POLLUTION CONTROL BOARD

NOTICE OF PROPOSED RULES

R14-19

<u>1</u> 13

- 1) <u>Heading of the Part</u>: Standards and Limitations for Certain Sources of Lead
- 2) <u>Code Citation</u>: 35 Ill. Adm. Code 226

3)	Section Numbers:	Proposed Action:		
	226.100	New		
	226.105	New		
	226.110	New		
	226.115	New		
	226.120	New		
	226.125	New		
	226.130	New		
	226.140	New		
	226.150	New		
	226.155	New		
	226.160	New		
	226.165	New		
	226.170	New		
	226.175	New		
	226.185	New		

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- 4) <u>Statutory Authority</u>: Implementing Section 10 of the Environmental Protection Act (Act) and authorized by Sections 27, 28.2, and 28.5 of the Act [415 ILCS 5/10, 27, 28.2, and 28.5]
- 5) <u>A Complete Description of the Subjects and Issues Involved</u>: A more complete description of this proposal may be found in the Board's first-notice opinion and order of November 21, 2013, in docket R14-19.

This rulemaking is proposed to meet certain obligations of the State of Illinois under the federal Clean Air Act, 42 U.S.C. § 7401 *et seq.*; specifically, to satisfy Illinois' obligation to submit a State Implementation Plan to address requirements of Section 172 of the Clean Air Act and 40 C.F.R. § 51.117 for sources of lead emissions causing exceedances of the lead National Ambient Air Quality Standards (NAAQS). *See,* 42 U.S.C. § 7502 (2012); 40 C.F.R. § 51.117 (2013). This proposal will require nonferrous metal production facilities located in areas of Illinois designated nonattainment for the 2008 lead NAAQS to achieve the numerical emission standards set by the proposed rule beginning January 1, 2015. Depending on the type of lead kettle or furnace being regulated at affected sources, the proposal sets forth an accompanying lead emission limit for the exhaust from the associated control device. In addition, the units that are the most

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significant sources of fugitive emissions at affected sources must operate within a total enclosure under negative pressure. Any gas stream exiting the enclosure must be controlled by particulate emission control equipment meeting an accompanying lead emission limit. Additional measures for reduction of fugitive emissions include operating pursuant to an Illinois EPA approved Lead Fugitive Dust Operating Program. This proposal also sets forth testing, monitoring, recordkeeping, and reporting requirements for affected sources.

6) <u>Published studies or reports and sources of underlying data used to compose this</u> <u>rulemaking</u>: The regulatory proposal relied on several sources. Copies of the documents the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below:

40 CFR 51, Appendix M, Method 204.

Gutow, B., *An Inventory of Iron Foundry Emissions*, Prepared for Air Pollution Control Office, Environmental Protection Agency, (Under Contract CPA 22-60-106), January 1972.

Illinois Environmental Protection Agency. Modeling Data for Part 226, Standards and Limitations for Certain Sources of Lead. Bureau of Air, Air Quality Planning Section, Springfield, IL, 2013.

Illinois Environmental Protection Agency. *Technical Support Document for Control of Lead Emissions from Nonferrous Metal Production Facilities in Lead Nonattainment Areas*, AQPSTR 13-07. Bureau of Air, Air Quality Planning Section, Springfield, IL, October 2013.

TRC Environmental Corporation. Assessment of Fugitive Lead Emissions from the Electric Furnace Building, H. Kramer & Co., Chicago, Illinois, June 26, 2012.

TRC Environmental Corporation. Assessment of Fugitive Lead Emissions from the South Foundry Building, H. Kramer & Co., Chicago, Illinois, June 2012.

U.S. Environmental Protection Agency. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, AP-42, Fifth Edition, Pages 12.17-1–12.17-4. January 1995.

U.S. Environmental Protection Agency, Implementation of the 2008 Lead National Ambient Air Quality Standards, Guide to Developing Reasonably Available Control

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Measures (RACM) for Controlling Lead Emissions, (EPA-457/R-12-001). March 2012.

United States of America and State of Illinois v. H. Kramer & Co., U.S. Dist. Ct., Northern District, Civil Action No. 13 CV 0771, Consent Decree, December 24, 2012.for Illinois Soils, Bulletin No. 811 (2000), revised 1/15/01 to amend Table S2 B811, University of Illinois College of Agriculture, Consumer and Environmental Sciences Office of Research

Illinois Environmental Protection Act (415 ILCS 5 (2012))

Clean Air Act (42 U.S.C. § 7401 et seq. (2012))

- 7) <u>Will this rulemaking replace any emergency rule currently in effect</u>? No
- 8) Do this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? Yes

Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards, 75 Fed. Reg. 71033-01 (November 22, 2010).

Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards, 75 Fed. Reg. 72097-01 (November 22, 2011).

Standards of Performance for New Stationary Sources, 40 C.F.R. § 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, 3A, 4, 12, and 29 (2012).

Hazardous Waste Management System: General, 40 C.F.R. §§ 260.11(c)(3)(v), 261, Method 1311 (2012).

Emission Measurement Center Guideline Document (GD-042) *Preparation and Review* of Site-Specific Emission Test Plans, U.S. Environmental Protection Agency, Revised March 1999.

OSHA Method 1006, Occupational Safety & Health Administration, January 2005.

- 10) Are there any other proposed rulemaking pending on this Part? No
- 11) <u>Statement of Statewide Policy Objectives</u>: These proposed amendments do not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act.

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12) <u>Time, Place, and Manner in which interested persons may comment on this proposed</u> <u>rulemaking</u>: The Board will accept written public comment on this proposal for a period of 45 days after the date of publication. Comments should refer to docket R14-19 and be addressed to:

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

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Interested persons may request copies of the Board's opinion and order in R14-19 by calling the Clerk's office at 312/814-3620, or may download copies from the Board's Web site at www.ipcb.state.il.us. For more information, contact the Clerk's Office at 312/814-3629.

- 13) Initial Regulatory Flexibility Analysis:
 - A) <u>Types of small businesses, small municipalities and not for profit corporations</u> <u>affected</u>: This rulemaking will impact any small business, small municipality, and not for profit corporation that falls within the definition of "nonferrous metal production facility" and meets the applicability requirements specified in the proposal.
 - B) <u>Reporting, bookkeeping or other procedures required for compliance</u>: The proposed rulemaking requires that the owner or operator of a subject source perform monitoring, complete required tests, and maintain records and make reports as required.
 - C) <u>Types of professional skills necessary for compliance</u>: The Board does not expect that professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.
- 14) <u>Regulatory Agenda in which these amendments were summarized</u>: The Board's July 2013 regulatory agenda summarizes these proposed amendments at 37 Ill. Reg. 9060, (June 28, 2013).

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

F		1ST NOTICE VERSION
		ICAR350226-1319490r01
		JC/11(350220-1515450101
1 2		TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION
3		
4		CHAPTER I: POLLUTION CONTROL BOARD
6		FOR STATIONARY SOURCES
7		TOK STATIONAKT SOUKELS
8		PART 226
9	SI	TANDARDS AND LIMITATIONS FOR CERTAIN SOURCES OF LEAD
10		
11	Section:	
12	226.100	Severability
13	226.105	Scope and Organization
14	226.110	Abbreviations and Acronyms
15	226.115	Definitions
16	226.120	Incorporations by Reference
17	226.125	Applicability
18	226.130	Compliance Date
19	226.140	Lead Emission Standards
20	226.150	Operational Monitoring for Control Device
21	226.155	Total Enclosure
22	226.160	Operational Measurement for Total Enclosure
23	226.165	Inspection
24	226.170	Lead Fugitive Dust Operating Program
25	226.175	Emissions Testing
20 27	220.185	Record Reporting
21	AUTHODIT	V. Implementing Section 10 of the Environmental Protection Act and authorized by
20 20	Sections 27	28.2 and 28.5 of the Act [415 II CS 5/10, 27, 28.2, and 28.5]
30	Security 27, 2	20.2, and 20.5 of the Act [415 (Les $5/10$, 27 , 20.2 , and 20.5].
31	SOURCE	donted at 38 III Reg effective
32	Soonel. I	
33	Section 226.	100 Severability
34		
35	If any Section	n, subsection, or clause of this Part is found invalid, that finding shall not affect the
36	validity of thi	is Part as a whole or any Section, subsection, or clause not found invalid.
37	₽	
38	Section 226.	105 Scope and Organization
39		

- 40a)This Part sets standards and limitations for emissions of lead from stationary41sources.

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Notwithstanding the provisions of this Part, the air quality standards contained in

44 35 Ill. Adm. Code 243 must not be violated. 45 46 Section 226.110 Abbreviations and Acronyms 47 48 The following abbreviations and acronyms are used in this Part: 49 50 Act Illinois Environmental Protection Act, 415 ILCS 5 51 CPMP continuous parametric monitoring plan 52 CDMP control device monitoring plan 53 feet per minute fpm 54 FV facial velocity 55 gr/dscf grains per dry standard cubic foot 56 Hg mercury 57 Illinois EPA Illinois Environmental Protection Agency 58 m/hr meters per hour 59 milligrams per liter mg/l 60 OSHA Occupational Safety & Health Administration 61 Pb lead 62 USEPA United States Environmental Protection Agency 63 64 Section 226.115 Definitions 65 66 The following definitions apply for the purposes of this Part. Unless otherwise defined in this Section or a different meaning for a term is clear from its context, all terms not defined in this 67 68 Part shall have the meaning given them in the Act and in 35 Ill. Adm. Code 211. 69 70 "Agglomerating furnace" means a furnace used to melt into a solid mass flue dust 71 that is collected from a baghouse. 72 73 "Alloy" means a mixture or metallic solid solution composed of 2 or more 74 elements. 75 76 "Alloying" means the process of combining or mixing metals or other substances 77 in molten form for the purpose of producing a particular alloy. 78 79 "Alloying and refining kettle" means an open-top vessel that is heated from below 80 and contains molten lead for the purpose of alloying and refining the lead. These 81 kettles include, but are not limited to, pot furnaces, receiving kettles, and holding 82 kettles. 83 84 "Battery breaking area" means the source location at which lead-acid batteries are 85 broken, crushed, disassembled, or separated into components.

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86	
87	"Casting" means the process of transferring molten lead-containing metal to a
88	mold.
89	
90	"Dross" means solid impurities removed from molten lead in lead kettles.
91	-
92	"Dryer" means a chamber that is heated and that is used to remove moisture from
93	lead-bearing materials other than lead shot.
94	
95	"Existing lead emission unit" means a lead emission unit in existence before
96	January 1, 2015 at a nonferrous metal production facility.
97	
98	"Housekeeping activities" means regular cleaning or maintenance activities
99	conducted to reduce fugitive emissions from production areas.
100	-
101	"Induction furnace" means an electrical furnace used for heating metal by
102	electromagnetic induction.
103	
104	"Lead" means elemental lead or alloys in which the predominant component is
105	lead (i.e., lead being more prevalent than any other single component).
106	
107	"Lead-bearing scrap" or "lead-containing material" or "lead-containing metal" or
108	"lead-containing wastes" or "lead particulate" means scrap or material or metal or
109	wastes or particulate with a lead content equal to or greater than 5 mg/l as
110	measured by EPA Method 1311, incorporated by reference in Section 226.120.
111	
112	"Lead emission unit" means any process that emits lead, including, but not limited
113	to, battery breaking areas; material handling areas; dryers and dryer areas; channel
114	furnaces and channel furnace areas; coreless furnaces and coreless furnace areas;
115	reverberatory furnaces and reverberatory furnace areas; rotary furnaces and rotary
116	furnace areas; agglomerating furnaces and agglomerating furnace areas; kettles
117	and casting areas; lead taps, slag taps, and molds during tapping; and areas where
118	dust from fabric filters, sweepings, or used fabric filters are processed.
119	
120	"Lead kettle" means a vessel that is heated from below and is used for the purpose
121	of melting refined lead.
122	
123	"Lead tap" means the pouring hole though which molten lead flows from a kettle
124	or furnace.
125	
126	"Leak detection system" means an instrument that is capable of monitoring
127	relative particulate matter (dust) loadings in the exhaust of a particulate control in
128	order to detect leaks in the particulate control. A leak detection system includes,

