1		TITLE 35: ENVIRONMENTAL PROTECTION					
2 3	SUBTITLE G: WASTE DISPOSAL						
	CHAPTER I: POLLUTION CONTROL BOARD						
4 5	50	JBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS					
6		PART 726					
7	CT A ND	ARDS FOR THE MANAGEMENT OF SPECIFIC HAZARDOUS WASTE AND					
8		ECIFIC TYPES OF HAZARDOUS WASTE MANAGEMENT FACILITIES					
9	51.	ECITE TITES OF HAZARDOOS WASTE MANAGEMENT PACILITIES					
10							
11		SUBPART A: GENERAL					
12		SOBITACI II. GENERALI					
13	Section						
14	726.102	Electronic Reporting					
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16		SUBPART C: RECYCLABLE MATERIALS USED IN A					
17		MANNER CONSTITUTING DISPOSAL					
18							
19	Section						
20	726.120	Applicability					
21	726.121	Standards Applicable to Generators and Transporters of Materials Used in a					
22		Manner that Constitutes Disposal					
23	726.122	Standards Applicable to Storers, Who Are Not the Ultimate Users, of Materials					
24		that Are To Be Used in a manner that Constitutes Disposal					
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28	SUI	BPART D: HAZARDOUS WASTE BURNED FOR ENERGY RECOVERY					
29							
30	Section						
31	726.130	Applicability (Repealed)					
32	726.131	Prohibitions (Repealed)					
33	726.132	Standards applicable to generators of hazardous waste fuel (Repealed)					
34	726.133	Standards applicable to transporters of hazardous waste fuel (Repealed)					
35	726.134	Standards applicable to marketers of hazardous waste fuel (Repealed)					
36	726.135	Standards applicable to burners of hazardous waste fuel (Repealed)					
37	726.136	Conditional exemption for spent materials and by-products exhibiting a					
38		characteristic of hazardous waste (Repealed)					
39		CLIDDADT E. LICED OIL DUDNED FOR ENERGY DECOVERY					
40		SUBPART E: USED OIL BURNED FOR ENERGY RECOVERY					
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43	726.140	Applicability (Repealed)					
<b>-1</b> J	120.17U	Application (Repeated)					

4.4	706 141	D1.11.141
44	726.141	Prohibitions (Repealed)
45	726.142	Standards applicable to generators of used oil burned for energy recovery
46	706 140	(Repealed)
47	726.143	Standards applicable to marketers of used oil burned for energy recovery
48	706144	(Repealed)
49	726.144	Standards applicable to burners of used oil burned for energy recovery (Repealed)
50		
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52		PRECIOUS METAL RECOVERY
53	~	
54	Section	
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56		
57		SUBPART G: SPENT LEAD-ACID BATTERIES BEING RECLAIMED
58	Section	
59	726.180	Applicability and Requirements
60		
61		SUBPART H: HAZARDOUS WASTE BURNED IN BOILERS
62		AND INDUSTRIAL FURNACES
63		
64	Section	
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66	726.201	Management Prior to Burning
67	726.202	Permit Standards for Burners
68	726.203	Interim Status Standards for Burners
69	726.204	Standards to Control Organic Emissions
70	726.205	Standards to Control PM
71	726.206	Standards to Control Metals Emissions
72	726.207	Standards to Control HCl and Chlorine Gas Emissions
73	726.208	Small Quantity On-Site Burner Exemption
74	726.209	Low Risk Waste Exemption
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85	726.302	Definition of Solid Waste
86	726.303	Standards Applicable to the Transportation of Solid Waste Military Munitions
		Transportation of Solid Hasto Hilliams Internations

87	726.304	Stand	ards Applicable to Emergency Responses					
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97			Mixed Waste					
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99		Exem	ption					
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105	726.360		cability of Closure Requirements to Storage Units					
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108	726.415		Conditions to Qualify for and Maintain a Transportation and Disposal Conditional					
109		Exem						
110	726.420	Treatment Standards for Eligible Waste						
111	726.425		cability of the Manifest and Transportation Condition					
112	726.430		iveness of a Transportation and Disposal Exemption					
113	726.435		Disposal of Exempted Waste					
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120	ZOC ADDENT	NT37 A	T' I 1T' HP 1D ( 1D ' ' C ) ( 1 T' ' C ) ( 1 T' ' C )					
121	726.APPEND		Tier I and Tier II Feed Rate and Emissions Screening Limits for Metals					
122	726.APPEND		Tier I Feed Rate Screening Limits for Total Chlorine					
123	726.APPEND	DIX C	Tier II Emission Rate Screening Limits for Free Chlorine and Hydrogen					
124	707 ADDENIE	NIV D	Chloride  Reference Air Composituations					
125	726.APPEND		Reference Air Concentrations  Rick Specific Description					
126	726.APPEND		Risk-Specific Doses Stock Pluma Piga					
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128 129	726.APPEND		Health-Based Limits for Exclusion of Waste-Derived Residues Potential PICs for Determination of Exclusion of Waste-Derived Residues					
129	720.731 LEVELY II TOLORGIA I TOS TOL DOLORIMITATION OF EXCLUSION OF WASIC-DELIVED RESIDUES							

130 726.APPENDIX I Methods Manual for Compliance with BIF Regulations 131 Guideline on Air Quality Models (Repealed) 726.APPENDIX J 132 726.APPENDIX K Lead-Bearing Materials that May be Processed in Exempt Lead Smelters 133 Nickel or Chromium-Bearing Materials that May Be Processed in Exempt 726.APPENDIX L 134 Nickel-Chromium Recovery Furnaces 135 726.APPENDIX M Mercury-Bearing Wastes that May Be Processed in Exempt Mercury 136 Recovery Units 137 Exempt Quantities for Small Quantity Burner Exemption 726.TABLE A 138 139 AUTHORITY: Implementing Sections 7.2 and 22.4 and authorized by Section 27 of the 140 Environmental Protection Act [415 ILCS 5/7.2, 22.4 and 27]. 141 142 SOURCE: Adopted in R85-22 at 10 Ill. Reg. 1162, effective January 2, 1986; amended in R86-1 143 at 10 Ill. Reg. 14156, effective August 12, 1986; amended in R87-26 at 12 Ill. Reg. 2900, 144 effective January 15, 1988; amended in R89-1 at 13 Ill. Reg. 18606, effective November 13, 145 1989; amended in R90-2 at 14 Ill. Reg. 14533, effective August 22, 1990; amended in R90-11 at 146 15 Ill. Reg. 9727, effective June 17, 1991; amended in R91-13 at 16 Ill. Reg. 9858, effective 147 June 9, 1992; amended in R92-10 at 17 Ill. Reg. 5865, effective March 26, 1993; amended in 148 R93-4 at 17 Ill. Reg. 20904, effective November 22, 1993; amended in R94-7 at 18 Ill. Reg. 12500, effective July 29, 1994; amended in R95-6 at 19 Ill. Reg. 10006, effective June 27, 1995; 149 150 amended in R95-20 at 20 Ill. Reg. 11263, effective August 1, 1996; amended in R96-10/R97-151 3/R97-5 at 22 Ill. Reg. 754, effective December 16, 1997; amended in R97-21/R98-3/R98-5 at 152 22 Ill. Reg. 18042, effective September 28, 1998; amended in R99-15 at 23 Ill. Reg. 9482. 153 effective July 26, 1999; amended in R00-13 at 24 III. Reg. 9853, effective June 20, 2000; amended in R02-1/R02-12/R02-17 at 26 III. Reg. 6667, effective April 22, 2002; amended in 154 R03-7 at 27 Ill. Reg. 4200, effective February 14, 2003; amended in R03-18 at 27 Ill. Reg. 155 156 12916, effective July 17, 2003; amended in R06-5/R06-6/R06-7 at 30 Ill. Reg. 3700, effective 157 February 23, 2006; amended in R06-16/R06-17/R06-18 at 31 Ill. Reg. 1096, effective December 20, 2006; amended in R07-5/R07-14 at 32 III. Reg. , effective 158 159 160 SUBPART G: SPENT LEAD-ACID BATTERIES BEING RECLAIMED 161 Section 726.180 Applicability and Requirements 162 163 164 a) Extent of exemption for spent lead-acid batteries from hazardous waste 165 management requirements. If an owner or operator generates, collects, transports, 166 stores, or regenerates lead-acid batteries for reclamation purposes, the owner or operator may be exempt from certain hazardous waste management requirements. 167 168 Subsections (a)(1) though (a)(5) of this Section indicate which requirements apply 169 to the owner or operator. Alternatively, the owner or operator may choose to manage its spent lead-acid batteries under the "Universal Waste" rule in 35 Ill. 170 Adm. Code 733. 171

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- If the batteries will be reclaimed through regeneration (such as by electrolyte replacement), the owner or operator is exempt from 35 Ill. Adm. Code 702, 703, 722 through 726 (except for 35 Ill. Adm. Code 722.111), and 728 and the notification requirements of section 3010 of RCRA, but the owner or operator is subject to 35 Ill. Adm. Code 721 and 722.111.
- If the batteries will be reclaimed other than through regeneration, and the owner or operator generates, collects, or transports the batteries, the owner or operator is exempt from 35 Ill. Adm. Code 702, 703, and 722 through 726 (except for 35 Ill. Adm. Code 722.111), and the notification requirements of section 3010 of RCRA, but the owner or operator is subject to 35 Ill. Adm. Code 721 and 722.111 and applicable provisions of 35 Ill. Adm. Code 728.
- 3) If the batteries will be reclaimed other than through regeneration, and the owner or operator stores the batteries, but the owner or operator is not the reclaimer, the owner or operator is exempt from 35 Ill. Adm. Code 702, 703, and 722 through 726 (except for 35 Ill. Adm. Code 722.111), and the notification requirements of section 3010 of RCRA, but the owner or operator is subject to 35 Ill. Adm. Code 721 and 722.111 and applicable provisions of 35 Ill. Adm. Code 728.
- 4) If the batteries will be reclaimed other than through regeneration, and the owner or operator stores the batteries before the owner or operator reclaims them, the owner or operator must comply with Section 726.180(b) and other requirements described in that subsection, and the owner or operator is subject to 35 Ill. Adm. Code 721 and 722.111 and applicable provisions of 35 Ill. Adm. Code 728.
- 5) If the batteries will be reclaimed other than through regeneration, and the owner or operator does not store the batteries before the owner or operator reclaims them, the owner or operator is exempt from 35 Ill. Adm. Code 702, 703, and 722 through 726 (except for 35 Ill. Adm. Code 722.111), and the notification requirements of section 3010 of RCRA, and the owner or operator is subject to 35 Ill. Adm. Code 721 and 722.111 and applicable provisions of 35 Ill. Adm. Code 728.
- b) Exemption for spent lead-acid batteries stored before reclamation other than through regeneration. The requirements of this subsection (b) apply to an owner or operator that stores spent lead-acid batteries before it reclaims them, where the owner or operator does not reclaim them through regeneration. The requirements are slightly different depending on the owner's or operator's RCRA permit status.

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217 218	1)		an interim status facility, the owner or operator must comply with the wing requirements:
219 220 221		A)	The notification requirements under Section 3010 of the Resource Conservation and Recovery Act (RCRA);
222 223		B)	All applicable provisions in Subpart A of 35 Ill. Adm. Code 725;
<ul><li>224</li><li>225</li><li>226</li></ul>		C)	All applicable provisions in Subpart B of 35 Ill. Adm. Code 725, except 35 Ill. Adm. Code 725.113 (waste analysis);
227 228 229		D)	All applicable provisions in Subparts C and D of 35 Ill. Adm. Cod. 725;
230 231 232 233		E)	All applicable provisions in Subpart E of 35 Ill. Adm. Code 725, except 35 Ill. Adm. Code 725.171 and 725.172 (dealing with the use of the manifest and manifest discrepancies);
234 235 236		F)	All applicable provisions in Subparts F through L of 35 Ill. Adm. Code 725; and
237 238		G)	All applicable provisions in 35 Ill. Adm. Code 702 and 703.
239 240	2)	For a	a permitted facility, the following requirements:
241 242		A)	The notification requirements under section 3010 of RCRA;
243 244		B)	All applicable provisions in Subpart A of 35 Ill. Adm. Code 724;
<ul><li>245</li><li>246</li><li>247</li></ul>		C)	All applicable provisions in Subpart B of 35 Ill. Adm. Code 724, except 35 Ill. Adm. Code 724.113 (waste analysis);
<ul><li>248</li><li>249</li><li>250</li></ul>		D)	All applicable provisions in Subparts C and D of 35 Ill. Adm. Code 724;
251 252 253 254		E)	All applicable provisions in Subpart E of 35 Ill. Adm. Code 724, except 35 Ill. Adm. Code 724.171 or 724.172 (dealing with the use of the manifest and manifest discrepancies);
<ul><li>255</li><li>256</li><li>257</li></ul>		F)	All applicable provisions in Subparts F through L of 35 Ill. Adm. Code 724; and
258			

259		G) All applicable provisions in 35 Ill. Adm. Code 702 and 703.
260		
261	(Sou	rce: Amended at 32 Ill. Reg, effective)
262		
263		SUBPART H: HAZARDOUS WASTE BURNED IN BOILERS
264		AND INDUSTRIAL FURNACES
265		
266	Section 726	.200 Applicability
267		
268	a)	The regulations of this Subpart H apply to hazardous waste burned or processed
269		in a boiler or industrial furnace (BIF) (as defined in 35 Ill. Adm. Code 720.110)
270		irrespective of the purpose of burning or processing, except as provided by
271		subsections (b), (c), (d), (g), and (h) of this Section. In this Subpart H, the term
272		"burn" means burning for energy recovery or destruction or processing for
273		materials recovery or as an ingredient. The emissions standards of Sections
274		726.204, 726.205, 726.206, and 726.207 apply to facilities operating under
275		interim status or under a RCRA permit, as specified in Sections 726.202 and
276		726.203.
277		
278	b)	Integration of the MACT standards.
279		
280		1) Except as provided by subsections(b)(2), (b)(3), and (b)(4) of this Section,
281		the standards of this Part do not apply to a new hazardous waste boiler or
282		industrial furnace unit that becomes subject to RCRA permit requirements
283		after October 12, 2005; or no longer apply when an owner or operator of
284		an existing hazardous waste boiler or industrial furnace unit demonstrates
285		compliance with the maximum achievable control technology (MACT)
286 287		requirements of federal subpart EEE of 40 CFR 63 (National Emission Standards for Hazardous Air Pollutants from Hazardous Waste
288		Combustors), incorporated by reference in 35 Ill. Adm. Code 720.111(b),
289		by conducting a comprehensive performance test and submitting to the
290		Agency a Notification of Compliance, pursuant to 40 CFR 63.1207(j)
291		(What are the performance testing requirements?) and 63.1210(d) (What
292		are the notification requirements?), documenting compliance with the
293		requirements of federal subpart EEE of 40 CFR 63. Nevertheless, even
294		after this demonstration of compliance with the MACT standards, RCRA
295		permit conditions that were based on the standards of this Part will
296		continue to be in effect until they are removed from the permit or the
297		permit is terminated or revoked, unless the permit expressly provides
298		otherwise.
299		
300		2) The following standards continue to apply:
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BOARD NOTE: Sections 9.1 and 39.5 of the Environmental Protection Act [415]
ILCS 5/9.1 and 39.5] make the federal MACT standards directly applicable to
entities in Illinois and authorize the Agency to issue permits based on the federal
standards. In adopting this subsection (b), USEPA stated as follows (at 64 Fed
Reg. 52828, 52975 (September 30, 1999)):

Under [the approach adopted by USEPA as a] final rule, MACT air
emissions and related operating requirements are to be included in title V

Under [the approach adopted by USEPA as a] final rule, MACT air emissions and related operating requirements are to be included in title V permits; RCRA permits will continue to be required for all other aspects of the combustion unit and the facility that are governed by RCRA (e.g., corrective action, general facility standards, other combustor-specific concerns such as materials handling, risk-based emissions limits and operating requirements, as appropriate, and other hazardous waste management units).

