## NOTICE OF PROPOSED RULES

- 1) Heading of the Part: Control of Emissions from Large Combustion Sources
- 2) Code Citation: 35 Ill. Adm. Code Part 225

3)	Section Numbers:	Proposed Action:
	225.100	New
	225.120	New
	225.130	New
	225.140	New
	225.200	New
	225.202	New
	225.205	New
	225.210	New
	225.220	New
	225.230	New
	225.232	New
	225.235	New
	225.237	New
	225.240	New
	225.250	New
	225.260	New
	225.261	New
	225.263	New
	225.265	New
	225.270	New
	225.290	New
	225.295	New

- 4) <u>Statutory Authority</u>: 415 ILCS 5/9.10, 27 and 28.5 (2005)
- A Complete Description of the Subjects and Issues Involved: This rulemaking is proposed to meet certain obligations of the State of Illinois under the Clean Air Act, 42 USC § 7401 *et seq.*; specifically, to satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Clean Air Mercury Rule, 70 Fed. Reg. 28606, and to address the applicable requirements of Section 9.10 of the Environmental Protection Act, 415 ILCS 5/9.10. This proposal will require Illinois coalfired EGUs that serve a generator greater than 25 megawatts producing electricity for sale to begin to utilize control technology for mercury as necessary to achieve the numerical standards set by the proposed rule beginning July 1, 2009. To achieve this goal while

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preserving flexibility, the regulations provide new and existing sources with two alternative mercury emission standards to demonstrate compliance. The first alternative allows a source to comply with a mercury emission standard of 0.0080 lb mercury/GWh gross electrical output for each EGU. In the alternative, sources may control emissions by a minimum of 90% from input mercury levels. In addition, through December 31, 2013, companies with several sources with EGUs may utilize averaging demonstrations between the sources. Those sources that have no sister plants are grouped into a co-op so that they may also average amongst the listed facilities. However, every source in the averaging demonstration must attain at least a 75% reduction of input mercury or 0.020 lb mercury/GWh gross electrical output. This proposal also sets forth permitting, monitoring, recordkeeping, and reporting requirements for affected sources.

Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the Illinois EPA's Technical Support Document for Reducing Mercury Emissions from Coal-Fired Electric Generating Units (TSD) that relied on several published studies and reports. Copies of the documents the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below. The TSD includes an executive summary of the results from the Integrated Planning Model that was performed by ICF Resources, Inc. contracted by the Illinois EPA. The underlying data used to perform the modeling and the results are also available for review at the Pollution Control Board.

Anderson, H.A., J.F. Amrhein, P. Shubat, and J. Hesse. Protocol for a uniform Great Lakes sport fish consumption advisory. Great Lakes Fish Advisory Task Force Protocol Drafting Committee. 1993.

Berry, M., Irvin, N., Monroe, L., Bustard, J., Lindsey, C., Brignac, P., Taylor, T., Schlager, R., Sjostrom, S., Starns, T., Chang, R., O'Palko, A., 2004. "Field Test Program for Long-Term Operation of a COHPAC® System for Removing Mercury from Coal-Fired Flue Gas", Presented at the Joint EPRI DOE EPA Combined Utility Air Pollution Control Symposium, The Mega Symposium, August 31-September 2, 2004, Washington, D.C.

Biermann, J., Higgins, B., Wendt, J.O., Senior, C., Wang, D. "Mercury Reduction at a Coal Fired Power Plant at over 2000 °F Using MinPlus Sorbent Through Furnace Sorbent Injection", 2006 Electric Utilities Environmental Conference, Tucson, AZ, January 22-25, 2006; Available online at http://www.mobotecusa.com

Bustard, J.; Durham, M.; Lindsey, C.; Starns, T.; Baldrey, K.; Martin, C.; Schlager, R.;

### NOTICE OF PROPOSED RULES

Sjostrom, S.; Slye, R.; Renninger, S.; Monroe, L.; Miller, R.; Chang, R., "Full-Scale Evaluation of Mercury Control with Sorbent Injection and COHPAC at Alabama Power E.C., Gaston," DOE-EPRI-U.S. EPA-A&WMA Power Plant Air Pollutant Control Mega Symposium, Chicago, IL, August 20-23, 2001.

Cain, Alex, U.S. Environmental Protection Agency Presentation, LADCO Mercury Workshop, O'Hare International Center –Auditorium, Rosemont, Illinois, February 22, 2006.

Dombrowski, K., Richardson, C., "Sorbent Injection for Small ESP Mercury Control in Bituminous Coal Flue Gas", DOE/NETL's Mercury Control Technology R&D Program Review, Pittsburgh, PA, July 12-13, 2005.

Dombrowski, K., Richardson, C., Machalek, T., Chapman, D., Chang, R., Monroe, L., Berry, M., Irvin, N., McBee, K., Sjostrom, S., "Sorbent Injection for Mercury Control Upstream of Small-SCA ESPs", Presented at the Joint EPRI DOE EPA Combined Utility Air Pollution Control Symposium, The Mega Symposium, August 31-September 2, 2004, Washington, D.C.

Durham, "Advances in Mercury Control Technology", Pennsylvania Mercury Rule Workgroup Meeting, November 18, 2005.

"Field Test Program for Long-Term Operation of a COHPAC® System for Removing Mercury", DOE/NETL's Mercury Control Technology R&D Program Review, Pittsburgh, PA, July 12-13, 2005.

