the percentage reduction standards for metals as provided in Section 229.125(a) (b) or 229.126(a) (b) of this Part, whichever is applicable, the percentage reduction in emissions (%Rmetal) is computed using the following formula:

(%Rmetal) = ((Ei Eo)/Ei) x 100

(%Rmetal) = ((Ei-Eo)/Ei) x 100

Where:

ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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