

**From:** [McGill, Richard](#)  
**To:** [Brown, Don](#)  
**Cc:** [Paruchuri, Anupama](#); [Bilbruck, Shannon O.](#)  
**Subject:** FW: Review of PCB documents -35-226 & 35-237  
**Date:** Friday, May 22, 2026 3:57:46 PM  
**Attachments:** [35-226NT-P Agency 4.14.26.docx](#)  
[35-226NT-P JCAR 4.14.26.docx](#)  
[35-226RG-P Agency 4.14.26.docx](#)  
[35-226RG-P JCAR Predraft 5.21.26.docx](#)  
[35-237NT-P Agency 4.14.26.docx](#)  
[35-237NT-P JCAR 4.14.26.docx](#)  
[35-237RG-P Agency 4.14.26.docx](#)  
[35-237RG-P JCAR Predraft 5.22.26.docx](#)  
[image001.png](#)

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Good afternoon, Mr. Clerk,

Please docket as a public comment in R18-21 this email, including its attachments, sent from JCAR's Melissa Shipley to the Board's Shannon Bilbruck.

Thank you.

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Illinois Pollution Control Board  
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**From:** Shipley, Melissa A. <[MelissaS@ilga.gov](mailto:MelissaS@ilga.gov)>  
**Sent:** Friday, May 22, 2026 3:02 PM  
**To:** Bilbruck, Shannon O. <[Shannon.O.Bilbruck@Illinois.gov](mailto:Shannon.O.Bilbruck@Illinois.gov)>  
**Cc:** EXT eadministrativecode, ILSOS <[eadministrativecode@ilsos.gov](mailto:eadministrativecode@ilsos.gov)>; Schultz, Kimberly A. <[KimberlyS@ilga.gov](mailto:KimberlyS@ilga.gov)>; Bockewitz, Chrystal <[crystalb@ilga.gov](mailto:crystalb@ilga.gov)>  
**Subject:** [External] Review of PCB documents -35-226 & 35-237

Hi Shannon

JCAR has completed predraft technical reviews of the attached rulemakings for 35-226 and 35-237. The goal of this technical review is to ensure the drafts contain accurate background text, comply with the SOS Style manual (subsection labeling, spacing and indenting), and use consistent capitalization and punctuation.

We would appreciate a review of these documents prior to filing to correct any items flagged. We also noticed that from time to time subsection headers have inconsistent punctuation (period v. no

punctuation). Using one punctuation style in these instances would be preferred.

Thank you for the chance to comment prior to filing.

*Melissa Shipley*  
*Joint Committee on Administrative Rules*  
*700 Stratton Building*  
*Springfield, IL 62706*

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NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Standards and Limitations for Certain Sources of Lead
- 2) Code Citation: 35 Ill. Adm. Code 226
- 3) 

| <u>Section Numbers:</u> | <u>Proposed Actions:</u> |
|-------------------------|--------------------------|
| 226.100                 | Amendment                |
| 226.105                 | Amendment                |
| 226.110                 | Amendment                |
| 226.115                 | Amendment                |
| 226.125                 | Amendment                |
| 226.130                 | Amendment                |
| 226.140                 | Amendment                |
| 226.150                 | Amendment                |
| 226.155                 | Amendment                |
| 226.160                 | Amendment                |
| 226.170                 | Amendment                |
| 226.175                 | Amendment                |
| 226.185                 | Amendment                |
- 4) Statutory Authority: Implementing Section 10 and authorized by Sections 27, 28.2, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28.2, 28.5].
- 5) A Complete Description of the Subjects and Issues Involved: Subtitle B of the Board's rules addresses air pollution and includes permitting provisions, emissions standards and limitations, and monitoring requirements. Part 226 sets standards and limitations for emissions of lead from stationary sources.

This rulemaking originated with a proposal by the Illinois Environmental Protection Agency (IEPA). IEPA cited Executive Order 2016-13, which directed agencies to review their rules to identify provisions that are outdated, repetitive, confusing, or unnecessary and then revise or repeal them as appropriate. At that time, the Board had begun its own review with the same general purposes.

The Board throughout Part 226 proposed additional numerous revisions, including matters of capitalization, punctuation, abbreviation, spelling, and concision. The Board also proposed amendments such as changing passive to active voice, avoiding unnecessary nominalizations, and using "must" to be more clearly mandatory.

The Board intends that each of its proposed revisions is non-substantive in nature.

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- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: No
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Do these proposed amendments contain incorporations by reference? No
- 10) Are there any proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a state mandate as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least 45 days after the date of publication in the Illinois Register. Public comments should refer to Docket R18-21 and be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at <https://pcb.illinois.gov/>. Public comments may be addressed to:

Clerk's Office  
Illinois Pollution Control Board  
60 East Van Buren Street, Suite 11-500  
Chicago, IL 60605

312-814-3461  
[don.brown@illinois.gov](mailto:don.brown@illinois.gov)

Interested persons may download copies of the Board's opinions and orders in R18-21 from the Board's Web site at <https://pcb.illinois.gov/> and may also request copies by calling the Clerk's office at 312-814-3620.

- 13) Initial Regulatory Flexibility Analysis:
  - A) Description of the type of small businesses, not for profit corporations or small municipalities subject to the proposed rule amendment: None

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- B) Description of the proposed reporting, bookkeeping and other procedures required for compliance with the rule amendment: None
- C) Description of the types of professional skills necessary for compliance: None
- 14) Small Business Economic Impact Analysis: Because the Board proposes non-substantive amendments as described above in (5), it does not reasonably foresee adverse economic impacts such as loss of revenue or increased expenses on small businesses.
- 15) Regulatory Agenda on which this rulemaking was summarized: This rule was not included on either of the two most recent agendas, although it had been included on the July 2018 agenda (42 Ill. Reg. 13328 (July 6, 2018)).
- 16) Any other information or justification for the proposed amendment that the agency believes would be helpful to the public regarding the proposed amendment. For example, a discussion or analysis of the benefits the proposed amendment is projected to have on the Illinois public, consumers, investors or other similar groups. See (5).

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

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NOTICE OF PROPOSED AMENDMENTS

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                 |

**Commented [JS1]:** Omit one extra space after numbers 100, 125, 130, 155, 165, 170 and 185.

AUTHORITY: Implementing Section 10 of the Environmental Protection 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. 9521, effective April 21, 2014; amended in R18-21 at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**Section 226.100 Severability**

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

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Commented [SKA2]:** Missing period. This comment applies to all section source notes

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**Section 226.105 Scope and Organization**

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

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.110 Abbreviations and Acronyms**

This Part uses the~~The~~ following abbreviations and acronyms ~~are used in this Part:~~

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

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**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 context, all terms not defined in this Part ~~shall~~ have the ~~definitions meaning given them~~ in the Act and in 35 Ill. Adm. Code 211.

"Agency" means the Illinois Environmental ~~Protection~~ ~~protection~~ Agency.

"Agglomerating furnace" means a furnace used to melt into a solid mass flue dust that is collected from a baghouse.

**Commented [JS3]:** All Definitions are to be indented to the 1" mark.

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

"Alloying" means the process of combining or mixing metals or other substances in molten form ~~to produce for the purpose of producing~~ a particular alloy.

"Alloying and refining kettle" means an open-top vessel that is heated from below and contains molten lead ~~to alloy for the purpose of alloying~~ and ~~refine~~<sup>refining</sup> the lead. 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.

"Dross" means solid impurities removed from molten lead in lead kettles.

"Dryer" 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, 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).

"Lead-bearing scrap" or "lead-containing material" or "lead-containing metal" or "lead-containing wastes" or "lead 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.

"Lead emission unit" 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

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furnaces and reverberatory furnace areas; rotary furnaces and rotary furnace areas; agglomerating furnaces and agglomerating 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~~ to melt ~~for the purpose of melting~~ refined lead.

"Lead tap" means the pouring hole ~~through~~ through 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 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. 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 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. 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 ~~or enclosures~~ and is not connected to a duct in which a fan is installed.

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

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"Nonferrous metal" means a metal that is not an iron or steel alloy. ~~These; 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 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" or "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 Manager of Agency's Bureau of Air, Compliance Section.

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

"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. Under this definition, a "total enclosure" must meet and that

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~~meets~~ the following performance standards: ~~either~~ 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-hourone hour~~ period must be at least 200 fpm (3,600 m/hr), ~~or an~~ average negative pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside the enclosure over any ~~one-hourone hour~~ period.

"Valid test run" means a completed test run conducted in ~~compliance accordance~~ with a testing protocol submitted to the Agency, as required under Section 226.175(f).