- c) The following hazardous wastes and facilities are not subject to regulation pursuant to this Subpart H:
  - 1) Used oil burned for energy recovery that is also a hazardous waste solely because it exhibits a characteristic of hazardous waste identified in Subpart C of 35 Ill. Adm. Code 721. Such used oil is subject to regulation pursuant to 35 Ill. Adm. Code 739, rather than this Subpart H;
  - 2) Gas recovered from hazardous or solid waste landfills, when such gas is burned for energy recovery;
  - 3) Hazardous wastes that are exempt from regulation pursuant to 35 Ill. Adm. Code 721.104 and 721.106(a)(3)(C) and (a)(3)(D) and hazardous wastes that are subject to the special requirements for conditionally exempt small quantity generators pursuant to 35 Ill. Adm. Code 721.105; and
  - 4) Coke ovens, if the only hazardous waste burned is USEPA hazardous waste no. K087 decanter tank tar sludge from coking operations.
- d) Owners and operators of smelting, melting, and refining furnaces (including pyrometallurgical devices, such as cupolas, sintering machines, roasters, and foundry furnaces, but not including cement kilns, aggregate kilns, or halogen acid furnaces burning hazardous waste) that process hazardous waste solely for metal recovery are conditionally exempt from regulation pursuant to this Subpart H, except for Sections 726.201 and 726.212.
  - To be exempt from Sections 726.202 through 726.211, an owner or operator of a metal recovery furnace or mercury recovery furnace must

200				4 6 11		
388		comp	mply with the following requirements, except that an owner or operator			
389				a nickel-chromium recovery furnace or a metal recovery		
390				burns baghouse bags used to capture metallic dust emitted by		
391				ecturing must comply with the requirements of subsection		
392				s Section, and an owner or operator of a lead recovery furnace		
393		that i	s subjec	ct to regulation under the Secondary Lead Smelting NESHAP		
394		of fe	deral su	bpart X of 40 CFR 63 (National Emission Standards for		
395		Haza	rdous A	Air Pollutants from Secondary Lead Smelting) must comply		
396		with	the requ	airements of subsection (h) of this Section:		
397						
398		A)	Prov	ide a one-time written notice to the Agency indicating the		
399		,		wing:		
400						
401			i)	The owner or operator claims exemption pursuant to this		
402			-/	subsection (d);		
403				oucoother (a),		
404			ii)	The hazardous waste is burned solely for metal recovery		
405			11)	consistent with the provisions of subsection (d)(2) of this		
406				Section;		
407				Section,		
408			iii)	The hazardous waste contains recoverable levels of metals;		
409			111)	,		
410				and		
			:)	The everyoner or encuestar will a small variety the second in a second		
411			iv)	The owner or operator will comply with the sampling and		
412				analysis and recordkeeping requirements of this subsection		
413				(d);		
414		D)	C			
415		B)		ble and analyze the hazardous waste and other feedstocks as		
416				ssary to comply with the requirements of this subsection (d)		
417			by us	sing appropriate methods; and		
418		~``				
419		C)		tain at the facility for at least three years records to document		
420				bliance with the provisions of this subsection (d), including		
421				s on levels of toxic organic constituents and Btu value of the		
422				e and levels of recoverable metals in the hazardous waste		
423			comp	pared to normal non-hazardous waste feedstocks.		
424						
425	2)	A haz	zardous	waste meeting either of the following criteria is not processed		
426		solel	y for me	etal recovery:		
427						
428		A)	The h	nazardous waste has a total concentration of organic		
429				oounds listed in Appendix H to 35 Ill. Adm. Code 721		
430				eding 500 ppm by weight, as fired, and so is considered to be		

431 burned for destruction. The concentration of organic compounds 432 in a waste as-generated may be reduced to the 500 ppm limit by 433 bona fide treatment that removes or destroys organic constituents. 434 Blending for dilution to meet the 500 ppm limit is prohibited, and 435 documentation that the waste has not been impermissibly diluted must be retained in the records required by subsection (d)(1)(C) of 436 437 this Section; or 438 439 B) The hazardous waste has a heating value of 5,000 Btu/lb or more, 440 as-fired, and is so considered to be burned as fuel. The heating 441 value of a waste as-generated may be reduced to below the 5,000 442 Btu/lb limit by bona fide treatment that removes or destroys 443 organic constituents. Blending for dilution to meet the 5,000 444 Btu/lb limit is prohibited and documentation that the waste has not 445 been impermissibly diluted must be retained in the records required by subsection (d)(1)(C) of this Section. 446 447 448 3) 449 450 451 452

subsection (d)(3):

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- To be exempt from Sections 726.202 through 726.211, an owner or operator of a lead, nickel-chromium, or mercury recovery furnace, except for an owner or operator of a lead recovery furnace that is subject to regulation pursuant to the Secondary Lead Smelting NESHAP of subpart X of 40 CFR 63, or a metal recovery furnace that burns baghouse bags used to capture metallic dusts emitted by steel manufacturing must provide a one-time written notice to the Agency identifying each hazardous waste burned and specifying whether the owner or operator claims an exemption for each waste pursuant to this subsection (d)(3) or subsection (d)(1) of this Section. The owner or operator must comply with the requirements of
  - A) The hazardous wastes listed in Appendices K, L, and M of this Part and baghouse bags used to capture metallic dusts emitted by steel manufacturing are exempt from the requirements of subsection (d)(1) of this Section, provided the following are true:

subsection (d)(1) of this Section for those wastes claimed to be exempt

requirements for those wastes claimed to be exempt pursuant to this

pursuant to that subsection and must comply with the following

i) A waste listed in Appendix K of this Part must contain recoverable levels of lead, a waste listed in Appendix L of this Part must contain recoverable levels of nickel or chromium, a waste listed in Appendix M of this Part must contain recoverable levels of mercury and contain less than 500 ppm of Appendix H to 35 Ill. Adm. Code 721 organic

474 475			constituents, and baghouse bags used to capture metallic dusts emitted by steel manufacturing must contain
476			recoverable levels of metal;
477			
478		ii)	The waste does not exhibit the toxicity characteristic of 35
479			Ill. Adm. Code 721.124 for an organic constituent;
480			
481		iii)	The waste is not a hazardous waste listed in Subpart D of
482			35 Ill. Adm. Code 721 because it is listed for an organic
483			constituent, as identified in Appendix G of 35 Ill. Adm.
484			Code 721; and
485			
486		iv)	The owner or operator certifies in the one-time notice that
487			hazardous waste is burned pursuant to the provisions of
488			subsection (d)(3) of this Section and that sampling and
489			analysis will be conducted or other information will be
490			obtained as necessary to ensure continued compliance with
491			these requirements. Sampling and analysis must be
492			conducted according to subsection (d)(1)(B) of this Section,
493			and records to document compliance with subsection (d)(3)
494			of this Section must be kept for at least three years.
495			
496	B)		Agency may decide, on a case-by-case basis, that the toxic
497			nic constituents in a material listed in Appendix K, Appendix
498			Appendix M of this Part that contains a total concentration of
499			than 500 ppm toxic organic compounds listed in Appendix H
500			Ill. Adm. Code 721 may pose a hazard to human health and
501			nvironment when burned in a metal recovery furnace exempt
502			the requirements of this Subpart H. Under these
503			mstances, after adequate notice and opportunity for comment,
504			netal recovery furnace will become subject to the requirements
505			s Subpart H when burning that material. In making the
506			d determination, the Agency must consider the following
507		facto	rs:
508			
509		i)	The concentration and toxicity of organic constituents in
510			the material;
511			
512		ii)	The level of destruction of toxic organic constituents
513			provided by the furnace; and
514			
515		iii)	Whether the acceptable ambient levels established in
516			Appendix D or E of this Part will be exceeded for any toxic

517 518 519 520		organic compound that may be emitted based on dispersion modeling to predict the maximum annual average off-site ground level concentration.
521 522 523 524	e)	The standards for direct transfer operations pursuant to Section 726.211 apply only to facilities subject to the permit standards of Section 726.202 or the interim status standards of Section 726.203.
525 526 527	f)	The management standards for residues pursuant to Section 726.212 apply to any BIF burning hazardous waste.
528 529 530 531 532 533 534 535	g)	Owners and operators of smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, sintering machines, roasters, and foundry furnaces) that process hazardous waste for recovery of economically significant amounts of the precious metals gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these metals are conditionally exempt from regulation pursuant to this Subpart H, except for Section 726.212. To be exempt from Sections 726.202 through 726.211, an owner or operator must do the following:
536 537		1) Provide a one-time written notice to the Agency indicating the following:
538 539 540		A) The owner or operator claims exemption pursuant to this Section,
541 542		B) The hazardous waste is burned for legitimate recovery of precious metal, and
543 544 545		C) The owner or operator will comply with the sampling and analysis and recordkeeping requirements of this Section;
546 547 548 549		Sample and analyze the hazardous waste, as necessary, to document that the waste is burned for recovery of economically significant amounts of the metals and that the treatment recovers economically significant amounts of precious metal; and
551 552 553 554 555		Maintain, at the facility for at least three years, records to document that all hazardous wastes burned are burned for recovery of economically significant amounts of precious metal.
556 557 558	h)	An owner or operator of a lead recovery furnace that processes hazardous waste for recovery of lead and which is subject to regulation pursuant to the Secondary Lead Smelting NESHAP of subpart X of 40 CFR 63, is conditionally exempt
559		from regulation pursuant to this Subpart H, except for Section 726.201. To

560		become exempt, an owner or operator must provide a one-time notice to the
561		Agency identifying each hazardous waste burned and specifying that the owner or
562		operator claims an exemption pursuant to this subsection (h). The notice also
563		must state that the waste burned has a total concentration of non-metal
564		compounds listed in Appendix H to 35 Ill. Adm. Code 721 of less than 500 ppm
565		by weight, as fired and as provided in subsection (d)(2)(A) of this Section, or is
566		listed in Appendix K to this Part.
567		
568	i)	Abbreviations and definitions. The following definitions and abbreviations are
569	,	used in this Subpart H:
570		
571		"APCS" means air pollution control system.
572		
573		"BIF" means boiler or industrial furnace.
574		
575		"Carcinogenic metals" means arsenic, beryllium, cadmium, and
576		chromium.
577		
578		"CO" means carbon monoxide.
579		co means earoth monoxide.
580		"Continuous monitor" is a monitor that continuously samples the regulated
581		parameter without interruption, that evaluates the detector response at least
582		once each 15 seconds, and that computes and records the average value at
583		least every 60 seconds.
584		BOARD NOTE: Derived from 40 CFR 266.100(e)(6)(i)(B)( $I$ )( $i$ ) and
585		(e)(6)(ii)(B)(1).
586		<u>(едодидъдт).</u>
587		"DRE" means destruction or removal efficiency.
588		DRE means destruction of removal efficiency.
589		"cu m" or "m <sup>3</sup> " means cubic meters.
590		cu iii oi iii iiicans cubic meters.
590 591		"E" means "ten to the power." For example, "XE-Y" means "X times ten
592		to the -Y power."
592 593		to the -1 power.
593 594		"Food rates" are managered as anapified in Section 726 202(a)(6)
595		"Feed rates" are measured as specified in Section 726.202(e)(6).
595 596		"Good engineering practice stack height" is as defined by federal 40 CFR
597		51.100(ii) (Definitions), incorporated by reference in 35 Ill. Adm. Code
598		720.111(b).
599		WIICH masses have sould be
600		"HC" means hydrocarbon.
601		WITCHE 1 1 1 11 11
602		"HCl" means hydrogen chloride gas.

602	
603 604	"Hourly ralling average" many the withmatic mean of the 60 most recent
	"Hourly rolling average" means the arithmetic mean of the 60 most recent
605	one-minute average values recorded by the continuous monitoring system.
606	BOARD NOTE: Derived from 40 CFR 266.100(e)(6)(i)(B)(1)(ii).
607	HIZH IZ 1 .
608	"K" means Kelvin.
609	M 37 A H 1 1,
610	"kVA" means kilovolt amperes.
611	ID (CTI)
612	"MEI" means maximum exposed individual.
613	
514	"MEI location" means the point with the maximum annual average off-site
515	(unless on-site is required) ground level concentration.
516	
517	"Noncarcinogenic metals" means antimony, barium, lead, mercury,
518	thallium, and silver.
519	
520	"One hour block average" means the arithmetic mean of the one minute
521	averages recorded during the 60-minute period beginning at one minute
522	after the beginning of the preceding clock hour.
523	BOARD NOTE: Derived from 40 CFR 266.100(e)(6)(ii)(B)(2).
524	
625	"PIC" means product of incomplete combustion.
626	
527	"PM" means particulate matter.
528	
529	"POHC" means principal organic hazardous constituent.
630	
631	"ppmv" means parts per million by volume.
632	
633	"QA/QC" means quality assurance and quality control.
634	
535	"Rolling average for the selected averaging period" means the arithmetic
636	mean of one hour block averages for the averaging period.
537	BOARD NOTE: Derived from 40 CFR 266.100(e)(6)(ii)(B)(2).
538	
539	"RAC" means reference air concentration, the acceptable ambient level for
540	the noncarcinogenic metals for purposes of this Subpart. RACs are
541	specified in Appendix D of this Part.
642	
643	"RSD" means risk-specific dose, the acceptable ambient level for the
544	carcinogenic metals for purposes of this Subpart. RSDs are specified in
545	Appendix E of this Part.

646		
647		"SSU" means "Saybolt Seconds Universal," a unit of viscosity measured
648		by ASTM D 88-87 (Standard Test Method for Saybolt Viscosity) or D
649		2161-87 (Standard Practice for Conversion of Kinematic Viscosity to
650		Saybolt Universal or to Saybolt Furol Viscosity), each incorporated by
651		reference in 35 Ill. Adm. Code 720.111(a).
652		
653		"TCLP test" means Method 1311 (Toxicity Characteristic Leaching
654		Procedure) in "Test Methods for Evaluating Solid Waste,
655		Physical/Chemical Methods," USEPA publication number EPA-530/SW-
656		846, incorporated by reference in 35 Ill. Adm. Code 720.111(a), as used
657		for the purposes of 35 Ill. Adm. Code 721.124.
658		for the purposes of 55 m. ram. Code 721.124.
659		"TESH" means terrain-adjusted effective stack height (in meters).
660		
661		"Tier I." See Section 726.206(b).
662		
663		"Tier II." See Section 726.206(c).
664		
665		"Tier III." See Section 726.206(d).
666		
667		"Toxicity equivalence" is estimated, pursuant to Section 726.204(e), using
668		section 4.0 (Procedures for Estimating the Toxicity Equivalence of
669		Chlorinated Dibenzo-p-Dioxin and Dibenzofuran Congeners) in appendix
670		IX to 40 CFR 266 (Methods Manual for Compliance with the BIF
671		Regulations), incorporated by reference in 35 Ill. Adm. Code 720.111(b)
672		(see Appendix I of this Part).
673		
674		"mg" means microgram.
675		
676	(Sou	rce: Amended at 32 Ill. Reg, effective)
677		
678	Section 726	5.202 Permit Standards for Burners
679		
680	a)	Applicability.
681		
682		1) General. An owner or operator of a BIF that burns hazardous waste and
683		which does not operate under interim status must comply with the
684		requirements of this Section and 35 Ill. Adm. Code 703.208 and 703.232,
685		unless exempt pursuant to the small quantity burner exemption of Section
686		726.208.
687		
688		2) Applicability of 35 Ill. Adm. Code 724 standards. An owner or operator

689		of a l	BIF that burns hazardous waste is subject to the following provisions
690		of 35	Ill. Adm. Code 724, except as provided otherwise by this Subpart H:
691			
692		A)	In Subpart A (General), 35 Ill. Adm. Code 724.104;
693			
694		B)	In Subpart B (General facility standards), 35 Ill. Adm. Code
695			724.111 through 724.118;
696		~	I C 1 4 C /D 1 1 1 2 1 2 2 1
697		C)	In Subpart C (Preparedness and prevention), 35 Ill. Adm. Code
698			724.131 through 724.137;
599 700		D)	In Colonest D (Continuous land)
700		D)	In Subpart D (Contingency plan and emergency procedures), 35
701 702			Ill. Adm. Code 724.151 through 724.156;
702 703		E)	In Submort E (Manifact questom record/coming and reporting) the
703 704		L)	In Subpart E (Manifest system, recordkeeping and reporting), the applicable provisions of 35 Ill. Adm. Code 724.171 through
705			724.177;
705 706			724.177,
707		F)	In Subpart F (Releases from Solid Waste Management
708		- /	<u>Units)(Corrective Action)</u> , 35 Ill. Adm. Code 724.190 and
709			724.201;
710			, - , - , - ,
711		G)	In Subpart G (Closure and post-closure), 35 Ill. Adm. Code
712		,	724.211 through 724.215;
713			,
714		H)	In Subpart H (Financial requirements), 35 Ill. Adm. Code 724.241,
715		ŕ	724.242, 724.243, and 724.247 through 724.251, except that the
716			State of Illinois and the federal government are exempt from the
717			requirements of Subpart H of 35 Ill. Adm. Code 724; and
718			
719		I)	Subpart BB (Air emission standards for equipment leaks), except
720			35 Ill. Adm. Code 724.950(a).
721			
722	b)	Hazardous w	vaste analysis.
723			
724			owner or operator must provide an analysis of the hazardous waste
725			quantifies the concentration of any constituent identified in Appendix
726			35 Ill. Adm. Code 721 that is reasonably expected to be in the waste.
727			constituents must be identified and quantified if present, at levels
728			table by using appropriate analytical methods. The constituents
729			in Appendix H of 35 Ill. Adm. Code 721 that are excluded from this
730 731		-	rsis must be identified and the basis for their exclusion explained.  analysis must provide all information required by this Subpart H and
/ 1		11118	analysis muse diovide an unormanon required by this Siibbart H and

35 Ill. Adm. Code 703.208 and 703.232 and must enable the Agency to prescribe such permit conditions as are necessary to adequately protect human health and the environment. Such analysis must be included as a portion of the Part B permit application, or, for facilities operating under the interim status standards of this Subpart H, as a portion of the trial burn plan that may be submitted before the Part B application pursuant to provisions of 35 Ill. Adm. Code 703.232(g), as well as any other analysis required by the Agency. The owner or operator of a BIF not operating under the interim status standards must provide the information required by 35 Ill. Adm. Code 703.208 and 703.232 in the Part B application to the greatest extent possible.