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129 130	but is not limited to, an instrument that operates on triboelectric, light scattering, transmittance, or other effect to monitor relative particulate matter loadings.
131	
132	"Materials handling area" means any area in which lead-containing materials
133	(including, but not limited to, broken battery components, flue dust, and dross) are
134	handled in between process steps. These areas may include, but are not limited to.
135	areas in which lead-bearing scrap, lead-containing materials, lead-containing
136	metal, or lead-containing wastes are prepared.
137	
138	"Materials storage area" means any area in which lead-containing materials
139	(including, but not limited to, broken battery components, flue dust, and dross) are
140	stored in between process steps. These areas may include but are not limited to
141	areas in which lead-bearing scrap, lead-containing materials, lead-containing
142	metal, or lead-containing wastes are stored in open piles, bins, or tubs
143	
144	"Mold cooling" means the process of cooling a mold containing hot metal by
145	direct contact of the mold, but not the hot metal itself with cooling water or other
146	liquids.
147	
148	"Natural draft opening" means any permanent opening including doors and
149	windows, in a total enclosure that remains open during operation of the lead
150	emissions unit in the enclosure or enclosures and is not connected to a duct in
151	which a fan is installed
152	
153	"New lead emission unit" means a lead emission unit constructed on or after
154	January 1, 2015, at a nonferrous metal production facility
155	e analy 1, 2010, at a nomenous metal production facility.
156	"Nonferrous metal" means a metal that is not an iron or steel alloy: these metals
157	may include alloys of aluminum, copper lead, and zinc
158	
159	"Nonferrous metal production facility" means any source that is alloying refining
160	or casting nonferrous metal or manufacturing nonferrous metal products and
161	where the source includes lead in their alloys or products by design
162	and so are so are merados read in aren anoys or products by design.
163	"Production area" means an indoor space at a ponferrous metal production facility
164	where lead emission units are operated
165	and four official and a operation.
166	"Ouenching" means the process of cooling hot metal other than lead shot by direct
167	contact of the metal with cooling water or other liquids
168	······································
169	"Refined lead" means a material composed of lead alloys of a specified
170	composition from an onsite or offsite lead refining operation
171	

172 173	"Refining" means the process of removing impurities or oxides from a metal or metal alloy.
174	
175	"Reverberatory furnace" means a refractory-lined furnace that uses one or more
176	flames to heat the walls and roof of the furnace and lead-bearing scrap to such a
177	temperature that lead compounds are chemically reduced to elemental lead metal.
178	
179	"Rotary furnace" (also known as a rotary reverberatory furnace) means a furnace
180	consisting of a refractory-lined chamber that rotates about a horizontal axis and
181	that uses one or more flames to heat the walls of the furnace and lead-bearing
182	scrap to such a temperature that lead compounds are chemically reduced to
183	elemental lead metal.
184	
185	"Section Manager" means the Manager of Illinois EPA's Bureau of Air,
186	Compliance Section.
187	
188	"Slag tap" means the pouring hole through which slag is removed from a kettle or
189	furnace.
190	
191	"Tap" means the pouring hole through which molten metal flows from a kettle or
192	furnace.
193	
194	"Tapping" means opening the tap.
195	
196	"Total enclosure" means a complete enclosure with walls and a roof designed to
197	minimize exposure to the elements and to maximize containment of emissions
198	from one or more lead emission units and that meets the following performance
199	standards: the average facial velocity of air flowing into the enclosure through all
200	natural draft openings during operation of lead emission units in each total
201	enclosure in any one hour period must be at least 200 fpm (3,600 m/hr) or
202	average negative pressure value of 0.007 inches of water (0.013 mm Hg) must be
203	maintained inside the enclosure over any one hour period.
204	
205	"Valid test run" means a completed test run conducted in accordance with a
206	testing protocol submitted to the Illinois EPA, as required under Section
207	226.175(f).
208	
209	Section 226.120 Incorporations by Reference
210	π
211	The following materials are incorporated by reference. These incorporations do not include any
212	later amendments or editions.

213

214 215	a)	75 FR 71033-01, Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards (Monday, November 22, 2010).
216		
217 218	b)	76 FR 72097-01, Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards (Tuesday, November 22, 2011).
219		
220	c)	40 CFR 60, appendix A, Method 29 (2012).
221		
222	d)	40 CFR 60, appendix A, Methods 1, 1A (2012).
223		
224	e)	40 CFR 60, appendix A, Methods 2, 2A, 2C, and 2D (2012).
225		
226	f)	40 CFR 60, appendix A, Methods 3, 3A (2012).
227		
228	g)	40 CFR 60, appendix A, Method 4 (2012).
229		
230	h)	40 CFR 60, appendix A, Method 12 (2012).
231		
232	i)	USEPA's Emission Measurement Center Guideline Document (GD-042),
233		Preparation and Review of Site-Specific Emission Test Plans, Revised March
234		1999.
235		
236	j)	40 CFR 260.11(c)(3)(v) and 261, Method 1311 (2012).
237	1 \	
238	k)	OSHA. The following method from the Occupational Safety & Health
239		Administration, Methods Development Team, Industrial Hygiene Chemistry
240		Division, OSHA Salt Lake Technical Center, Sandy UT 84070-6406, (801) 233-
241		4900: OSHA Method 1006 (approved January 2005).
242	G (* 006)	
243	Section 226.	125 Applicability
244	The massicies	en a fathia Daut angles to all man formana an atal and the stick for ilitical parts d in the
245	following one	is of this Part apply to all nonierrous metal production facilities located in the
240	Ouglity Store	as in filinois designated nonattainment for the 2008 lead National Ambient Air
247	Quanty Stand	ards by USERA.
240	2)	Part of Madison County, apositically the area hounded by Granite City Toynahin
249	a)	and Vanice Township 75 EP 71022 01 (Nevember 22, 2010); and
250		and venice rownship, 75 FK /1055-01 (November 22, 2010), and
251	b)	Part of Cook County, specifically, the area bounded by Domen Avenue on the
252	0)	west Roosevelt Road on the north the Dan Ryan Evpressively on the east and the
255		Stevenson Expressway on the south 76 FR 72007-01 (November 22, 2011)
255		Suversion Expressivaly on the south, 70 FR 72077-01 (November 22, 2011).
256	Section 226	130 Compliance Date
200	Svenon ##U.	co compliante pute

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257		
258	a)	For an existing lead emission unit that is subject to this Part, compliance with
259	,	these requirements by an owner or operator of the unit is required by no later than
260		January 1, 2015
261		<i>Canada</i> y 1, 2010.
262	b)	For a new lead emission unit that is subject to this Part, compliance with these
263	0)	requirements by an owner or operator of the unit is required by the date on which
263		the unit initially begins operation
265		the unit initially begins operation.
265	Section 226 1	10 Load Emission Standards
200	Section 220.1	40 Leau Emission Stanuarus
207	2)	For all allowing and refining battles leasted at a survey of his (1, 1), D. ((
208	a)	For an anoying and remning kettles located at a source subject to this Part (see
209		Section 220.125), each lead emission unit must be:
270		1) Environment $(1,1,1)$ $(1,1,1)$ $(1,1,1)$ $(1,1,1)$
271		1) Equipped with a capture system (including covers, hoods, ducts, and fans)
272		that is vented to a control device for lead particulates. The emissions of
273		lead into the atmosphere from each control device must not exceed 0.0010
274		gr/dscf; and
275		
276		2) Operated in a total enclosure pursuant to Section 226.155. The entire gas
277		stream collected by each total enclosure must only be ducted to a control
278		device such that the emissions of lead into the atmosphere from each
279		control device must not exceed 0.00010 gr/dscf.
280		
281	b)	For reverberatory furnaces or rotary furnaces located at a source subject to this
282		Part (see Section 226.125), each lead emission unit must be:
283		
284		1) Equipped with a capture system (including hoods, ducts, and fans) that is
285		vented to a control device for lead particulates. The emissions of lead into
286		the atmosphere from each control device must not exceed 0.00010 gr/dscf;
287		and
288		
289		2) Operated in a total enclosure pursuant to Section 226.155. The entire gas
290		stream collected by each total enclosure must only be ducted to a control
291		device such that the emissions of lead into the atmosphere from each
292		control device must not exceed 0.00010 gr/dscf.
293		Ũ
294	c)	Notwithstanding the provisions for total enclosure in subsections (a) and (b), any
295	/	emissions of lead exiting an uncontrolled stack during quenching or mold cooling
296		operations must not exceed 0.00010 gr/dscf. Quenching operations shall be
297		limited to no more than 6 hours per associated unit in any 24 hour period
298		

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299 d) For induction furnaces located at a source subject to this Part (see Section 300 226.125), each lead emission unit must be equipped with a capture system 301 (including hoods, ducts, and fans) that is vented to a control device for lead 302 particulates. The emissions of lead into the atmosphere from each control device 303 must not exceed 0.000010 gr/dscf. 304 305 e) For all other furnaces, lead kettles, or any other operation subject to this Part (see 306 Section 226.125), but not subject to subsection (a), (b), or (d), each lead emission unit must be equipped with a capture system (including ducts, fans, and hoods or 307 308 covers) that is vented to a control device for lead particulates. The emissions of 309 lead into the atmosphere from each control device must not exceed 0.00010 310 gr/dscf. 311 312 f) Any source subject to the requirements of this Part (see Section 226.125) must 313 operate pursuant to a lifetime operating permit, a federally enforceable State 314 operating permit, a Clean Air Act Permit Program permit, or conditions within a 315 construction permit. 316 317 Section 226.150 Operational Monitoring for Control Device 318 319 a) The owner or operator of a lead emission unit subject to this Part must install, 320 maintain, and operate parametric monitoring equipment that consists of a pressure 321 differential system to measure the pressure drop across each control device required by Section 226.140. Data from this instrumentation must be recorded as 322 323 follows: 324 325 1) Data must be automatically recorded every minute during operation of any 326 lead emission unit subject to Section 226.140(a) or (b). 327 328 2) Data must be recorded at least once every 8 hours during operation of any 329 lead emission unit subject to Section 226.140(d) or (e). 330 331 If the control device used to control lead emission units subject to Section 3) 332 226.140(a) or (b) is the same as the control device used to control other 333 lead emission units subject to Section 226.140(d) or (e), the requirements 334 in subsection (a)(1) apply to the control device. 335 336 b) The owner or operator of a lead emission unit subject to this Part and using a 337 baghouse or other filter system to control units subject to the total enclosure 338 requirements of Section 226.155 must install, maintain, and operate parametric 339 monitoring equipment that consists of a leak detection system. The leak detection 340 system must be installed at the outlet of the baghouse or other filter system. 341

- The owner or operator of a lead emission unit subject to this Part must develop c) and maintain a Control Device Monitoring Plan. The CDMP must be submitted for review and approval to the Illinois EPA, directed to the Manager of the Bureau of Air's Compliance Section by the compliance date specified in Section 226.130 and within 30 days after any changes are made to the plan. The CDMP must be amended by the owner or operator of a lead emission unit subject to this Part as necessary to ensure that it is kept current.
 - d) The CDMP must include procedures to investigate and determine the cause of changes in pressure that could indicate a leak or other problem and, if applicable, every alarm from the leak detection system. The procedures must also include a means to determine appropriate corrective actions and preventative measures to address the pressure changes and to avoid future alarms. The owner or operator of a lead emission unit subject to this Part must operate and maintain each pressure differential system and each leak detection system according to the CDMP at all times.