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.125 Applicability**

~~This~~The provisions of this Part ~~applies 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), ~~as~~ incorporated by reference in Section 226.120; 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), ~~as~~ incorporated by reference in Section 226.120.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.130 Compliance Date**

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

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

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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 (~~see Section 226.125~~), each lead emission unit must be:
- 1) 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 ~~under pursuant to~~ Section 226.155. The entire gas stream collected by each total enclosure must ~~only~~ be ducted to a control device, ~~and such that~~ the emissions of lead into the atmosphere from each control device must not exceed 0.00010 gr/dscf.
- b) For reverberatory furnaces or rotary furnaces located at a source subject to this Part (~~see Section 226.125~~), 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 ~~under pursuant to~~ Section 226.155. The entire gas stream collected by each total enclosure must ~~only~~ be ducted to a control device, ~~and such that~~ the emissions of lead into the atmosphere from each control device must not exceed 0.00010 gr/dscf.
- c) ~~Despite Notwithstanding~~ the provisions for total ~~enclosures enclosure~~ in subsections (a) and (b), any emissions of lead exiting an uncontrolled stack during quenching or mold cooling operations must not exceed 0.00010 gr/dscf. Quenching operations ~~must shall~~ be limited to no more than ~~six6~~ hours per associated unit in any ~~24-hour24 hour~~ period.
- d) For induction furnaces located at a source subject to this Part (~~see Section 226.125~~), 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.

Commented [AL5]: See comment above

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- e) For all other furnaces, lead kettles, or any other operation subject to this Part ~~(see 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 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 ~~(see Section 226.125)~~ must operate ~~under pursuant to~~ a lifetime operating permit, a federally enforceable State operating permit, a Clean Air Act Permit Program permit, or conditions within a construction permit.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**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. 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).
  - 2) Data must be recorded at least once every ~~eight~~ hours during operation of any lead emission unit subject to Section 226.140(d) or (e).
  - 3) If the control device used to control lead emission units subject to Section 226.140(a) or (b) is the same as the control device used to control other lead emission units subject to Section 226.140(d) or (e), the requirements in subsection (a)(1) apply to the control device.
- b) The owner or operator of a lead emission unit subject to this Part ~~that uses and using~~ a baghouse or other filter system to control units subject to the total enclosure requirements of Section 226.155 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.

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- c) The owner or operator of a lead emission unit subject to this Part must develop and maintain a Control Device Monitoring Plan. The CDMP 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 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 ~~at all times~~ operate and maintain each pressure differential system and each leak detection system according to the CDMP ~~at all times~~.

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(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.155 Total Enclosure**

- a) ~~The 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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- 5) Areas where dross, dust from fabric filters, sweepings, or used fabric filters are handled, except for areas where all ~~these~~~~such~~ materials are in closed, leak-proof containers at all times.
- 6) Material handling areas for any lead-containing materials. The following areas are exempt from the total enclosure requirements unless the areas ~~listed~~ also contain operations ~~listed~~ in subsections (a)(1) through (5):
  - A) ~~Areas~~~~These areas~~ where refined lead is melted and cast;
  - B) ~~Areas~~~~These areas~~ where spent refractory brick is stored in closed containers ~~before~~ ~~prior to~~ and after crushing;
  - C) ~~Areas~~~~These areas~~ where ladle repairs take place; ~~and~~
  - D) ~~Areas~~~~These 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) during all sorting and handling activities, and if the scrap is stored in closed containers at all other times.
- b) ~~The~~~~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.
- 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) in the total enclosure is operating. 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~~~~one hour~~ period must be at least 200 fpm (3,600 m/hr). ~~Alternatively,~~ ~~or~~ an average negative pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside the enclosure over any ~~one-hour~~~~one hour~~ period.
- d) The total enclosure required by subsection (a) 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 ~~or enclosures~~ are operating, except as needed for temporary access to conduct manufacturing

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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 those openings, except that the total area of all natural draft openings must not exceed ~~5% percent~~ of the surface area of the total enclosure's walls, floor, and ceiling.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.160 Operational Measurement for Total Enclosure**

- a) ~~The 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) ~~The 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 and while any lead emission unit applicable to the operation ~~listed~~ in Section 226.155(a) is operating. Values for  $Q_0$  and  $Q_I$  must be obtained by ~~means of testing under pursuant~~ subsubsection (b)(1) or monitoring ~~under pursuant to~~ subsubsection (b)(2):

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

Where:

$Q_0$  = 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.

- 1) ~~The An~~ owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 must conduct testing to determine the values for  $Q_0$  and  $Q_I$  at the same time as any emissions testing is conducted ~~under pursuant to~~ Section 226.175; or

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- 2) ~~The 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.
- c) As an alternative to compliance with ~~the requirements of~~ subsection (b), ~~the an~~ owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 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). This instrumentation must be located and designed to operate in ~~compliance accordance~~ with all ~~of~~ the requirements of subsections (c)(1) through (6):
  - 1) ~~The An~~ owner or operator of a total enclosure ~~with 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 ~~three~~ walls in each total enclosure:
    - A) The leeward wall;~~;~~
    - B) The windward wall; ~~and~~
    - C) An exterior wall that connects the leeward and windward ~~walls 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 10 meters of the midpoint of a straight line between the ~~two~~ other monitors specified. The midpoint monitor must not be located on the same wall as either of the other ~~two~~ monitors.
  - 2) ~~The An~~ owner or operator of a total enclosure ~~with 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.

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- 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 Hg) with a minimum accuracy of plus or minus 0.001 inches of water (0.002 mm Hg).
  - 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 ~~compliance accordance~~ with manufacturer'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.
- d) ~~The 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 must conduct monitoring in ~~compliance accordance~~ with the CPMP at all times.
- 1) 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

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compliance, and identify the specific monitoring procedures for each parameter.

- B) The CPMP must specify limits or ranges of values of the operating parameters ~~under 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 ~~indicating 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) ~~and, as well as~~ the recording frequency and methodology.
  - D) The CPMP must specify the information to be reported to the Agency 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 semiannual reports required by Section 226.185(n) ~~and, as well as~~ the reporting frequency.
- 2) If electing to comply with the facial velocity requirement in Section 226.155(c) using the total enclosure monitoring method in subsection (b)(2), the CPMP must contain the information required by subsections (d)(2)(A) through (C).
- 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 ~~indicating 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.

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- B) The CPMP must specify data to be recorded to demonstrate compliance with the facial velocity requirements in Section 226.155(c) ~~and, as well as~~ the recording frequency and methodology.
  - C) The CPMP must specify the information to be reported to the Agency 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 semiannual reports required by Section 226.185(n) ~~and, as well as~~ the reporting frequency.
- 3) If electing to comply with the average differential pressure requirement in Section 226.155(c) using the total enclosure measurement method in subsection (c), the CPMP must contain the information required by subsections (d)(3)(A) through (C).
- A) The CPMP must identify the locations and design of each differential pressure monitoring instrumentation demonstrating compliance with ~~the requirements of~~ subsection (c) to ensure that the average differential pressure is measured properly, explain why those locations are appropriate for demonstrating ongoing compliance, and provide a schedule for instrumentation calibration.
  - B) The CPMP must specify data to be recorded to demonstrate compliance with the average differential pressure requirements in Section 226.155(c) ~~and, as well as~~ the recording frequency and methodology.
  - C) The CPMP must specify the information to be reported to the Agency to demonstrate compliance with the average differential pressure requirements in Section 226.155(c). 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) ~~and, 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 must notify the

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Section Manager of the measurement method by which the owner or operator will comply with the requirements of this Section. The ~~notice~~~~notification~~ must include an updated CPMP complying with the appropriate requirements for the new measurement method and must occur at least 30 days ~~before~~ ~~prior to~~ changing the method.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.170 Lead Fugitive Dust Operating Program**

- a) ~~The 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):
- 1) Source roadways;
  - 2) Source buildings housing lead emission units;
  - 3) Battery storage areas;
  - 4) Equipment maintenance for equipment used ~~to process in connection with the processing~~ or ~~handle~~~~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
  - 7) Sorting or handling of lead-bearing scrap subject to Section 226.155(a)(6)(D).
- b) ~~The 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 Section Manager by the compliance date ~~specified~~ in Section 226.130 and within 30 days after any changes are made to the program. 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

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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).
- 1) 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 following frequencies:
    - A) Cleanings must be performed at least once every ~~24-hour~~~~24 hour~~ period that a lead emission unit in an associated production area is operating and immediately before ~~terminating~~~~termination of~~ negative pressure in any total enclosure required by Section 226.155 for all production areas.
    - B) Cleanings of scrap sorting and handling areas subject to Section 226.155(a)(6)(D) 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 ~~seven~~~~7~~ 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 ~~within~~~~no later than~~ one hour after ~~detecting~~~~detection of~~ any accidental release of dust containing lead.
  - 3) All areas within the property boundaries subject to vehicle traffic must be paved and must be cleaned at least once every ~~seven~~~~7~~ calendar days to remove dust or other accumulated material from paved areas within the property boundaries. The cleaning must be performed using a vacuum