- 2) Throughout normal operation, the owner or operator must conduct sampling and analysis as necessary to ensure that the hazardous waste, other fuels, and industrial furnace feedstocks fired into the BIF are within the physical and chemical composition limits specified in the permit.
- c) Emissions standards. An owner or operator must comply with emissions standards provided by Sections 726.204 through 726.207.
- d) Permits.
  - 1) The owner or operator must burn only hazardous wastes specified in the facility permit and only under the operating conditions specified pursuant to subsection (e) of this Section, except in approved trial burns under the conditions specified in 35 Ill. Adm. Code 703.232.
  - 2) Hazardous wastes not specified in the permit must not be burned until operating conditions have been specified under a new permit or permit modification, as applicable. Operating requirements for new wastes must be based on either trial burn results or alternative data included with Part B of a permit application pursuant to 35 Ill. Adm. Code 703.208.
  - 3) BIFs operating under the interim status standards of Section 726.203 are permitted pursuant to procedures provided by 35 Ill. Adm. Code 703.232(g).
  - A permit for a new BIF (those BIFs not operating under the interim status standards) must establish appropriate conditions for each of the applicable requirements of this Section, including but not limited to allowable hazardous waste firing rates and operating conditions necessary to meet the requirements of subsection (e) of this Section, in order to comply with the following standards:

- A) For the period beginning with initial introduction of hazardous waste and ending with initiation of the trial burn, and only for the minimum time required to bring the device to a point of operational readiness to conduct a trial burn, not to exceed a duration of 720 hours operating time when burning hazardous waste, the operating requirements must be those most likely to ensure compliance with the emission standards of Sections 726.204 through 726.207, based on the Agency's engineering judgment. If the applicant is seeking a waiver from a trial burn to demonstrate conformance with a particular emission standard, the operating requirements during this initial period of operation must include those specified by the applicable provisions of Section 726.204, Section 726.205, Section 726.206, or Section 726.207. The Agency must extend the duration of this period for up to 720 additional hours when good cause for the extension is demonstrated by the applicant.
- B) For the duration of the trial burn, the operating requirements must be sufficient to demonstrate compliance with the emissions standards of Sections 726.204 through 726.207 and must be in accordance with the approved trial burn plan;
- C) For the period immediately following completion of the trial burn, and only for the minimum period sufficient to allow sample analysis, data computation, submission of the trial burn results by the applicant, review of the trial burn results, and modification of the facility permit by the Agency to reflect the trial burn results, the operating requirements must be those most likely to ensure compliance with the emission standards Sections 726.204 through 726.207 based on the Agency's engineering judgment.
- D) For the remaining duration of the permit, the operating requirements must be those demonstrated in a trial burn or by alternative data specified in 35 Ill. Adm. Code 703.208, as sufficient to ensure compliance with the emissions standards of Sections 726.204 through 726.207.
- e) Operating requirements.
  - 1) General. A BIF burning hazardous waste must be operated in accordance with the operating requirements specified in the permit at all times when there is hazardous waste in the unit.

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- 2) Requirements to ensure compliance with the organic emissions standards.
  - DRE (destruction or removal efficiency) standard. Operating A) conditions must be specified in either of the following ways: on a case-by-case basis for each hazardous waste burned, which conditions must be demonstrated (in a trial burn or by alternative data, as specified in 35 Ill. Adm. Code 703.208) to be sufficient to comply with the DRE performance standard of Section 726.204(a), or as special operating requirements provided by Section 726.204(a)(4) for the waiver of the DRE trial burn. When the DRE trial burn is not waived pursuant to Section 726.204(a)(4), each set of operating requirements must specify the composition of the hazardous waste (including acceptable variations in the physical and chemical properties of the hazardous waste that will not affect compliance with the DRE performance standard) to which the operating requirements apply. For each such hazardous waste, the permit must specify acceptable operating limits including, but not limited to, the following conditions, as appropriate:
    - i) Feed rate of hazardous waste and other fuels measured and specified as prescribed in subsection (e)(6) of this Section;
    - ii) Minimum and maximum device production rate when producing normal product expressed in appropriate units, measured and specified as prescribed in subsection (e)(6) of this Section;
    - iii) Appropriate controls of the hazardous waste firing system;
    - iv) Allowable variation in BIF system design or operating procedures;
    - v) Minimum combustion gas temperature measured at a location indicative of combustion chamber temperature, measured, and specified as prescribed in subsection (e)(6) of this Section;
    - vi) An appropriate indicator of combustion gas velocity, measured and specified as prescribed in subsection (e)(6) of this Section, unless documentation is provided pursuant to 35 Ill. Adm. Code 703.232 demonstrating adequate combustion gas residence time; and

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- vii) Such other operating requirements as are necessary to ensure that the DRE performance standard of Section 726.204(a) is met.
- B) CO and hydrocarbon (HC) standards. The permit must incorporate a CO limit and, as appropriate, a HC limit as provided by Section 726.204(b), (c), (d), (e), and (f). The permit limits must be specified as follows:
  - i) When complying with the CO standard of Section 726.204(b)(1), the permit limit is 100 ppmv;
  - ii) When complying with the alternative CO standard pursuant to Section 726.204(c), the permit limit for CO is based on the trial burn and is established as the average over all valid runs of the highest hourly rolling average CO level of each run; and, the permit limit for HC is 20 ppmv (as defined in Section 726.204(c)(1)), except as provided in Section 726.204(f); or
  - iii) When complying with the alternative HC limit for industrial furnaces pursuant to Section 726.204(f), the permit limit for HC and CO is the baseline level when hazardous waste is not burned as specified by that subsection.
- C) Start-up and shut-down. During start-up and shut-down of the BIF, hazardous waste (except waste fed solely as an ingredient under the Tier I (or adjusted Tier I) feed rate screening limits for metals and chloride/chlorine, and except low risk waste exempt from the trial burn requirements pursuant to Sections 726.204(a)(5), 726.205, 726.206, and 726.207) must not be fed into the device, unless the device is operating within the conditions of operation specified in the permit.
- Requirements to ensure conformance with the particulate matter (PM) standard.
  - A) Except as provided in subsections (e)(3)(B) and (e)(3)(C) of this Section, the permit must specify the following operating requirements to ensure conformance with the PM standard specified in Section 726.205:

904				
905			i)	Total ash feed rate to the device from hazardous waste,
906			-)	other fuels, and industrial furnace feedstocks, measured and
907				specified as prescribed in subsection (e)(6) of this Section;
908				
909			ii)	Maximum device production rate when producing normal
910			/	product expressed in appropriate units, and measured and
911				specified as prescribed in subsection (e)(6) of this Section;
912				(*)(*) ********************************
913			iii)	Appropriate controls on operation and maintenance of the
914			/	hazardous waste firing system and any air pollution control
915				system (APCS);
916				-5 (-2
917			iv)	Allowable variation in BIF system design including any
918			/	APCS or operating procedures; and
919				
920			v)	Such other operating requirements as are necessary to
921			• /	ensure that the PM standard in Section
922				726.205(a) $726.211(b)$ is met.
923				
924		B)	Perm	it conditions to ensure conformance with the PM standard
925				not be provided for facilities exempt from the PM standard
926				ant to Section 726.205(b);
927			1	<i>\'\'</i>
928		C)	For c	ement kilns and light-weight aggregate kilns, permit
929				itions to ensure compliance with the PM standard must not
930				the ash content of hazardous waste or other feed materials.
931				
932	4)	Requ	irement	ts to ensure conformance with the metals emissions standard.
933	,	•		
934		A)	For c	onformance with the Tier I (or adjusted Tier I) metals feed
935				screening limits of Section 726.206(b) or (e), the permit must
936				fy the following operating requirements:
937				
938			i)	Total feed rate of each metal in hazardous waste, other
939				fuels and industrial furnace feedstocks measured and
940				specified pursuant to provisions of subsection (e)(6) of this
941				Section;
942				
943			ii)	Total feed rate of hazardous waste measured and specified
944				as prescribed in subsection (e)(6) of this Section; and
945				
946			iii)	A sampling and metals analysis program for the hazardous

947			waste, other fuels and industrial furnace feedstocks;
948		_	
949	B)		onformance with the Tier II metals emission rate screening
950			pursuant to Section 726.206(c) and the Tier III metals
951			ols pursuant to Section 726.206(d), the permit must specify
952		the fo	llowing operating requirements:
953			
954		i)	Maximum emission rate for each metal specified as the
955			average emission rate during the trial burn;
956			
957		ii)	Feed rate of total hazardous waste and pumpable hazardous
958			waste, each measured and specified as prescribed in
959			subsection (e)(6)(A) of this Section;
960			
961		iii)	Feed rate of each metal in the following feedstreams,
962			measured and specified as prescribed in subsections (e)(6)
963			of this Section: total feed streams; total hazardous waste
964			feed; and total pumpable hazardous waste feed;
965			
966		iv)	Total feed rate of chlorine and chloride in total feed streams
967		,	measured and specified as prescribed in subsection (e)(6) of
968			this Section;
969			
970		v)	Maximum combustion gas temperature measured at a
971		,	location indicative of combustion chamber temperature,
972			and measured and specified as prescribed in subsection
973			(e)(6) of this Section;
974			(-)(-)
975		vi)	Maximum flue gas temperature at the inlet to the PM APCS
976		12)	measured and specified as prescribed in subsection (e)(6) of
977			this Section;
978			
979		vii)	Maximum device production rate when producing normal
980		111)	product expressed in appropriate units and measured and
981			specified as prescribed in subsection (e)(6) of this Section;
982			specified as presented in subsection (e)(e) of this section,
983		viii)	Appropriate controls on operation and maintenance of the
984		<b>V</b> 1111 <i>)</i>	hazardous waste firing system and any APCS;
985			nazardous waste firing system and any 14 CB,
986		ix)	Allowable variation in BIF system design including any
987		IAJ	APCS or operating procedures; and
988			At C5 of operating procedures, and
989		v)	Such other operating requirements as are necessary to
707		x)	Such other operating requirements as are necessary to

990		ensure that the metals standards pursuant to Section
991		726.206(c) or (d) are met.
992		
993	C) F	For conformance with an alternative implementation approach
994	a	pproved by the Agency pursuant to Section 726.206(f), the permit
995	n	nust specify the following operating requirements:
996		
997	i)	Maximum emission rate for each metal specified as the
998		average emission rate during the trial burn;
999		
1000	ii	i) Feed rate of total hazardous waste and pumpable hazardous
1001		waste, each measured and specified as prescribed in
1002		subsection (e)(6)(A) of this Section;
1003		
1004	ii	ii) Feed rate of each metal in the following feedstreams,
1005		measured and specified as prescribed in subsection (e)(6) or
1006		this Section: total hazardous waste feed; and total
1007		pumpable hazardous waste feed;
1008		rr
1009	iv	v) Total feed rate of chlorine and chloride in total feed streams
1010	•	measured and specified prescribed in subsection (e)(6) of
1011		this Section;
1012		and Section,
1013	v	Maximum combustion gas temperature measured at a
1014	·	location indicative of combustion chamber temperature,
1015		and measured and specified as prescribed in subsection
1016		(e)(6) of this Section;
1017		(c)(0) of this section,
1018	V	i) Maximum flue gas temperature at the inlet to the PM APCS
1019	•	measured and specified as prescribed in subsection (e)(6) of
1020		this Section;
1020		this section,
1022	<b>X</b> 7	ii) Maximum device production rate when producing normal
1023	ν.	product expressed in appropriate units and measured and
1023		
1025		specified as prescribed in subsection (e)(6) of this Section;
1026	17	iii) Appropriate controls on operation and maintenance of the
1027	ν.	, , , ,
1027		hazardous waste firing system and any APCS;
		Allowable veriation in DIE existent degion including any
1029	ix	
1030		APCS or operating procedures; and
1031		Cycle other energia a magnitude of
1032	X)	Such other operating requirements as are necessary to

1033 1034 1035				ensure that the metals standards pursuant to Section 726.206(c) or (d) are met.
1036 1037	5)	Requ stand		ts to ensure conformance with the HCl and chlorine gas
1038 1039 1040 1041		A)	rate s	conformance with the Tier I total chlorine and chloride feed screening limits of Section 726.207(b)(1), the permit must ify the following operating requirements:
1042 1043 1044 1045			i)	Feed rate of total chlorine and chloride in hazardous waste, other fuels and industrial furnace feedstocks measured and specified as prescribed in subsection (e)(6) of this Section;
1046 1047 1048 1049			ii)	Feed rate of total hazardous waste measured and specified as prescribed in subsection (e)(6) of this Section; and
1050 1051 1052			iii)	A sampling and analysis program for total chlorine and chloride for the hazardous waste, other fuels and industrial furnace feedstocks;
1053 1054 1055 1056 1057		B)	rate s	conformance with the Tier II HCl and chlorine gas emission screening limits pursuant to Section 726.207(b)(2) and the Tier Cl and chlorine gas controls pursuant to Section 726.207(c), ermit must specify the following operating requirements:
1058 1059 1060			i)	Maximum emission rate for HCl and for chlorine gas specified as the average emission rate during the trial burn;
1061 1062 1063 1064			ii)	Feed rate of total hazardous waste measured and specified as prescribed in subsection (e)(6) of this Section;
1065 1066 1067			iii)	Total feed rate of chlorine and chloride in total feed streams, measured and specified as prescribed in subsection (e)(6) of this Section;
1068 1069 1070 1071			iv)	Maximum device production rate when producing normal product expressed in appropriate units, measured and specified as prescribed in subsection (e)(6) of this Section;
1072 1073 1074 1075			v)	Appropriate controls on operation and maintenance of the hazardous waste firing system and any APCS;

1076 1077		vi) Allowable variation in BIF system design including any APCS or operating procedures; and
1078 1079 1080 1081		vii) Such other operating requirements as are necessary to ensure that the HCl and chlorine gas standards pursuant to Section 726.207(b)(2) or (c) are met.
1082 1083	6) Meas	uring parameters and establishing limits based on trial burn data.
1084 1085 1086 1087 1088 1089 1090 1091 1092	A)	General requirements. As specified in subsections (e)(2) through (e)(5) of this Section, each operating parameter must be measured, and permit limits on the parameter must be established, according to either of the following procedures:  i) Instantaneous limits. A parameter is measured and recorded on an instantaneous basis (i.e., the value that occurs at any time) and the permit limit specified as the time-weighted average during all valid runs of the trial
1094 1095 1096 1097 1098 1099 1100		burn; or  Hourly rolling average. The limit for a parameter must be established and continuously monitored on an hourly rolling average basis, as defined in Section 726.200(i). The permit limit for the parameter must be established based on trial burn data as the average over all valid test runs of the highest hourly rolling average value for each run.
1102 1103 1104 1105 1106 1107 1108 1109		BOARD NOTE: The Board has combined the text of 40 CFR 266.100(e)(6)(i)(B)(1) and (e)(6)(i)(B)(2) into this subsection (e)(6)(A)(ii) and moved the text of 40 CFR 266.100(e)(6)(i)(B)(1)(i) and (e)(6)(i)(B)(1)(ii) to appear as definitions of "continuous monitor" and "hourly rolling average," respectively, in Section 726.200(i) to comport with Illinois Administrative Code codification requirements.
1111 1112 1113 1114 1115 1116 1117	В)	Rolling average limits for carcinogenic metals and lead. Feed rate limits for the carcinogenic metals (as defined in Section726.200(i)) and lead must be established either on an hourly rolling average basis, as prescribed by subsection (e)(6)(A) of this Section, or on (up to) a 24 hour rolling average basis. If the owner or operator elects to use an average period from 2 to 24 hours, the following requirements apply:

1119			
1120		i)	The feed rate of each metal must be limited at any time to
1121			ten times the feed rate that would be allowed on an hourly
1122			rolling average basis;
1123			
1124		ii)	The continuous monitor must meet the specifications of
1125		,	"continuous monitor," "rolling average for the selected
1126			averaging period," and "one hour block average" Terms are
1127			as defined in Section 726.200(i); and
1128			as defined in Section 720.200(1), unid
1129			BOARD NOTE: The Board has moved the text of 40 CFR
1130			266.100(e)(6)(ii)(B)(1) and (e)(6)(ii)(B)(2) to appear as
1131			definitions in Section 726.200(i) to comport with Illinois
1132			Administrative Code codification requirements.
1132			Administrative Code codification requirements.
1134		iii)	The normit limit for the feed rate of each motel must be
1134		111)	The permit limit for the feed rate of each metal must be
1136			established based on trial burn data as the average over all
			valid test runs of the highest hourly rolling average feed
1137			rate for each run.
1138	G	D 1	
1139	C)		rate limits for metals, total chlorine and chloride, and ash.
1140			rate limits for metals, total chlorine and chloride, and ash are
1141			lished and monitored by knowing the concentration of the
1142			ance (i.e., metals, chloride/chlorine and ash) in each
1143			tream and the flow rate of the feedstream. To monitor the
1144			rate of these substances, the flow rate of each feedstream must
1145			onitored pursuant to the continuous monitoring requirements
1146		of sul	bsections (e)(6)(A) and (e)(6)(B) of this Section.
1147			
1148	D)	Cond	uct of trial burn testing.
1149			
1150		i)	If compliance with all applicable emissions standards of
1151			Sections 726.204 through 726.207 is not demonstrated
1152			simultaneously during a set of test runs, the operating
1153			conditions of additional test runs required to demonstrate
154			compliance with remaining emissions standards must be as
1155			close as possible to the original operating conditions.
1156			
1157		ii)	Prior to obtaining test data for purposes of demonstrating
158			compliance with the emissions standards of Sections
159			726.204 through 726.207 or establishing limits on
160			operating parameters pursuant to this Section, the unit must
161			operate under trial burn conditions for a sufficient period to
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1248				established in the permit achieve the applicable standards
1249				of Sections 726.204, 726.205, 726.206, and 726.207.
1250			D)	A11 - 12 - 11 - 12 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15
1251			B)	All monitors must record data in units corresponding to the permit
1252				limit unless otherwise specified in the permit.
1253			<i>α</i> \	
1254			C)	The BIF and associated equipment (pumps, <u>valves</u> values, pipes,
1255				fuel storage tanks, etc.) must be subjected to thorough visual
1256				inspection when it contains hazardous waste, at least daily for
1257				leaks, spills, fugitive emissions, and signs of tampering.
1258			~ `	
1259			D)	The automatic hazardous waste feed cutoff system and associated
1260				alarms must be tested at least once every seven days when
1261				hazardous waste is burned to verify operability, unless the
1262				applicant demonstrates to the Agency that weekly inspections will
1263				unduly restrict or upset operations and that less frequent
1264				inspections will be adequate. At a minimum, operational testing
1265				must be conducted at least once every 30 days.
1266			\	
1267			E)	These monitoring and inspection data must be recorded and the
1268				records must be placed in the operating record required by 35 Ill.
1269				Adm. Code 724.173.
1270				
1271		9)		t transfer to the burner. If hazardous waste is directly transferred
1272				a transport vehicle to a BIF without the use of a storage unit, the
1273			owne	r and operator must comply with Section 726.211.
1274				
1275		10)		dkeeping. The owner or operator must maintainkeep in the
1276			_	ting record of the facility all information and data required by this
1277			Section	on for five yearsuntil closure of the facility.
1278				
1279		11)		re. At closure, the owner or operator must remove all hazardous
1280				and hazardous waste residues (including, but not limited to, ash,
1281			scrub	ber waters, and scrubber sludges) from the BIF.
1282				
1283	(Sour	rce: Am	iended a	at 32 Ill. Reg, effective)
1284	S	202 T-	· · · · · · · · · · · · · · · · · · ·	4-4 C4 1 1 6 D
1285	Section 726.	.203 In	terim S	tatus Standards for Burners
1286 1287	a)	Durne	NGA 5001	be, and applicability.
1288	aj	rurpe	se, scop	oo, and applicability.
1289		1)	Gener	ral.
1290		<i>- )</i>	Jenor	