359 Section 226.155 Total Enclosure 360

- a) An owner or operator of a lead emission unit subject to this Part must install, maintain, and operate one or more total enclosures to minimize fugitive emissions from the operations listed in subsections (a)(1) through (6) at all times that the applicable lead emission unit in the total enclosure is operating or housekeeping activities are being performed. The total enclosure must meet the requirements specified in subsections (b) through (e).
 - 1) Battery breaking areas.
 - 2) Dryer and dryer areas, including transition pieces, charging hoppers, chutes, and skip hoists conveying any lead-containing material.
 - 3) Reverberatory furnaces or rotary furnaces charging any lead-containing material and the associated reverberatory furnace areas or rotary furnace areas, including any associated lead taps, slag taps, and molds during processing.
- 4) Alloying and refining kettles and associated areas, including any associated lead taps, slag taps, and molds during processing.
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385		6)	Mater	ial handling areas for any lead-containing materials, except that the
386			follow	ving areas are exempt from the total enclosure requirements unless
387			the are	eas listed also contain operations listed in subsections (a)(1) through
388			(5):	
389				
390			A)	Those areas where refined lead is melted and cast;
391			,	
392			B)	Those areas where spent refractory brick is stored in closed
393			,	containers prior to and after crushing;
394				
395			C)	Those areas where ladle repairs take place: or
396			/	
397			D)	Those areas where lead-bearing scrap is sorted and handled, if the
398			_ /	area is enclosed and equipped with a capture system ducted to a
399				control device subject to the requirements of Section $226.140(e)$
400				during all sorting and handling activities and if the scrap is stored
401				in closed containers at all other times.
402				
403	b)	An ow	ner or o	operator of a lead emission unit subject to this Part must duct the gas
404	0)	stream	collect	ted by each total enclosure to a control device that meets the
405		annlica	able rec	nuirements of Section 226 140
406		uppnee		
407	c)	The to	tal encl	losure must be maintained and onerated with an inward flow of air
408	c)	throug	h all na	atural draft openings while the lead emission unit applicable to the
409		operati	on list	ed in subsection (a) in the total enclosure is operating. The average
410		facial y	velocity	v of air flowing into the enclosure through all natural draft openings
411		during	operat	ion of lead emission units in each total enclosure in any one hour
412		neriod	must h	be at least 200 fpm (3 600 m/hr) or average negative pressure value
413		of 0.00)7 inch	es of water (0.013 mm Hg) must be maintained inside the enclosure
414		over at	v one	hour period
415		over a	ily one	nour period.
416	d)	The to:	tal encl	losure required by subsection (a) must be maintained at any opening
417	u)	includi	ing hu	t not limited to vents windows passages doorways hav doors and
418		roll-up	s while	e lead emission units in the total enclosure or enclosures are
410		operati	ng ev	cept as needed for temporary access to conduct manufacturing
420		operati	ing, ca	a during load-in and load-out of materials or passage of personnel
421		orequi	inment)
421		or equi	pinem).
422	وا	The to	tal encl	logure must be free of cracks gaps corregion or other deterioration
423	6)	that an	uld on	use or result in dust being emitted to the stmosphere through those
425		openin	are avo	use of result in dust being ennited to the atmosphere unough those went that the total area of all natural draft openings must not avoid 5
425		nercen	t of the	surface area of the total enclosure's walls floor, and calling
427		percen		surrace area of the total enclosure's walls, hoor, and centing.
741				

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428 Section 226.160 Operational Measurement for Total Enclosure 429

- a) An owner or operator of a lead emission unit subject to the total enclosure
 requirement of Section 226.155 must measure the total area of all natural draft
 openings and the total surface area of the total enclosure.
- b) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 must measure the facial velocity of air flowing through all natural draft openings using the following equation while any lead emission unit applicable to the operation listed in Section 226.155(a) is operating. Values for Q_0 and Q_1 must be obtained by means of testing pursuant to subsection (b)(1) or monitoring pursuant to subsection (b)(2):

$$FV = \frac{Q_0 - Q_I}{A_n}$$

443 Where:

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- Q_0 = the sum of volumetric flow from all gas streams exiting the total enclosure through the control device.
- Q_I = the sum of the volumetric flow from all gas streams into the total enclosure through a forced makeup air duct; zero if there is no forced makeup air into the total enclosure.

$$A_n$$
 = total area of all natural draft openings in the total enclosure.

- 4461)An owner or operator of a lead emission unit subject to the total enclosure447requirement of Section 226.155 must conduct testing to determine the448values for Q_0 and Q_1 at the same time as any emissions testing is449conducted pursuant to Section 226.175; or450450
 - 2) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 must install, maintain, and operate a flow monitor at the outlet of each control device required by Section 226.140 to measure the volumetric flow from all gas streams exiting the total enclosure through the control device (or the final control device emitting to the atmosphere if the source has more than one control device in series). This volumetric flow data must be monitored and automatically recorded every minute.
- 460 c) As an alternative to compliance with the requirements of subsection (b), an owner
 461 or operator of a lead emission unit subject to the total enclosure requirement of
 462 Section 226.155 must install, operate, and maintain instrumentation to monitor the

463	press	ure differ	rential between the interior and exterior of the enclosure, measured		
464	in inc	hes of w	ater, to demonstrate compliance with the differential pressure		
465	requi	rements i	in Section 226.155(c). This instrumentation must be located and		
466	designed to operate in accordance with all of the requirements of subsections				
467	(c)(1)	through	n (6) of this Section:		
468		U			
469	1)	An ow	oner or operator of a total enclosure that has a total ground surface		
470		area of	f 10,000 square feet or more must install and maintain a minimum of		
471		one bu	ailding digital differential pressure monitoring system at each of the		
472		follow	ving 3 walls in each total enclosure:		
473					
474		A)	The leeward wall.		
475		/			
476		B)	The windward wall.		
477		/			
478		C)	An exterior wall that connects the leeward and windward wall at a		
479		_/	location defined by the intersection of a perpendicular line between		
480			a point on the connecting wall and a point on its furthest opposite		
481			exterior wall, and intersecting within plus or minus 10 meters of		
482			the midpoint of a straight line between the 2 other monitors		
483			specified. The midpoint monitor must not be located on the same		
484			wall as either of the other 2 monitors.		
485					
486	2)	An ow	wher or operator of a total enclosure that has a total ground surface		
487	_)	area o	f less than 10,000 square feet must install and maintain a minimum		
488		of one	building digital differential pressure monitoring system at the		
489		leewar	rd wall of each total enclosure		
490		ieewai			
491	3)	Each d	ligital differential pressure monitoring system must be certified by		
492	5)	the ma	anufacturer to be capable of measuring and displaying negative		
493		pressu	re in the range of 0.001 to 0.11 inches of water (0.002 to 0.2 mm		
494		Hø) w	with a minimum accuracy of plus or minus 0 001 inches of water		
495		(0.002)	mm Hg)		
496		(0.002			
497	4)	Each d	ligital differential pressure monitoring system must be equipped		
498	•)	with a	continuous recorder.		
499					
500	5)	Each d	digital differential pressure monitoring system must be calibrated in		
501	2)	accord	lance with manufacturer's specifications at least once every 12		
502		calend	lar months or more frequently if recommended by the manufacturer		
503					

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- 6) Each digital differential pressure monitoring system must be equipped with a backup, uninterruptible power supply to ensure continuous operation of the monitoring system during a power outage.
- An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 must develop and maintain a Continuous Parametric Monitoring Plan containing the information required in subsection (d)(1), (2), or (3). The CPMP must be submitted for review and approval to the Section Manager by the compliance date specified in Section 226.130 and within 30 days after any changes are made to the plan. The CPMP must be amended by the owner or operator of a lead emission unit subject to this Part as necessary to ensure that it is kept current. The owner or operator of a lead emission unit subject to this Part all times.
 - If electing to comply with the facial velocity requirement in Section 226.155(c) using the total enclosure measurement method in subsection (b)(1), the CPMP must contain the information required by subsections (d)(1)(A) through (D).
 - A) The CPMP must identify the operating parameters to be monitored on an ongoing basis to ensure that the facial velocity measured during the most recent compliance test is maintained, explain why those parameters are appropriate for demonstrating ongoing compliance, and identify the specific monitoring procedures for each parameter.
 - B) The CPMP must specify limits or ranges of values of the operating parameters listed pursuant to subsection (d)(1)(A) that demonstrate compliance with the facial velocity requirements in Section 226.155(c). These limits or ranges must represent the conditions indicative of proper operation and maintenance of the facial velocity through all natural draft openings during operation of lead emission units in each total enclosure.
 - C) The CPMP must specify data to be recorded to demonstrate compliance with the facial velocity requirements in Section 226.155(c), as well as the recording frequency and methodology.
 - D) The CPMP must specify the information to be reported to the Illinois EPA to demonstrate compliance with the facial velocity requirements in Section 226.155(c). This information must include, but is not limited to, all information to be submitted as part of the

			JCAR350226-1319490r01
547			semiannual reports required by Section 226.185(n), as well as the
548			reporting frequency.
549			
550	2)	If elec	ting to comply with the facial velocity requirement in Section
551	,	226.15	55(c) using the total enclosure monitoring method in subsection
552		(b)(2),	the CPMP must contain the information required by subsections
553		(d)(2)(d)(2)(d)	(A) through (C).
554			
555		A)	The CPMP must specify limits or ranges of values of the sum of
556			volumetric flow from all gas streams exiting the total enclosure
557			through the control device and the sum of the volumetric flow
558			from all gas streams into the total enclosure through a forced
559			makeup air duct. These limits or ranges must represent the
560			conditions indicative of proper operation and maintenance of the
561			facial velocity through all natural draft openings during operation
562			of lead emission units in each total enclosure.
563			
564		B)	The CPMP must specify data to be recorded to demonstrate
565			compliance with the facial velocity requirements in Section
566			226.155(c), as well as the recording frequency and methodology.
567			
568		C)	The CPMP must specify the information to be reported to the
569			Illinois EPA to demonstrate compliance with the facial velocity
570			requirements in Section 226.155(c). This information must include,
571			but is not limited to, all information to be submitted as part of the
572			semiannual reports required by Section 226.185(n), as well as the
573			reporting frequency.
574	-		
575	3)	If elec	ting to comply with the average differential pressure requirement in
576		Sectio	n 226.155(c) using the total enclosure measurement method in
577		subsec	tion (c), the CPMP must contain the information required by
578		subsec	(d)(3)(A) through (C).
579			
580		A)	The CPMP must identify the locations and design of each
581			differential pressure monitoring instrumentation demonstrating
582			compliance with the requirements of subsection (c) to ensure that
583 594			the average differential pressure is measured properly, explain why
584 585			those locations are appropriate for demonstrating ongoing
303 596			compliance, and provide a schedule for instrumentation
500 507			calloration.
500		D)	
500		в)	The CPMP must specify data to be recorded to demonstrate
207			compliance with the average differential pressure requirements in

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590		Section 226.155(c), as well as the recording frequency and
591		methodology.
592		
593		C) The CPMP must specify the information to be reported to the
594		Illinois EPA to demonstrate compliance with the average
595		differential pressure requirements in Section 226.155(c). This
596		information must include, but is not limited to, all information to
597		be submitted as part of the semiannual reports required by Section
598		226.185(n), as well as the reporting frequency.
599		
600	e)	The owner or operator of a lead emission unit subject to this Part electing to
601	,	change the total enclosure measurement method for an existing lead emission unit
602		subject to the total enclosure requirements of Section 226.155 must notify the
603		Section Manager of the measurement method by which the owner or operator will
604		comply with the requirements of this Section. The notification must include an
605		updated CPMP complying with the appropriate requirements for the new
606		measurement method and must occur at least 30 days prior to changing the
607		method.
608		
609	Section 226.1	165 Inspection
610		•
611	a)	An owner or operator of a lead emission unit subject to this Part must inspect
612		control devices for the control of lead particulate at least once per month. The
613		inspections of control devices must include all structures that comprise the
614		infrastructure of the affected control device and other structures that are necessary
615		for the affected control device to function in its intended capacity.
616		
617	b)	An owner or operator of a lead emission unit subject to this Part must inspect all
618		total enclosures for proper operation and physical integrity at least once per
619		month.
620		
621	c)	An owner or operator of a lead emission unit subject to this Part must maintain
622		and repair any control device and total enclosure, including all structures that
623		comprise the infrastructure of the affected control device and total enclosure, as
624		necessary to ensure proper and compliant operation.
625		
626	Section 226.	170 Lead Fugitive Dust Operating Program
627		
628	a)	An owner or operator of a lead emission unit subject to this Part must operate at
629		all times according to a lead fugitive dust operating program that describes in
630		detail the measures that are implemented to minimize lead fugitive dust emissions
631		from the areas, activities, or events listed in subsections (a)(1) through (7):
632		

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633		1)	Source roadways;
634		•	~
635		2)	Source buildings housing lead emission units;
636		•	
637		3)	Battery storage areas;
638			
639		4)	Equipment maintenance for equipment used in connection with the
640			processing or handling of lead-containing materials;
641		-	
642		5)	Material storage and material handling areas for lead-containing materials,
643			excluding areas where only finished products are stored or handled;
644			
645		6)	Spillage of lead-containing material; and
646		_`	
647		7)	Sorting or handling of lead-bearing scrap subject to Section
648			226.155(a)(6)(D).
649			
650	b)	An ow	ner or operator of a lead emission unit subject to this Part must develop and
651		mainta	in a lead fugitive dust operating program. The lead fugitive dust operating
652		progra	m must be submitted for review and approval to the Section Manager by
653		the co	mpliance date specified in Section 226.130 and within 30 days after any
654		change	es are made to the program. The lead fugitive dust operating program must
655		be ame	ended by the owner or operator of a lead emission unit subject to this Part as
656		necess	ary to ensure that it is kept current. The owner or operator of a lead
657		emissi	on unit subject to this Part must operate according to the lead fugitive dust
658		operat	ing program at all times.
659			
660	c)	The m	easures specified in the lead fugitive dust operating program must, at a
661		minim	um, include the requirements specified in subsections $(c)(1)$ through (8).
662			
663		1)	The lead fugitive dust operating program must meet all requirements of 35
664			Ill. Adm. Code 212.Subpart K.
665			
666		2)	Cleanings must be performed by wet wash or by a vacuum cleaner
667			equipped with a filter rated by the manufacturer to achieve at least 99.97
668			percent capture efficiency for 0.3 micron particles in a manner that does
669			not generate fugitive dust. When performing cleanings by wet wash, a wet
670			sweeper must employ a water flush followed by sweeping. Cleanings
671			must be performed at the following frequencies:
672			
673			A) Cleanings must be performed at least once every 24 hour period
674			that a lead emission unit in an associated production area is
675			operating and immediately before termination of negative pressure