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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 ~~of these methods 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 only in a total enclosure. Any battery storage areas that are not located in a total enclosure must be inspected at least once every ~~seven~~ 7 calendar days. Within 72 hours after 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 ~~using, 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 under ~~in~~ ~~the manner specified in~~ this subsection (c)(7). All vacuuming ~~underreferenced 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.
  - A) Used filter bags must be rolled up ~~rolled up~~ and placed into sealed plastic bags or barrels before ~~prior to~~ removal from the filter unit;

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- B) The filter unit floors, the dirty and clean plenum side, must be vacuumed of dust residues immediately ~~after following~~ removal activity;
  - C) The ground surface in and around the filter unit must be vacuumed immediately ~~after following~~ the complete installation of new filter bags to remove any ~~and all~~ dust residue; and
  - D) ~~If in those instances in which~~ filter bag replacement requires more than one operational day, the requirements of subsection (c)(7)(C) must be completed just ~~before prior to~~ the end of each operational day.
- 8) Measures, including, ~~but not limited to,~~ those ~~specified~~ in subsections (c)(1) through (7), must be implemented to minimize ~~the tracking of~~ dust containing lead out of the total enclosure by personnel or by equipment used ~~to handle in handling~~ the material.

- d) All grounds on any source subject to this Part must be paved or oiled, 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.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.175 Emissions Testing**

- a) ~~The owner or operator of~~ For an existing lead emission unit ~~that is~~ subject to this Part ~~must conduct,~~ testing of lead emissions at control devices required by Section 226.140 ~~must be conducted~~ by January 1, 2015.
- b) Testing Completed ~~Before Prior to~~ January 1, 2015
  - 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 ~~before prior to~~ January 1, 2015, is not required to retest ~~under pursuant to~~ subsection (a) if:

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- A) ~~The~~ 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 ~~on or after January 1, 2011;~~
- B) The owner or operator submitted the ~~test~~ results ~~of the tests~~ to the Agency, and the tests were not rejected by the Agency;
- 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, ~~limits shall limit~~ the ability of the Agency or the USEPA to require that the owner or operator perform testing ~~under pursuant to~~ subsection (c).
- c) ~~The owner or operator of~~ For a new lead emission unit ~~that is~~ subject to this Part ~~must conduct,~~ testing of lead emissions at control devices required by Section 226.140 ~~must be conducted~~ within 60 days after achieving maximum operating rate, but ~~within no later than~~ 180 days after initial startup of the new lead emission unit in ~~compliance accordance~~ with this Section.
- d) The owner or operator of a lead emission unit subject to this Part must ~~conduct~~ ~~have subsequent~~ emissions tests ~~conducted~~ at least once every ~~five~~ 5 years ~~after~~ ~~initial testing~~. The owner or operator of a lead emission unit that tested ~~before~~ ~~prior to~~ January 1, 2015, in ~~compliance accordance~~ with subsection (b) must use the original test date as the beginning of this ~~five-year~~ 5-year period.
- e) When, as determined by the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 226.140, ~~an~~ the owner or operator of a lead emission unit subject to this Part must, at ~~its~~ ~~his or her~~ own expense, ~~conduct~~ ~~testing have the test conducted~~ in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified~~ in this Section within 90 days after ~~receiving receipt of~~ a notice to test from the Agency or USEPA, unless that notice specifies an alternative testing deadline.

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- f) The owner or operator of a lead emission unit subject to the emissions testing requirements of this Section must conduct all tests for lead required by subsections (a) through (e) in compliance accordance with subsections (g) through (m).
- g) The owner or operator of a lead emission unit required to test under pursuant ~~to~~ subsection (a), (c), (d), or (e) must submit a testing protocol as described in USEPA's Emission Measurement Center Guideline Document (GD-042), ~~as~~ incorporated by reference in Section 226.120, to the Agency and, directed to the Section Manager, at least 45 days before prior to a scheduled emissions test. Upon written request directed to the Section Manager, the Agency may, in its sole discretion, waive the 45-day requirement. A waiver is only effective only if it is provided in writing by the Section Manager or their his or her designee.
- h) Notice Notification of a scheduled emissions test must be submitted to the Agency in writing and, directed to the Section Manager, at least 30 days before prior to the expected date of the emissions test, and, again five, 5 days before prior to the testing. Upon written request directed to the Section Manager, the Agency may, in its sole discretion, waive the 30-day requirement or the five-day 5-day requirement. A waiver is only effective only if it is provided in writing by the Section Manager or their his or her designee.
- i) If, after the 30-day 30-days' 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 Agency's Bureau of Air, Compliance Section as soon as practicable of the delay in the original test date, either by providing at least seven 7 days' notice of the rescheduled test date of the test or by arranging a new test date with the Agency by mutual agreement.
- j) Within Not later than 60 days after completing the completion of the test, and the owner or operator of a lead emission unit required to test under pursuant ~~to~~ subsection (a), (c), (d), or (e) must submit the test results of the test to the Agency, directed to the Section Manager.
- k) The owner or operator of a lead emission unit subject to the emissions testing requirements of this Section must conduct tests for lead emissions using 40 CFR 60, Subpart subpart A, and Appendix appendix A, Methods 1 (1 or 1A), 2 (2, 2A, 2C, or 2D), 3 (3 or 3A), and 4, and Method 12 or 29, as incorporated by reference in Section 226.120, or other alternative USEPA methods approved by the Agency.

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- 1) Each emissions test must ~~comply 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;
  - 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 ~~three~~ runs must be performed, and the arithmetic average of ~~three~~ valid runs must be used to determine compliance;
  - 4) The following procedure must be used to average emissions of ~~test~~ results for any compliance determination:
    - A) The average of the emissions test results must be determined by the arithmetic average of ~~three~~ valid test run results, as long as the test runs are conducted in ~~compliance conformance with the provisions of~~ an approved testing protocol as required by subsection (g).
    - B) ~~Despite~~ ~~Notwithstanding~~ subsection (1)(4)(A), if ~~an~~ the owner or operator of a lead emission unit elects to perform more than ~~three~~ test runs, then the average must be calculated based ~~on~~ ~~upon~~ the results of all valid test runs.
    - C) ~~Despite~~ ~~Notwithstanding~~ subsection (1)(4)(A), ~~if 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 owner's or operator's documentation of the existence of any of the circumstances ~~set forth~~ in this subsection (1)(4)(C) and verification by the Section Manager or ~~their~~ ~~his or her~~ 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;~~ ~~however,~~

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a minimum of ~~two~~2 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 ~~the~~an owner or operator of a lead emission unit does not meet the ~~averaging~~ criteria ~~in for averaging of~~ subsection (1)(4), 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 ~~either~~ test those emissions in ~~compliance accordance~~ with the requirements of this Section, or calculate the emissions by ~~means of~~ collecting area time-weighted average lead samples and analyzing those samples ~~using through the use of~~ OSHA Method 1006, as incorporated by reference in Section 226.120. If ~~the~~an owner or operator of a lead emission unit subject to this Part elects to calculate lead emissions from an uncontrolled stack, the calculations must be completed at least once every ~~five~~5 years.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.185 Recordkeeping and Reporting**

- a) ~~The~~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.
  - 1) Except as otherwise provided under this Part, copies of the records must be submitted by the owner or operator ~~of the source~~ to the Agency within 30 days after ~~receiving receipt of~~ a written request by the Agency.
  - 2) The owner or operator must keep and maintain all records required by this Section at the source for at least ~~five~~5 years ~~after from~~ the date the document is created and must make all records available to the Agency for inspection and copying upon request.

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- b) ~~The owner or operator must submit notice~~Notification of the initial startup of any new lead emission unit subject to this Part ~~must be submitted~~ to the Section Manager ~~within 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 ~~operating the operation~~ ~~of~~ any lead emission unit, any lead emission unit's control equipment, or any emissions monitoring equipment subject to this Part if 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 unit's control equipment. The 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 unit'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);
  - 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 the inspections, and the date and nature of any required cleaning activities to control dust;

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- 8) A log of all maintenance activities that could generate dust containing lead. The log must include the date of the maintenance activity, a description of the maintenance activity, and ~~the~~<sup>those</sup> measures implemented to minimize emissions of dust; and
- 9) A log of the operating 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).
- e) The owner or operator of a lead emission unit subject to this Part must maintain the CDMP required by Section 226.150(c). 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 the pressure changes and, if applicable, every alarm from the leak detection system, and any maintenance and repair activities performed ~~because as a result~~ of the investigation. The records must also include the date of each ~~of these activities~~<sup>saforementioned activity</sup>. Records must be maintained ~~in order~~ to demonstrate compliance with Section 226.150(d).
- 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.
- 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 unit's control equipment for lead and had the potential for emissions:
- 1) The date, time, and duration of the control equipment 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

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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 control equipment outage ~~of the control equipment~~; and
  - 4) A discussion of the date and nature of any preventative measures taken to avoid future outages~~outage~~.
- i) The owner or operator of a lead emission unit subject to this Part must maintain records demonstrating compliance with Section 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. The 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).
  - 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. 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).
  - l) 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.
  - m) The owner or operator of a lead emission unit subject to this Part must notify the Section Manager within five~~5~~ days after discovering~~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 notices~~notifications~~ must include a description of the deviations, a discussion of the possible cause of the deviations, and any corrective actions, ~~and any~~ preventative measures taken.