1291		A)	The purpose of this Section is to establish minimum national
1292			standards for owners and operators of "existing" BIFs that burn
1293			hazardous waste where such standards define the acceptable
1294			management of hazardous waste during the period of interim
1295			status. The standards of this Section apply to owners and operators
1296			of existing facilities until either a permit is issued under Section
1297			726.202(d) or until closure responsibilities identified in this
1298			Section are fulfilled.
1299			Section are fairmed.
1300		B)	"Existing" or "in existence" means a BIF for which the owner or
1301		D)	operator filed a certification of precompliance with USEPA
1302			pursuant to federal 40 CFR 266.103(b); provided, however, that
1303			USEPA has not determined that the certification is invalid.
1304			OSEI A has not determined that the certification is hivalid.
1305		C)	If a BIF is located at a facility that already has a RCRA permit or
1306		C)	• • • • • • • • • • • • • • • • • • • •
1307			interim status, then the owner or operator must comply with the
			applicable regulations dealing with permit modifications in 35 III.
1308			Adm. Code 703.280 or changes in interim status in 35 Ill. Adm.
1309			Code 703.155.
1310	2)		
1311	2)		nptions. The requirements of this Section do not apply to hazardous
1312		wast	e and facilities exempt under Section 726.200(b) or 726.208.
1313	•	- 1	
1314	3)		ibition on burning dioxin-listed wastes. The following hazardous
1315			e listed for dioxin and hazardous waste derived from any of these
1316			es must not be burned in a BIF operating under interim status:
1317			PA hazardous waste numbers F020, F021, F022, F023, F026, and
1318		F027	
1319			
1320	4)	~ ~	icability of 35 Ill. Adm. Code 725 standards. An owner or operator
1321		of a l	BIF that burns hazardous waste and which is operating under interim
1322		statu	s is subject to the following provisions of 35 Ill. Adm. Code 725,
1323		exce	ot as provided otherwise by this Section:
1324			
1325		A)	In Subpart A of 35 Ill. Adm. Code 725 (General), 35 Ill. Adm.
1326			Code 725.104;
1327			
1328		B)	In Subpart B of 35 Ill. Adm. Code 725 (General facility standards),
1329		,	35 Ill. Adm. Code 725.111 through 725.117;
1330			,
1331		C)	In Subpart C of 35 Ill. Adm. Code 725 (Preparedness and
1332		,	prevention), 35 Ill. Adm. Code 725.131 through 725.137;
1333			1,,

1334 1335 1336		D)		bpart D of 35 Ill. Adm. Code 725 (Contingency plan and gency procedures), 35 Ill. Adm. Code 725.151 through 56:
1337			, 201	
1338		E)	In Su	bpart E of 35 Ill. Adm. Code 725 (Manifest system,
1339		13)		dkeeping and reporting), 35 Ill. Adm. Code 725.171 through
1340				77, except that 35 Ill. Adm. Code 725.171 through
1341				76 do not apply to owners and operators of on-site facilities
1342				to not receive any hazardous waste from off-site sources;
1343			mai	to not receive any nazardous waste from our-site sources,
1344		F)	In Su	hnort G of 25 III Adm. Codo 725 (Clasura and nost alagura)
1345		rj		bpart G of 35 Ill. Adm. Code 725 (Closure and post-closure),
			33 11.	. Adm. Code 725.211 through 725.215;
1346		C	L. C.	1
1347		G)		bpart H of 35 Ill. Adm. Code 725 (Financial requirements),
1348				. Adm. Code 725.241, 725.242, 725.243, and 725.247
1349				gh 725.250725.251, except that the State of Illinois and the
1350				al government are exempt from the requirements of Subpart
1351			H of	35 Ill. Adm. Code 725; and
1352		TT)	T 0	1
1353		H)		bpart BB of 35 Ill. Adm. Code 725 (Air emission standards
1354			for e	nuipment leaks), except 35 Ill. Adm. Code 725.950(a).
1355		~		
1356	5)	_	-	rements for furnaces. The following controls apply during
1357				s to industrial furnaces (e.g., kilns, cupolas) that feed
1358				aste for a purpose other than solely as an ingredient (see
1359				)(5)(B) of this Section) at any location other than the hot end
1360		wher	e produ	cts are normally discharged or where fuels are normally fired
1361				
1362		A)	Cont	rols.
1363				
1364			i)	The hazardous waste must be fed at a location where
1365				combustion gas temperature is at least 1800°F;
1366				
1367			ii)	The owner or operator must determine that adequate
1368				oxygen is present in combustion gases to combust organic
1369				constituents in the waste and retain documentation of such
1370				determination in the facility record;
1371				
1372			iii)	For cement kiln systems, the hazardous waste must be fed
1373				into the kiln; and
1374				
1375			iv)	The HC controls of Section 726.204(f) or subsection (c)(5)
1376				of this Section apply upon certification of compliance

1377 1378				unde level
1379 1380 1381 1382		B)	waste	ing haz e is burn ets eith
1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393			i)	The loom excerto be nonn reducted dilute documents of the contraction
1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406			ii)	The lamore The lato be removalue 5,000 destrand compensations and compensations are considered.
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under subsection (c) of this Section, irrespective of the CO level achieved during the compliance test.

- B) Burning hazardous waste solely as an ingredient. A hazardous waste is burned for a purpose other than "solely as an ingredient" if it meets either of the following criteria:
  - The hazardous waste has a total concentration of nonmetal compounds listed in Appendix H of 35 Ill. Adm. Code 721, exceeding 500 ppm by weight, as fired and so is considered to be burned for destruction. The concentration of nonmetal compounds in a waste as-generated may be reduced to the 500 ppm limit by bona fide treatment that removes or destroys nonmetal constituents. Blending for dilution to meet the 500 ppm limit is prohibited and documentation that the waste has not been impermissibly diluted must be retained in the facility record; or
  - ii) The hazardous waste has a heating value of 5,000 Btu/lb or more, as fired, and so is considered to be burned as fuel. The heating value of a waste as-generated may be reduced to below the 5,000 Btu/lb limit by bona fide treatment that removes or destroys organic constituents. The heating value of a waste as-generated may be reduced to below the 5,000 Btu/lb limit by bona fide treatment that removes or destroys organic constituents. Blending to augment the heating value to meet the 5,000 Btu/lb limit is prohibited and documentation that the waste has not been impermissibly blended must be retained in the facility record.
- Restrictions on burning hazardous waste that is not a fuel. Prior to certification of compliance under subsection (c) of this Section, an owner or operator must not feed hazardous waste that has a heating value less than 5000 Btu/lb, as generated, (except that the heating value of a waste as-generated may be increased to above the 5,000 Btu/lb limit by bona fide treatment; however blending to augment the heating value to meet the 5,000 Btu/lb limit is prohibited and records must be kept to document that impermissible blending has not occurred) in a BIF, except that the following may occur:
  - A) Hazardous waste may be burned solely as an ingredient;

1420		B) Hazardous waste may be burned for purposes of compliance
1421		testing (or testing prior to compliance testing) for a total period of
1422		time not to exceed 720 hours;
1423		
1424		C) Such waste may be burned if the Agency has documentation to
1425		show that the following was true prior to August 21, 1991:
1426 1427		The DIE was an austing and doubt a interior state of and
1428		i) The BIF was operating under the interim status standards
1429		for incinerators or thermal treatment units, Subparts O or P of 35 Ill. Adm. Code 725;
1430		01 33 III. Adili. Code 723,
1431		ii) The BIF met the interim status eligibility requirements
1432		ii) The BIF met the interim status eligibility requirements under 35 Ill. Adm. Code 703.153 for Subparts O or P of 35
1432		Ill. Adm. Code 703.133 for Subparts O of P of 33
1434		III. Adiii. Code 723, and
1435		iii) Hazardous waste with a heating value less than 5,000
1436		,
1437		Btu/lb was burned prior to that date; or
1438		D) Such waste may be burned in a halogen acid furnace if the waste
1439		was burned as an excluded ingredient under 35 Ill. Adm. Code
1440		721.102(e) prior to February 21, 1991, and documentation is kept
1441		on file supporting this claim.
1442		on the supporting this claim.
1443		7) Direct transfer to the burner. If hazardous waste is directly transferred
1444		from a transport vehicle to a BIF without the use of a storage unit, the
1445		owner or operator must comply with Section 726.211.
1446		owner or operator must compry with section 720.211.
1447	b)	Certification of precompliance. This subsection corresponds with 40 CFR
1448	0)	266.103(b), under which USEPA required certain owners and operators to file a
1449		certification of precompliance by August 21, 1991. No similar filing with the
1450		Agency was required, so the Board did not incorporate the federal filing
1451		requirement into the Illinois regulations. This statement maintains structural
1452		parity with the federal regulations.
1453		
1454	c)	Certification of compliance. The owner or operator must conduct emissions
1455	,	testing to document compliance with the emissions standards of Sections
1456		726.204(b) through (e), 726.205, 726.206, and 726.207 and subsection
1457		(a)(5)(A)(iv) of this Section under the procedures prescribed by this subsection
1458		(c), except under extensions of time provided by subsection (c)(7) of this Section.
1459		Based on the compliance test, the owner or operator must submit to the Agency,
1460		on or before August 21, 1992, a complete and accurate "certification of
1461		compliance" (under subsection (c)(4) of this Section) with those emission
1462		standards establishing limits on the operating parameters specified in subsection

Limits on operating conditions. The owner or operator must establish limits on the following parameters based on operations during the compliance test (under procedures prescribed in subsection (c)(4)(D)of this Section) or as otherwise specified and include these limits with the certification of compliance. The BIF must be operated in accordance with these operating limits and the applicable emissions standards of Sections 726.204(b) through (e), 726.205, 726.205, and 726.207 and subsection (a)(5)(A)(iv) of this Section at all times when there is hazardous waste in the unit.  A) Feed rate of total hazardous waste and (unless complying the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)), pumpable hazardous waste;  B) Feed rate of each metal in the following feedstreams:  B) Feed rate of each metal in the following feedstreams:  i) Total feedstreams, except that industrial furnaces which must comply with the alternative metals implementation approach under subsection (c)(3)(B) of this Section must specify limits on the concentration of each metal in collected PM in lieu of feed rate limits for total feedstreams; and facilities that comply with Tier I or Adjusted Tier I metals feed rate screening limits may set their operating limits at the metal feed rate screening limits determined under subsection 726.206(b) or (e) of this Section;  BOARD NOTE: Federal subsections 266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  BOARD NOTE: Federal subsections 266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  Total hazardous waste feed (unless complying with the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)); and  Total pumpable hazardous waste feed (unless complying with Tier I or Adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)); and	1463	(c)(1	) of this	Section		
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certification of compliance. The BIF must be operated in accordance with these operating limits and the applicable emissions standards of Sections 726.204(b) through (e), 726.205, 726.206, and 726.207 and subsection (a)(5)(A)(iv) of this Section at all times when there is hazardous waste in the unit.  A) Feed rate of total hazardous waste and (unless complying the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)), pumpable hazardous waste;  B) Feed rate of each metal in the following feedstreams:  B) Feed rate of each metal in the following feedstreams:  B) Feed rate of each metal in the following feedstreams:  C) Total feedstreams, except that industrial furnaces which must comply with the alternative metals implementation approach under subsection (c)(3)(B) of this Section must specify limits on the concentration of each metal in collected PM in lieu of feed rate limits for total feedstreams; and facilities that comply with Tier I or Adjusted Tier I metals feed rate screening limits may set their operating limits at the metal feed rate screening limits determined under subsection 726.206(b) or (c) of this Section;  BOARD NOTE: Federal subsections  266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  BOARD NOTE: Federal subsections  266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  BOARD NOTE: Federal subsections  266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  Total hazardous waste feed (unless complying with the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)); and  Total pumpable hazardous waste feed (unless complying with Tier I or Adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e));			_			
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1471 726.204(b) through (e), 726.205, 726.206, and 726.207 and subsection 1472 (a)(5)(A)(iv) of this Section at all times when there is hazardous waste in 1473 the unit.  1474  1475 A) Feed rate of total hazardous waste and (unless complying the Tier I 1476 or adjusted Tier I metals feed rate screening limits under Section 1477 726.206(b) or (e)), pumpable hazardous waste;  1479 B) Feed rate of each metal in the following feedstreams:  1480  1 Total feedstreams, except that industrial furnaces which 1482 must comply with the alternative metals implementation 1483 approach under subsection (c)(3)(B) of this Section must 1484 specify limits on the concentration of each metal in 1485 collected PM in lieu of feed rate limits for total 1486 feedstreams; and facilities that comply with Tier I or 1487 Adjusted Tier I metals feed rate screening limits may set 1488 their operating limits at the metal feed rate screening limits 1489 determined under subsection 726.206(b) or (e) of this 1490 Section;  1491  1492 BOARD NOTE: Federal subsections 1493 266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed 1494 into subsection (c)(1)(B)(i).  1495 1496 ii) Total hazardous waste feed (unless complying with the Tier 1 or adjusted Tier I metals feed rate screening limits under 1498 Section 726.206(b) or (e)); and  1499 1500 iii) Total pumpable hazardous waste feed (unless complying 1501 with Tier I or Adjusted Tier I metals feed rate screening 1502 limits under Section 726.206(b) or (e));						
1472 (a)(5)(A)(iv) of this Section at all times when there is hazardous waste in the unit.  1473 the unit.  1474 1475 A) Feed rate of total hazardous waste and (unless complying the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)), pumpable hazardous waste;  1477 726.206(b) or (e)), pumpable hazardous waste;  1478 1479 B) Feed rate of each metal in the following feedstreams:  1480 1) Total feedstreams, except that industrial furnaces which must comply with the alternative metals implementation approach under subsection (c)(3)(B) of this Section must specify limits on the concentration of each metal in collected PM in lieu of feed rate limits for total feedstreams; and facilities that comply with Tier I or Adjusted Tier I metals feed rate screening limits may set their operating limits at the metal feed rate screening limits determined under subsection 726.206(b) or (e) of this Section;  1490 Section;  1491 BOARD NOTE: Federal subsections  2493 266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  1494 BOARD NOTE: Federal subsections  266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  1496 ii) Total hazardous waste feed (unless complying with the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)); and  1499 Section 726.206(b) or (e)); and  1500 iii) Total pumpable hazardous waste feed (unless complying with Tier I or Adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e));						
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determined under subsection 726.206(b) or (e) of this Section;  1491  1492  BOARD NOTE: Federal subsections 1493  266.103(c)(1)(ii)(A)(1) and (c)(1)(ii)(A)(2) are condensed into subsection (c)(1)(B)(i).  1495  1496  ii) Total hazardous waste feed (unless complying with the Tier I or adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e)); and  1499  1500  iii) Total pumpable hazardous waste feed (unless complying with Tier I or Adjusted Tier I metals feed rate screening limits under Section 726.206(b) or (e));  1503  1504  C) Total feed rate of total chlorine and chloride in total feed streams,	1488				their operating limits at the metal feed rate screening limits	
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1503 1504 C) Total feed rate of total chlorine and chloride in total feed streams,					•	
1504 C) Total feed rate of total chlorine and chloride in total feed streams,					minus and of Section 720.200(0) of (0)),	
· · · · · · · · · · · · · · · · · · ·			C)	Total	feed rate of total chlorine and chloride in total food strooms	
			$C_j$		·	