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676 677 678			in any total enclosure required by Section 226.155 for all production areas.
679		B)	Cleanings of scrap sorting and handling areas subject to Section
680		_)	226.155(a)(b)(D) must be performed directly after sorting or
681			handling is completed and before shutdown of the required capture
682			and control equipment.
683			
684		C)	Cleanings must be performed at least once every 7 calendar days
685		-)	for all areas where lead-containing wastes generated from
686			housekeeping activities are stored, disposed of, recovered, or
687			recycled.
688			
689		D)	Cleanings of all areas must be performed no later than one hour
690		-)	after detection of any accidental release of dust containing lead.
691			
692	3)	All are	as within the property boundaries subject to vehicle traffic must be
693	- /	paved	and must be cleaned at least once every 7 calendar days to remove
694		dust or	other accumulated material from payed areas within the property
695		bounda	aries. The cleaning must be performed using a vacuum truck with a
696		filter ra	ated by the manufacturer to achieve at least 99.97 percent capture
697		efficier	ncv for 0.3 micron particles, or a wet sweeper, or a combination
698		thereof	E. Limited access and limited use roadways such as unpaved roads
699		to remo	ote locations on the property are exempt from this requirement if
700		they ar	e used infrequently (no more than one round trip per day).
701		2	
702	4)	Broker	batteries must only be stored in a total enclosure. Any battery
703	,	storage	e areas that are not located in a total enclosure must be inspected at
704		least of	nce every 7 calendar days. Within 72 hours after identification, any
705		broken	batteries must be moved to a total enclosure and all residue from
706		broken	batteries must be collected and the area must be cleaned.
707			
708	5)	All ma	intenance activities that could generate dust containing lead must be
709	,	perform	ned in a manner that minimizes emissions of dust, including, but
710		not lim	nited to, the use of a vacuum cleaner equipped with a filter rated by
711		the ma	nufacturer to achieve at least 99.97 percent capture efficiency for
712		0.3 mi	cron particles or the use of wet suppression sufficient to prevent
713		dust fo	rmation.
714			
715	6)	All col	lected dross and dust must be stored and transported within closed
716	-	convey	or and storage systems or in closed, leak-proof containers. All
717		other le	ead-containing material must be contained and covered for transport
718		outside	e of a total enclosure in a manner that minimizes spillage or dust

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719		fc	ormation. The transport outside of a total enclosure of scrap metal, spent
720		re	tractory brick, ladles, and finished product must be addressed in the lead
721		ħ	igitive dust operating program so as to minimize the spillage of lead-
722		C	ontaining material or the formation of dust.
723			
724		7) R	eplacement of control equipment filter bags must be conducted in the
725		n	anner specified in this subsection (c)(7). All vacuuming referenced in
726		tł	is subsection (c)(7) must be performed by a vacuum cleaner equipped
727		W	with a filter rated by the manufacturer to achieve at least 99.97 percent
728		C	apture efficiency for 0.3 micron particles:
729			
730		А	.) Used filter bags must be rolled-up and placed into sealed plastic
731			bags or barrels prior to removal from the filter unit;
732			
733		В) The filter unit floors, the dirty and clean plenum side, must be
734			vacuumed of dust residues immediately following removal
735			activity;
736			
737		C	The ground surface in and around the filter unit must be vacuumed
738			immediately following the complete installation of new filter bags
739			to remove any and all dust residue; and
740			•
741		D) In those instances in which filter bag replacement requires more
742			than one operational day, the requirements of subsection $(c)(7)(C)$
743			must be completed just prior to the end of each operational day.
744			
745		8) N	leasures, including, but not limited to, those specified in subsections
746		, ((c)(1) through (7) must be implemented to minimize the tracking of dust
747		Ċ	ontaining lead out of the total enclosure by personnel or by equipment
748		u	sed in handling the material.
749			
750	d)	All grou	nds on any source subject to this Part must be payed or oiled, or have
751	,	sufficien	t groundcover planted, to minimize the amount of wind-blown dust
752		leaving t	he property.
753			
754	e)	The appl	icability of this Part to the owner or operator of a lead emission unit does
755	-)	not exem	int the owner or operator from compliance with the applicable
756		requirem	ents in 35 Ill. Adm. Code 212.
757			
758	Section 226.1	75 Emiss	sions Testing
759			

- a) For an existing lead emission unit that is subject to this Part, testing of lead
 required by Section 226.140 must be conducted by January 1, 2015.
 - b) Retesting

- 1) The owner or operator of an existing lead emission unit that is subject to this Part and that performed all testing necessary to demonstrate compliance with Section 226.140 prior to January 1, 2015 is not required to retest pursuant to subsection (a) if:
 - A) On or after January 1, 2011, the owner or operator of an existing lead emission unit that is subject to this Part performed all testing necessary to demonstrate compliance with Section 226.140;
 - B) The owner or operator submitted the results of the tests to the Illinois EPA, and the tests were not rejected by the Illinois EPA;
 - C) The same capture system and control device or devices tested under subsection (b)(1)(A) are still being used by the subject lead emission unit; and
 - D) The owner or operator complies with all recordkeeping and reporting requirements in Section 226.185(i).
 - 2) Nothing in this subsection (b), however, shall limit the ability of the Illinois EPA or the USEPA to require that the owner or operator perform testing pursuant to subsection (e).
- c) For a new lead emission unit that is subject to this Part, testing of lead emissions at control devices required by Section 226.140 must be conducted within 60 days after achieving maximum operating rate, but no later than 180 days after initial startup of the new lead emission unit in accordance with this Section.
- d) The owner or operator of a lead emission unit subject to this Part must have subsequent emissions tests conducted at least once every 5 years. The owner or operator of a lead emission unit that tested prior to January 1, 2015, in accordance with subsection (b) must use the original test date as the beginning of this 5-year period.
- 800e)When, as determined by the Illinois EPA or USEPA, it is necessary to conduct801testing to demonstrate compliance with Section 226.140, the owner or operator of802a lead emission unit subject to this Part must, at his or her own expense, have the

803 test conducted in accordance with the applicable test methods and procedures 804 specified in this Section within 90 days after receipt of a notice to test from the 805 Illinois EPA or USEPA, unless that notice specifies an alternative testing 806 deadline. 807 808 f) The owner or operator of a lead emission unit subject to the emissions testing 809 requirements of this Section must conduct all that tests for lead pursuant to subsections (g) through (m). **8**10 811 812 g) The owner or operator of a lead emission unit required to test pursuant to subsection (a), (c), (d), or (e) must submit a testing protocol as described in 813 USEPA's Emission Measurement Center Guideline Document (GD-042) to the 814 815 Illinois EPA, directed to the Manager of the Bureau of Air's Compliance Section, ÷, 816 at least 45 days prior to a scheduled emissions test. Upon written request directed 817 to the Section Manager, the Illinois EPA may, in its sole discretion, waive the 45day requirement. A waiver is only effective if it is provided in writing by the 818 819 Section Manager or his or her designee. 820 821 h) Notification of a scheduled emissions test must be submitted to the Illinois EPA 822 in writing, directed to the Section Manager, at least 30 days prior to the expected 823 date of the emissions test and, again, 5 days prior to the testing. Upon written 824 request directed to the Section Manager, the Illinois EPA may, in its sole discretion, waive the 30-day requirement or the 5-day requirement. A waiver is 825 826 only effective if it is provided in writing by the Section Manager or his or her 827 designee. 828 829 i) If, after the 30-days' notice for an initially scheduled test is sent, there is a delay 830 (e.g., due to operational problems) in conducting the test as scheduled, the owner or operator of the lead emission unit must notify the Compliance Section as soon 831 832 as practicable of the delay in the original test date, either by providing at least 7 days' notice of the rescheduled date of the test or by arranging a new test date 833 834 with the Illinois EPA by mutual agreement. 835 836 j) Not later than 60 days after the completion of the test, the owner or operator of a lead emission unit required to test pursuant to subsection (a), (c), (d), or (e) must 837 838 submit the results of the test to the Illinois EPA, directed to the Section Manager. 839 840 k) The owner or operator of a lead emission unit subject to the emissions testing 841 requirements of this Section must conduct tests for lead emissions using 40 CFR 842 60, subpart A, and appendix A, Methods 1 (1 or 1A), 2 (2, 2A, 2C, or 2D), 3 (3 or 843 3A), and 4, and Method 12 or 29, as incorporated by reference in Section 844 226.120, or other alternative USEPA methods approved by the Illinois EPA. 845

846 847	l)	Each	emissions test must be in accordance with all of the following requirements:
84/		1)	Mathed 12 and 20 most have a date date mains a second in a social the land
848		1)	Wethod 12 or 29 must be used to determine compliance with the lead
849			emission standard in Section 226.140;
850		\mathbf{O}	
851		2)	The minimum sample volume must be 0.85 dry standard cubic meters (30
852			dry standard cubic feet);
853		•	
854		3)	The minimum sampling time must be 60 minutes for each run. Consistent
855			with the averaging and compliance requirements of this subsection (1), at
856			least 3 runs must be performed and the arithmetic average of 3 valid runs
857			must be used to determine compliance;
858			
859		4)	The following procedure must be used to average emissions of tests results
860			for any compliance determination:
861			
862			A) The average of the emissions test results must be determined by
863			the arithmetic average of 3 valid test run results, as long as the test
864			runs are conducted in conformance with the provisions of an
865			approved testing protocol as required by subsection (g).
866			
867			B) Notwithstanding subsection $(1)(4)(A)$, if the owner or operator of a
868			lead emission unit elects to perform more than 3 test runs, then the
869			average must be calculated based upon the results of all valid test
870			runs.
87 1			
872			C) Notwithstanding subsection $(1)(4)(A)$, in the event that a sample is
873			accidentally lost or conditions occur in which one of the test runs
874			must be discontinued because of forced shutdown, failure of an
875			irreplaceable portion of the sample train, extreme meteorological
876			conditions, malfunction, or other dissimilar or non-representative
877			circumstances, upon the owner's or operator's documentation of the
878			existence of any of the circumstances set forth in this subsection
879			(l)(4)(C) and verification by the Section Manager or his designee
880			that the conditions existed, compliance may be determined by
881			using the arithmetic average of the test results of all remaining
882			valid test runs; however, a minimum of 2 valid test runs is required
883			to determine compliance;
884			A <i>'</i>
885		5)	Each test for lead emissions must be conducted during conditions
886		,	representative of maximum lead emissions; and
887			-

888		6)	If an owner or operator of a lead emission unit does not meet the criteria
889			for averaging of subsection (1)(4), then each individual valid test run must
890			meet the applicable limitation in order to demonstrate compliance.
891			
892	m)	The c	owner or operator of any lead emission unit for which emissions are vented
893		from	an uncontrolled stack to the atmosphere must test those emissions in
894		accor	dance with the requirements of this Section or calculate the emissions by
895		mean	s of collecting area time-weighted average lead samples and analyzing those
896		samp	les through the use of OSHA Method 1006. If an owner or operator of a
897		lead e	emission unit subject to this Part elects to calculate lead emissions from an
898		uncor	ntrolled stack, the calculations must be completed at least once every 5 years.
899			
900	Section 226.1	185 Re	cordkeeping and Reporting
901			
902	a)	An ov	wner or operator of a lead emission unit subject to this Part must keep and
903		maint	tain all records used to demonstrate initial compliance and ongoing
904		comp	liance with the requirements of this Part.
905			
906		1)	Except as otherwise provided under this Part, copies of the records must
907			be submitted by the owner or operator of the source to the Illinois EPA
908			within 30 days after receipt of a written request by the Illinois EPA.
909			
910		2)	The owner or operator must keep and maintain all records required by this
911			Section at the source for at least 5 years from the date the document is
912			created and must make all records available to the Illinois EPA for
913			inspection and copying upon request.
914			
915	b)	Notif	ication of the initial startup of any new lead emission unit subject to this Part
916		must	be submitted to the Section Manager no later than 30 days after initial
917		startu	p.
918			
919	c)	The o	wner or operator of a lead emission unit subject to this Part must maintain
920		record	ds that demonstrate compliance with the requirements of this Part, as
921		applic	cable, that include the following:
922			
923		1)	Calendar date of the record;
924			
925		2)	Reports for all applicable emissions tests for lead conducted on the lead
926			emission unit, including the date of the test and the results;
927			
928		3)	The date, time, and duration of any malfunction in the operation of any
929			lead emission unit, any lead emission unit's control equipment, or any
930			emissions monitoring equipment subject to this Part if the malfunction