Hurt, R., Suuberg, E., Yu-Ming, Mehta, A., "The Passivation of Carbon for Improvement of Air Entrainment in Fly Ash Concrete", http://www.netl.doe.gov/publications/proceedings/00/ubc00/HURT.PDF

Hutson, N., "Brominated Sorbents: Effects on Emissions of Halogenated Air Toxics", DOE/NETL's Mercury Control Technology R&D Program Review, Pittsburgh, PA, July 12-13, 2005.

Illinois Department of Public Health. Environmental Health Fact Sheet – Fish Advisories in Illinois. Illinois Department of Public Health, Division of Environmental Health, Springfield, IL. 2006.

Illinois Environmental Protection Agency. Illinois 2004 Section 303(d) List.

### NOTICE OF PROPOSED RULES

IEPA/BOW/04-005. Bureau of Water, Watershed Management Section: Springfield, IL. November 2004.

Illinois Environmental Protection Agency. DRAFT – Illinois Integrated Water Quality Report and Section 303(d) list – 2006. Clean Water Act Sections 303(d), 305(b) and 314. Water Resource Assessment Information and Listing of Impaired Waters. Bureau of Water, Watershed Management Section, Surface Water Section: Springfield, IL.

Institute of Clean Air Companies, "Status and Capabilities of Mercury Control Technologies," Presentation to EPA Administrator Leavitt, Washington, D.C., July 20, 2004.

Jenkins, R.E., Burkhead, N.M., 1993. Freshwater Fishes of Virginia. American Fisheries Society. Bethesda, Maryland. Pages 732-736.

Johnson, D., Cummings, J., "TOXECON™ Retrofitfor Mercury and Multi-Pollutant Control", presentation on Clean Coal Power Initiative, downloaded from www.netl.doe.gov

Khan, S. and Srinivasachar, S., "Field Demonstration of Enhanced Sorbent Injection for Mercury Control", DOE-NETL, Mercury Control Program, Review Meeting, July 12, 2005.

Michigan Electric Utility Workgroup, "Final Report on Mercury Emissions from Coal-Fired Power Plants", June 20, 2005.

Migler, Paul, VanAten, Chris. "North American Power Plant Air Emissions. Commission for Environmental Cooperation of North America, 2004.

MinPlus Sorbent: Non Carbon Sorbent for Mercury Control in Coal Fired Boilers, August 2005.

National Wildlife Federation, Getting the Job Done: Affordable Mercury Control at Coal-Burning Power Plants, October 2004.

Nelson, S., "Sorbent Technology for Mercury Control", Pennsylvania Mercury Rule Workgroup Meeting, November 18, 2005.

Nolan, P., Downs, W., Bailey, R., Vecci, S., "Use of Sulfide Containing Liquors for Removing Mercury from Flue Gases", U.S. Patent # 6,503,470, January 7, 2003.

## NOTICE OF PROPOSED RULES

Northeast States for Coordinated Air Use Management (NESCAUM), "Economic Valuation of Human Health Benefits for Controlling Mercury Emissions from U.S. Coal-Fired Power Plants", February 2005.

Northeast States for Coordinated Air Use Management (NESCAUM), "Mercury Emissions from Coal-Fired Power Plants. The Case for Regulatory Action," October 2003.

Renninger, S., Farthing, G., Ghorishi, S.B., Teets, C., Neureuter, J., "Effects of SCR Catalyst, Ammonia Injection and Sodium Hydrosulfide on the Speciation and Removal of Mercury within a Forced-Oxidized Limestone Scrubber", Presented at the Joint EPRI DOE EPA Combined Utility Air Pollution Control Symposium, The Mega Symposium, August 31-September 2, 2004, Washington, D.C.

Richardson, C., Machalek, T., Marsh, B., Miller, S., Richardson, M., Chang, R., Strohfus M., Smokey, S., Hagley, T., Juip G., Rosvold, R., "Chemical Addition for Mercury Control in Flue Gas Derived from Western Coals" Presented at the Joint EPRI DOE EPA Combined Utility Air Pollution Control Symposium, The Mega Symposium, May 19-22, 2003, Washington, D.C.

Rostam-Abadi, M., "Illinois Coal Properties In Regard to Mercury", ICCI Mercury Meeting, Chicago, IL, November 9, 2005.

U.S. Environmental Protection Agency. Regulatory Impact Analysis of the Clean Air Mercury Rule. Final Report. EPA-452/R-05-003. March 2005.

Smith, Philip W. The Fishes of Illinois. University of Illinois Press. Pages 232-233. 1979.

Srinivasachar, S., Kang, S., "Field Demonstration of Enhanced Sorbent Injection for Mercury Control: Quarterly Technical Progress Report", Report Period: July 1 – September 30, 2005, Prepared for U.S. Department of Energy National Energy Technology Laboratory, Pittsburgh, Pennsylvania (Under Contract DE-FC26-04NT42306), November 8, 2005.

Srivastava, R.K.; Sedman, C.B.; Kilgroe, J.D., "Performance and cost of Mercury Emission Control Technology Applications on Electric Utility Boilers," EPA-600/R-00-083, September 2000.

## NOTICE OF PROPOSED RULES

Starns, T., Amrhein, J., Martin, C., Sjostrom, S., Bullinger, C., Stockdill, D., Strohfus,

M., Chang, R., "Full-Scale Evaluation of TOXECON II on a Lignite-Fired Boiler", Presented at the Joint EPRI DOE EPA Combined Utility Air Pollution Control Symposium, The Mega Symposium, "August 31-September 2, 2004, Washington, D.C.