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- n) The owner or operator of a lead emission unit subject to this Part must submit semiannual reports to the Section Manager. The reports must include all monitoring reports summarizing monitoring as required by this Part ~~and, 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 must ~~shall~~ submit the monitoring report by July 31 of that year. For the July through December monitoring period, the owner or operator must shall submit the monitoring report by January 31 of the following year. All reports must be certified by a responsible official that the information submitted is complete, true, and accurate.

(Source: Amended at 50 Ill. Reg \_\_\_\_\_, effective \_\_\_\_\_)

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- 1) Heading of the Part: Standards and Limitations for Certain Sources of Lead
- 2) Code Citation: 35 Ill. Adm. Code 226
- 3) 

| <u>Section Numbers</u> : | <u>Proposed Actions</u> : |
|--------------------------|---------------------------|
| 226.100                  | Amendment                 |
| 226.105                  | Amendment                 |
| 226.110                  | Amendment                 |
| 226.115                  | Amendment                 |
| 226.125                  | Amendment                 |
| 226.130                  | Amendment                 |
| 226.140                  | Amendment                 |
| 226.150                  | Amendment                 |
| 226.155                  | Amendment                 |
| 226.160                  | Amendment                 |
| 226.170                  | Amendment                 |
| 226.175                  | Amendment                 |
| 226.185                  | Amendment                 |
- 4) Statutory Authority: Implementing Section 10 and authorized by Sections 27, 28.2, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28.2, 28.5].
- 5) A Complete Description of the Subjects and Issues Involved: Subtitle B of the Board's rules addresses air pollution and includes permitting provisions, emissions standards and limitations, and monitoring requirements. Part 226 sets standards and limitations for emissions of lead from stationary sources.

This rulemaking originated with a proposal by the Illinois Environmental Protection Agency (IEPA). IEPA cited Executive Order 2016-13, which directed agencies to review their rules to identify provisions that are outdated, repetitive, confusing, or unnecessary and then revise or repeal them as appropriate. At that time, the Board had begun its own review with the same general purposes.

The Board throughout Part 226 proposed additional numerous revisions, including matters of capitalization, punctuation, abbreviation, spelling, and concision. The Board also proposed amendments such as changing passive to active voice, avoiding unnecessary nominalizations, and using "must" to be more clearly mandatory.

The Board intends that each of its proposed revisions is non-substantive in nature.

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- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: No
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Do these proposed amendments contain incorporations by reference? No
- 10) Are there any proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a state mandate as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least 45 days after the date of publication in the *Illinois Register*. Public comments should refer to Docket R18-21 and be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at <https://pcb.illinois.gov/>. Public comments may be addressed to:

Clerk's Office  
Illinois Pollution Control Board  
60 East Van Buren Street, Suite 11-500  
Chicago, IL 60605

312-814-3461  
[don.brown@illinois.gov](mailto:don.brown@illinois.gov)

Interested persons may download copies of the Board's opinions and orders in R18-21 from the Board's Web site at <https://pcb.illinois.gov/> and may also request copies by calling the Clerk's office at 312-814-3620.

- 13) Initial Regulatory Flexibility Analysis:
- A) Description of the type of small businesses, not for profit corporations or small municipalities subject to the proposed rule amendment: None
- B) Description of the proposed reporting, bookkeeping and other procedures required

## POLLUTION CONTROL BOARD

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for compliance with the rule amendment: None

- C) Description of the types of professional skills necessary for compliance: None
- 14) Small Business Economic Impact Analysis: Because the Board proposes non-substantive amendments as described above in (5), it does not reasonably foresee adverse economic impacts such as loss of revenue or increased expenses on small businesses.
- 15) Regulatory Agenda on which this rulemaking was summarized: This rule was not included on either of the two most recent agendas, although it had been included on the July 2018 agenda (42 Ill. Reg. 13328 (July 6, 2018)).
- 16) Any other information or justification for the proposed amendment that the agency believes would be helpful to the public regarding the proposed amendment. For example, a discussion or analysis of the benefits the proposed amendment is projected to have on the Illinois public, consumers, investors or other similar groups. See (5).

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

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 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. 9521, effective April 21, 2014; amended in R18-21 at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**Section 226.100 Severability**

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

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.105 Scope and Organization**

43 a) This Part sets standards and limitations for emissions of lead from stationary  
44 sources.

45  
46 b) ~~Despite~~Notwithstanding the provisions of this Part, the air quality standards  
47 ~~contained~~ in 35 Ill. Adm. Code 243 must not be violated.

48  
49 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
50

51 **Section 226.110 Abbreviations and Acronyms**

52  
53 This Part uses the~~The~~ following abbreviations and acronyms ~~are used in this Part~~:

|    |               |   |
|----|---------------|---|
| 54 |               |   |
| 55 | Act           | Illinois Environmental Protection Act, 415 ILCS 5 |
| 56 | CPMP          | continuous parametric monitoring plan             |
| 57 | CDMP          | control device monitoring plan                    |
| 58 | fpm           | feet per minute                                   |
| 59 | <del>FV</del> | <del>facial velocity</del>                        |
| 60 | gr/dscf       | grains per dry standard cubic foot                |
| 61 | Hg            | mercury   |
| 62 | m/hr          | meters per hour                                   |
| 63 | mg/l          | milligrams per liter                              |
| 64 | OSHA          | Occupational Safety & Health Administration       |
| 65 | Pb            | lead  |
| 66 | USEPA         | United States Environmental Protection Agency     |

67  
68 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
69

70 **Section 226.115 Definitions**

71  
72 The following definitions apply for ~~the purposes of~~ this Part. Unless otherwise defined in this  
73 Section or a different meaning for a term is clear from its context, all terms not defined in this  
74 Part ~~shall~~ have the definitions~~meaning given them~~ in the Act and in 35 Ill. Adm. Code 211.

75  
76 "Agency" means the Illinois Environmental ~~Protection~~protection Agency.

77  
78 "Agglomerating furnace" means a furnace used to melt into a solid mass flue dust  
79 that is collected from a baghouse.

80  
81 "Alloy" means a mixture or metallic solid solution composed of two<sup>2</sup> or more  
82 elements.

83  
84 "Alloying" means the process of combining or mixing metals or other substances  
85 in molten form to produce~~for the purpose of producing~~ a particular alloy.

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"Alloying and refining kettle" means an open-top vessel that is heated from below and contains molten lead to alloy and ~~refine~~refining the lead. 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.

"Dross" means solid impurities removed from molten lead in lead kettles.

"Dryer" 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, 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).

"Lead-bearing scrap" or "lead-containing material" or "lead-containing metal" or "lead-containing wastes" or "lead 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.

"Lead emission unit" 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 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~~ to melt ~~for the purpose of melting~~ refined lead.

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"Lead tap" means the pouring hole ~~through~~<sup>through</sup> 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~~<sup>in</sup> order to detect leaks in 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. 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 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. 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 ~~or enclosures~~ and is not connected to a duct in which a fan is installed.

"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. ~~These;~~<sup>These</sup> 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 area" means an indoor space at a nonferrous metal production facility where lead emission units are operated.