1506		rate screening limits may set their operating limits at the total
1507		chlorine and chloride feed rate screening limits determined under
1508		Section 726.207(b)(1) or (e);
1509		
1510	D)	Total feed rate of ash in total feed streams, except that the ash feed
1511	,	rate for cement kilns and light-weight aggregate kilns is not
1512		limited;
1513		
1514	E)	CO concentration, and where required, HC concentration in stack
1515	2)	gas. When complying with the CO controls of Section 726.204(b),
1516		the CO limit is 100 ppmv, and when complying with the HC
1517		controls of Section 726.204(c), the HC limit is 20 ppmv. When
1518		complying with the CO controls of Section 726.204(c), the CO
1519		limit is established based on the compliance test;
1520		muit is established based on the compliance test,
	E/	Marinery and Arctica acts of the Justice in account of the state of
1521	F)	Maximum production rate of the device in appropriate units when
1522		producing normal product unless complying with Tier I or
1523		Adjusted Tier I feed rate screening limits for chlorine under
1524		Section 726.207(b)(1) or (e) and for all metals under Section
1525		726.207(b) or (e), and the uncontrolled particulate emissions do
1526		not exceed the standard under Section 726.205;
1527		
1528	G)	Maximum combustion chamber temperature where the temperature
1529		measurement is as close to the combustion zone as possible and is
1530		upstream of any quench water injection, (unless complying with
1531		the Tier I adjusted Tier I metals feed rate screening limits under
1532		Section 726.206(b) or (e));
1533		
1534	H)	Maximum flue gas temperature entering a PM control device
1535		(unless complying with Tier I or adjusted Tier I metals feed rate
1536		screening limits under Section 726.206(b) or (e));
1537		
1538	I)	For systems using wet scrubbers, including wet ionizing scrubbers
1539	,	(unless complying with the Tier I or adjusted Tier I metals feed
1540		rate screening limits under Section 726.206(b) or (e) and the total
1541		chlorine and chloride feed rate screening limits under Section
1542		726.207(b)(1) or (e)):
1543		720.207(0)(1) 01 (0)).
1544		i) Minimum liquid to flue gas ratio;
1545		1) Manifestation inquite to mad gas facto,
1546		ii) Minimum scrubber blowdown from the system or
1547		maximum suspended solids content of scrubber water; and
1548		maximum suspended sonds content of serubber water, and
1340		

1549			iii)	Minimum pH level of the scrubber water;
1550		r)	E	1100 (1.1
1551		J)		systems using venturi scrubbers, the minimum differential gas
1552			-	sure across the venturi (unless complying the Tier I or adjusted
1553				I metals feed rate screening limits under Section 726.206(b) or
1554				and the total chlorine and chloride feed rate screening limits
1555			unde	er Section 726.207(b)(1) or (e));
1556				
1557		K)		systems using dry scrubbers (unless complying with the Tier I
1558				ljusted Tier I metals feed rate screening limits under Section
1559				206(b) or (e) and the total chlorine and chloride feed rate
1560			scree	ening limits under Section 726.207(b)(1) or (e)):
1561				
1562			i)	Minimum caustic feed rate; and
1563				
1564			ii)	Maximum flue gas flow rate;
1565				
1566		L)	For s	systems using wet ionizing scrubbers or electrostatic
1567			preci	pitators (unless complying with the Tier I or adjusted Tier I
1568			meta	als feed rate screening limits under Section 726.206(b) or (e)
1569				the total chlorine and chloride feed rate screening limits under
1570				ion 726.207(b)(1) or (e)):
1571				
1572			i)	Minimum electrical power in kVA to the precipitator
1573			-/	plates; and
574				p.wes, and
575			ii)	Maximum flue gas flow rate;
576			11)	manifest in the sas now rate,
577		M)	Fors	systems using fabric filters (baghouses), the minimum pressure
578		141)		(unless complying with the Tier I or adjusted Tier I metals
579				rate screening limits under Section 726.206(b) or (e) and the
.580				chlorine and chloride feed rate screening limits under Section
.581				207(b)(1) or (e)).
.582			720.	207(0)(1) 01 (0)).
.583	2)	Drior	notice	of compliance testing. At least 30 days prior to the
.584	2)			testing required by subsection (c)(3) of this Section, the owner
.585				
		ог ор	Clatol I	nust notify the Agency and submit the following information:
.586		A.)	Conc	aral facility information including
.587		A)	Gene	eral facility information including:
.588				LICEDA facility ID asserbane
.589			i)	USEPA facility ID number;
590			•••	T 22
.591			ii)	Facility name, contact person, telephone number, and

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1592			address;
1593			
1594		iii)	Person responsible for conducting compliance test,
1595			including company name, address, and telephone number,
1596			and a statement of qualifications;
1597			
1598		iv)	Planned date of the compliance test;
1599			
1600	B)	Spec	ific information on each device to be tested, including the
1601			wing:
1602			
1603		i)	A Description of BIF;
1604		,	,
1605		ii)	A scaled plot plan showing the entire facility and location
1606		,	of the BIF;
1607			,
1608		iii)	A description of the APCS;
1609			
1610		iv)	Identification of the continuous emission monitors that are
1611			installed, including the following: CO monitor; Oxygen
1612			monitor; HC monitor, specifying the minimum temperature
1613			of the system, and, if the temperature is less than 150° C, an
1614			explanation of why a heated system is not used (see
1615			subsection (c)(5) of this Section) and a brief description of
1616			the sample gas conditioning system;
1617			the sample gas conditioning system,
1618		v)	Indication of whether the stack is shared with another
1619		*)	device that will be in operation during the compliance test;
1620			and
1621			and
1622		vi)	Other information useful to an understanding of the system
1623		V1)	design or operation; and
1624			design of operation, and
1625	C)	Infor	motion on the testing planned including a complete convert
1625 1626	C)		mation on the testing planned, including a complete copy of
1626 1627			est protocol and QA/QC plan, and a summary description for
		Cacii	test providing the following information at a minimum:
1628		:)	Dumage of the test (o a demonstrate commission or with
1629		i)	Purpose of the test (e.g., demonstrate compliance with
1630			emissions of PM); and
1631		223	Diamed an anti- and distance in the first terms of the state of the st
1632		ii)	Planned operating conditions, including levels for each
1633			pertinent parameter specified in subsection (c)(1) of this
1634			Section.

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- 3) Compliance testing.
  - A) General. Compliance testing must be conducted under conditions for which the owner or operator has submitted a certification of precompliance under subsection (b) of this Section and under conditions established in the notification of compliance testing required by subsection (c)(2) of this Section. The owner or operator may seek approval on a case-by-case basis to use compliance test data from one unit in lieu of testing a similar onsite unit. To support the request, the owner or operator must provide a comparison of the hazardous waste burned and other feedstreams, and the design, operation, and maintenance of both the tested unit and the similar unit. The Agency must provide a written approval to use compliance test data in lieu of testing a similar unit if the Agency finds that the hazardous wastes, devices and the operating conditions are sufficiently similar, and the data from the other compliance test is adequate to meet the requirements of this subsection (c).
  - B) Special requirements for industrial furnaces that recycle collected PM. Owners and operators of industrial furnaces that recycle back into the furnace PM from the APCS must comply with one of the following procedures for testing to determine compliance with the metals standards of Section 726.206(c) or (d):
    - i) The special testing requirements prescribed in "Alternative Method for Implementing Metals Controls" in Appendix I to this Part;
    - ii) Stack emissions testing for a minimum of six hours each day while hazardous waste is burned during interim status. The testing must be conducted when burning normal hazardous waste for that day at normal feed rates for that day and when the APCS is operated under normal conditions. During interim status, hazardous waste analysis for metals content must be sufficient for the owner or operator to determine if changes in metals content affect the ability of the unit to meet the metals emissions standards established under Section 726.206(c) or (d). Under this option, operating limits (under subsection (c)(1)of this Section) must be established during compliance testing under this subsection (c)(3) only on the

following parameters: feed rate of total hazardous waste; total feed rate of total chlorine and chloride in total feed streams; total feed rate of ash in total feed streams, except that the ash feed rate for cement kilns and light-weight aggregate kilns is not limited; CO concentration, and where required, HC concentration in stack gas; and maximum production rate of the device in appropriate units when producing normal product; or

iii) Conduct compliance testing to determine compliance with the metals standards to establish limits on the operating parameters of subsection (c)(1) of this Section only after the kiln system has been conditioned to enable it to reach equilibrium with respect to metals fed into the system and metals emissions. During conditioning, hazardous waste and raw materials having the same metals content as will be fed during the compliance test must be fed at the feed rates that will be fed during the compliance test.

### C) Conduct of compliance testing.

- i) If compliance with all applicable emissions standards of Sections 726.204 through 726.207 is not demonstrated simultaneously during a set of test runs, the operating conditions of additional test runs required to demonstrate compliance with remaining emissions standards must be as close as possible to the original operating conditions.
- ii) Prior to obtaining test data for purposes of demonstrating compliance with the applicable emissions standards of Sections 726.204 through 726.207 or establishing limits on operating parameters under this Section, the facility must operate under compliance test conditions for a sufficient period to reach steady-state operations. Industrial furnaces that recycle collected PM back into the furnace and that comply with subsection (c)(3)(B)(i) or (c)(3)(B)(ii) of this Section, however, need not reach steady state conditions with respect to the flow of metals in the system prior to beginning compliance testing for metals.
- iii) Compliance test data on the level of an operating parameter for which a limit must be established in the certification of compliance must be obtained during emissions sampling

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			for the pollutants (i.e., metals, PM, HCl/chlorine gas, organic compounds) for which the parameter must be
			established as specified by subsection (c)(1) of this Section.
			established as specified by subsection (e)(1) of this bection.
4)	Certi	fication	of compliance. Within 90 days of completing compliance
.,			wner or operator must certify to the Agency compliance with
			s standards of Sections 726.204(b), (c) and (e); 726.205;
			.207; and subsection (a)(5)(A)(iv) of this Section. The
			of compliance must include the following information:
	A)	Gene	ral facility and testing information, including the following:
		i)	USEPA facility ID number;
		ii)	Facility name, contact person, telephone number, and
			address;
		iii)	Person responsible for conducting compliance testing,
			including company name, address, and telephone number,
			and a statement of qualifications;
		1V)	Dates of each compliance test;
			D ' ' ' CDM · · · 1
		V)	Description of BIF tested;
		:>	D
		V1)	Person responsible for QA/QC, title and telephone number,
			and statement that procedures prescribed in the QA/QC plan submitted under Section 726.203(c)(2)(C) have been
			*
			followed, or a description of any changes and an explanation of why changes were necessary;
			explanation of why changes were necessary,
		vii)	Description of any changes in the unit configuration prior
		<b>V11</b> )	to or during testing that would alter any of the information
			submitted in the prior notice of compliance testing under
			subsection (c)(2) of this Section and an explanation of why
			the changes were necessary;
			me and good of the moderation,
		viii)	Description of any changes in the planned test conditions
		,	prior to or during the testing that alter any of the
			information submitted in the prior notice of compliance
			testing under subsection (c)(2) of this Section and an
			explanation of why the changes were necessary; and
	4)	testin the er 726.2 certif	testing, the of the emissions 726.206; 726 certification of the interest of the emissions of the emission of

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- ix) The complete report on results of emissions testing.
- B) Specific information on each test, including the following:
  - i) Purposes of test (e.g., demonstrate conformance with the emissions limits for PM, metals, HCl, chlorine gas, and CO);
  - ii) Summary of test results for each run and for each test including the following information: date of run; duration of run; time-weighted average and highest hourly rolling average CO level for each run and for the test; highest hourly rolling average HC level, if HC monitoring is required for each run and for the test; if dioxin and furan testing is required under Section 726.204(e), time-weighted average emissions for each run and for the test of chlorinated dioxin and furan emissions, and the predicted maximum annual average ground level concentration of the toxicity equivalency factor (defined in Section 726.200(i)); time-weighted average PM emissions for each run and for the test; time-weighted average HCl and chlorine gas emissions for each run and for the test; time-weighted average emissions for the metals subject to regulation under Section 726.206 for each run and for the test; and QA/QC results.
- C) Comparison of the actual emissions during each test with the emissions limits prescribed by Sections 726.204(b), (c), and (e); 726.205; 726.206; and 726.207 and established for the facility in the certification of precompliance under subsection (b) of this Section.
- D) Determination of operating limits based on all valid runs of the compliance test for each applicable parameter listed in subsection (c)(1) of this Section using one of the following procedures:
  - i) Instantaneous limits. A parameter must be measured and recorded on an instantaneous basis (i.e., the value that occurs at any time) and the operating limit specified as the time-weighted average during all runs of the compliance test.
  - ii) Hourly rolling average basis. The limit for a parameter

must be established and continuously monitored on an hourly rolling average basis, as defined in Section 726.200(i). The operating limit for the parameter must be established based on compliance test data as the average over all test runs of the highest hourly rolling average value for each run.

iii) Rolling average limits for carcinogenic metals (as defined in Section 726.200(i)) and lead. Feed rate limits for the carcinogenic metals and lead must be established either on an hourly rolling average basis as prescribed by subsection (c)(4)(D)(ii) of this Section or on (up to) a 24 hour rolling average basis. If the owner or operator elects to use an averaging period from two to 24 hours the following must occur: the feed rate of each metal must be limited at any time to ten times the feed rate that would be allowed on a hourly rolling average basis; the operating limit for the feed rate of each metal must be established based on compliance test data as the average over all test runs of the highest hourly rolling average feed rate for each run; and the continuous monitor and the rolling average for the selected averaging period are as defined in Section 726.200(i).

BOARD NOTE: The Board has combined the text of 40 C.F.R. 266.103(c)(4)(iv)(C)(1) and (c)(4)(iv)(C)(3) are condensed into subsection (c)(b)(C)(iii) to comport with Illinois Administrative Code codification requirements.

- iv) Feed rate limits for metals, total chlorine and chloride, and ash. Feed rate limits for metals, total chlorine and chloride, and ash are established and monitored by knowing the concentration of the substance (i.e., metals, chloride/chlorine, and ash) in each feedstream and the flow rate of the feedstream. To monitor the feed rate of these substances, the flow rate of each feedstream must be monitored under the continuous monitoring requirements of subsections (c)(4)(D)(i) through (c)(4)(D)(iii) of this Section.
- E) Certification of compliance statement. The following statement must accompany the certification of compliance:

"I certify under penalty of law that this information was

prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information and supporting documentation. Copies of all emissions tests, dispersion modeling results, and other information used to determine conformance with the requirements of 35 Ill. Adm. Code 726.203(c) are available at the facility and can be obtained from the facility contact person listed above. Based on my inquiry of the person or persons who manage the facility, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I also acknowledge that the operating limits established pursuant to 35 Ill. Adm. Code 726.203(c)(4)(D) are enforceable limits at which the facility can legally operate during interim status until a revised certification of compliance is submitted."

- Special requirements for HC monitoring systems. When an owner or operator is required to comply with the HC controls provided by Section 726.204(c) or subsection (a)(5)(A)(iv) of this Section, a conditioned gas monitoring system may be used in conformance with specifications provided in Appendix I to this Part provided that the owner or operator submits a certification of compliance without using extensions of time provided by subsection (c)(7) of this Section.
- 6) Special operating requirements for industrial furnaces that recycle collected PM. Owners and operators of industrial furnaces that recycle back into the furnace PM from the APCS must do the following:
  - A) When complying with the requirements of subsection (c)(3)(B)(i)of this Section, comply with the operating requirements prescribed in "Alternative Method to Implement the Metals Controls" in Appendix I to this Part; and
  - B) When complying with the requirements of subsection (c)(3)(B)(ii) of this Section, comply with the operating requirements prescribed by that subsection.