Staudt, J., "Mercury Allowances and Strategies: Peering Through the Mist", EUCI's Navigating the Mercury Issue, October 19-20, 2005, Arlington, VA.

Staudt, J., Jozewicz, W., "Performance and Cost of Mercury and Multipollutant Emission Control Technology Applications on Electric Utility Boilers", EPA/600/R-03/110; U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory, Research Triangle Park, NC, October 2003.

Tran, P., Shore, L., Yang, X., Hizny, W., Butz, J., "Mercury Control: Novel Non-Carbon Sorbents", Power-Gen International, Las Vegas, NV, December 6-8, 2005.

Trasande, L., Landrigan, P., Schechter, C., "Public Health and Economic Consequences of Mehtylmercury Toxicity to the Developing Brain," Environmental Health Perspective, February 28, 2005. Available online at http://dx.doi.org

"Use of High-Carbon Illinois Fly Ash in Cement Manufacturing Demonstration Phase," ICCI Project Number: 99-1/2.1A-1 http://www.icci.org/00final/bhatty99.htm

- U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological Profile of Mercury. Public Health Service, Atlanta, GA.
- U.S. Environmental Protection Agency. Mercury Study Report to Congress. An Inventory of Anthropogenic Mercury Emissions in the United States. Volume II (EPA-452/R-97-004); December 1997.
- U.S. Environmental Protection Agency Mercury Study Report to Congress, Execute Summary. Volume I (EPA-US 2/R-97-003); December 1997.
- U.S. Environmental Protection Agency. Mercury Study Report to Congress. Health Effects of Mercury and Mercury Compounds. Volume V. (EPA-452/R-97-007). 1997.
- U.S. Environmental Protection Agency. Mercury Study Report to Congress.

### NOTICE OF PROPOSED RULES

Characterization of Human Health and Wildlife Risks from Mercury Exposure in the United States. Vol. VII (EPA-452/R-97-009). December 1997.

- U.S. Environmental Protection Agency, "Control of Mercury Emissions from Coal-Fired Electric Utility Boilers: Interim Report", EPA-600/R-01-109, April 2002.
- U.S. Environmental Protection Agency, "Engineering and Economic Factors Affecting the Installation of Control Technologies for Multipollutant Strategies", EPA-600/R-02/073, October 2002.
- U.S. Environmental Protection Agency, "Study of Hazardous Air Pollutant Emissions from Electric Utility Steam Generating Units Final Report to Congress," EPA-453/R-98-004, February 1998.
- U.S. Environmental Protection Agency, 2005, Air Pollution Prevention and Control Division, National Risk Management Research Laboratory, Office of Research and Develoment, "Control of Mercury Emissions from Coal Fired Electric Utility Boilers: An Update", Research Triangle Park, NC, February 18, 2005.
- U.S. Environmental Protection Agency, Emission Generation Resource Grid (eGrid), User's Manual, Prepared by E.H. Pechan & Associates Inc., April 2003; Available Online at: (http://www.epa.gov/cleanenergy/egrid/index.htm
- U.S. Environmental Protection Agency. Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act. Watershed Branch Assessment and Watershed Protection Division, Office of Wetlands, Oceans, and Watersheds, Office of Water. July 29, 2005.
- U.S. Environmental Protection Agency. Office of Inspector General. Evaluation Report. Additional Analyses of Mercury Emissions Needed Before EPA Finalizes Rules for Coal-Fired Electric Utilities. Report No. 2005-P-00003. February 3, 2005.

World Health Organization. *Methyl Mercury, Volume 101*. Distribution and Sales Service, International Programme on Chemical Safety, Geneva, Switzerland. 1990.

California Environmental Protection Agency. "Chemicals in Fish: Consumption of Fish and Shellfish in California and the United States." October 2001.

Crelling, J. Dr., Carty, R. Dr. "Prediction of Mercury Removal Efficiencies with Current

### NOTICE OF PROPOSED RULES

Coal Washing Practices." Interim Final Technical Report. September 1, 2004 through August 31, 2005.

Foerter, David C. Institute of Clean Air Companies. Testimony Before the USEPA on CAIR and CAMR. February 26, 2004.

Illinois Department of Natural Resources. "2006 Illinois Fishing Information." 2006.

Illinois Department of Public Health. 2006. Environmental Health Fact Sheet – Fish Advisories in Illinois. Illinois Department of Public Health, Division of Environmental Health, Springfield, IL

Nelson, Sid, Brickett, Lynn. Large Scale Mercury Control Field Testing-Phase II. "Advanced Utility Mercury-Sorbent Field Testing Program." Progress Report. July 2005.

O'Palko, A., Sjostrom, S., Starns, T. "Evaluation of Sorbent Injection for Mercury Control. NETL Meeting. July 12, 2005.

Pellettieri. M.B., Hallenbeck, W.H., Brenniman, G.R., Cailas, M., Clark, M. "PCB Intake from Sport Fishing Along the Northern Illinois Shore of Lake Michigan." Environmental Contamination and Toxicology. 1996.

Princiotta, F.T., Technical Memorandum, Control of Mercury Emissions from Coal-Fired Utility Boilers. October 25, 2000.

Srivastava, R.K., Staudt, James E., Jozewicz, W. "Preliminary Estimates of Performance and Cost of Mercury Emission Control Technology Applications on Electric Utility Boilers: An Update."

U.S. Environmental Protection Agency. Appendix B Background Material of Methodology Used to Estimate 1999 National Mercury Emissions from Coal-Fired Electric Utility Boilers. Electricity Utility Steam Generating Unit Mercury Emissions Information Collection Effort. September 15, 2000.