172  
 173 "Quenching" means the process of cooling hot metal other than lead shot by direct  
 174 contact of the metal with cooling water or other liquids.  
 175  
 176 "Refined lead" means a material composed of lead alloys of a specified  
 177 composition from an onsite or offsite lead refining operation.  
 178  
 179 "Refining" means the process of removing impurities or oxides from a metal or  
 180 metal alloy.  
 181  
 182 "Reverberatory furnace" means a refractory-lined furnace that uses one or more  
 183 flames to heat the walls and roof of the furnace and lead-bearing scrap to such a  
 184 temperature that lead compounds are chemically reduced to elemental lead metal.  
 185  
 186 "Rotary furnace" or "rotary reverberatory furnace" means a furnace consisting of  
 187 a refractory-lined chamber that rotates about a horizontal axis and ~~that~~ uses one or  
 188 more flames to heat the walls of the furnace and lead-bearing scrap to such a  
 189 temperature that lead compounds are chemically reduced to elemental lead metal.  
 190  
 191 "Section Manager" means Manager of Agency's Bureau of Air, Compliance  
 192 Section.  
 193  
 194 "Slag tap" means the pouring hole through which slag is removed from a kettle or  
 195 furnace.  
 196  
 197 "Tap" means the pouring hole through which molten metal flows from a kettle or  
 198 furnace.  
 199  
 200 "Tapping" means opening the tap.  
 201  
 202 "Total enclosure" means a complete enclosure with walls and a roof designed to  
 203 minimize exposure to the elements and ~~to~~ maximize containment of emissions  
 204 from one or more lead emission units. Under this definition, a "total enclosure"  
 205 must meet and that meets the following performance standards: either the average  
 206 facial velocity of air flowing into the enclosure through all natural draft openings  
 207 during operation of lead emission units in each total enclosure in any one-hour  
 208 ~~hour~~ period must be at least 200 fpm (3,600 m/hr), or an average negative  
 209 pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside  
 210 the enclosure over any one-hour~~one hour~~ period.  
 211  
 212 "Valid test run" means a completed test run conducted in compliance~~accordance~~  
 213 with a testing protocol submitted to the Agency, as required under Section  
 214 226.175(f).

215  
216 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
217

218 **Section 226.125 Applicability**  
219

220 ~~This~~The provisions of this Part applies apply to all nonferrous metal production facilities located  
221 in the following areas in Illinois designated nonattainment for the 2008 lead National Ambient  
222 Air Quality Standards by USEPA:  
223

- 224 a) Part of Madison County, specifically the area bounded by Granite City Township  
225 and Venice Township, 75 FR 71033-01 (November 22, 2010), ~~as~~ incorporated by  
226 reference in Section 226.120; and  
227
- 228 b) Part of Cook County, specifically, the area bounded by Damen Avenue on the  
229 west, Roosevelt Road on the north, the Dan Ryan Expressway on the east, and the  
230 Stevenson Expressway on the south, 76 FR 72097-01 (November 22, 2011), ~~as~~  
231 incorporated by reference in Section 226.120.  
232

233 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
234

235 **Section 226.130 Compliance Date**  
236

- 237 a) ~~The owner or operator of~~For an existing lead emission unit ~~that is~~ subject to this  
238 Part ~~must comply, compliance~~ with these requirements ~~by an owner or operator of~~  
239 ~~the unit is required~~ by ~~no later than~~ January 1, 2015.  
240
- 241 b) ~~The owner or operator of~~For a new lead emission unit ~~that is~~ subject to this Part  
242 ~~must comply, compliance~~ with these requirements ~~by an owner or operator of the~~  
243 ~~unit is required~~ by the date on which the unit initially begins operating operation.  
244

245 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
246

247 **Section 226.140 Lead Emission Standards**  
248

- 249 a) For all alloying and refining kettles located at a source subject to this Part ~~(see~~  
250 ~~Section 226.125)~~, each lead emission unit must be:  
251
- 252 1) Equipped with a capture system (including covers, hoods, ducts, and fans)  
253 that is vented to a control device for lead particulates. The emissions of  
254 lead into the atmosphere from each control device must not exceed 0.0010  
255 gr/dscf; and  
256

- 257 2) Operated in a total enclosure ~~underpursuant to~~ Section 226.155. The  
 258 entire gas stream collected by each total enclosure must ~~only~~ be ducted to  
 259 a control device, ~~and such that~~ the emissions of lead into the atmosphere  
 260 from each control device must not exceed 0.00010 gr/dscf.  
 261
- 262 b) For reverberatory furnaces or rotary furnaces located at a source subject to this  
 263 Part ~~(see Section 226.125)~~, each lead emission unit must be:  
 264
- 265 1) Equipped with a capture system (including hoods, ducts, and fans) that is  
 266 vented to a control device for lead particulates. The emissions of lead into  
 267 the atmosphere from each control device must not exceed 0.00010 gr/dscf;  
 268 and  
 269
- 270 2) Operated in a total enclosure ~~underpursuant to~~ Section 226.155. The  
 271 entire gas stream collected by each total enclosure must ~~only~~ be ducted to  
 272 a control device, ~~and such that~~ the emissions of lead into the atmosphere  
 273 from each control device must not exceed 0.00010 gr/dscf.  
 274
- 275 c) ~~Despite Notwithstanding~~ the provisions for total ~~enclosures~~ ~~enclosure~~ in  
 276 subsections (a) and (b), any emissions of lead exiting an uncontrolled stack during  
 277 quenching or mold cooling operations must not exceed 0.00010 gr/dscf.  
 278 Quenching operations ~~must shall~~ be limited to no more than ~~six~~6 hours per  
 279 associated unit in any ~~24-hour~~24 hour period.  
 280
- 281 d) For induction furnaces located at a source subject to this Part ~~(see Section~~  
 282 ~~226.125)~~, each lead emission unit must be equipped with a capture system  
 283 (including hoods, ducts, and fans) that is vented to a control device for lead  
 284 particulates. The emissions of lead into the atmosphere from each control device  
 285 must not exceed 0.000010 gr/dscf.  
 286
- 287 e) For all other furnaces, lead kettles, or any other operation subject to this Part ~~(see~~  
 288 ~~Section 226.125)~~, but not subject to subsection (a), (b), or (d), each lead emission  
 289 unit must be equipped with a capture system (including ducts, fans, and hoods or  
 290 covers) that is vented to a control device for lead particulates. The emissions of  
 291 lead into the atmosphere from each control device must not exceed 0.00010  
 292 gr/dscf.  
 293
- 294 f) Any source subject to the requirements of this Part ~~(see Section 226.125)~~ must  
 295 operate ~~underpursuant to~~ a lifetime operating permit, a federally enforceable State  
 296 operating permit, a Clean Air Act Permit Program permit, or conditions within a  
 297 construction permit.  
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299 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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**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. 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).
  - 2) Data must be recorded at least once every ~~eight~~ hours during operation of any lead emission unit subject to Section 226.140(d) or (e).
  - 3) If the control device used to control lead emission units subject to Section 226.140(a) or (b) is the same as the control device used to control other lead emission units subject to Section 226.140(d) or (e), the requirements in subsection (a)(1) apply to the control device.
- b) The owner or operator of a lead emission unit subject to this Part ~~that uses and using~~ a baghouse or other filter system to control units subject to the total enclosure requirements of Section 226.155 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. The CDMP 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 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 ~~at all times~~ operate and maintain each pressure differential system and each leak detection system according to the CDMP ~~at all times~~.

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.155 Total Enclosure**

- a) ~~The 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.
  - 5) Areas where dross, dust from fabric filters, sweepings, or used fabric filters are handled, except for areas where all ~~these such~~ materials are in closed, leak-proof containers at all times.
  - 6) Material handling areas for any lead-containing materials. The following areas are exempt from the total enclosure requirements unless the areas ~~listed~~ also contain operations ~~listed~~ in subsections (a)(1) through (5):
    - A) ~~Areas~~ Those areas where refined lead is melted and cast;
    - B) ~~Areas~~ Those areas where spent refractory brick is stored in closed containers ~~before~~ prior to and after crushing;
    - C) ~~Areas~~ Those areas where ladle repairs take place; ~~and~~ or
    - D) ~~Areas~~ 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) during all sorting and handling activities, and if the scrap is stored in closed containers at all other times.

- b) ~~The 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.
- 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) in the total enclosure is operating. 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~~ ~~one hour~~ period must be at least 200 fpm (3,600 m/hr). ~~Alternatively, an average~~ negative pressure value of 0.007 inches of water (0.013 mm Hg) must be maintained inside the enclosure over any ~~one-hour~~ ~~one hour~~ period.
- d) The total enclosure required by subsection (a) 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 ~~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 those openings, except that the total area of all natural draft openings must not exceed ~~5%~~ ~~5 percent~~ of the surface area of the total enclosure's walls, floor, and ceiling.

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.160 Operational Measurement for Total Enclosure**

- a) ~~The 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) ~~The 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 ~~and~~ while any lead emission unit applicable to the operation ~~listed~~ in Section 226.155(a) is operating. Values for Q<sub>o</sub> and Q<sub>l</sub> must be obtained by ~~means of testing~~ ~~underpursuant to~~ subsection (b)(1) or monitoring ~~underpursuant to~~ subsection (b)(2):

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

Where:

- Q<sub>0</sub> = the sum of volumetric flow from all gas streams exiting the total enclosure through the control device.
- Q<sub>I</sub> = 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<sub>n</sub> = total area of all natural draft openings in the total enclosure.