1893	7)	Exte	nsions of time.
1894			
1895		A)	If the owner or operator does not submit a complete certification of
1896			compliance for all of the applicable emissions standards of
1897			Sections 726.204, 726.205, 726.206, and 726.207 by August 21,
1898			1992, the owner or operator must do the following:
1899			
1900			i) Stop burning hazardous waste and begin closure activities
1901			under subsection (1) of this Section for the hazardous waste
1902			portion of the facility;
1903			point of the monney,
1904			ii) Limit hazardous waste burning only for purposes of
1904			
			compliance testing (and pretesting to prepare for
1906			compliance testing) a total period of 720 hours for the
1907			period of time beginning August 21, 1992, submit a
1908			notification to the Agency by August 21, 1992 stating that
1909			the facility is operating under restricted interim status and
1910			intends to resume burning hazardous waste, and submit a
1911			complete certification of compliance by August 23, 1993;
1912			or
1913			
1914			iii) Obtain a case-by-case extension of time under subsection
1915			(c)(7)(B) of this Section.
1916			(-)(-)(-)
1917		B)	Case-by-case extensions of time. See Section 726.219.
1918		D)	Case by case extensions of time. See Section 720.217.
1919	8)	Devi	sed certification of compliance. The owner or operator may submit at
	0)		•
1920		-	me a revised certification of compliance (recertification of
1921		comp	liance) under the following procedures:
1922		4.5	
1923		A)	Prior to submittal of a revised certification of compliance,
1924			hazardous waste must not be burned for more than a total of 720
1925			hours under operating conditions that exceed those established
1926			under a current certification of compliance, and such burning must
1927			be conducted only for purposes of determining whether the facility
1928			can operate under revised conditions and continue to meet the
1929			applicable emissions standards of Sections 726.204, 726.205,
1930			726.206, and 726.207;
1931			, , ,
1932		B)	At least 30 days prior to first burning hazardous waste under
1932		D)	operating conditions that exceed those established under a current
1934			
1734			
1935			certification of compliance, the owner or operator must notify the Agency and submit the following information:

1936				
1937			i)	USEPA facility ID number, and facility name, contact
1938				person, telephone number, and address;
1939				
1940			ii)	Operating conditions that the owner or operator is seeking
1941				to revise and description of the changes in facility design or
1942				operation that prompted the need to seek to revise the
1943				operating conditions;
1944				,
1945			iii)	A determination that, when operating under the revised
1946			,	operating conditions, the applicable emissions standards of
1947				Sections 726.204, 726.205, 726.206, and 726.207 are not
1948				likely to be exceeded. To document this determination, the
1949				owner or operator must submit the applicable information
1950				required under subsection (b)(2) of this Section; and
1951				(e)( <u>-</u> ) er une geetien, und
1952			iv)	Complete emissions testing protocol for any pretesting and
1953			/	for a new compliance test to determine compliance with the
1954				applicable emissions standards of Sections 726.204,
1955				726.205, 726.206, and 726.207 when operating under
1956				revised operating conditions. The protocol must include a
1957				schedule of pre-testing and compliance testing. If the
1958				owner or operator revises the scheduled date for the
1959				compliance test, the owner or operator must notify the
1960				Agency in writing at least 30 days prior to the revised date
1961				of the compliance test;
1962				of the comphance test,
1963		C)	Cond	luct a compliance test under the revised operating conditions
1964		C)		he protocol submitted to the Agency to determine compliance
1965				the applicable emissions standards of Sections 726.204,
1966				205, 726.206, and 726.207; and
1967			720.2	203, 720.200, and 720.207, and
1968		D)	Subr	nit a revised certification of compliance under subsection
1969		D)		of this Section.
1909			(0)(4)	of this Section.
1970	d)	Dariadia Pag	portificat	tions. The owner or operator must conduct compliance
1971 1972	u)			the Agency a recertification of compliance under provisions
1972		_		
1973 1974				this Section within <u>fivethree</u> years from submitting the
1974 1975		-		n or recertification. If the owner or operator seeks to recertify ew operating conditions, the owner or operator must comply
1976		with the requ	memen	ts of subsection (c)(8) of this Section.
1977	2)	Moncomulia	nga:41.	a contification calculated the comment of the comme
1978	e)	noncomplia	nce with	certification schedule. If the owner or operator does not

comply with the interim status compliance schedule provided by subsections (b), (c), and (d) of this Section, hazardous waste burning must terminate on the date that the deadline is missed, closure activities must begin under subsection (l) of this Section, and hazardous waste burning must not resume except under an operating permit issued under 35 III. Adm. Code 703.232. For purposes of compliance with the closure provisions of subsection (l) of this Section and 35 III. Adm. Code 725.212(d)(2) and 725.213, the BIF has received "the known final volume of hazardous waste" on the date the deadline is missed.

- f) Start-up and shut-down. Hazardous waste (except waste fed solely as an ingredient under the Tier I (or adjusted Tier I) feed rate screening limits for metals and chloride/chlorine) must not be fed into the device during start-up and shut-down of the BIF, unless the device is operating within the conditions of operation specified in the certification of compliance.
- g) Automatic waste feed cutoff. During the compliance test required by subsection (c)(3) of this Section and upon certification of compliance under subsection (c) of this Section, a BIF must be operated with a functioning system that automatically cuts off the hazardous waste feed when the applicable operating conditions specified in subsections (c)(1)(A) and (c)(1)(E) through (c)(1)(M) of this Section deviate from those established in the certification of compliance. In addition, the following must occur:
  - To minimize emissions of organic compounds, the minimum combustion chamber temperature (or the indicator of combustion chamber temperature) that occurred during the compliance test must be maintained while hazardous waste or hazardous waste residues remain in the combustion chamber, with the minimum temperature during the compliance test defined as either of the following:
    - A) If compliance with the combustion chamber temperature limit is based on ana hourly rolling average, the minimum temperature during the compliance test is considered to be the average over all runs of the lowest hourly rolling average for each run; or
    - B) If compliance with the combustion chamber temperature limit is based on an instantaneous temperature measurement, the minimum temperature during the compliance test is considered to be the time-weighted average temperature during all runs of the test; and
  - 2) Operating parameters limited by the certification of compliance must continue to be monitored during the cutoff, and the hazardous waste feed must not be restarted until the levels of those parameters comply with the

2022 limits established in the certification of compliance. 2023 2024 h) Fugitive emissions. Fugitive emissions must be controlled as follows: 2025 2026 1) By keeping the combustion zone totally sealed against fugitive emissions; 2027 2028 2029 2) By maintaining the combustion zone pressure lower than atmospheric 2030 pressure; or 2031 2032 3) By an alternative means of control that the owner or operator demonstrates 2033 provides fugitive emissions control equivalent to maintenance of 2034 combustion zone pressure lower than atmospheric pressure. Support for 2035 such demonstration must be included in the operating record. 2036 2037 i) Changes. A BIF must cease burning hazardous waste when combustion 2038 properties, or feed rates of the hazardous waste, other fuels or industrial furnace 2039 feedstocks, or the BIF design or operating conditions deviate from the limits specified in the certification of compliance. 2040 2041 2042 j) Monitoring and Inspections. 2043 2044 1) The owner or operator must monitor and record the following, at a minimum, while burning hazardous waste: 2045 2046 2047 A) Feed rates and composition of hazardous waste, other fuels, and industrial furnace feed stocks and feed rates of ash, metals, and 2048 total chlorine and chloride as necessary to ensure conformance 2049 with the certification of precompliance or certification of 2050 compliance; 2051 2052 2053 B) CO, oxygen, and, if applicable, HC on a continuous basis at a 2054 common point in the BIF downstream of the combustion zone and prior to release of stack gases to the atmosphere in accordance with 2055 the operating limits specified in the certification of compliance. 2056 CO, HC, and oxygen monitors must be installed, operated, and 2057 maintained in accordance with methods specified in Appendix I to 2058 2059 this Part; and 2060 C) 2061 Upon the request of the Agency, sampling and analysis of the hazardous waste (and other fuels and industrial furnace feed stocks 2062 2063 as appropriate) and the stack gas emissions must be conducted to 2064 verify that the operating conditions established in the certification

2003			of precompliance of certification of compliance achieve the
2066			applicable standards of Sections 726.204, 726.205, 726.206, and
2067			726.207.
2068			
2069		2)	The BIF and associated equipment (pumps, valves, pipes, fuel storage
2070			tanks, etc.) must be subjected to thorough visual inspection when they
2071			contain hazardous waste, at least daily for leaks, spills, fugitive emissions,
2072			and signs of tampering.
2073			
2074		3)	The automatic hazardous waste feed cutoff system and associated alarms
2075			must be tested at least once every seven days when hazardous waste is
2076			burned to verify operability, unless the owner or operator can demonstrate
2077			that weekly inspections will unduly restrict or upset operations and that
2078			less frequent inspections will be adequate. Support for such
2079			demonstration must be included in the operating record. At a minimum,
2080			operational testing must be conducted at least once every 30 days.
2081			-p or any or
2082		4)	These monitoring and inspection data must be recorded and the records
2083		• • •	must be placed in the operating log.
2084			must be placed in the operating log.
2085	k)	Reco	rdkeeping. The owner or operator must keep in the operating record of the
2086	K)		ty all information and data required by this Section for five yearsuntil closure
2087			BIF unit.
2088		OI the	7DII unit.
2089	1)	Closs	are. At closure, the owner or operator must remove all hazardous waste and
2090	1)		dous waste residues (including, but not limited to, ash, scrubber waters and
2090			
2091			ber sludges) from the BIF and must comply with 35 Ill. Adm. Code 725.211
		unou	gh 725.215.
2093	(Corre		and of 22 III Day
2094	(Sour	rce: An	nended at 32 Ill. Reg, effective)
2095	C 4: 536	205 04	and all the Control I DDM
2096	Section /26.	205 Sta	andards to Control PM
2097	`	A D.Y.	
2098	a)		F burning hazardous waste must not emit PM in excess of 180 mg/dry
2099			ard m <sup>3</sup> (0.08 grains/dry standard cubic foot) after correction to a stack gas
2100			entration of seven percent oxygen, using procedures prescribed in the
2101			wing methods in appendix A to 40 CFR 60 (Test Methods), each
2102			porated by reference in 35 Ill. Adm. Code 720.111(b) (see Appendix I of this
2103			Method 1 (Sample and Velocity Traverses for Stationary Sources), Method
2104			etermination of Volatile Organic Compound Leaks), Method 2A (Direct
2105			urement of Gas Volume through Pipes and Small Ducts), Method 2B
2106		•	rmination of Exhaust Gas Volume Flow Rate from Gasoline Vapor
2107		Incine	erators) Method 2C (Determination of Gas Velocity and Volumetria Flow

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2108		Rate in Small Stacks or Ducts (Standard Pitot Tube)), Method 2D (Measurement
2109		of Gas Volume Flow Rates in Small Pipes and Ducts), Method 2E (Determination
2110		of Landfill Gas Production Flow Rate), Method 2F (Determination of Stack Gas
2111		Velocity and Volumetric Flow Rate with Three-Dimensional Probes), Method 2G
2112		(Determination of Stack Gas Velocity and Volumetric Flow Rate with Two-
2113		Dimensional Probes), Method 2H (Determination of Stack Gas Velocity Taking
2114		into Account Velocity Decay Near the Stack Wall), Method 3 (Gas Analysis for
2115		the Determination of Dry Molecular Weight), Method 3A (Determination of
2116		Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary
2117		Sources (Instrumental Analyzer Procedure)), Method 3B (Gas Analysis for the
2118		Determination of Emission Rate Correction Factor or Excess Air), Method 3C
2119		(Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from
2120		Stationary Sources), Method 4 (Determination of Moisture Content in Stack
2121		Gases), Method 5 (Determination of Particulate Matter Emissions from Stationary
2122		Sources), Method 5A (Determination of Particulate Matter Emissions from the
2123		Asphalt Processing and Asphalt Roofing Industry), Method 5B (Determination of
2124		Nonsulfuric Acid Particulate Matter Emissions from Stationary Sources), Method
2125		5D (Determination of Particulate Matter Emissions from Positive Pressure Fabric
2126		Filters), Method 5E (Determination of Particulate Matter Emissions from the
2127		Wool Fiberglass Insulation Manufacturing Industry), Method 5F (Determination
2128		of Nonsulfate Particulate Matter Emissions from Stationary Sources), Method 5G
2129		(Determination of Particulate Matter Emissions from Wood Heaters (Dilution
2130		Tunnel Sampling Location)), Method 5H (Determination of Particulate Emissions
2131		from Wood Heaters from a Stack Location), and Method 5I (Determination of
2132		Low Level Particulate Matter Emissions from Stationary Sources).
2133		
2134	b)	An owner or operator meeting the requirements of Section 726.209(b) for the low
2135		risk waste exemption is exempt from the PM standard.
2136		
2137	c)	Oxygen correction.
2138		

1) Measured pollutant levels must be corrected for the amount of oxygen in the stack gas according to the following formula:

$$P_c = \frac{P_m \times 14}{E - Y}$$

$$P_e = P_m \times 14/(E-Y)$$

Where:

Pc = the corrected concentration of the pollutant in the stack gas Pm = the measured concentration of the pollutant in the stack gas

		air fed	ygen concentration on a dry basis in the combustion to the device assured oxygen concentration on a dry basis in the
2148			
2149		2) For devices that fee	d normal combustion air, E will equal 21 percent. For
2150			ygen-enriched air for combustion (that is, air with an
2151			on exceeding 21 percent), the value of E will be the
2152			ygen in the enriched air.
2153			
2154		3) Compliance with all	emission standards provided by this Subpart H must
2155			ng to seven percent oxygen using this procedure.
2156			
2157	d)	For the purposes of permit	enforcement, compliance with the operating
2158	/		the permit (under Section 726.202) will be regarded as
2159		-	n. However, evidence that compliance with those
2160			cient to ensure compliance with the requirements of
2161			" justifying modification or revocation and re-issuance
2162			m. Code 703.270 through 703.273.
2163			00 , 00 , 0
2164	(Sour	e: Amended at 32 Ill. Reg.	. effective
2165		8	
2166	Section 726.	6 Standards to Control M	letals Emissions
2167			
2168	a)	General. The owner or ope	rator must comply with the metals standards provided
2169	,		(e), or (f) of this Section for each metal listed in
2170			on that is present in the hazardous waste at detectable
2171		levels using appropriate ana	
2172			
2173		BOARD NOTE: The feder	al regulations do not themselves define the phrase
2174			nods," but USEPA did include a definition in its
2175			panying the rule. The Board directs attention to the
2176			ed. Reg. 34538, 34541 (June 14, 2005)) for the
2177			(1)(C) and $(b)(1)(D)$ of this Section:
2178		1 1	
2179		[T]wo primary cons	iderations in selecting an appropriate method, which
2180			general definition of an appropriate method [are the
2181		following] :	
2182		2,1	
2183		1. Appropriate meth	nods are reliable and accepted as such in the scientific
2184		community.	was seen as seen as seen as seen as
2185			
2186		2. Appropriate metl	nods generate effective data.

2187					
2188		USEI	PA wer	it on to f	urther elaborate these two concepts and to specify other
2189		docui	ments t	hat migh	nt provide guidance.
2190					
2191	b)	Tier I	feed r	ate scree	ning limits. Feed rate screening limits for metals are
2192		speci	fied in	Appendi	x A to this Part as a function of terrain-adjusted effective
2193		stack	height	(TESH)	and terrain and land use in the vicinity of the facility.
2194		Criter	ria for f	facilities	that are not eligible to comply with the screening limits are
2195					on (b)(7) of this Section.
2196		•			
2197		1)	None	carcinog	enic metals. The feed rates of the noncarcinogenic metals in
2198		,			ms, including hazardous waste, fuels, and industrial furnace
2199					nust not exceed the screening limits specified in Appendix A
2200				is Part.	C r
2201					
2202			A)	The fe	eed rate screening limits for antimony, barium, mercury,
2203			/		am, and silver are based on either of the following:
2204					
2205				i)	An hourly rolling average, as defined in Sections
2206				-)	726.200(g) and 726.202(e)(6)(A)(ii); or
2207					. = 0. = 0 0 (8) with 1 = 0. = 0 2 (0) (0) (11) (11), 01
2208				ii)	An instantaneous limit not to be exceeded at any time.
2209				/	and the second second at any time.
2210			B)	The fe	eed rate screening limit for lead is based on one of the
2211			2)	follow	•
2212				10110	,
2213				i)	An hourly rolling average, as defined in Sections
2214				1)	726.200(g) and 726.202(e)(6)(A)(ii);
2215					720.200(g) and 720.202(b)(0)(11)(11),
2216				ii)	An averaging period of 2 to 24 hours, as defined in Section
2217				11)	726.202(e)(6)(B) with an instantaneous feed rate limit not
2218					to exceed 10 times the feed rate that would be allowed on
2219					an hourly rolling average basis; or
2220					an hourry forming avorage basis, or
2221				iii)	An instantaneous limit not to be exceeded at any time.
2222				111)	Thi instantaneous innit not to be exceeded at any time.
2223		2)	Carci	inogenic	metals
2224		2)	Carci	mogeme	metals.
2225			A)	The fe	eed rates of carcinogenic metals in all feed streams, including
2226			11)		dous waste, fuels, and industrial furnace feed stocks must not
2227					d values derived from the screening limits specified in
2228					adix A to this Part. The feed rate of each of these metals is
2229					d to a level such that the sum of the ratios of the actual feed
<i>4443</i>				mmic	a to a level such that the sum of the fatios of the actual feed

2230 2231 2232			rate to the feed rate screening limit specified in Appendix A to this Part must not exceed 1.0, as provided by the following equation:
2233			$\sum_{i=1}^{n} \frac{A_i}{F_i} \le 1.0$
2234			
2235			Where:
2236			
			$\begin{split} \Sigma \; A_i/F_i &= \text{the sum of the values of A/F for each metal "i," from} \\ i &= 1 \; \text{to n} \\ n &= \text{number of carcinogenic metals} \\ A_i &= \text{the actual feed rate to the device for metal "i"} \\ F_i &= \text{the feed rate screening limit provided by Appendix A} \\ &= \text{to this Part for metal "i-"} \end{split}$
2237			
2238		B)	The feed rate screening limits for the carcinogenic metals are based
2239			on either:
2240			
2241			i) An hourly rolling average; or
2242			
2243			ii) An averaging period of two to 24 hours, as defined in
2244			Section 726.202(e)(6)(B), with an instantaneous feed rate
2245			limit not to exceed 10 times the feed rate that would be
2246			
			allowed on an hourly rolling average basis.
2247	2)	TECH	I (4
2248	3)	IESH	I (terrain adjusted effective stack height).
2249			
2250		A)	The TESH is determined according to the following equation:
2251			
2252			TESH = H + P - T
2253			
2254			Where:
2255			
			H = Actual physical stack height (m)
			P = Plume rise (in m) as determined from Appendix F to this Part as a function of stack flow rate and stack gas exhaust temperature
			T = Terrain rise (in m) within five kilometers of the stack-
2256			
2257		B)	The stack height (H) must not exceed good engineering practice
2258			stack height, as defined in Section 726.200(i).
2259			<i>G</i> ,
2260		C)	If the TESH calculated pursuant to subsection (b)(3)(A) of this
		,	

Section is not listed in Appendix A through Appendix C to this

Part, the values for the nearest lower TESH listed in the table must be used. If the TESH is four meters or less, a value based on four

2264 meters must be used. 2265 2266 4) Terrain type. The screening limits are a function of whether the facility is 2267 located in noncomplex or complex terrain. A device located where any 2268 part of the surrounding terrain within five kilometers of the stack equals or exceeds the elevation of the physical stack height (H) is considered to be 2269 in complex terrain and the screening limits for complex terrain apply. 2270 Terrain measurements are to be made from U.S. Geological Survey 7.5-2271 minute topographic maps of the area surrounding the facility. 2272 2273 2274 5) Land use. The screening limits are a function of whether the facility is located in an area where the land use is urban or rural. To determine 2275 2276 whether land use in the vicinity of the facility is urban or rural, procedures 2277 provided in Appendix I or Appendix J to this Part must be used. 2278 2279 6) Multiple stacks. An owner or operator of a facility with more than one on-2280 site stack from a BIF, incinerator, or other thermal treatment unit subject to controls of metals emissions under a RCRA permit or interim status 2281 controls must comply with the screening limits for all such units assuming 2282 all hazardous waste is fed into the device with the worst-case stack based 2283 on dispersion characteristics. The stack with the lowest value of K is the 2284 worst-case stack. K is determined from the following equation as applied 2285 to each stack: 2286 2287  $K = H \times V \times T$ 2288 2289 2290 Where: 2291 K = a parameter accounting for relative influence of stack height and plume rise H = physical stack height (meters)  $V = \text{stack gas flow rate } (m^3/\text{sec (cubic meters per }))$ second) = exhaust temperature (degrees K). Τ 2292 Criteria for facilities not eligible for screening limits. If any criteria below 2293 7) are met, the Tier I (and Tier II) screening limits do not apply. Owners and 2294 operators of such facilities must comply with either the Tier III standards 2295 provided by subsection (d) of this Section or with the adjusted Tier I feed 2296 2297 rate screening limits provided by subsection (e) of this Section.