U.S. Geological Survey. "Coal Quality Information-Key to the Efficient and Environmentally Sound Use of Coal." February 9, 2006.

7) Will this rulemaking replace any emergency rule currently in effect? No

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- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other proposed rules pending on this Part? No
- Statement of Statewide Policy Objective: This rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2004)].
- 12) <u>Time, Place, and Manner in which interested persons may comment on this proposed rulemaking</u>: The Board will accept written public comment on this proposal for 45 days after the date of publication in the *Illinois Register*. Comments should reference Docket R06-25 and be addressed to:

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

Interested persons may request copies of the Board's opinion and order by calling Dorothy Gunn at 312-814-3620, or download from the Board's Web site at www.ipcb.state.il.us.

For more information contact Marie Tipsord at 312/814-4925 or email at tipsordm@ipcb.state.il.us.

- 13) <u>Initial Regulatory Flexibility Analysis:</u>
  - A) Types of small businesses, small municipalities and not for profit corporations affected: None
  - B) Reporting, bookkeeping or other procedures required for compliance: The proposed rulemaking requires the owner or operator of an affected source to install required emissions monitoring systems, complete required certification tests, and record, report, and quality-assure the data from such systems. The owner or operator of an affected source must also maintain emissions monitoring information, submit quarterly reports, compliance certifications, and annual certifications of compliance.

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- C) <u>Types of Professional skills necessary for compliance</u>: No professional skills beyond those currently required by the existing State and federal air pollution control regulations applicable to affected sources will be required.
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2006

The full text of the Proposed Rules 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 225 CONTROL OF EMISSIONS FROM LARGE COMBUSTION SOURCES SUBPART A: GENERAL PROVISIONS Section Severability Abbreviations 225.100 225.120 Abbreviations and Acronyms Definitions 225.130 225.140 Incorporations by Reference SUBPART B: CONTROL OF MERCURY EMISSIONS FROM COAL-FIRED ELECTRIC GENERATING UNITS Purpose

225.202 Measurement Methods

225.205 Applicability

225.210 Compliance Requirements

225.220 Clean Air Act Permit Program (CAAPP) PermittingPermit Requirements

225.230 Emission Standards for EGUs at Existing Sources

225.232 Averaging Demonstrations for Existing Sources

225.235 Units Scheduled for Permanent Shut Down

225.237 Emission Standards for New Sources with Down

225.240 General Monitoria 225.240 General Monitoring and Reporting Requirements Initial Certification and Recertification Procedures for Emissions 225.250 Monitoring Out of Control Periods for Emission Monitors 225.260 Additional Requirements to Provide Heat Input Data 225.261 Monitoring of Gross Electrical Output 225.263 Coal Analysis for Input Mercury Levels 225.265 Notifications 225.270 225.290 Recordkeeping and Reporting Treatment of Mercury Allowances 225.295

AUTHORITY: Implementing Section 9.10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9.10, 27 and 28.5].

SOURCE: Adopted at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

SUBPART A: GENERAL PROVISIONS

Section 225.100 Severability

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

Section 225.120 Abbreviations and Acronyms

Unless otherwise specified within this Part, the abbreviations used in this Part shall be the same as those found in 35 Ill. Adm. Code 211. The following abbreviations and acronyms are used in this Part:

Act Environmental Protection Act [415 ILCS 5/1 et seq.]

Btu British thermal unit

CAA Clean Air Act [42 U.S.C. USC 7401 et seq.]

CAAPP Clean Air Act Permit Program

CO2 carbon dioxide

EGU electric generating unit

GWh gigawatt hour

hr hour lb pound MW megawatt

MWe megawatt electrical

MWh megawatt hour NOx nitrogen oxides

02 oxygen

RATA relative accuracy test audit

SO2 sulfur dioxide

USEPA United States Environmental Protection Agency

Section 225.130 Definitions

The definitions contained in this Section apply only to the provisions of this Part. Unless otherwise defined <a href="https://www.neering.com/hereining.com

"Averaging demonstration" means, with regard to Subpart B of this Part, a demonstration of compliance that is based on the combined performance of EGUs at two or more sources.

"Boiler" means an enclosed fossil or other fuel-fired combustion device used to produce heat and to transfer heat to recirculating water, steam, or other medium.

"Bottoming-cycle cogeneration unit" means a cogeneration unit in which the energy input to the unit is first used to produce useful thermal energy and at least some of the reject heat from the useful thermal energy application or process is then used for electricity production.

"Coal" means any solid fuel classified as anthracite, bituminous, subbituminous, or lignite by the American Society for Testing and Materials (ASTM) Standard Specification for Classification of Coals by Rank D388-77, 90, 91, 95, 98a, or 99 (Reapproved 2004).

"Coal-derived fuel" means any fuel (whether in a solid, liquid or gaseous state) produced by the mechanical, thermal, or chemical process.

"Coal-fired" means combusting any amount of coal or coal-derived fuel, alone or in combination with any amount of any other fuel, during a specified year.

"Cogeneration unit" means a stationary, fossil fuel-fired boiler or stationary, fossil fuel-fired combustion turbine:

Having equipment used to produce electricity and useful thermal energy for industrial, commercial, heating, or cooling purposes through the sequential use of energy; and

Producing during the 12-month period starting on the date the unit first produces electricity and during any calendar year after the calendar year in which the unit first produces electricity:

For a topping-cycle cogeneration unit:

Useful thermal energy not less than 5 percent of total energy output; and

Useful power that, when added to one-half of useful thermal energy produced, is not less thenthan 42.5 percent of total energy input, if useful thermal energy produced is 15 percent or more of total energy output, or not less than 45 percent of total energy input, if useful thermal energy produced is less than 15 percent of total energy output.