- 1) ~~The An~~ owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 must conduct testing to determine the values for Q<sub>0</sub> and Q<sub>I</sub> at the same time as any emissions testing is conducted ~~underpursuant to~~ Section 226.175; or
- 2) ~~The 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.

c) As an alternative to compliance with ~~the requirements of~~ subsection (b), ~~the an~~ owner or operator of a lead emission unit subject to the total enclosure requirement of Section 226.155 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). This instrumentation must be located and designed to operate in ~~compliance accordance~~ with all ~~of~~ the requirements of subsections (c)(1) through (6):

- 1) ~~The An~~ owner or operator of a total enclosure ~~with 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 ~~three~~ walls in each total enclosure:
  - A) The leeward wall;

- 463 B) The windward wall; ~~and-~~  
 464  
 465 C) An exterior wall that connects the leeward and windward ~~walls~~  
 466 at a location defined by the intersection of a perpendicular line  
 467 between a point on the connecting wall and a point on its furthest  
 468 opposite exterior wall, and intersecting within plus or minus 10  
 469 meters of the midpoint of a straight line between the ~~two~~ other  
 470 monitors specified. The midpoint monitor must not be located on  
 471 the same wall as either of the other ~~two~~ monitors.  
 472  
 473 2) ~~The An~~ owner or operator of a total enclosure ~~with that has~~ a total ground  
 474 surface area of less than 10,000 square feet must install and maintain a  
 475 minimum of one building digital differential pressure monitoring system  
 476 at the leeward wall of each total enclosure.  
 477  
 478 3) Each digital differential pressure monitoring system must be certified by  
 479 the manufacturer to be capable of measuring and displaying negative  
 480 pressure in the range of 0.001 to 0.11 inches of water (0.002 to 0.2 mm  
 481 Hg), with a minimum accuracy of plus or minus 0.001 inches of water  
 482 (0.002 mm Hg).  
 483  
 484 4) Each digital differential pressure monitoring system must be equipped  
 485 with a continuous recorder.  
 486  
 487 5) Each digital differential pressure monitoring system must be calibrated in  
 488 ~~compliance accordance~~ with manufacturer's specifications at least once  
 489 every 12 calendar months or more frequently if recommended by the  
 490 manufacturer.  
 491  
 492 6) Each digital differential pressure monitoring system must be equipped  
 493 with a backup, uninterruptible power supply to ensure continuous  
 494 operation of the monitoring system during a power outage.  
 495  
 496 d) ~~The An~~ owner or operator of a lead emission unit subject to the total enclosure  
 497 requirement of Section 226.155 must develop and maintain a Continuous  
 498 Parametric Monitoring Plan containing the information required in subsection  
 499 (d)(1), (2), or (3). The CPMP must be submitted for review and approval to the  
 500 Section Manager by the compliance date ~~specified~~ in Section 226.130 and within  
 501 30 days after any changes are made to the plan. The CPMP must be amended by  
 502 the owner or operator of a lead emission unit subject to this Part as necessary to  
 503 ensure that it is kept current. The owner or operator of a lead emission unit  
 504 subject to this Part must conduct monitoring in ~~compliance accordance~~ with the  
 505 CPMP at all times.

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- 1) 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 ~~underlisted 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 ~~indicating 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) ~~and, as well as~~ the recording frequency and methodology.
  - D) The CPMP must specify the information to be reported to the Agency 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 semiannual reports required by Section 226.185(n) ~~and, as well as~~ the reporting frequency.
  
- 2) If electing to comply with the facial velocity requirement in Section 226.155(c) using the total enclosure monitoring method in subsection (b)(2), the CPMP must contain the information required by subsections (d)(2)(A) through (C).
  - 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

- 549 makeup air duct. These limits or ranges must represent the  
 550 conditions ~~indicating~~~~indicative of~~ proper operation and  
 551 maintenance of the facial velocity through all natural draft  
 552 openings during operation of lead emission units in each total  
 553 enclosure.
- 554
- 555 B) The CPMP must specify data to be recorded to demonstrate  
 556 compliance with the facial velocity requirements in Section  
 557 226.155(c) ~~and, as well as~~ the recording frequency and  
 558 methodology.
- 559
- 560 C) The CPMP must specify the information to be reported to the  
 561 Agency to demonstrate compliance with the facial velocity  
 562 requirements in Section 226.155(c). This information must include,  
 563 ~~but is not limited to,~~ all information to be submitted as part of the  
 564 semiannual reports required by Section 226.185(n) ~~and, as well as~~  
 565 the reporting frequency.
- 566
- 567 3) If electing to comply with the average differential pressure requirement in  
 568 Section 226.155(c) using the total enclosure measurement method in  
 569 subsection (c), the CPMP must contain the information required by  
 570 subsections (d)(3)(A) through (C).
- 571
- 572 A) The CPMP must identify the locations and design of each  
 573 differential pressure monitoring instrumentation demonstrating  
 574 compliance with ~~the requirements of~~ subsection (c) to ensure that  
 575 the average differential pressure is measured properly, explain why  
 576 those locations are appropriate for demonstrating ongoing  
 577 compliance, and provide a schedule for instrumentation  
 578 calibration.
- 579
- 580 B) The CPMP must specify data to be recorded to demonstrate  
 581 compliance with the average differential pressure requirements in  
 582 Section 226.155(c) ~~and, as well as~~ the recording frequency and  
 583 methodology.
- 584
- 585 C) The CPMP must specify the information to be reported to the  
 586 Agency to demonstrate compliance with the average differential  
 587 pressure requirements in Section 226.155(c). This information  
 588 must include, ~~but is not limited to,~~ all information to be submitted  
 589 as part of the semiannual reports required by Section 226.185(n)  
 590 ~~and, as well as~~ the reporting frequency.
- 591

592 e) The owner or operator of a lead emission unit subject to this Part electing to  
 593 change the total enclosure measurement method for an existing lead emission unit  
 594 subject to the total enclosure requirements of Section 226.155 must notify the  
 595 Section Manager of the measurement method by which the owner or operator will  
 596 comply with the requirements of this Section. The ~~noticenotification~~ must include  
 597 an updated CPMP complying with the appropriate requirements for the new  
 598 measurement method and must occur at least 30 days ~~beforeprior to~~ changing the  
 599 method.

600  
 601 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
 602

603 **Section 226.170 Lead Fugitive Dust Operating Program**

604  
 605 a) ~~TheAn~~ owner or operator of a lead emission unit subject to this Part must operate  
 606 at all times according to a lead fugitive dust operating program that describes in  
 607 detail the measures ~~that are~~ implemented to minimize lead fugitive dust emissions  
 608 from the areas, activities, or events ~~listed~~ in subsections (a)(1) through (7):  
 609

- 610 1) Source roadways;
- 611
- 612 2) Source buildings housing lead emission units;
- 613
- 614 3) Battery storage areas;
- 615
- 616 4) Equipment maintenance for equipment used ~~to processin connection with~~  
 617 ~~the processing~~ or ~~handle~~ handling of lead-containing materials;
- 618
- 619 5) Material storage and material handling areas for lead-containing materials,  
 620 excluding areas where only finished products are stored or handled;
- 621
- 622 6) Spillage of lead-containing material; and
- 623
- 624 7) Sorting or handling of lead-bearing scrap subject to Section  
 625 226.155(a)(6)(D).
- 626

627 b) ~~TheAn~~ owner or operator of a lead emission unit subject to this Part must develop  
 628 and maintain a lead fugitive dust operating program. The lead fugitive dust  
 629 operating program must be submitted for review and approval to the Section  
 630 Manager by the compliance date ~~specified~~ in Section 226.130 and within 30 days  
 631 after any changes are made to the program. The lead fugitive dust operating  
 632 program must be amended by the owner or operator of a lead emission unit  
 633 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).
  - 1) 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 following frequencies:
    - A) Cleanings must be performed at least once every ~~24-hour~~24-hour period that a lead emission unit in an associated production area is operating and immediately before ~~terminating~~termination of negative pressure in any total enclosure required by Section 226.155 for all production areas.
    - B) Cleanings of scrap sorting and handling areas subject to Section 226.155(a)(6)(D) 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 ~~seven~~7 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 ~~within~~no later than one hour after ~~detecting~~detection of any accidental release of dust containing lead.
  - 3) All areas within the property boundaries subject to vehicle traffic must be paved and must be cleaned at least once every ~~seven~~7 calendar days to remove dust or other accumulated material from paved areas within the property boundaries. The 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 ~~of these methods~~thereof. Limited access and limited use

677 roadways, such as unpaved roads to remote locations on the property, are  
 678 exempt from this requirement if they are used infrequently (no more than  
 679 one round trip per day).  
 680