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931 932 933 934 935			could cause an increase in emissions. The records must include a description of the malfunction, the probable cause of the malfunction, the date and nature of the corrective action taken, and any preventative action taken to avoid future malfunctions;
936		4)	A log of all inspections, cleanings, maintenance, and repair activities
937		9	performed on a lead emission unit's control equipment. The records must
938			document the performance of the inspection including the date of the
939			inspection and the observed condition and operation of the control
940			equipment. The records must also include the date and nature of the
941			cleaning and the maintenance and repair activities performed on the lead
942			emission unit's control equipment:
943			
944		5)	Records, including the date and nature of all pavement cleanings, and any
945		,	reason for not cleaning pavement (e.g., equipment breakdown);
946			
947		6)	The date, time, and quantity of any spillage of dust containing lead. The
948		,	records must include the date, time, and nature of the cleaning activity in
949			response to the spill;
950			
951		7)	A log of all battery storage inspection activities, including the date of the
952			inspection, a description of any broken batteries discovered during the
953			inspections, and the date and nature of any required cleaning activities to
954			control dust;
955			
956		8)	A log of all maintenance activities that could generate dust containing
957			lead. The record must include the date of the maintenance activity, a
958			description of the maintenance activity, and those measures implemented
959			to minimize emissions of dust; and
960			
961		9)	A log of the hours of operation for all quenching operations.
962			
963	d)	The ov	vner or operator of a lead emission unit subject to this Part must maintain
964		record	s to demonstrate compliance with Section 226.150(a) and (b).
965			
966	e)	The ov	vner or operator of a lead emission unit subject to this Part must maintain
967		the CD	MP required by Section 226.150(c). Records must be maintained
968		demon	strating compliance with the CDMP.
969			
970	f)	The ov	vner or operator of a lead emission unit subject to this Part must maintain
971		record	s of changes in pressure that could indicate a leak or other problem and, if
972		applica	able, every alarm from the leak detection system. A log must be maintained
973		of all i	nvestigations into the cause of the pressure changes and, if applicable,

a v

974		every	y alarm from the leak detection system, and any maintenance and repair
975		activ	ities performed as a result of the investigation. The records must also include
976		the d	ate of each aforementioned activity. Records must be maintained in order to
977		demo	onstrate compliance with Section 226.150(d).
978			•
979	g)	The o	owner or operator of a lead emission unit subject to this Part must maintain
98 0	0/	recor	ds demonstrating compliance with the lead fugitive dust operating program
981		and y	with the activities required by Section 226.170.
982			
983	h)	The o	owner or operator of a lead emission unit subject to this Part must maintain
984	/	recor	ds that include the following information for each period when the affected
985		emis	sion unit operated without the lead emission unit's control equipment for lead
986		and h	and the potential for emissions:
987		unu	
988		1)	The date, time, and duration of the outage:
989		-)	
990		2)	The length of time that the affected lead emission unit subject to this Part
991		-)	operated uncontrolled before required control measures were in place or
992			the affected lead emission unit was shut down (to resume operations only
993			after required control measures were in place) and an explanation why the
994			time the affected lead emission unit operated uncontrolled was not shorter
995			including a description of any mitigation measures that were implemented.
996			morading a aboription of any maganon moustles that were impremented,
997		3)	A discussion of the probable cause of the outage of the control equipment:
998		5)	and
999			
1000		4)	A discussion of the date and nature of any preventative measures taken to
1001		•)	avoid future outage
1002			a cha tatat c campo
1003	i)	The	owner or operator of a lead emission unit subject to this Part must maintain
1004	-)	recor	rds demonstrating compliance with Section 226 175
1005			
1006	i)	The	owner or operator of a lead emission unit subject to this Part must maintain a
1007	J7	log o	of all inspections of control devices for the control of lead particulate. The
1008		recor	rds must document the date of the inspection, the observed condition and
1009		opera	ation of the control devices, and the date and nature of any corrective action
1010		taker	1. Records must be maintained demonstrating compliance with Sections
1011		226.	165(a) and (c).
1012			
1013	k)	The	owner or operator of a lead emission unit subject to this Part must maintain a
1014	/	log o	of all inspections of any total enclosures and source structures. The records
1015		must	t document the date of the inspection, the observed condition and operation of
1016		the te	otal enclosure, and the date and nature of any corrective action taken

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1017		Records must be maintained demonstrating compliance with Sections 226.155(e),
1018		226.160(a), and 226.165(b) and (c).
1019		
1020	1)	The owner or operator of a lead emission unit subject to this Part must maintain
1021		records that include any data or information necessary to demonstrate compliance
1022		with the CPMP, including, but not limited to, records demonstrating compliance
1023		with Sections 226.155(c) and 226.160.
1024		
1025	m)	The owner or operator of a lead emission unit subject to this Part must notify the
1026		Section Manager within 5 days after discovery of deviations from any of the
1027		requirements of this Part or any exceedance of an applicable emission limitation.
1028		At a minimum, and in addition to any permitting obligations, these notifications
1029		must include a description of the deviations, a discussion of the possible cause of
1030		the deviations, any corrective actions, and any preventative measures taken.
1031		
1032	n)	The owner or operator of a lead emission unit subject to this Part must submit
1033		semiannual reports to the Section Manager. The reports must include all
1034		monitoring reports summarizing monitoring as required by this Part, as well as
1035		summaries of all instances of deviations from the requirements of this Part. For
1036		the January through June monitoring period, the owner or operator shall submit
1037		the monitoring report by July 31 of that year. For the July through December
1038		monitoring period, the owner or operator shall submit the monitoring report by
1039		January 31 of the following year. All reports must be certified by a responsible
1040		official that the information submitted is complete, true, and accurate.

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POLLUTION CONTROL BOARD

NOTICE OF PROPOSED RULE

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION

CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS FOR STATIONARY SOURCES

PART 226

STANDARDS AND LIMITATIONS FOR CERTAIN SOURCES OF LEAD

Section:

- 226.100 Severability
- 226.105 Scope and Organization
- 226.110 Abbreviations and Acronyms
- 226.115 Definitions
- 226.120 Incorporations by Reference
- 226.125 Applicability
- 226.130 Compliance Date
- 226.140 Lead Emission Standards
- 226.150 Operational Monitoring for Control Device
- 226.155 Total Enclosure
- 226.160 Operational Measurement for Total Enclosure
- 226.165 Inspection
- 226.170 Lead Fugitive Dust Operating Program
- 226.175 Emissions Testing
- 226.185 Recordkeeping and Reporting

AUTHORITY: Implementing Section 10 of the Environmental Protection Act (Act) and authorized by Sections 27, 28.2, and 28.5 of the Act [415 ILCS 5/10, 27, 28.2, and 28.5],

SOURCE: Adopted at 38 Ill. Reg. , effective _____.

Section 226.100 Severability

If any Section, subsection, or clause of this Part is found invalid, such that finding shall not affect the validity of this Part as a whole or any Section, subsection, or clause not found invalid.

Section 226.105 Scope and Organization

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- a) This Part sets standards and limitations for emissions of lead from stationary sources.
- b) Notwithstanding the provisions of this Part, the air quality standards contained in 35 Ill. Adm. Code 243 must not be violated.

Section 226.110 Abbreviations and Acronyms

The following abbreviations and acronyms are used in this Part:

Act	Illinois Environmental Protection Act, 415 ILCS 5/1 et seq.		
CPMP	continuous parametric monitoring plan		
CDMP	control device monitoring plan		
fpm	feet per minute		
FV	facial velocity		
gr/dscf	grains per dry standard cubic foot		
Hg	mercury		
Illinois EPA	Illinois Environmental Protection Agency		
m/hr	meters per hour		
mg/l	milligrams per liter		
OSHA	Occupational Safety & Health Administration		
Pb	lead		
USEPA	United States Environmental Protection Agency		

Section 226.115 Definitions

The following definitions apply for the purposes of this Part. Unless otherwise defined in this Section or a different meaning for a term is clear from its <u>contentcontext</u>, all terms not defined <u>hereinin this Part</u> shall have the meaning given them in the Act and in 35 Ill. Adm. Code 211.

----__Agglomerating furnace²["] means a furnace used to melt into a solid mass flue dust that is collected from a baghouse.

<u>""</u>Alloy<u>"</u> means a mixture or metallic solid solution composed of two<u>2</u> or more elements.

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"Alloying and refining kettle" means an open-top vessel that is heated from below and contains molten lead for the purpose of alloying and refining the lead. Such These kettles include, but are not limited to, pot furnaces, receiving kettles, and holding kettles.

"Battery breaking area" means the source location at which lead-acid batteries are broken, crushed, disassembled, or separated into components.

"Casting" means the process of transferring molten lead-containing metal to a mold.

---<u>"</u>Dryer<u>"</u> means a chamber that is heated and that is used to remove moisture from lead- bearing materials other than lead shot.

""Existing lead emission unit"" means a lead emission unit in existence before January 1, 2015,2015 at a nonferrous metal production facility.

"Housekeeping activities" means regular cleaning or maintenance activities conducted to reduce fugitive emissions from production areas.

"Induction furnace" means an electrical furnace used for heating metal by electromagnetic induction.

"Lead" means elemental lead or alloys in which the predominant component is lead (i.e., lead being more prevalent than any other single component).

<u>""Lead-bearing scrap"</u> or <u>"Lead"lead</u>-containing material" or <u>"Lead"lead</u>-containing metal" or <u>"Lead"lead</u>-containing wastes" or <u>"Lead"lead</u> particulate" means scrap or material or metal or wastes or particulate with a lead content equal to or greater than 5 mg/l as measured by EPA Method 1311, incorporated by reference in Section 226.120.

<u>""</u>Lead emission unit<u>"</u> means any process that emits lead, including, but not limited to, battery breaking areas; material handling areas; dryers and dryer areas; channel furnaces and channel furnace areas; coreless furnaces and coreless furnace areas; reverberatory furnaces and reverberatory furnace areas; rotary furnaces and rotary furnace areas; agglomerating furnaces and agglomerating

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furnace areas; kettles and casting areas; lead taps, slag taps, and molds during tapping; and areas where dust from fabric filters, sweepings, or used fabric filters are processed.

"Lead kettle" means a vessel that is heated from below and is used for the purpose of melting refined lead.

"Lead tap" means the pouring hole though which molten lead flows from a kettle or furnace.

""Leak detection system"" means an instrument that is capable of monitoring relative particulate matter (dust) loadings in the exhaust of a particulate control in order to detect leaks in such the particulate control. A leak detection system includes, but is not limited to, an instrument that operates on triboelectric, light scattering, transmittance, or other effect to monitor relative particulate matter loadings.

""Materials handling area" means any area in which lead-containing materials (including, but not limited to, broken battery components, flue dust, and dross) are handled in between process steps. Such<u>These</u> areas may include, but are not limited to, areas in which lead-bearing scrap, lead-containing materials, lead-containing metal, or lead-containing wastes are prepared.

""Materials storage area" means any area in which lead-containing materials (including, but not limited to, broken battery components, flue dust, and dross) are stored in between process steps. Such These areas may include, but are not limited to, areas in which lead-bearing scrap, lead-containing materials, lead-containing metal, or lead-containing wastes are stored in open piles, bins, or tubs.

""Mold cooling" means the process of cooling a mold containing hot metal by direct contact of the mold, but not the hot metal itself, with cooling water or other liquids.

""Natural draft opening" means any permanent opening, including doors and windows, in a total enclosure that remains open during operation of the lead emissions unit in the enclosure(s) or enclosures and is not connected to a duct in which a fan is installed.

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""New lead emission unit" means a lead emission unit constructed on or after January 1, 2015, at a nonferrous metal production facility.

""Nonferrous metal" means a metal that is not an iron or steel alloy; such these metals may include alloys of aluminum, copper, lead, and zinc.

""Nonferrous metal production facility"" means any source that is alloying, refining, or casting nonferrous metal or manufacturing nonferrous metal products, and where the source includes lead in their alloys or products by design.

""Production areas" area" means an indoor space at a nonferrous metal production facility where lead emission units are operated.

"Quenching" means the process of cooling hot metal other than lead shot by direct contact of the metal with cooling water or other liquids.

""Refined lead" means a material composed of lead alloys of a specified composition from an onsite or offsite lead refining operation.

""Refining" means the process of removing impurities or oxides from a metal or metal alloy.

""Reverberatory furnace" means a refractory-lined furnace that uses one or more flames to heat the walls and roof of the furnace and lead-bearing scrap to such a temperature that lead compounds are chemically reduced to elemental lead metal.