For a bottoming-cycle cogeneration unit, useful power not less than 45 percent of total energy input.

"Combustion turbine" means:

An enclosed device comprising a compressor, a combustor, and a turbine and in which the flue gas resulting from the combustion of fuel in the combustor passes through the turbine, rotating the turbine; and

If the enclosed device under the above paragraph of this definition is combined cycle, any associated heat recovery steam generator and steam turbine.

"Commence commercial operation" means, with regard to Subpart B of this Part, with regard to an Electric Generating Unit that serves a generator, to have begun to produce steam, gas, or other heated medium used to generate electricity for sale or use, including test generation. Such date shall remain the unit's date of commencement of operation even if the Electric Generating Unit is subsequently modified, reconstructed or repowered.

"Designated representative" means, with regard to Subpart B of this Part, the same as defined in  $40~\mathrm{CFR}~60.4102$ .

"Flue" means a conduit or duct through which gases or other matter is exhausted to the atmosphere.

"Gross electrical output" means the total electrical output from an Electric Generating Unit before making any deductions for energy output used in any way related to the production of energy. For an Electric Generating Unit generating only electricity, the gross electrical output is the output from the turbine/generator set.

"Input mercury" means the mass of mercury that is contained in the coal combusted within an Electric Generating Unit.

"Nameplate capacity" means, starting from the initial installation of a generator, the maximum electrical generating output (in MWe) that the generator is capable of producing on a steady-state basis and during continuous operation (when not restricted by seasonal or other deratings) as specified by the manufacturer of the generator or, starting from the completion of any subsequent physical change in the generator resulting in an increase in the maximum electrical generating output (in MWe) that the generator is capable of producing on a steady-state basis and during continuous operation (when not restricted by seasonal or other deratings), such increased maximum amount as specified by the person conducting the physical change.

"Output-based emission standard" means, with regard to Subpart B of this Part, a maximum allowable rate of emissions of mercury per unit of gross electrical output from an Electric Generating Unit.

"Repowered" means, with regard to an EGU, replacement of a coal-fired boiler with one of the following coal-fired technologies at the same source as the coal-fired boiler:

Atmospheric or pressurized fluidized bed combustion;

Integrated gasification combined cycle;

Magnetohydrodynamics;

Direct and indirect coal-fired turbines;

Integrated gasification fuel cells; or

As determined by the USEPA in consultation with the United States Department of Energy, a derivative of one or more of the technologies under this definition and any other coal-fired technology capable of controlling multiple combustion emissions simultaneously with improved boiler or generation efficiency and with significantly greater waste reduction relative to the performance of technology in widespread commercial use as of January 1, 2005.

"Rolling 12-month basis" means, with regard to Subpart B of this Part, a determination made on a monthly basis from the relevant data for a particular calendar month and the preceding 11 calendar months (total of 12 months of data), with two exceptions. For determinations involving one EGU, calendar months in which the EGU does not operate (zero EGU operating hours) shall not be included in the determination, and shall be replaced by a preceding month or months in which the EGU does operate, so that the determination is still based on 12 months of data. For determinations involving two or more EGUs, calendar months in which none of the EGUs covered by the determination operates (zero EGU operating hours) shall not be included in the determination, and shall be replaced by preceding months in which at least one of the EGU covered by the determination does operate, so that the determination is still based on 12 months of data.

Section 225.140 Incorporations by Reference

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

a) 40 CFR Part 60, § 60.17, § 60.45a, § 60.49a(k)(1), § 60.49a(p), § 60.50a(h), and §§ 60.4170 through 60.4176 (2005).

- b) 40 CFR <del>Part 75</del> (2005).
- c) ASTM. American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA, 19428-2959, (610) 832-9585:
- 1) ASTM D388-77, 90, 91, 95, 98a, or 99, Classification of Coals by Rank (Reapproved 2004).
- 2) ASTM D3173-03, Standard Test Method for Moisture in the Analysis Sample of Coal and Coke (Approved April 10, 2003).
- 3) ASTM D3684-01, Standard Test Method for Total Mercury in Coal by the Oxygen Bomb Combustion/Atomic Absorption Method (Approved October 10, 2001).
- 4) ASTM D5865-04, Standard Test Method for Gross Calorific Value of Coal and Coke (Approved April 1, 2004).
- 5) ASTM D6414-01, Standard Test Method for Total Mercury in Coal and Coal Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic Absorption (Approved October 10, 2001).
- 6) ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method) (Approved April 10, 2002).

SUBPART B: CONTROL OF MERCURY EMISSIONS FROM COAL-FIRED ELECTRIC GENERATING UNITS

Section 225.200 Purpose

The purpose of this Subpart is to control the emissions of mercury from coal-fired electrical generating units in Illinois.

Section 225.202 Measurement Methods

Measurement of mercury shall be according to the following:

- a) Continuous emission monitoring pursuant to 40 CFR Part 75 (2005).
- b) ASTM D3173-03, Standard Test Method for Moisture in the Analysis Sample of Coal and Coke (Approved April 10, 2003).
- c) ASTM D3684-01, Standard Test Method for Total Mercury in Coal by the Oxygen Bomb Combustion/Atomic Absorption Method (Approved October 10, 2001).
- d) ASTM D5865-04, Standard Test Method for Gross Calorific Value of Coal and Coke (Approved April 1, 2004).
- e) ASTM D6414-01, Standard Test Method for Total Mercury in Coal and Coal Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic Absorption (Approved October 10, 2001).
- f) ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method) (Approved April 10, 2002).