681 4) Broken batteries must ~~only~~ be stored only in a total enclosure. Any  
 682 battery storage areas that are not located in a total enclosure must be  
 683 inspected at least once every seven~~7~~ calendar days. Within 72 hours after  
 684 identification, any broken batteries must be moved to a total enclosure,  
 685 ~~and~~ all residue from broken batteries must be collected, and the area must  
 686 be cleaned.  
 687

688 5) All maintenance activities that could generate dust containing lead must be  
 689 performed in a manner that minimizes emissions of dust, including using;  
 690 ~~but not limited to, the use of~~ a vacuum cleaner equipped with a filter rated  
 691 by the manufacturer to achieve at least 99.97%~~percent~~ capture efficiency  
 692 for 0.3 micron particles, or the use of wet suppression sufficient to prevent  
 693 dust formation.  
 694

695 6) All collected dross and dust must be stored and transported within closed  
 696 conveyor and storage systems or in closed, leak-proof containers. All  
 697 other lead-containing material must be contained and covered for transport  
 698 outside of a total enclosure in a manner that minimizes spillage or dust  
 699 formation. The transport outside of a total enclosure of scrap metal, spent  
 700 refractory brick, ladles, and finished product must be addressed in the lead  
 701 fugitive dust operating program ~~so as~~ to minimize the spillage of lead-  
 702 containing material or the formation of dust.  
 703

704 7) Replacement of control equipment filter bags must be conducted under~~in~~  
 705 ~~the manner specified in~~ this subsection (c)(7). All vacuuming  
 706 underreferenced in this subsection (c)(7) must be performed by a vacuum  
 707 cleaner equipped with a filter rated by the manufacturer to achieve at least  
 708 99.97%~~percent~~ capture efficiency for 0.3 micron particles.;

709 A) Used filter bags must be rolled up~~rolled-up~~ and placed into sealed  
 710 plastic bags or barrels before~~prior to~~ removal from the filter unit;  
 711

712 B) The filter unit floors, the dirty and clean plenum side, must be  
 713 vacuumed of dust residues immediately after~~following~~ removal  
 714 activity;  
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716 C) The ground surface in and around the filter unit must be vacuumed  
 717 immediately after~~following~~ the complete installation of new filter  
 718 bags to remove any ~~and all~~ dust residue; and  
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D) ~~If in those instances in which~~ filter bag replacement requires more than one operational day, the requirements of subsection (c)(7)(C) must be completed just ~~before~~<sup>prior to</sup> the end of each operational day.

8) Measures, including, ~~but not limited to,~~ those ~~specified~~ in subsections (c)(1) through (7), must be implemented to minimize ~~the tracking of~~ dust containing lead out of the total enclosure by personnel or by equipment used ~~to handle~~<sup>in handling</sup> the material.

- d) All grounds on any source subject to this Part must be paved or oiled, 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.

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.175 Emissions Testing**

a) ~~The owner or operator of~~ an existing lead emission unit ~~that is~~ subject to this Part ~~must conduct~~; testing of lead emissions at control devices required by Section 226.140 ~~must be conducted~~ by January 1, 2015.

b) Testing Completed ~~Before~~<sup>Prior to</sup> January 1, 2015

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 ~~before~~<sup>prior to</sup> January 1, 2015, is not required to retest ~~under~~<sup>pursuant to</sup> subsection (a) if:

A) ~~The~~<sup>On or after January 1, 2011,</sup> 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 ~~on or after January 1, 2011~~;

B) The owner or operator submitted the ~~test~~<sup>test</sup> results ~~of the tests~~ to the Agency, and the tests were not rejected by the Agency;

- 762 C) The same capture system and control ~~device or~~ devices tested  
 763 under subsection (b)(1)(A) are still being used by the subject lead  
 764 emission unit; and  
 765
- 766 D) The owner or operator complies with all recordkeeping and  
 767 reporting requirements in Section 226.185(i).  
 768
- 769 2) Nothing in this subsection (b), however, ~~limits shall limit~~ the ability of the  
 770 Agency or the USEPA to require that the owner or operator perform  
 771 testing ~~underpursuant to~~ subsection (e).  
 772
- 773 c) ~~The owner or operator of~~ a new lead emission unit ~~that is~~ subject to this Part  
 774 ~~must conduct~~; testing of lead emissions at control devices required by Section  
 775 226.140 ~~must be conducted~~ within 60 days after achieving maximum operating  
 776 rate, but ~~within no later than~~ 180 days after initial startup of the new lead emission  
 777 unit in ~~compliance~~ ~~accordance~~ with this Section.  
 778
- 779 d) The owner or operator of a lead emission unit subject to this Part must  
 780 ~~conduct have subsequent~~ emissions tests ~~conducted~~ at least once every ~~five~~ years  
 781 ~~after initial testing~~. The owner or operator of a lead emission unit that tested  
 782 ~~before prior to~~ January 1, 2015, in ~~compliance~~ ~~accordance~~ with subsection (b) must  
 783 use the original test date as the beginning of this ~~five-year~~ ~~year~~ period.  
 784
- 785 e) When, as determined by the Agency or USEPA, it is necessary to conduct testing  
 786 to demonstrate compliance with Section 226.140, ~~an~~ the owner or operator of a  
 787 lead emission unit subject to this Part must, at ~~its his or her~~ own expense, ~~conduct~~  
 788 ~~testing have the test conducted~~ in ~~compliance~~ ~~accordance~~ with the applicable test  
 789 methods and procedures ~~specified~~ in this Section within 90 days after  
 790 ~~receiving receipt of~~ a notice to test from the Agency or USEPA, unless that notice  
 791 specifies an alternative testing deadline.  
 792
- 793 f) The owner or operator of a lead emission unit subject to the emissions testing  
 794 requirements of this Section must conduct all tests for lead required by  
 795 subsections (a) through (e) in ~~compliance~~ ~~accordance~~ with subsections (g) through  
 796 (m).  
 797
- 798 g) The owner or operator of a lead emission unit required to test ~~underpursuant to~~  
 799 subsection (a), (c), (d), or (e) must submit a testing protocol as described in  
 800 USEPA's Emission Measurement Center Guideline Document (GD-042), ~~as~~  
 801 incorporated by reference in Section 226.120, to the Agency ~~and~~; directed to the  
 802 Section Manager; at least 45 days ~~before prior to~~ a scheduled emissions test. Upon  
 803 written request directed to the Section Manager, the Agency may, in its sole

discretion, waive the 45-day requirement. A waiver is ~~only~~ effective only if it is provided in writing by the Section Manager or ~~their~~his or her designee.

- h) ~~Notice~~Notification of a scheduled emissions test must be submitted to the Agency in writing ~~and~~, directed to the Section Manager, at least 30 days ~~before~~prior to the expected date of the emissions test, and, again ~~five~~, 5 days ~~before~~prior to the testing. Upon written request directed to the Section Manager, the Agency may, in its sole discretion, waive the 30-day requirement or the ~~five-day~~5-day requirement. A waiver is ~~only~~ effective only if it is provided in writing by the Section Manager or ~~their~~his or her designee.
- i) If, after the ~~30-day~~30-days' 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 Agency's Bureau of Air, Compliance Section as soon as practicable of the delay in the original test date, either by providing at least ~~seven~~7 days' notice of the rescheduled ~~test~~ date of the test or by arranging a new test date with the Agency by mutual agreement.
- j) ~~Within~~Not later than 60 days after ~~completing~~the completion of the test, ~~an~~the owner or operator of a lead emission unit required to test ~~under~~pursuant to subsection (a), (c), (d), or (e) must submit the ~~results of the test~~ results to the Agency, directed to the Section Manager.
- k) The owner or operator of a lead emission unit subject to the emissions testing requirements of this Section must conduct tests for lead emissions using 40 CFR 60, ~~Subpart~~subpart A, and ~~Appendix~~appendix A, Methods 1 (1 or 1A), 2 (2, 2A, 2C, or 2D), 3 (3 or 3A), and 4, and Method 12 or 29, as incorporated by reference in Section 226.120, or other alternative USEPA methods approved by the Agency.
- l) Each emissions test must ~~comply~~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;
  - 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 (l), at least ~~three~~3 runs must be performed, and the arithmetic average of ~~three~~3 valid runs must be used to determine compliance;