""Rotary furnace" (also known as a rotary reverberatory furnace) means a furnace consisting of a refractory-lined chamber that rotates about a horizontal axis and that uses one or more flames to heat the walls of the furnace and lead-bearing scrap to such a temperature that lead compounds are chemically reduced to elemental lead metal.

"Section Manager" means the Manager of Illinois EPA's Bureau of Air. Compliance Section.

""Slag tap"" means the pouring hole through which slag is removed from a kettle or furnace.

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""Tap"" means the pouring hole through which molten metal flows from a kettle or furnace.

"___Tapping" means opening the tap.

""Total enclosure" means a complete enclosure with walls and a roof designed to minimize exposure to the elements and to maximize containment of emissions from one or more lead emission units and that meets the following performance standards: the average facial velocity of air flowing into the enclosure through all natural draft openings during operation of lead emission units in each total enclosure in any one hour period must be at least 200 fpm (3,600 m/hr) or average negative pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside the enclosure over any one hour period.

""Valid test run"" means a completed test run conducted in accordance with a testing protocol submitted to the Illinois EPA, as required under Section 226.175(f) of this Part.

Section 226.120 Incorporations by Reference

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

- a) 75 FR 71033-01, Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards (Monday, November 22, 2010).
- b) 76 FR 72097-01, Air Quality Designations for the 2008 Lead (Pb) National Ambient Air Quality Standards (Tuesday, November 22, 2011).
- c) 40 CFR 60, Appendix appendix A, Method 29 (2012).
- d) 40 CFR 60, Appendix appendix A, Method Methods 1, 1A (2012).
- e) 40 CFR 60, Appendix appendix A, Method Methods 2, 2A, 2C, and 2D (2012).
- f) 40 CFR 60, Appendix appendix A, Method Methods 3, 3A (2012).

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- g) 40 CFR 60, Appendixappendix A, Method 4 (2012).
 h) 40 CFR 60, Appendixappendix A, Method 12 (2012).
 i) USEPA²'s Emission Measurement Center Guideline Document, (GD-042), Preparation and Review of Site-Specific Emission Test Plans, Revised March 1999.
 j) 40 CFR 260.11(c)(3)(v) and 261, Method 1311 (2012).
- k) OSHA. The following method from the Occupational Safety & Health Administration, Methods Development Team, Industrial Hygiene Chemistry Division, OSHA Salt Lake Technical Center, Sandy, UT 84070-6406, (801) 233-4900: OSHA Method 1006 (approved January 2005).

Section 226.125 Applicability

The provisions of this Part apply to all nonferrous metal production facilities located in the following areas in Illinois designated nonattainment for the 2008 lead National Ambient Air Quality Standards by USEPA:

- a) Part of Madison County, specifically the area bounded by Granite City Township and Venice Township, 75 FR 71033-01 (November 22, 2010); and
- b) Part of Cook County, specifically, the area bounded by Damen Avenue on the west, Roosevelt Road on the north, the Dan Ryan Expressway on the east, and the Stevenson Expressway on the south, 76 FR 72097-01 (November 22, 2011).

Section 226.130 Compliance Date

- a) For an existing lead emission unit that is subject to this Part, compliance with these requirements by an owner or operator of the unit is required by no later than January 1, 2015.
- b) For a new lead emission unit that is subject to this Part, compliance with these requirements by an owner or operator of the unit is required by the date on which the unit initially begins operation.

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Section 226.140 Lead Emission Standards

- a) For all alloying and refining kettles located at a source subject to this Part, pursuant to (see Section 226.125-of this Part), each lead emission unit must be:
 - Equipped with a capture system (including covers, hoods, ducts, and fans) that is vented to a control device for lead particulates. The emissions of lead into the atmosphere from each control device must not exceed 0.0010 gr/dscf; and
 - 2) Operated in a total enclosure pursuant to Section 226.155 of this-Part.226.155. The entire gas stream collected by each total enclosure must only be ducted to a control device such that the emissions of lead into the atmosphere from sucheach control device must not exceed 0.00010 gr/dscf.
- b) For reverberatory furnaces or rotary furnaces located at a source subject to this Part <u>pursuant to(see</u> Section 226.125-of this Part), each lead emission unit must be:
 - 1) Equipped with a capture system (including hoods, ducts, and fans) that is vented to a control device for lead particulates. The emissions of lead into the atmosphere from each control device must not exceed 0.00010 gr/dscf; and
 - 2) Operated in a total enclosure pursuant to Section 226.155 of this-Part.226.155. The entire gas stream collected by each total enclosure must only be ducted to a control device such that the emissions of lead into the atmosphere from sucheach control device must not exceed 0.00010 gr/dscf.
- c) Notwithstanding the provisions for total enclosure in subsections (a) and (b)above, any emissions of lead exiting an uncontrolled stack during quenching or mold cooling operations must not exceed 0.00010 gr/dscf. Quenching operations shall be limited to no more than 6 hours per associated unit in any 24 hour period.

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- d) For induction furnaces located at a source subject to this Part <u>pursuant to(see</u> Section 226.125-of this Part), each lead emission unit must be equipped with a capture system (including hoods, ducts, and fans) that is vented to a control device for lead particulates. The emissions of lead into the atmosphere from each control device must not exceed 0.000010 gr/dscf.
- e) For all other furnaces, lead kettles, or any other operation subject to this Part <u>pursuant to(see</u> Section 226.125-of this Part), but not subject to <u>subsectionssubsection</u> (a), (b), or (d)-above, each lead emission unit must be equipped with a capture system (including ducts, fans, and hoods or covers) that is vented to a control device for lead particulates. The emissions of lead into the atmosphere from each control device must not exceed 0.00010 gr/dscf.
- f) Any source subject to the requirements of this Part <u>pursuant to(see</u> Section 226.125-of this Part) must operate pursuant to a lifetime operating permit, a federally enforceable <u>stateState</u> operating permit, a Clean Air Act Permit Program permit, or conditions within a construction permit.

Section 226.150 Operational Monitoring for Control Device

- a) The owner or operator of a lead emission unit subject to this Part must install, maintain, and operate parametric monitoring equipment that consists of a pressure differential system to measure the pressure drop across each control device required by Section 226.140 of this Part.226.140. Data from this instrumentation must be recorded as follows:
 - 1) Data must be automatically recorded every minute during operation of any lead emission unit subject to Section 226.140(a) or (b) of this Part.
 - 2) Data must be recorded at least once every <u>eight8</u> hours during operation of any lead emission unit subject to Section 226.140(d) or (e) of this Part.
 - 3) If the control device used to control lead emission units subject to Section 226.140(a) or (b) of this Part is the same as the control device used to control other lead emission units subject to Section 226.140(d) or (e) of this Part, the requirements in subsection (a)(1) above apply to the control device.

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- b) The owner or operator of a lead emission unit subject to this Part and using a baghouse or other filter system to control units subject to the total enclosure requirements of Section 226.155-of this Part must install, maintain, and operate parametric monitoring equipment that consists of a leak detection system. The leak detection system must be installed at the outlet of the baghouse or other filter system.
- c) The owner or operator of a lead emission unit subject to this Part must develop and maintain a Control Device Monitoring Plan-(CDMP). The CDMP must be submitted for review and approval to the Illinois EPA, directed to the Manager of the Bureau of Air².'s Compliance Section by the compliance date specified in Section 226.130 of this Part and within 30 days after any changes are made to such the plan. The CDMP must be amended by the owner or operator of a lead emission unit subject to this Part as necessary to ensure that it is kept current.
- d) The CDMP must include procedures to investigate and determine the cause of changes in pressure that could indicate a leak or other problem and, if applicable, every alarm from the leak detection system. The procedures must also include a means to determine appropriate corrective actions and preventative measures to address such the pressure changes and to avoid future alarms. The owner or operator of a lead emission unit subject to this Part must operate and maintain each pressure differential system and each leak detection system according to the CDMP at all times.

Section 226.155 Total Enclosure

- a) An owner or operator of a lead emission unit subject to this Part must install, maintain, and operate one or more total enclosures to minimize fugitive emissions from the operations listed in subsections (<u>a)(1)</u> through (6) below at all times that the applicable lead emission unit in the total enclosure is operating or housekeeping activities are being performed. The total enclosure must meet the requirements specified in subsections (b) through (e) below.
 - 1) Battery breaking areas.
 - 2) Dryer and dryer areas, including transition pieces, charging hoppers, chutes, and skip hoists conveying any lead-containing material.

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- 3) Reverberatory furnaces or rotary furnaces charging any lead-containing material and the associated reverberatory furnace areas or rotary furnace areas, including any associated lead taps, slag taps, and molds during processing.
- 4) Alloying and refining kettles and associated areas, including any associated lead taps, slag taps, and molds during processing.
- 5) Areas where dross, dust from fabric filters, sweepings, or used fabric filters are handled, except for areas where all such materials are in closed, leak-proof containers at all times.
- 6) Material handling areas for any lead-containing materials, except that the following areas are exempt from the total enclosure requirements unless the areas listed below also contain operations listed in subsections (<u>a)(1)</u> through (5) above:
 - (A) Those areas where refined lead is melted and cast;
 - (B) Those areas where spent refractory brick is stored in closed containers prior to and after crushing;
 - (C) Those areas where ladle repairs take place; or
 - (D) Those areas where lead-bearing scrap is sorted and handled, if the area is enclosed and equipped with a capture system ducted to a control device subject to the requirements of Section 226.140(e) of this Part-during all sorting and handling activities and if such the scrap is stored in closed containers at all other times.
- b) An owner or operator of a lead emission unit subject to this Part must duct the gas stream collected by each total enclosure to a control device that meets the applicable requirements of Section 226.140 of this Part.226.140.
- c) The total enclosure must be maintained and operated with an inward flow of air through all natural draft openings while the lead emission unit applicable to the operation listed in subsection (a) above in the total enclosure is operating. The average facial velocity of air flowing into the enclosure through all natural draft openings during operation of such-lead emission units in each total enclosure in

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any one hour period must be at least 200 fpm (3,600 m/hr) or average negative pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside the enclosure over any one hour period.

- d) The total enclosure required by subsection (a) above-must be maintained at any opening, including, but not limited to, vents, windows, passages, doorways, bay doors, and roll-ups while lead emission units in the total enclosure(s) or enclosures are operating, except as needed for temporary access to conduct manufacturing operations (e.g., during load-in and load-out of materials or passage of personnel or equipment).
- e) The total enclosure must be free of cracks, gaps, corrosion, or other deterioration that could cause or result in dust being emitted to the atmosphere through <u>suchthose</u> openings, except that the total area of all natural draft openings must not exceed 5 percent of the surface area of the total enclosure²'s walls, floor, and ceiling.

Section 226.160 Operational Measurement for Total Enclosure

- a) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155-of this Part must measure the total area of all natural draft openings and the total surface area of the total enclosure.
- b) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 of this Part must measure the facial velocity (FV) of air flowing through all natural draft openings using the following equation while any lead emission unit applicable to the operation listed in Section 226.155(a) of this Part is operating. Values for Q₀ and Q₁ must be obtained by means of testing pursuant to subsection (b)(1) or monitoring pursuant to subsection (b)(2) below:

$$FV = \frac{Q_0 - Q_I}{A_n}$$

Where:

 Q_{θ} = the sum of volumetric flow from all gas streams exiting the total

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enclosure through the control device.

 Q_{I} = the sum of the volumetric flow from all gas streams into the total enclosure through a forced makeup air duct; zero if there is no forced makeup air into the total enclosure.

 A_n = total area of all natural draft openings in the total enclosure.