Section 225.205 Applicability

The following stationary coal-fired boilers and stationary coal-fired combustion turbines are EGUs and are subject to this Subpart:

- a) Except as provided in subsection (b) of this Section, a unit serving at any time since the start-up of the unit's combustion chamber, a generator with nameplate capacity of more than 25 MWe producing electricity for sale.
- b) For a unit that qualifies as a cogeneration unit during the 12-month period starting on the date the unit first produces electricity and continues to qualify as a cogeneration unit, a cogeneration unit serving at any time a generator with nameplate capacity of more than 25 MWe and supplying in any calendar year more than one-third of the unit's potential electric output capacity or 219,000 MWh, whichever is greater, to any utility power distribution system for sale. If a unit qualifies as a cogeneration unit during the 12-month period starting on the date the unit first produces electricity but subsequently no longer qualifies as a cogeneration unit, the unit shall be subject to subsection (a) of this Section starting on the day on which the unit first no longer qualifies as a cogeneration unit.

Section 225.210 Compliance Requirements

- a) Permit Requirements
  The owner or operator of each source with one or more EGUs subject to this
  Subpart at the source must apply for a CAAPP permit that addresses the
  applicable requirements of this Subpart.
- b) Monitoring Requirements
- 1) The owner or operator of each source and each EGU at the source must comply with the monitoring requirements of Sections 225.240 through 225.290 of this Subpart.
- 2) The compliance of each EGU with the mercury requirements under Sections 225.230 and 225.237 of this Subpart shall be determined by the emissions measurements recorded and reported in accordance with Sections 225.240 through 225.290 of this Subpart.
- c) Mercury Emission Reduction Requirements
  The owner or operator of any EGU subject to this Subpart shall comply with applicable requirements for control of mercury emissions under Section 225.230 or Section 225.237 of this Subpart.
- d) Recordkeeping and Reporting Requirements
  Unless otherwise provided, the owner or operator of a source with one or more
  EGUs at the source shall keep on site at the source each of the documents listed
  in subsections (d)(1) through (d)(3) of this Section for a period of five years
  from the date the document is created. This period may be extended for cause,
  at any time prior to the end of five years, in writing by the Agency.
- 1) All emissions monitoring information, in accordance with Sections 225.240 through 225.290 of this Subpart.
- 2) Copies of all reports, compliance certifications, and other submissions and all records made or required or documents necessary to demonstrate compliance with the requirements of this Subpart.

- 3) Copies of all documents used to complete a permit application and any other submission under this Subpart.
- e) Liability
- 1) The owner or operator of each source with one or more EGUs shall meet the requirements of this Subpart.
- 2) Any provision of this Subpart that applies to a source shall also apply to the owner and operator of such source and to the owner and operator of each EGU at the source.
- 3) Any provision of this Subpart that applies to an EGU shall also apply to the owner and operator of such EGU.
- f) Effect on Other Authorities. No provision of this Subpart shall be construed as exempting or excluding the owner and operator of a source or EGU from compliance with any other provision of an approved State Implementation Plan, a permit, the Act, or the CAA.

Section 225.220 Clean Air Act Permit Program (CAAPP) Permit Requirements

- a) Application Requirements
- 1) Each source with one or more EGUs subject to the requirements of this Subpart is required to submit a CAAPP permit application that addresses all applicable requirements of this Subpart, applicable to each EGU at the source.
- 2) A) For EGUsany EGU that commenced commercial operation :
- <u>A)</u> on or before December 31, 2008, the owner or operator of such EGUsthat EGU must submit an initial permit application or application for CAAPP permit modification that meets the requirements of this Section by December 31, 2008.
- B) For any EGU that commences commercial operation after December 31, 2008, the owner or operator of any such EGU must submit an initial CAAPP permit application or application for CAAPP modification that meets the requirements of this Section not later than 180 days before initial startup of the EGU\_ unless the construction permit issued for the EGU addresses the requirements of this Subpart.
- b) Contents of Permit Applications
  In addition to other information required for a complete application for CAAPP
  permit or CAAPP permit modification, the application shall include the following
  information:
- 1) The ORIS (Office of Regulatory Information Systems) or facility code assigned to the source by the Energy Information Administration, if applicable.
- 2) Identification of each EGU at the source.
- 3) The intended approach to the monitoring requirements of Sections 225.240 through 225.290 of this Subpart.
- 4) The intended approach to the mercury emission reduction requirements of Section 225.230 or 225.237 of this Subpart, as applicable.

- c) Permit Contents
- 1) Each CAAPP permit issued by the Agency for a source with one or more EGUs subject to the requirements of this Subpart shall contain federally enforceable conditions addressing all applicable requirements of this Subpart, which conditions shall be a complete and segregable portion of the source's entire CAAPP permit.
- 2) In addition to conditions related to the applicable requirements of this Subpart, each such CAAPP permit shall also contain the information specified under subsection (b) of this Section.