2261

2262

2263

2298		
2299		A) The device is located in a narrow valley less than one kilometer
2300		wide;
2301		
2302		B) The device has a stack taller than 20 meters and is located such
2303		that the terrain rises to the physical height within one kilometer of
2304		the facility;
2305		the facility,
2306		C) The device has a stack taller than 20 meters and is located within
2307		five kilometers of a shoreline of a large body of water such as an
2308		ocean or large lake; or
2309		occan of large take, of
2310		D) The physical stack height of any stack is less than 2.5 times the
2311		height of any building within five building heights or five
2312		projected building widths of the stack and the distance from the
2312		stack to the closest boundary is within five building heights or five
2314		projected building widths of the associated building.
2315		projected building widths of the associated building.
2316		8) Implementation. The feed rate of metals in each feedstream must be
2317		
2317		monitored to ensure that the feed rate screening limits are not exceeded.
2319	<b>a)</b>	Tier II emission rate garaging limits. Emission rate servening limits are annuite
2320	c)	Tier II emission rate screening limits. Emission rate screening limits are specifie in Appendix A to this Part as a function of TESH and terrain and land use in the
2321		vicinity of the facility. Criteria for facilities that are not eligible to comply with
2321		the screening limits are provided in subsection (b)(7) of this Section.
2322		the screening minus are provided in subsection (b)(7) of this section.
2323 2324		1) Noncarcinogenic metals. The emission rates of noncarcinogenic metals
2325		
2325 2326		must not exceed the screening limits specified in Appendix A to this Part.
2320 2327		2) Carcinogenic metals. The emission rates of carcinogenic metals must not
2328		
2326 2329		exceed values derived from the screening limits specified in Appendix A
2329		to this Part. The emission rate of each of these metals is limited to a level such that the sum of the ratios of the actual emission rate to the emission
2330		
2332		rate screening limit specified in Appendix A to this Part must not exceed 1.0, as provided by the following equation:
		1.0, as provided by the following equation:
2333		P 4
2334		$\sum_{i=1}^{n} \frac{A_i}{E_i} \le 1.0$
2335		$i=1$ $\sim_i$
2335 2336		Where:
2330 2227		WINDLE.

 $\Sigma~A_i/E_i = the sum of the values of A/E for each metal "i," from <math display="inline">i$  = 1 to n

			$A_{i}$	= the actual emission rate to the device for metal
			$E_{i}$	the emission rate screening limit provided by Appendix A to this Part for metal "i-"
2338				
2339		3)	Imple	ementation. The emission rate limits must be implemented by
2340			limiti	ng feed rates of the individual metals to levels during the trial burn
2341			(for n	ew facilities or an interim status facility applying for a permit) or the
2342			comp	liance test (for interim status facilities). The feed rate averaging
2343				ds are the same as provided by subsections $(b)(1)(A)$ , $(b)(1)(B)$ , and
2344			(b)(2)	(B) of this Section. The feed rate of metals in each feedstream must
2345			be mo	onitored to ensure that the feed rate limits for the feedstreams
2346			specif	fied under Sections 726.202 or 726.203 are not exceeded.
2347				
2348		4)	Defin	itions and limitations. The definitions and limitations provided by
2349			subse	ction (b) of this Section and 726.200(g) for the following terms also
2350			apply	to the Tier II emission rate screening limits provided by this
2351				ction (c): TESH, good engineering practice stack height, terrain
2352				land use, and criteria for facilities not eligible to use the screening
2353			limits	_
2354				
2355		5)	Multi	ple stacks.
2356		- /		F
2357			A)	An owner or operator of a facility with more than one on-site stack
2358			~ ~)	from a BIF, incinerator, or other thermal treatment unit subject to
2359				controls on metals emissions under a RCRA permit or interim
2360				status controls must comply with the emissions screening limits for
2361				any such stacks assuming all hazardous waste is fed into the device
2362				with the worst-case stack based on dispersion characteristics.
2363				with the worst case stack based on dispersion characteristics.
2364			B)	The worst-case stack is determined by procedures provided in
2365			D)	subsection (b)(6) of this Section.
2366				subsection (b)(b) of this section.
2367			C)	For each metal, the total emissions of the metal from those stacks
2368			C)	must not exceed the screening limit for the worst-case stack.
2369				must not exceed the screening mint for the worst-case stack.
2370	d)	Tier	III cite_c	pecific risk assessment. The requirements of this subsection (d)
2370	u)			ities complying with either the Tier III or Adjusted Tier I except
2372				ed otherwise.
2373		WITCI	c specifi	od offici wise.
		1)	Conor	cal Conformance with the Tier III metals controls must be
2374		1)		ral. Conformance with the Tier III metals controls must be
2375			demo	nstrated by emissions testing to determine the emission rate for each

= number of carcinogenic metals

2376		metal. In addition, conformance with either Tier III or Adjusted Tier I
2377		metals controls must be demonstrated by air dispersion modeling to
2378		predict the maximum annual average off-site ground level concentration
2379		for each metal and a demonstration that acceptable ambient levels are not
2380		exceeded.
2381		
2382	2)	Acceptable ambient levels. Appendix D and Appendix E to this Part list
2383	,	the acceptable ambient levels for purposes of this Subpart H. Reference
2384		air concentrations (RACs) are listed for the noncarcinogenic metals and
2385		1x10 <sup>-5</sup> RSDs are listed for the carcinogenic metals. The RSD for a metal
2386		is the acceptable ambient level for that metal provided that only one of the
2387		four carcinogenic metals is emitted. If more than one carcinogenic metal
2388		is emitted, the acceptable ambient level for the carcinogenic metals is a
2389		fraction of the RSD, as described in subsection $(d)(3)$ of this Section.
2390		and the field, as asserted in subsection (a)(3) or this section.
2391	3)	Carcinogenic metals. For the carcinogenic metals the sum of the ratios of
2392	٥,	the predicted maximum annual average off-site ground level
2393		concentrations (except that on-site concentrations must be considered if a
2394		person resides on site) to the RSD for all carcinogenic metals emitted must
2395		not exceed 1.0 as determined by the following equation:
2396		not exceed 1.0 as determined by the following equation.
2370		n $D$
2397		$\sum_{i=1}^{n} \frac{P_i}{R_i} \le 1.0$
		$\overline{i=1} R_i$
2398		
2399		Where:
2400		
		$\sum P_i/R_i$ = the sum of the values of P/R for each metal "i,"
		from $i = 1$ to n
		n = number of carcinogenic metals
		P <sub>i</sub> = the predicted ambient concentration for metal i
		$R_i$ = the RSD for metal i.
2401		
2402	4)	Noncarcinogenic metals. For the noncarcinogenic metals, the predicted
2403		maximum annual average off-site ground level concentration for each
2404		metal must not exceed the RAC.
2405		
2406	5)	Multiple stacks. Owners and operators of facilities with more than one
2407		on-site stack from a BIF, incinerator, or other thermal treatment unit
2408		subject to controls on metals emissions under a RCRA permit or interim
2409		status controls must conduct emissions testing (except that facilities
2410		complying with Adjusted Tier I controls need not conduct emissions
2411		testing) and dispersion modeling to demonstrate that the aggregate
2412		emissions from all such on-site stacks do not result in an

2413			exce	edanceexceedence of the acceptable ambient levels.				
2414								
2415		6)	Impl	ementation. Under Tier III, the metals controls must be implemented				
2416			by lii	miting feed rates of the individual metals to levels during the trial				
2417		_		(for new facilities or an interim status facility applying for a permit)				
2418				e compliance test (for interim status facilities). The feed rate				
2419				aging periods are the same as provided by subsections (b)(1)(A),				
2420				(B), and $(b)(2)(B)$ of this Section. The feed rate of metals in each				
2421				stream must be monitored to ensure that the feed rate limits for the				
2422				streams specified under Sections 726.202 or 726.203 are not				
2423			exce	*				
2424			CACC	oucu.				
2425	e)	Δdin	sted Tie	er I feed rate screening limits. The owner or operator may adjust the				
2426	C)							
2427			feed rate screening limits provided by Appendix A to this Part to account for site- specific dispersion modeling. Under this approach, the adjusted feed rate					
2427 2428		-	_	nit for a metal is determined by back-calculating from the acceptable				
2428 2429				·				
2429 2430				els provided by Appendix D and Appendix E to this Part using				
2430 2431				odeling to determine the maximum allowable emission rate. This				
2431 2432				becomes the adjusted Tier I feed rate screening limit. The feed rate				
2432 2433			-	nits for carcinogenic metals are implemented as prescribed in				
		Subse	ection (t	p)(2) of this Section.				
2434 2435	f)	Alter	native i	mplementation approaches.				
2436	,							
2437		1)	Pursu	ant to subsection (f)(2) of this Section the Agency must approve on a				
2438		,		by-case basis approaches to implement the Tier II or Tier III metals				
2439				sion limits provided by subsection (c) or (d) of this Section alternative				
2440				onitoring the feed rate of metals in each feedstream.				
2441				č				
2442		2)	The e	emission limits provided by subsection (d) of this Section must be				
2443		,		mined as follows:				
2444								
2445			A)	For each noncarcinogenic metal, by back-calculating from the				
2446			,	RAC provided in Appendix D to this Part to determine the				
2447				allowable emission rate for each metal using the dilution factor for				
2448				the maximum annual average ground level concentration predicted				
2449				by dispersion modeling in conformance with subsection (h) of this				
2450				Section; and				
2451				,				
2452			B)	For each carcinogenic metal by the following methods:				
2453			,	J				
2454				i) By back-calculating from the RSD provided in Appendix E				
2455				to this Part to determine the allowable emission rate for				

2456		each metal if that metal were the only carcinogenic metal
2457		emitted using the dilution factor for the maximum annual
2458		average ground level concentration predicted by dispersion
2459		modeling in conformance with subsection (h) of this
2460		Section; and
2461		
2462		ii) If more than one carcinogenic metal is emitted, by selecting
2463		an emission limit for each carcinogenic metal not to exceed
2464		the emission rate determined by subsection (f)(2)(B)(i) of
2465		this Section, such that the sum for all carcinogenic metals
2466		of the ratios of the selected emission limit to the emission
2467		rate determined by that subsection does not exceed 1.0.
2468		
2469	g)	Emission testing.
2470	٥,	
2471		1) General. Emission testing for metals must be conducted using Method
2472		0060 (Determinations of Metals in Stack Emissions) in "Test Methods for
2473		Evaluating Solid Waste, Physical/Chemical Methods," USEPA
2474		publication number EPA-530/SW-846, incorporated by reference in 35 Ill.
2475		Adm. Code 720.111(a).
2476		12000 (20111(0))
2477		2) Hexavalent chromium. Emissions of chromium are assumed to be
2478		hexavalent chromium unless the owner or operator conducts emissions
2479		testing to determine hexavalent chromium emissions using procedures
2480		prescribed in Method 0061 (Determination of Hexavalent Chromium
2481		Emissions from Stationary Sources) in "Test Methods for Evaluating Solid
2482		Waste, Physical/Chemical Methods," USEPA publication number EPA-
2483		530/SW-846, incorporated by reference in 35 Ill. Adm. Code 720.111(a).
2484		25 0/6 % 6 70, meorporated by reference in 55 in. Fain. Code 720.111(a).
2485	h)	Dispersion modeling. Dispersion modeling required under this Section must be
2486	11)	conducted according to methods recommended in federal appendix W to 40 CFR
2487		51 (Guideline on Air Quality Models), in section 5.0 (Hazardous Waste
2488		Combustion Air Quality Screening Procedure) in appendix IX to 40 CFR 266
2489		(Methods Manual for Compliance with the BIF Regulations), or in "Screening
2490		Procedures for Estimating the Air Quality Impact of Stationary Sources,
2491		Revised," USEPA publication number EPA-454/R-92-019, each incorporated by
2492		reference in 35 Ill. Adm. Code 720.111(b), to predict the maximum annual
2493		average off-site ground level concentration. However, on-site concentrations must
2493 2494		
2494 2495		be considered when a person resides on-site.
2493 2496	;)	Enforcement For the nurnoses of normit enforcement compliance with the
2496 2497	i)	Enforcement. For the purposes of permit enforcement, compliance with the
2497 2498		operating requirements specified in the permit (under Section 726.202) will be regarded as compliance with this Section. However, evidence that compliance
/ <del>+ 7</del> 0		TOPALUKU AS COMUNIANCE WHILLIAN SECTION FLOWEVER EVIDENCE INSLEASINANCE

2499				permit conditions is insufficient to ensure compliance with the	
2500		requirements of this Section is "information" justifying modification or revocation			
2501		and r	e-issua	nce of a permit under 35 Ill. Adm. Code 703.270 through 703.273.	
2502					
2503	(Soi	ırce: An	nended	at 32 Ill. Reg, effective)	
2504					
2505	Section 720	5.207 St	andard	ds to Control HCl and Chlorine Gas Emissions	
2506					
2507	a)	Gene	ral. Th	ne owner or operator must comply with the HCl and chlorine gas	
2508				vided by subsection (b), (c), or (e) of this Section.	
2509				•	
2510	b)	Scree	ening li	mits.	
2511	,		υ		
2512		1)	Tier	I feed rate screening limits. Feed rate screening limits are specified	
2513		-/		otal chlorine in Appendix B to this Part as a function of TESH and	
2514				in and land use in the vicinity of the facility. The feed rate of total	
2515				rine and chloride, both organic and inorganic, in all feed streams,	
2516				iding hazardous waste, fuels, and industrial furnace feed stocks must	
2517				exceed the levels specified.	
2518			not c	Acced the levels specified.	
2519		2)	Tier	II emission rate screening limits. Emission rate screening limits for	
2520		2)		and chlorine gas are specified in Appendix C to this Part as a function	
2521				* **	
2522				ESH and terrain and land use in the vicinity of the facility. The stack	
2523				sion rates of HCl and chlorine gas must not exceed the levels	
2523 2524			speci	ified.	
		2)	Dof	nitions and limitations. The deficitions and limitation in 11	
2525		3)		nitions and limitations. The definitions and limitations provided by	
2526				ions 726.200(i) and 726.206(b) for the following terms also apply to	
2527				creening limits provided by this subsection: TESH, good engineering	
2528				rice stack height, terrain type, land use, and criteria for facilities not	
2529			engn	ble to use the screening limits.	
2530		4)	3.6.1		
2531		4)		iple stacks. Owners and operators of facilities with more than one	
2532				te stack from a BIF, incinerator or other thermal treatment unit	
2533			_	ect to controls on HCl or chlorine gas emissions under a RCRA permit	
2534				terim status controls must comply with the Tier I and Tier II	
2535				ening limits for those stacks assuming all hazardous waste is fed into	
2536			the d	evice with the worst-case stack based on dispersion characteristics.	
2537					
2538			A)	The worst-case stack is determined by procedures provided in	
2539				Section 726.206(b)(6).	
2540					
2541			B)	Under Tier I, the total feed rate of chlorine and chloride to all	