- $Q_0 \equiv$ the sum of volumetric flow from all gas streams exiting the total enclosure through the control device.
- $Q_I \equiv$ the sum of the volumetric flow from all gas streams into the total enclosure through a forced makeup air duct: zero if there is no forced makeup air into the total enclosure.
- $A_n \equiv \text{total area of all natural draft openings in the total enclosure.}$
- 1)-1) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155-of this Part must conduct testing to determine the values for Q₀ and Q_I at the same time as any emissions testing is conducted pursuant to Section 226.175-of this Part; or
- 2) An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155-of this Part must install, maintain, and operate a flow monitor at the outlet of each control device required by Section 226.140-of this Part to measure the volumetric flow from all gas streams exiting the total enclosure through the control device (or the final control device emitting to the atmosphere if the source has more than one control device in series). This volumetric flow data must be monitored and automatically recorded every minute.
- c) As an alternative to compliance with the requirements of subsection (b) above, an owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 of this Part must install, operate, and maintain instrumentation to monitor the pressure differential between the interior and exterior of the enclosure, measured in inches of water, to demonstrate compliance with the differential pressure requirements in Section 226.155(c) of this Part. This instrumentation must be located and designed to operate in accordance with all of the requirements of subsections (c)(1) through (6) belowof this Section:

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- 1) An owner or operator of a total enclosure that has a total ground surface area of 10,000 square feet or more must install and maintain a minimum of one building digital differential pressure monitoring system at each of the following three3 walls in each total enclosure:
 - A) The leeward wall.
 - B) The windward wall.
 - C) An exterior wall that connects the leeward and windward wall at a location defined by the intersection of a perpendicular line between a point on the connecting wall and a point on its furthest opposite exterior wall, and intersecting within plus or minus ten10 meters of the midpoint of a straight line between the two2 other monitors specified. The midpoint monitor must not be located on the same wall as either of the other two2 monitors.
- 2) An owner or operator of a total enclosure that has a total ground surface area of less than 10,000 square feet must install and maintain a minimum of one building digital differential pressure monitoring system at the leeward wall of each total enclosure.
- 3) Each digital differential pressure monitoring system must be certified by the manufacturer to be capable of measuring and displaying negative pressure in the range of 0.001 to 0.11 inches of water (0.002 to 0.2 mm mercuryHg) with a minimum accuracy of plus or minus 0.001 inches of water (0.002 mm mercuryHg).
- 4) Each digital differential pressure monitoring system must be equipped with a continuous recorder.
- 5) Each digital differential pressure monitoring system must be calibrated in accordance with manufacturer²/s specifications at least once every 12 calendar months or more frequently if recommended by the manufacturer.
- 6) Each digital differential pressure monitoring system must be equipped with a backup, uninterruptible power supply to ensure continuous operation of the monitoring system during a power outage.

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- An owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155-of this Part must develop and maintain a continuous parametric monitoring plan (CPMP)Continuous Parametric.
 Monitoring Plan containing the information required in subsectionssubsection (d)(1), (2), or (3)-below. The CPMP must be submitted for review and approval to the Illinois EPA, directed to theSection Manager of the Bureau of Air's-Compliance Section, by the compliance date specified in Section 226.130 of this Part and within 30 days after any changes are made to such the plan. The CPMP must be amended by the owner or operator of a lead emission unit subject to this Part as necessary to ensure that it is kept current. The owner or operator of a lead emission unit subject to this Part all times.
 - If electing to comply with the facial velocity requirement in Section 226.155(c) of this Part using the total enclosure measurement method in subsection (b)(1) above, the CPMP must contain the information required by subsections (d)(1)(A) through (D) below.
 - A) The CPMP must identify the operating parameters to be monitored on an ongoing basis to ensure that the facial velocity measured during the most recent compliance test is maintained, explain why suchthose parameters are appropriate for demonstrating ongoing compliance, and identify the specific monitoring procedures for each parameter.
 - B) The CPMP must specify limits or ranges of values of the operating parameters listed pursuant to subsection (d)(1)(A)-above that demonstrate compliance with the facial velocity requirements in Section 226.155(c)-of this Part. These limits or ranges must represent the conditions indicative of proper operation and maintenance of the facial velocity through all natural draft openings during operation of lead emission units in each total enclosure.
 - C) The CPMP must specify data to be recorded to demonstrate compliance with the facial velocity requirements in Section 226.155(c) of this Part, as well as the recording frequency and methodology.

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- D) The CPMP must specify the information to be reported to the Illinois EPA to demonstrate compliance with the facial velocity requirements in Section 226.155(c) of this Part. This information must include, but is not limited to, all information to be submitted as part of the semiannual reports required by Section 226.185(n) of this Part, as well as the reporting frequency.
- If electing to comply with the facial velocity requirement in Section 226.155(c) of this Part using the total enclosure monitoring method in subsection (b)(2) above, the CPMP must contain the information required by subsections (d)(2)(A) through (C) below.
 - A) The CPMP must specify limits or ranges of values of the sum of volumetric flow from all gas streams exiting the total enclosure through the control device and the sum of the volumetric flow from all gas streams into the total enclosure through a forced makeup air duct. These limits or ranges must represent the conditions indicative of proper operation and maintenance of the facial velocity through all natural draft openings during operation of lead emission units in each total enclosure.
 - B) The CPMP must specify data to be recorded to demonstrate compliance with the facial velocity requirements in Section 226.155(c) of this Part, as well as the recording frequency and methodology.
 - C) The CPMP must specify the information to be reported to the Illinois EPA to demonstrate compliance with the facial velocity requirements in Section 226.155(c) of this Part. This information must include, but is not limited to, all information to be submitted as part of the semiannual reports required by Section 226.185(n) of this Part, as well as the reporting frequency.
- 3) If electing to comply with the average differential pressure requirement in Section 226.155(c) of this Part using the total enclosure measurement method in subsection (c) above, the CPMP must contain the information required by subsections (d)(3)(A) through (C) below.

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- A) <u>A)</u> The CPMP must identify the locations and design of each differential pressure monitoring instrumentation demonstrating compliance with the requirements of subsection (c) above to ensure that the average differential pressure is measured properly, explain why suchthose locations are appropriate for demonstrating ongoing compliance, and provide a schedule for instrumentation calibration.
- B) B) The CPMP must specify data to be recorded to demonstrate compliance with the average differential pressure requirements in Section 226.155(c) of this Part, as well as the recording frequency and methodology.
- C) The CPMP must specify the information to be reported to the Illinois EPA to demonstrate compliance with the average differential pressure requirements in Section 226.155(c) of this-Part. This information must include, but is not limited to, all information to be submitted as part of the semiannual reports required by Section 226.185(n) of this Part, as well as the reporting frequency.
- e) The owner or operator of a lead emission unit subject to this Part electing to change the total enclosure measurement method for an existing lead emission unit subject to the total enclosure requirements of Section 226.155 of this Part-must notify the Illinois EPA, directed to the Section Manager of the Bureau of Air's-Compliance Section, of the measurement method by which the owner or operator will comply with the requirements of this Section. Such The notification must include an updated CPMP complying with the appropriate requirements for the new measurement method and must occur at least 30 days prior to changing the method.

Section 226.165 Inspection

a) An owner or operator of a lead emission unit subject to this Part must inspect control devices for the control of lead particulate at least once per month.
 <u>SuchThe</u> inspections of control devices must include all structures that comprise the infrastructure of the affected control device and other structures whichthat are necessary for the affected control device to function in its intended capacity.

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- b) An owner or operator of a lead emission unit subject to this Part must inspect all total enclosures for proper operation and physical integrity at least once per month.
- c) An owner or operator of a lead emission unit subject to this Part must maintain and repair any control device and total enclosure, including all structures that comprise the infrastructure of the affected control device and total enclosure, as necessary to ensure proper and compliant operation.

Section 226.170 Lead Fugitive Dust Operating Program

- a) An owner or operator of a lead emission unit subject to this Part must operate at all times according to a lead fugitive dust operating program that describes in detail the measures that are implemented to minimize lead fugitive dust emissions from the areas, activities, or events listed in subsections (a)(1) through (7) below:
 - 1) Source roadways;

2)2)Source buildings housing lead emission units;

- 3) Battery storage areas;
- 4) Equipment maintenance for equipment used in connection with the processing or handling of lead-containing materials;
- 5) Material storage and material handling areas for lead-containing materials, excluding areas where only finished products are stored or handled;
- 6) Spillage of lead-containing material; and
- Sorting or handling of lead-bearing scrap subject to Section 226.155(a)(6)(D)-of this Part.
- b) An owner or operator of a lead emission unit subject to this Part must develop and maintain a lead fugitive dust operating program. The lead fugitive dust operating program must be submitted for review and approval to the <u>Illinois EPA, directed</u> to the<u>Section</u> Manager of the Bureau of Air's Compliance Section, by the compliance date specified in Section 226.130 of this Part and within 30 days after

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any changes are made to <u>such planthe program</u>. The lead fugitive dust operating program must be amended by the owner or operator of a lead emission unit subject to this Part as necessary to ensure that it is kept current. The owner or operator of a lead emission unit subject to this Part must operate according to the lead fugitive dust operating program at all times.

- c) The measures specified in the lead fugitive dust operating program must, at a minimum, include the requirements specified in subsections (c)(1) through (8)-below.
 - The lead fugitive dust operating program must meet all requirements of 35 Ill. Adm. Code 212.Subpart K.
 - 2) Cleanings must be performed by wet wash or by a vacuum cleaner equipped with a filter rated by the manufacturer to achieve at least 99.97 percent capture efficiency for 0.3 micron particles in a manner that does not generate fugitive dust. When performing cleanings by wet wash, a wet sweeper must employ a water flush followed by sweeping. Cleanings must be performed at the <u>following</u> frequencies <u>specified below</u>:
 - A) Cleanings must be performed at least once every 24 hour period that a lead emission unit in an associated production area is operating and immediately before termination of negative pressure in any total enclosure required by Section 226.155 of this Part for all production areas.
 - B) Cleanings of scrap sorting and handling areas subject to Section 226.155(a)(6)(D) of this Part-must be performed directly after sorting or handling is completed and before shutdown of the required capture and control equipment.
 - C) Cleanings must be performed at least once every <u>seven7</u> calendar days for all areas where lead-containing wastes generated from housekeeping activities are stored, disposed of, recovered, or recycled.
 - D) Cleanings of all areas must be performed no later than one hour after detection of any accidental release of dust containing lead.

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- 3) All areas within the property boundaries subject to vehicle traffic must be paved and must be cleaned at least once every <u>seven7</u> calendar days to remove dust or other accumulated material from paved areas within the property boundaries. <u>SuchThe</u> cleaning must be performed using a vacuum truck with a filter rated by the manufacturer to achieve at least 99.97 percent capture efficiency for 0.3 micron particles, or a wet sweeper, or a combination thereof. Limited access and limited use roadways such as unpaved roads to remote locations on the property are exempt from this requirement if they are used infrequently (no more than one round trip per day).
- 4) Broken batteries must only be stored in a total enclosure. Any battery storage areas that are not located in a total enclosure must be inspected at least once every <u>seven7</u> calendar days. Within 72 hours <u>ofafter</u> identification, any broken batteries must be moved to a total enclosure and all residue from broken batteries must be collected and the area must be cleaned.
- 5) All maintenance activities that could generate dust containing lead must be performed in a manner that minimizes emissions of dust, including, but not limited to, the use of a vacuum cleaner equipped with a filter rated by the manufacturer to achieve at least 99.97 percent capture efficiency for 0.3 micron particles or the use of wet suppression sufficient to prevent dust formation.
- 6) All collected dross and dust must be stored and transported within closed conveyor and storage systems or in closed, leak-proof containers. All other lead-containing material must be contained and covered for transport outside of a total enclosure in a manner that minimizes spillage or dust formation. The transport outside of a total enclosure of scrap metal, spent refractory brick, ladles, and finished product must be addressed in the lead fugitive dust operating program so as to minimize the spillage of lead-containing material or the formation of dust.
- 7) Replacement of control equipment filter bags must be conducted in the manner specified belowin this subsection (c)(7). All vacuuming referenced in this subsection (c)(7) must be performed by a vacuum cleaner equipped with a filter rated by the manufacturer to achieve at least 99.97 percent capture efficiency for 0.3 micron particles:

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- A) Used filter bags must be rolled-up and placed into sealed plastic bags or barrels prior to removal from the filter unit;
- B) The filter unit floors, the dirty and clean plenum side, must be vacuumed of dust residues immediately following removal activity;
- C) The ground surface in and around the filter unit must be vacuumed immediately following the complete installation of new filter bags to remove any and all dust residue; and
- D) In those instances wherein which filter bag replacement requires more than one operational day, the requirements of subsection (c)(7)(C)-above must be completed just prior to the end of each operational day.
- 8) Measures, including, but not limited to, those specified in subsections $(\underline{c})(1)$ through (7)-above must be implemented to minimize the tracking of dust containing lead out of the total enclosure by personnel or by equipment used in handling the material.
- d) All grounds on any source subject to this Part must be paved, or have sufficient groundcover planted, to minimize the amount of wind-blown dust leaving the property.
- e) The applicability of this Part to the owner or operator of a lead emission unit does not exempt the owner or operator from compliance with the applicable requirements in 35 Ill. Adm. Code 212.