Section 225.230 Emission Standards for EGUs at Existing Sources

#### a) <u>Emission Standards</u>

- 1) Beginning July 1, 2009, the owner or operator of a source with one or more EGUs subject to this Subpart that commenced commercial operation on or before December 31, 2008, 2008 shall comply with one of the following standards for each EGU on a rolling 12-month basis:
- A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or
- B) A minimum 90-percent reduction of input mercury.
- 2) For an EGU complying with subsection (a)(1)(A) of this Section, the actual mercury emission rate of the EGU for each 12-month rolling period, as monitored in accordance with this Subpart and calculated as follows, shall not exceed the applicable emission standard:

#### Where:

- ER = Actual mercury emissions rate of the EGU for the particular 12-month rolling period, expressed in lb/GWh.
- Ei = Actual mercury emissions of the EGU, in lbs, in an individual month in the 12-month rolling period, as determined in accordance with the emissions monitoring provisions of this Subpart.
- Oi = Gross electrical output of the EGU, in GWh, in an individual month in the 12-month rolling period, as determined in accordance with Section 225.263 of this Subpart.
- 3) For an EGU complying with subsection (a)(1)(B) of this Section, the actual control efficiency for mercury emissions achieved by the EGU for each 12-month rolling period, as monitored in accordance with this Subpart and calculated as follows, shall meet or exceed the applicable efficiency requirement:

Where:

- CE = Actual control efficiency for mercury emissions of the EGU for the particular 12-month rolling period, expressed as a percent.
- Ei = Actual mercury emissions of the EGU, in lbs, in an individual month in the 12-month rolling period, as determined in accordance with the emissions monitoring provisions of this Subpart.
- Ii = Amount of mercury in the fuel fired in the EGU, in pounds, in an individual month in the 12-month rolling period, as determined in accordance with Section 225.265 of this Subpart.

### b) Alternative Emission Standards for Single EGUs

- 1) As an alternative to compliance with one of the above emission standards in subsection (a) of this Section, the owner or operator of the EGU may comply with the emission standards of this Subpart by demonstrating that the actual emissions of mercury from the EGU are less than the allowable emissions of mercury from the EGU on a rolling 12-month basis.
- 2) For this purpose, for each rolling 12-month period, the actual emissions of mercury from the EGU, as monitored in accordance with this Subpart, must not exceed the allowable emissions of mercury from the EGU, as further provided by the following formulas:

## E12=A12 E12=12EiSi=1 A12=12AiSi=1 Where:

- ${
  m E12} = {
  m Actual\ mercury\ emissions\ of\ the\ EGU\ for\ the\ particular\ 12-month\ rolling\ period.}$
- A12 = Allowable mercury emissions of the EGU for the particular 12-month rolling period-
- Ei = Actual mercury emissions of the EGU in an individual month in the 12-month rolling period.
- Ai = Allowable mercury emissions of the EGU in an individual month in the 12-month rolling period, based on either the input mercury to the unit (AInput
- i) or the electrical output from the EGU (AOutput i), as selected by the owner or operator of the EGU for that given month.
- AInput  $\frac{1}{1} = \frac{1}{1}$  Allowable mercury emissions of the EGU in an individual month based on the input mercury to the EGU, calculated as 10.0 percent (or 0.100) of the input mercury to the EGU.
- AOutput  $\frac{1}{1} = 1$  Allowable mercury emissions of the EGU in a particular month based on the electrical output from the EGU, calculated as the product of the output based mercury limit, i.e., 0.0080 lb/GWh, and the electrical output from the EGU, in GWh.
- 3) If the owner or operator of an EGU does not conduct the necessary sampling, analysis, and recordkeeping, in accordance with Section 225.265 of this Subpart, to determine the mercury input to the EGU, the allowable emissions of the EGU must be calculated based on the electrical output of the EGU.

c) If two or more EGUs are served by common stack(s) and the owner or operator conducts monitoring for mercury emissions in the common stack(s), as provided for by 40 CFR Part 75, Subpart I, such that the mercury emissions of each EGU are not determined separately, compliance of the EGUs with the applicable emission standards of this Subpart shall be determined as if the EGUs were a single EGU.

## d) Alternative Emission Standards for Multiple EGUs

- 1) As an alternative to compliance with the emission standards of subsection (a) of this Section, the owner or operator of a source with an EGU may comply with the emission standards of this Subpart by demonstrating that the actual emissions of mercury from all EGUs at the source are less than the allowable emissions of mercury from all EGUs at the source on a rolling 12-month basis.
- 2) For this purpose, for each rolling 12-month period, the actual emissions of mercury from all the EGUs at the source, as monitored in accordance with this Subpart, must not exceed the sum of the allowable emissions of mercury from all the EGUs at the source, as further provided by the following formulas:

ES=AS ES=nEiSi=1 AS=nAiSi=1 Where:

ES = Sum of the actual mercury emissions of the EGUs at the source.

AS = Sum of the allowable mercury emissions of the EGUs at the source.

 ${\tt Ei} = {\tt Actual\ mercury\ emissions\ of\ an\ individual\ EGU\ at\ the\ source,\ as\ determined\ in\ accordance\ with\ subsection\ (b)\ (2)\ of\ this\ Section.}$ 

Ai = Allowable mercury emissions of an individual EGU at the source, as determined in accordance with subsection (b)(2) of this Section.

n = Number of EGUs covered by the demonstration.

3) If an owner or operator of a source with two or more EGUs that is relying on this subsection (d) to demonstrate compliance fails to meet the requirements of this subsection (d) in a given 12-month rolling period, all EGUs at such source covered by the compliance demonstration are considered out of compliance with the applicable emission standards of this Subpart for the entire last month of that period.