2542 subject devices must not exceed the screening limit for the worst-2543 case stack. 2544 2545 C) Under Tier II, the total emissions of HCl and chlorine gas from all subject stacks must not exceed the screening limit for the worst-2546 2547 case stack. 2548 2549 c) Tier III site-specific risk assessments. 2550 2551 1) General. Conformance with the Tier III controls must be demonstrated by 2552 emissions testing to determine the emission rate for HCl and chlorine gas, air dispersion modeling to predict the maximum annual average off-site 2553 2554 ground level concentration for each compound, and a demonstration that 2555 acceptable ambient levels are not exceeded. 2556 2557 2) Acceptable ambient levels. Appendix D to this Part lists the RACs for HCl (7  $\mu$ g/m<sup>3</sup>) and chlorine gas (0.4  $\mu$ g/m<sup>3</sup>). 2558 2559 2560 3) Multiple stacks. Owners and operators of facilities with more than one on-site stack from a BIF, incinerator, or other thermal treatment unit 2561 2562 subject to controls on HCl or chlorine gas emissions under a RCRA permit 2563 or interim status controls must conduct emissions testing and dispersion 2564 modeling to demonstrate that the aggregate emissions from all such on-site 2565 stacks do not result in an exceedance exceedence of the acceptable ambient levels for HCl and chlorine gas. 2566 2567 2568 d) Averaging periods. The HCl and chlorine gas controls are implemented by limiting the feed rate of total chlorine and chloride in all feedstreams, including 2569 2570 hazardous waste, fuels, and industrial furnace feed stocks. Under Tier I, the feed rate of total chlorine and chloride is limited to the Tier I Screening Limits. Under 2571 Tier II and Tier III, the feed rate of total chlorine and chloride is limited to the 2572 feed rates during the trial burn (for new facilities or an interim status facility 2573 applying for a permit) or the compliance test (for interim status facilities). The 2574 feed rate limits are based on either of the following: 2575 2576 1) 2577 An hourly rolling average, as defined in Sections 726.200(i) and 2578 726.202(e)(6); or 2579 2580 2) An instantaneous basis not to be exceeded at any time. 2581 2582 e) Adjusted Tier I feed rate screening limits. The owner or operator may adjust the feed rate screening limit provided by Appendix B to this Part to account for site-2583 2584 specific dispersion modeling. Under this approach, the adjusted feed rate

2585 2586 2587 2588		screening limit is determined by back-calculating from the acceptable ambient level for chlorine gas provided by Appendix D to this Part using dispersion modeling to determine the maximum allowable emission rate. This emission rate becomes the adjusted Tier I feed rate screening limit.
2589 2590 2591 2592 2593	f)	Emissions testing. Emissions testing for HCl and chlorine gas (Cl <sub>2</sub> ) must be conducted using the procedures described in Method 0050 or 0051, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," USEPA publication number EPA-530/SW-846, incorporated by reference in 35 Ill. Adm.
2594 2595		Code 720.111(a).
2596 2597 2598	g)	Dispersion modeling. Dispersion modeling must be conducted according to the provisions of Section 726.206(h).
2599 2600 2601	h)	Enforcement. For the purposes of permit enforcement, compliance with the operating requirements specified in the permit (under Section 726.202) will be regarded as compliance with this Section. However, evidence that compliance
2602 2603		with those permit conditions is insufficient to ensure compliance with the requirements of this Section is "information" justifying modification or revocation
2604 2605		and re-issuance of a permit under 35 Ill. Adm. Code 703.270 through 703.273.
2606 2607	(Sour	ce: Amended at 32 Ill. Reg, effective)
2608 2609	Section 726.	209 Low Risk Waste Exemption
2610 2611 2612 2613	a)	Waiver of DRE standard. The DRE standard of Section 726.204(a) does not apply if the BIF is operated in conformance with subsection (a)(1) of this Section, and the owner or operator demonstrates by procedures prescribed in subsection (a)(2) of this Section, that the burning will not result in unacceptable adverse
2614 2615		health effects.
2616 2617		1) The device must be operated as follows:
2618 2619		A) A minimum of 50 percent of fuel fired to the device must be fossil fuel, fuels derived from fossil fuel, tall oil, or, if approved by the
2620 2621 2622 2623 2624 2625		Agency on a case-by-case basis, other nonhazardous fuel with combustion characteristics comparable to fossil fuel. Such fuels are termed "primary fuel" for purposes of this Section. (Tall oil is a fuel derived from vegetable and rosin fatty acids.) The 50 percent primary fuel firing rate must be determined on a total heat or mass input basis, whichever results in the greater mass feed rate
2626 2627		of primary fuel fired;

2628 2629		B)	Primary fuels and hazardous waste fuels must have a minimum as- fired heating value of 8,000 Btu/lb;
2630			
2631 2632		C)	The hazardous waste is fired directly into the primary fuel flame zone of the combustion chamber; and
2633		<b>D</b> )	
2634 2635		D)	The device operates in conformance with the CO controls provided by Section 726.204(b)(1). Devices subject to the exemption
2636 2637			provided by this Section are not eligible for the alternative CO controls provided by Section 726.204(c).
2638 2639	2)	Proce	edures to demonstrate that the hazardous waste burning will not pose
2640 2641	2)		ceptable adverse public health effects are as follows:
2642 2643 2644 2645		A)	Identify and quantify those nonmetal compounds listed in Appendix H to 35 Ill. Adm. Code 721, that could reasonably be expected to be present in the hazardous waste. The constituents excluded from analysis must be identified and the basis for their
2646			exclusion explained;
2647		D)	Calculate manufacture in increase Control
2648 2649		B)	Calculate reasonable, worst case emission rates for each constituent identified in subsection (a)(2)(A) of this Section, by
2650 2651 2652			assuming the device achieves 99.9 percent destruction and removal efficiency. That is, assume that 0.1 percent of the mass weight of each constituent fed to the device is emitted.
2653			
2654 2655 2656		C)	For each constituent identified in subsection (a)(2)(A) of this Section, use emissions dispersion modeling to predict the maximum annual average ground level concentration of the
2657			constituent.
2658			
2659			i) Dispersion modeling must be conducted using methods
2660			specified in Section 726.206(h).
2661			**)
2662			ii) An owner or operator of a facility with more than one on-
2663			site stack from a BIF that is exempt under this Section must
2664			conduct dispersion modeling of emissions from all stacks
2665			exempt under this Section to predict ambient levels
2666			prescribed by this subsection (a)(2).
2667			
2668		D)	Ground level concentrations of constituents predicted under
2669 2670			subsection (a)(2)(C) of this Section, must not exceed the following levels:
2669		_ /	subsection (a)(2)(C) of this Section, must not exceed the following

2671 2672 2673	<ul> <li>For the noncarcinogenic compounds listed in Appendix D,</li> <li>the levels established in Appendix D;</li> </ul>
2674	
2675	ii) For the carcinogenic compounds listed in Appendix E:
2676	in the caroling of the compounds noted in Appendix E.
2677	$\sum_{i=1}^{n} \frac{A_i}{L_i} \le 1.0$
2678	
2679	Where:
2680 2681	<ul> <li>Σ(A<sub>i</sub>/L<sub>i</sub>) = means-the sum of the values of X for each carcinogen i, from i = 1 to n.</li> <li>n = means-the number of carcinogenic compounds;</li> <li>A<sub>i</sub> = actual Actual ground level concentration of carcinogen "i."</li> <li>L<sub>i</sub> = Level established in Appendix E for carcinogen "i".; and</li> </ul>
2682 2683	iii) For constituents not listed in Appendix D or E, 0.1 $\mu$ g/m³.
2684 2685	b) Waiver of <u>particulateparticular</u> matter standard. The PM standard of Section 726.205 does not apply if the following occur:
2686	720.203 does not appry if the following occur.
2687	1) The DRE standard is waived under subsection (a) of this Section; and
2688	1) The DRE standard is warved under subsection (a) of this Section, and
2689	2) The owner or operator complies with the Tier I, or adjusted Tier I, metals
2690	feed rate screening limits provided by Section 726.206(b) or (e).
2691	reed rate screening mints provided by section 720.200(b) of (e).
2692	(Source: Amended at 32 Ill. Reg, effective )
2092	(Source. Amended at 32 III. Reg, effective)

## Section 726.APPENDIX D Reference Air Concentrations

 BOARD NOTE: The RAC for other Appendix H to 35 Ill. Adm. Code 721 constituents not listed below or in Appendix E is  $0.1~\mu\text{g/m}^3$ .

Constituent	CAS No.	RAC ( $\mu$ g/m <sup>3</sup> )
Acetaldehyde	75-07-0	10
Acetonitrile	75-05-8	10
Acetophenone	98-86-2	100
Acrolein	107-02-8	20
Aldicarb	116-06-3	1
Aluminum Phosphide	20859-73-8	0.3
Allyl Alcohol	107-18-6	5
Antimony	7440-36-0	0.3
Barium	7440-39-3	50
Barium Cyanide	542-62-1	50
Bromomethane	74-83-9	0.8
Calcium Cyanide	592-01-8	30
Carbon Disulfide	75-15-0	200
Chloral	75-87-6	2
Chlorine (free)		0.4
2-Chloro-1,3-butadiene	126-99-8	3
Chromium III	16065-83-1	1000
Copper Cyanide	544-92-3	5
Cresols	1319-77-3	50
Cumene	98-82-8	1
Cyanide (free)	57-12-15	20
Cyanogen	460-19-5	30
Cyanogen Bromide	506-68-3	80
Di-n-butyl Phthalate	84-74-2	100
o-Dichlorobenzene	95-50-1	10
p-Dichlorobenzene	106-46-7	10
Dichlorodifluoromethane	75-71-8	200
2,4-Dichlorophenol	120-83-2	3
Diethyl Phthalate	84-66-2	800
Dimethoate	60-51-5	0.8
2,4-Dinitrophenol	51-28-5	2
Dinoseb	88-85-7	0.9
Diphenylamine	122-39-4	20
Endosulfan	115-29-1	0.05
Endrin	72-20-8	0.3
Fluorine	7782-41-4	50

Formic Acid	64-18-6	2000
Glycidylaldehyde	765-34-4	0.3
Hexachlorocyclopentadiene	77-47-4	5
Hexachlorophene	70-30-4	0.3
Hydrocyanic Acid	74-90-8	20
Hydrogen Chloride	7647-01-1	7
Hydrogen Sulfide	7783-06-4	3
Isobutyl Alcohol	78-83-1	300
Lead	7439-92-1	0.09
Maleic Anhydride	108-31-6	100
Mercury	7439-97-6	0.3
Methacrylonitrile	126-98-7	0.1
Methomyl	16752-77-5	20
Methoxychlor	72-43-5	50
Methyl Chlorocarbonate	79-22-1	1000
Methyl Ethyl Ketone	78-93-3	80
Methyl Parathion	298-00-0	0.3
Nickel Cyanide	557-19-7	20
Nitric Oxide	10102-43-9	100
Nitrobenzene	98-95-3	0.8
Pentachlorobenzene	608-93-5	0.8
Pentachlorophenol	87-86-5	30
Phenol	108-95-2	30
M-Phenylenediamine	108-45-2	5
Phenylmercuric Acetate	62-38-4	0.075
Phosphine	7803-51-2	0.3
Phthalic Anhydride	85-44-9	2000
Potassium Cyanide	151-50-8	50
Potassium Silver Cyanide	506-61-6	200
Pyridine	110-86-1	1
Selenious Acid	7783-60-8	3
Selenourea	630-10-4	5
Silver	7440-22-4	3
Silver Cyanide	506-64-9	100
Sodium Cyanide	143-33-9	30
Strychnine	57-24-9	0.3
1,2,4,5-Tetrachlorobenzene	95-94-3	0.3
2,3,4,6-Tetrachlorophenol	58-90-2	30
Tetraethyl Lead	78-00-2	0.0001
Tetrahydrofuran	109-99-9	10
Thallic Oxide	1314-32-5	0.3
Thallium	7440-28-0	0.5
Thallium (I) Acetate	563-68-8	0.5

Thallium (I) Carbonate	6533-73-9	0.3
Thallium (I) Chloride	7791-12-0	0.3
Thallium (I) Nitrate	10102-45-1	0.5
Thallium Selenite	12039-52-0	0.5
Thallium (I) Sulfate	7446-18-6	0.075
Thiram	137-26-8	5
Toluene	108-88-3	300
1,2,4-Trichlorobenzene	120-82-1	20
Trichloromonofluoromethane	75-69-4	300
2,4,5-Trichlorophenol2.4.5	95-95-4	100
Trichlorophenol		
Vanadium Pentoxide	1314-62-1	20
Warfarin	81-81-2	0.3
Xylenes	1330-20-7	80
Zinc Cyanide	557-21-1	50
Zinc Phosphide	1314-84-7	0.3
(Source: Amended at 32 III R	Peg effective	

2698 2699

(Source: Amended at 32 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

BOARD NOTE: These are risk specific doses (RSDs) based on a risk of 1 in 10,000  $(1\times10^{-5})(-1'10^{-5})$ .

Constituent	CAS No.	Unit risk (cu m³µg)	RSD ( $\mu$ g/m <sup>3</sup> )
Acrylamide	79-06-1	0.0013	0.0077
Acrylonitrile	107-13-1	0.000068	0.15
Aldrin	309-00-2	0.0049	0.0020
Aniline	62-53-3	0.0000074	1.4
Arsenic	7440-38-2	0.0043	0.0023
Benz(a)anthracene	56-55-3	0.00089	0.011
Benzene	71-43-2	0.0000083	1.2
Benzidine	92-87-5	0.067	0.00015
Benzo(a)pyrene	50-32-8	0.0033	0.0030
Beryllium	7440-41-7	0.0024	0.0042
Bis(2-chloroethyl)ether	111-44-4	0.00033	0.030
Bis(chloromethyl)ether	542-88-1	0.062	0.00016
Bis(2-ethylhexyl)-phthalate	117-81-7	0.00000024	42.
1.3-Butadiene	106-99-0	0.00028	0.036
Cadmium	7440-43-9	0.0018	0.0056
Carbon Tetrachloride	56-23-5	0.000015	0.67
Chlordane	57-74-9	0.00037	0.027
Chloroform	67-66-3	0.000023	0.43
Chloromethane	74-87-3	0.0000036	2.8
Chromium VI	7440-47-3	0.012	0.00083
DDT	50-29-3	0.000097	0.10
Dibenz(a,h)anthracene	53-70-3	0.014	0.00071
1,2-Dibromo-3-chloro- propane	96-12-8	0.0063	0.0016
1,2-Dibromoethane	106-93-4	0.00022	0.045
1,1-Dichloroethane	75-34-3	0.000026	0.38
1,2-Dichloroethane	107-06-2	0.000026	0.38
1,1-Dichloroethylene	75-35-4	0.00005	0.20
1,3-Dichloropropene	542-75-6	0.35	0.000029
Dieldrin	60-57-1	0.0046	0.0022
Diethylstilbestrol	56-53-1	0.14	0.000071
Dimethylnitrosamine	62-75-9	0.014	0.00071
2,4-Dinitrotoluene	121-14-2	0.000088	0.11
1,2-Diphenylhydrazine	122-66-7	0.00022	0.045
1,4-Dioxane	123-91-1	0.0000014	7.1
Epichlorohydrin	106-89-8	0.0000012	8.3
Ethylene Oxide	75-21-8	0.00010	0.10

Ethylene Dibromide	106-93-4	0.00022	0.045
Formaldehyde	50-00-0	0.000013	0.77
Heptachlor	76-44-8	0.0013	0.0077
Heptachlor Epoxide	1024-57-3	0.0026	0.0038
Hexachlorobenzene	118-74-1	0.00049	0.020
Hexaclorobutadiene	87-68-3	0.000020	0.50
Alpha-hexachlorocyclohexane	319-84-6	0.0018	0.0056
Beta-hexachlorocyclohexane	319-85-7	0.00053	0.019
Gamma-hexachlorocyclohexane	58-89-9	0.00038	0.026
Hexachlorocyclohexane,		0.00051	0.020
Technical			
Hexachlorodibenzo-p-dioxin		1.3	0.0000077
(1,2 Mixture)			
Hexachloroethane	67-72-1	0.0000040	2.5
Hydrazine	302-01-2	0.0029	0.0034
Hydrazine Sulfate	302-01-2	0.0029	0.0034
3-Methylcholanthrene	56-49-5	0.0027	0.0037
Methyl Hydrazine	60-34-4	0.00031	0.032
Methylene Chloride	75-09-2	0.0000041	2.4
4,4'-Methylene-bis-2-	101-14-4	0.000047	0.21
chloroaniline			
Nickel	7440-02-0	0.00024	0.042
Nickel Refinery Dust	7440-02-0	0.00024	0.042
Nickel Subsulfide	12035-72-2	0.00048	0.021
2-Nitropropane	79 <b>-</b> 46-9	0.027	0.00037
N-Nitroso-n-butylamine	924-16-3	0.0016	0.0063
N-Nitroso-n-methylurea	684-93-5	0.086	0.00012
N-Nitrosodiethylamine	55-18-5	0.043	0.00023
N-Nitrosopyrrolidine	930-55-2	0.00061	0.016
Pentachloronitrobenzene	82-68-8	0.000073	0.14
PCBs	1336-36-3	0.0012	0.0083
Pronamide	23950-58-5	0.0000046	2.2
Reserpine	50-55-5	0.0030	0.0033
2,3,7,8-Tetrachloro-dibenzo-p-	1746-01-6	45.	0.00000022
dioxin			
1,1,2,2-Tetrachloroethane	79-34-5	0.000058	0.17
Tetrachloroethylene	127-18-4	0.00000048.	21.
Thiourea	62-56-6	0.00055	0.018
1,1,2-Trichloroethane	79-00-5	0.000016	0.63
Trichloroethylene	79-01-6	0.0000013	7.7
2,4,6-Trichlorophenol	88-06-2	0.0000057	1.8
Toxaphene	8001-35-2	0.00032	0.031
Vinyl Chloride	75-01-4	0.0000071	1.4

2705			
2706	(Source: Amended at 32 Ill. Reg	, effective	)