- 847 4) The following procedure must be used to average emissions of ~~test~~ tests  
848 results for any compliance determination:  
849
- 850 A) The average of the emissions test results must be determined by  
851 the arithmetic average of ~~three~~ 3 valid test run results, as long as the  
852 test runs are conducted in ~~compliance~~ ~~conformance~~ with ~~the~~  
853 ~~provisions of~~ an approved testing protocol as required by  
854 subsection (g).  
855
- 856 B) ~~Despite~~ ~~Notwithstanding~~ subsection (l)(4)(A), if ~~an~~ the owner or  
857 operator of a lead emission unit elects to perform more than ~~three~~ 3  
858 test runs, then the average must be calculated based ~~on~~ ~~upon~~ the  
859 results of all valid test runs.  
860
- 861 C) ~~Despite~~ ~~Notwithstanding~~ subsection (l)(4)(A), ~~if in the event that~~ a  
862 sample is accidentally lost or conditions occur in which one of the  
863 test runs must be discontinued because of forced shutdown, failure  
864 of an irreplaceable portion of the sample train, extreme  
865 meteorological conditions, malfunction, or other dissimilar or non-  
866 representative circumstances, upon the owner's or operator's  
867 documentation of the existence of any of the circumstances ~~set~~  
868 ~~forth~~ in this subsection (l)(4)(C) and verification by the Section  
869 Manager or ~~their~~ ~~his or her~~ designee that the conditions existed,  
870 compliance may be determined by using the arithmetic average of  
871 the test results of all remaining valid test runs. ~~However;~~ ~~however~~,  
872 a minimum of ~~two~~ 2 valid test runs is required to determine  
873 compliance;  
874
- 875 5) Each test for lead emissions must be conducted during conditions  
876 representative of maximum lead emissions; and  
877
- 878 6) If ~~the~~ an owner or operator of a lead emission unit does not meet the  
879 ~~averaging~~ criteria ~~in~~ ~~for averaging of~~ subsection (l)(4), then each individual  
880 valid test run must meet the applicable limitation ~~in order~~ to demonstrate  
881 compliance.  
882
- 883 m) The owner or operator of any lead emission unit for which emissions are vented  
884 from an uncontrolled stack to the atmosphere must ~~either~~ test those emissions in  
885 ~~compliance~~ ~~accordance~~ with the requirements of this Section, or calculate the  
886 emissions by ~~means of~~ collecting area time-weighted average lead samples and  
887 analyzing those samples ~~using~~ ~~through the use of~~ OSHA Method 1006, as  
888 incorporated by reference in Section 226.120. If ~~the~~ an owner or operator of a lead  
889 emission unit subject to this Part elects to calculate lead emissions from an

uncontrolled stack, the calculations must be completed at least once every five years.

(Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 226.185 Recordkeeping and Reporting**

- a) ~~The 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.
  - 1) Except as otherwise provided under this Part, copies of the records must be submitted by the owner or operator ~~of the source~~ to the Agency within 30 days after ~~receiving receipt of~~ a written request by the Agency.
  - 2) The owner or operator must keep and maintain all records required by this Section at the source for at least five years ~~after from~~ the date the document is created and must make all records available to the Agency for inspection and copying upon request.
- b) ~~The owner or operator must submit notice~~Notification of the initial startup of any new lead emission unit subject to this Part ~~must be submitted~~ to the Section Manager ~~within 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 ~~operating the operation of~~ any lead emission unit, any lead emission unit's control equipment, or any emissions monitoring equipment subject to this Part if 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 unit's control equipment. The records must

- 933 document the performance of the inspection, including the date of the  
 934 inspection, and the observed condition and operation of the control  
 935 equipment. The records must also include the date and nature of the  
 936 cleaning and the maintenance and repair activities performed on the lead  
 937 emission unit's control equipment;  
 938  
 939 5) Records, including the date and nature of all pavement cleanings, and any  
 940 reason for not cleaning pavement (e.g., equipment breakdown);  
 941  
 942 6) The date, time, and quantity of any spillage of dust containing lead. The  
 943 records must include the date, time, and nature of the cleaning activity in  
 944 response to the spill;  
 945  
 946 7) A log of all battery storage inspection activities, including the date of the  
 947 inspection, a description of any broken batteries discovered during the  
 948 inspections, and the date and nature of any required cleaning activities to  
 949 control dust;  
 950  
 951 8) A log of all maintenance activities that could generate dust containing  
 952 lead. The log must include the date of the maintenance activity, a  
 953 description of the maintenance activity, and ~~the~~these measures  
 954 implemented to minimize emissions of dust; and  
 955  
 956 9) A log of the operating hours ~~of operation~~ for all quenching operations.  
 957  
 958 d) The owner or operator of a lead emission unit subject to this Part must maintain  
 959 records to demonstrate compliance with Section 226.150(a) and (b).  
 960  
 961 e) The owner or operator of a lead emission unit subject to this Part must maintain  
 962 the CDMP required by Section 226.150(c). Records must be maintained  
 963 demonstrating compliance with the CDMP.  
 964  
 965 f) The owner or operator of a lead emission unit subject to this Part must maintain  
 966 records of changes in pressure that could indicate a leak or other problem and, if  
 967 applicable, every alarm from the leak detection system. A log must be maintained  
 968 of all investigations into the cause of the pressure changes and, if applicable,  
 969 every alarm from the leak detection system, and any maintenance and repair  
 970 activities performed ~~because as a result~~ of the investigation. The records must also  
 971 include the date of each ~~of these activities~~ saforementioned activity. Records must  
 972 be maintained ~~in order~~ to demonstrate compliance with Section 226.150(d).  
 973

- 974 g) The owner or operator of a lead emission unit subject to this Part must maintain  
 975 records demonstrating compliance with the lead fugitive dust operating program  
 976 and with the activities required by Section 226.170.  
 977
- 978 h) The owner or operator of a lead emission unit subject to this Part must maintain  
 979 records that include the following information for each period when the affected  
 980 emission unit operated without the lead emission unit's control equipment for lead  
 981 and had the potential for emissions:  
 982
- 983 1) The date, time, and duration of the control equipment outage;
  - 984
  - 985 2) The length of time that the affected lead emission unit subject to this Part  
 986 operated uncontrolled before required control measures were in place or  
 987 the affected lead emission unit was shut down (to resume operations only  
 988 after required control measures were in place), and an explanation why the  
 989 time the affected lead emission unit operated uncontrolled was not shorter,  
 990 including a description of any mitigation measures that were implemented;  
 991
  - 992 3) A discussion of the probable cause of the control equipment outage ~~of the~~  
 993 control equipment; and
  - 994
  - 995 4) A discussion of the date and nature of any preventative measures taken to  
 996 avoid future outages~~outage~~.  
 997
- 998 i) The owner or operator of a lead emission unit subject to this Part must maintain  
 999 records demonstrating compliance with Section 226.175.  
 1000
- 1001 j) The owner or operator of a lead emission unit subject to this Part must maintain a  
 1002 log of all inspections of control devices for the control of lead particulate. The  
 1003 records must document the date of the inspection, the observed condition and  
 1004 operation of the control devices, and the date and nature of any corrective action  
 1005 taken. Records must be maintained demonstrating compliance with Sections  
 1006 226.165(a) and (c).  
 1007
- 1008 k) The owner or operator of a lead emission unit subject to this Part must maintain a  
 1009 log of all inspections of any total enclosures and source structures. The records  
 1010 must document the date of the inspection, the observed condition and operation of  
 1011 the total enclosure, and the date and nature of any corrective action taken.  
 1012 Records must be maintained demonstrating compliance with Sections 226.155(e),  
 1013 226.160(a), and 226.165(b) and (c).  
 1014
- 1015 l) The owner or operator of a lead emission unit subject to this Part must maintain  
 1016 records that include any data or information necessary to demonstrate compliance

1017 with the CPMP, including, ~~but not limited to,~~ records demonstrating compliance  
1018 with Sections 226.155(c) and 226.160.  
1019

1020 m) The owner or operator of a lead emission unit subject to this Part must notify the  
1021 Section Manager within ~~five~~5 days after ~~discovering~~~~discovery of~~ deviations from  
1022 any of the requirements of this Part or any exceedance of an applicable emission  
1023 limitation. At a minimum, and in addition to any permitting obligations, these  
1024 ~~notices~~~~notifications~~ must include a description of the deviations, a discussion of  
1025 the possible cause of the deviations, and any corrective actions, ~~and any~~  
1026 preventative measures taken.  
1027

1028 n) The owner or operator of a lead emission unit subject to this Part must submit  
1029 semiannual reports to the Section Manager. The reports must include all  
1030 monitoring reports summarizing monitoring as required by this Part ~~and, as well~~  
1031 ~~as~~ summaries of all instances of deviations from the requirements of this Part.  
1032 For the January through June monitoring period, the owner or operator ~~must~~~~shall~~  
1033 submit the monitoring report by July 31 of that year. For the July through  
1034 December monitoring period, the owner or operator ~~must~~~~shall~~ submit the  
1035 monitoring report by January 31 of the following year. All reports must be  
1036 certified by a responsible official that the information submitted is complete, true,  
1037 and accurate.  
1038

1039 (Source: Amended at 50 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)