Section 226.175 Emissions Testing

- a) For an existing lead emission unit that is subject to this Part, testing of lead emissions at control devices required by Section 226.140-of this Part must be conducted by January 1, 2015.
- b) <u>Retesting</u>
 - 1) The owner or operator of an existing lead emission unit that is subject to this Part and that performed all testing necessary to demonstrate

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compliance with Section 226.140 of this Part-prior to January 1, 2015,2015 is not required to retest pursuant to subsection (a) above if the conditions in subsections (b)(1) through (b)(4) below are met. Nothing in this subsection (b), however, shall limit the ability of the Illinois EPA or the USEPA to require that the owner or operator perform testing pursuantto subsection (e) below. if:

- 4<u>A</u>) On or after January 1, 2011, the owner or operator of an existing lead emission unit that is subject to this Part performed all testing necessary to demonstrate compliance with Section 226.140-of this-Part;
- $2\underline{B}$) The owner or operator submitted the results of <u>such the</u> tests to the Illinois EPA, and the tests were not rejected by the Illinois EPA;
- <u>3C</u>) The same capture system and control device(<u>s</u>) or <u>devices</u> tested asreferenced in<u>under</u> subsection (b)(1)-above(<u>A</u>) are still being used by the subject lead emission unit; and
- 4<u>D</u>) The owner or operator complies with all recordkeeping and reporting requirements in Section 226.185(i) of this Part.
- 2) Nothing in this subsection (b), however, shall limit the ability of the Illinois EPA or the USEPA to require that the owner or operator perform testing pursuant to subsection (e).
- c) For a new lead emission unit that is subject to this Part, testing of lead emissions at control devices required by Section 226.140 of this Part must be conducted within 60 days after achieving maximum operating rate, but no later than 180 days after initial startup of the new lead emission unit in accordance with this Section.
- d) The owner or operator of a lead emission unit subject to this Part must have subsequent emissions tests conducted at least once every <u>five5</u> years. The owner or operator of a lead emission unit that tested prior to January 1, 2015, in accordance with subsection (b) above must use the original test date as the beginning of this <u>five5</u>-year period.

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- e) When, as determined by the Illinois EPA or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 226.140 of this Part,226.140, the owner or operator of a lead emission unit subject to this Part must, at his or her own expense, have such the test conducted in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Illinois EPA or USEPA, unless such that notice specifies an alternative testing deadline.
- f) The owner or operator of a lead emission unit subject to the emissions testing requirements of this Section must conduct all <u>suchthat</u> tests for lead pursuant to subsections (g) through (m) below.
- g) The owner or operator of a lead emission unit required to test pursuant to subsectionssubsection (a), (c), (d), or (e) above must submit a testing protocol as described in USEPA's Emission Measurement Center Guideline Document (GD-042) to the Illinois EPA, directed to the Manager of the Bureau of Air²'s Compliance Section, at least 45 days prior to a scheduled emissions test. Upon written request directed to the Manager of the Bureau of Air's Compliance Section_ Manager, the Illinois EPA may, in its sole discretion, waive the 45-day requirement. Such waiver is only effective if it is provided in writing by the Manager of the Bureau of Air's Compliance Section, Manager or his or her designee.
- h) Notification of a scheduled emissions test must be submitted to the Illinois EPA in writing, directed to the Manager of the Bureau of Air's Compliance-Section_ Manager, at least 30 days prior to the expected date of the emissions test and, again, 5 days prior to such<u>the</u> testing. Upon written request directed to the Manager of the Bureau of Air's Compliance-Section_Manager, the Illinois EPA may, in its sole discretion, waive the 30-day requirement or the 5-day requirement. Such<u>A</u> waiver is only effective if it is provided in writing by the Manager of the-Bureau of Air's Compliance-Section₅ Manager or his or her designee.
- If, after the 30-days² notice for an initially scheduled test is sent, there is a delay (e.g., due to operational problems) in conducting the test as scheduled, the owner or operator of the lead emission unit must notify the Illinois EPA, Bureau of Air, Compliance Section as soon as practicable of the delay in the original test date, either by providing at least 7 days² notice of the rescheduled date of the test or by arranging a new test date with the Illinois EPA by mutual agreement.

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- j) Not later than 60 days after the completion of the test, the owner or operator of a lead emission unit required to test pursuant to subsectionssubsection (a), (c), (d), or (e) above must submit the results of the test to the Illinois EPA, directed to the Manager of the Bureau of Air's Compliance Section Manager.
- k) The owner or operator of a lead emission unit subject to the emissions testing requirements of this Section must conduct such tests for lead emissions using 40 C.F.R.CER 60, subpart A, and appendix A, Methods 1 (1 or 1A), 2 (2, 2A, 2C, or 2D), 3 (3 or 3A), and 4;<u>4</u>, and <u>MethodsMethod</u> 12 or 29, as incorporated by reference in Section 226.120 of this Part,226.120, or other alternative USEPA methods approved by the Illinois EPA.
- 1) Each emissions test must be in accordance with all of the following requirements:
 - 1) Method 12 or 29 must be used to determine compliance with the lead emission standard in Section 226.140 of this Part;
 - 2) The minimum sample volume must be 0.85 dry standard cubic meters (30 dry standard cubic feet);
 - 3) The minimum sampling time must be 60 minutes for each run. Consistent with the averaging and compliance requirements of this subsection (1), at least three3 runs must be performed and the arithmetic average of three3 valid runs must be used to determine compliance;
 - 4) The following procedure must be used to average emissions of tests results for any compliance determination:
 - A) The average of the emissions test results must be determined by the arithmetic average of three<u>3</u> valid test run results, as long as the test runs are conducted in conformance with the provisions of an approved testing protocol as required by subsection (g)-above.
 - B) Notwithstanding subsection (l)(4)(A)-above, if the owner or operator of a lead emission unit elects to perform more than three3 test runs, then the average must be calculated based upon the results of all valid test runs.

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- C) Notwithstanding subsection (l)(4)(A) above, in the event that a sample is accidentally lost or conditions occur in which one of the test runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, malfunction, or other dissimilar or non-representative circumstances, upon the owner²'s or operator²'s documentation of the existence of any of the circumstances set forth in this subsection (l)(4)(C) and verification by the Illinois-EPA;Section Manager of the Bureau of Air's Compliance Section, or his designee, that the conditions existed, compliance may be determined by using the arithmetic average of the test results of all remaining valid test runs; however, a minimum of two2 valid test runs is required to determine compliance;
- 5) Each test for lead emissions must be conducted during conditions representative of maximum lead emissions; and
- 6) If an owner or operator of a lead emission unit does not meet the criteria for averaging of subsection (l)(4)-above, then each individual valid test run must meet the applicable limitation in order to demonstrate compliance.
- m) The owner or operator of any lead emission unit for which emissions are vented from an uncontrolled stack to the atmosphere must test <u>suchthose</u> emissions in accordance with the requirements of this Section or calculate <u>suchthe</u> emissions by means of collecting area time-weighted average lead samples and analyzing <u>suchthose</u> samples through the use of OSHA Method 1006. If an owner or operator of a lead emission unit subject to this <u>partPart</u> elects to calculate lead emissions from an uncontrolled stack, <u>suchthe</u> calculations must be completed at least once every <u>five5</u> years.

Section 226.185 Recordkeeping and Reporting

- a) An owner or operator of a lead emission unit subject to this Part must keep and maintain all records used to demonstrate initial compliance and ongoing compliance with the requirements of this Part.
 - Except as otherwise provided under this Part, copies of <u>suchthe</u> records must be submitted by the owner or operator of the source to the Illinois EPA within 30 days after receipt of a written request by the Illinois EPA.

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- 2) The owner or operator must keep and maintain all records required by this Section at the source for at least <u>five5</u> years from the date the document is created and must make all records available to the Illinois EPA for inspection and copying upon request.
- b) Notification of the initial startup of any new lead emission unit subject to this Part must be submitted to the Illinois EPA, directed to the Manager of the Bureau of Air's Compliance Section, Section Manager no later than 30 days after initial startup.
- c) The owner or operator of a lead emission unit subject to this Part must maintain records that demonstrate compliance with the requirements of this Part, as applicable, that include the following:
 - 1) Calendar date of the record;
 - 2) Reports for all applicable emissions tests for lead conducted on the lead emission unit, including the date of the test and the results;
 - 3) The date, time, and duration of any malfunction in the operation of any lead emission unit, any lead emission unit²'s control equipment, or any emissions monitoring equipment subject to this Part if such the malfunction could cause an increase in emissions. The records must include a description of the malfunction, the probable cause of the malfunction, the date and nature of the corrective action taken, and any preventative action taken to avoid future malfunctions;
 - 4) A log of all inspections, cleanings, maintenance, and repair activities performed on a lead emission unit²'s control equipment. <u>SaidThe</u> records must document the performance of the inspection, including the date of the inspection and the observed condition and operation of the control equipment. The records must also include the date and nature of the cleaning and the maintenance and repair activities performed on the lead emission unit²'s control equipment;
 - 5) Records, including the date and nature of all pavement cleanings, and any reason for not cleaning pavement (e.g., equipment breakdown);

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- 6) The date, time, and quantity of any spillage of dust containing lead. The records must include the date, time, and nature of the cleaning activity in response to the spill;
- 7) A log of all battery storage inspection activities, including the date of the inspection, a description of any broken batteries discovered during saidthe inspections, and the date and nature of any required cleaning activities to control dust;
- 8) A log of all maintenance activities that could generate dust containing lead. The record must include the date of the maintenance activity, a description of the maintenance activity, and those measures implemented to minimize emissions of dust; and
- 9) A log of the hours of operation for all quenching operations.
- d) The owner or operator of a lead emission unit subject to this Part must maintain records to demonstrate compliance with Section 226.150(a) and (b) of this Part.
- e) The owner or operator of a lead emission unit subject to this Part must maintain the CDMP required by Section 226.150(c)-of this Part. Records must be maintained demonstrating compliance with the CDMP.
- f) The owner or operator of a lead emission unit subject to this Part must maintain records of changes in pressure that could indicate a leak or other problem and, if applicable, every alarm from the leak detection system. A log must be maintained of all investigations into the cause of suchthe pressure changes and, if applicable, every alarm from the leak detection system, and any maintenance and repair activities performed as a result of suchthe investigation. SaidThe records must also include the date of each aforementioned activity. Records must be maintained in order to demonstrate compliance with Section 226.150(d) of this Part.
- g) The owner or operator of a lead emission unit subject to this Part must maintain records demonstrating compliance with the lead fugitive dust operating program and with the activities required by Section 226.170 of this Part.226.170.

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- h) The owner or operator of a lead emission unit subject to this Part must maintain records that include the following information for each period when the affected emission unit operated without the lead emission unit²'s control equipment for lead and had the potential for emissions:
 - 1) The date, time, and duration of such<u>the</u> outage;

2) The length of time that the affected lead emission unit subject to this Part operated uncontrolled before required control measures were in place or the affected lead emission unit was shut down (to resume operations only after required control measures were in place) and an explanation why the time the affected lead emission unit operated uncontrolled was not shorter, including a description of any mitigation measures that were implemented;

3) A discussion of the probable cause of the outage of the control equipment; and

4) A discussion of the date and nature of any preventative measures taken to avoid future outage.

- i) The owner or operator of a lead emission unit subject to this Part must maintain records demonstrating compliance with Section 226.175 of the Part.226.175.
- j) The owner or operator of a lead emission unit subject to this Part must maintain a log of all inspections of control devices for the control of lead particulate. <u>SuchThe</u> records must document the date of the inspection, the observed condition and operation of the control devices, and the date and nature of any corrective action taken. Records must be maintained demonstrating compliance with Sections 226.165(a) and (c) of this Part.
- k) The owner or operator of a lead emission unit subject to this Part must maintain a log of all inspections of any total enclosures and source structures. Such The records must document the date of the inspection, the observed condition and operation of the total enclosure, and the date and nature of any corrective action taken. Records must be maintained demonstrating compliance with Sections 226.155(e), 226.160(a), and 226.165(b) and (c) of this Part.

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- The owner or operator of a lead emission unit subject to this Part must maintain records that include any data or information necessary to demonstrate compliance with the CPMP, including, but not limited to, records demonstrating compliance with Sections 226.155(c) and 226.160 of this Part.226.160.
- m) The owner or operator of a lead emission unit subject to this Part must notify the Illinois EPA, directed to the<u>Section</u> Manager of the Bureau of Air's Compliance-Section, within five<u>5</u> days after discovery of deviations from any of the requirements of this Part or any exceedance of an applicable emission limitation. At a minimum, and in addition to any permitting obligations, these notifications must include a description of suchthe deviations, a discussion of the possible cause of suchthe deviations, any corrective actions, and any preventative measures taken.
- n) The owner or operator of a lead emission unit subject to this Part must submit semiannual reports to the Illinois EPA, directed to the Manager of the Bureau of Air's Compliance Section Manager. Such The reports must include all monitoring reports summarizing monitoring as required by this Part, as well as summaries of all instances of deviations from the requirements of this Part. For the January through June monitoring period, the owner or operator shall submit the monitoring report by July 31 of that year. For the July through December monitoring period, the owner or operator shall submit the monitoring report by January 31 of the following year. All-such reports must be certified by a responsible official that the information submitted is complete, true, and accurate.

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