Section 225.232 Averaging Demonstrations for Existing Sources

a) Through December 31, 2013, as an alternative to compliance with the emission standards of Section 225.230(a) of this Subpart, the owner or operator of an EGU may comply with the emission standards of this Subpart by means of an Averaging Demonstration (Demonstration) that shows that the actual emissions of mercury from the EGU and other EGUs at the source and other EGUs at other sources covered by the Demonstration are less than the allowable emissions of mercury from all EGUs covered by the Demonstration on a rolling 12-month basis.

- b) The EGUs at each source covered by a Demonstration must also comply with one of the following emission standards on a source-wide basis for the period covered by the Demonstration:
- 1) An emission standard of 0.020 lb mercury/GWh gross electrical output; or
- 2) A minimum 75- percent reduction of input mercury.
- c) For the purpose of this Section, compliance shall be determined using the equations in Section 225.230(a)(2), (a)(3), or (d)(2) of this Subpart, as applicable, addressing all EGUs at the sources covered by the Demonstration, rather than only EGUs at one source.

### d) Limitations on Demonstrations

d) The owners or operators of more than one existing source with EGUs can only participate in Demonstrations that include other existing sources that they own or operate.

### 2) ±Single Existing Source Demonstrations

- A) The owner or operator of only a single existing source with EGUs (i.e., City, Water, Light & Power, City of Springfield, ID 167120AAO; Electric Energy, Inc., ID 127855AAC; Kincaid Generating Station, ID 021814AAB; and Southern Illinois Power Cooperative/Marion Generating Station, ID 199856AAC) can only participate in Demonstrations with other such owners or operators of a single existing source of EGUs.
- $\frac{\text{ii} \underline{\textbf{B}}}{\textbf{D}}$ ) Participation in Demonstrations under this Section by the owner or operator of only a single existing source with EGUs must be authorized through federally enforceable permit conditions for each such source participating in the Demonstration.
- e) A source may be included in only one Demonstration during each rolling 12-month period.
- f) The owner or operator of EGUs using Demonstrations to show compliance with this Subpart must complete the determination of compliance for each 12-month rolling period no later than 60 days following the end of the period.
- g) If averaging is used to demonstrate compliance with this Subpart, the effect of a failure to demonstrate compliance shall be that the compliance status of each source shall be determined under Section 225.230 of this Subpart as if the sources were not covered by a Demonstration.
- h) For purposes of this Section, if the owner or operator of any source that participates in a Demonstration with an owner or operator of a source that does not maintain the required records, data, and reports for the EGUs at the source, or does not submit copies of such records, data, or reports to the Agency upon request, then the effect of this failure will be deemed to be a failure to demonstrate compliance and the compliance status of each source shall be determined under Section 225.230 of this Subpart as if the sources were not covered by a Demonstration.

Section 225.235 Units Scheduled for Permanent Shut Down

- a) The emission standards of Section 225.230(a) of this Subpart are not applicable to an EGU that will be permanently shut down as further specified below:follows:
- 1) The owner or operator of an EGU for which this Section is being relied upon shall by no later than June 30, 2009:
- A) Have notified the Illinois EPA that it is planning to permanently shut down the EGU by the applicable date specified in subsection (a)(3) or (4) of this Section. This notification shall be accompanied by a description of the actions that have already been taken to allow the shut down of the EGU and a description of the future actions that must be accomplished to complete the shut down of the EGU, with the anticipated schedule for those actions and the anticipated date of permanent shutdownshut down of the unit.
- B) Have applied for a construction permit or be actively pursuing a federally enforceable agreement that requires the EGU to be permanently shut down in accordance with this Section.
- C) Have applied for revisions to the operating permit(s) for the EGU to include provisions that terminate the authorization to operate the unit in accordance with this Section.
- 2) The owner or operator of an EGU for which this Section is being relied upon shall by no later than June 30, 2010:
- A) Have obtained a construction permit or entered into a federally enforceable agreement as addressed by subsection (a)(1)(B) of this Section; or
- B) Have obtained revised operating permit(s) in accordance with subsection (a)(1)(C) of this Section.
- 3) The plan for permanent shut down of the EGU must provide for the EGU to be permanently shut down by no later than the applicable date specified below:
- A) If the owner or operator of the EGU is not constructing a new EGU or other generating units to specifically replace the existing EGU, by December 31, 2010.
- B) If the owner or operator of the EGU is constructing a new EGU or other generating units to specifically replace the existing EGU, by December 31, 2011.
- 4) The owner or operator of the EGU must permanently shut down the EGU by the date specified in subsection (a)(3) of this Section, unless the owner or operator submits a demonstration to the Illinois EPA before such date showing that circumstances beyond its reasonable control (such as protracted delays in construction activity, unanticipated outage of another EGU, or protracted shakedown of a replacement unit) have occurred that interfere with the plan for permanent shut down of the EGU, in which case the date for shut down of the EGU may be extended as follows:
- A) If the owner or operator of the EGU is not constructing a new EGU or other generating units to specifically replace the existing EGU, for up to one year, i.e., permanent shut down of the EGU to occur by no later than December 31, 2011.
- B) If the owner or operator of the EGU is constructing a new EGU or other generating units to specifically replace the existing EGU, for up to 18 months,

- i.e., permanent shutdown of the EGU to occur by no later than June 30,  $\frac{2013,2013}{2013}$  provided, however, that after December 31, 2012, the existing EGU shall only operate as a back-up unit to address periods when the new generating units are not in service.
- b) Notwithstanding Sections 225.230 and 225.232 of this Subpart, any EGU that is not required to comply with Section 225.230 of this Subpart pursuant to this Section shall not be included when determining whether any other EGUs at the source or other sources are in compliance with Section 225.230 of this Subpart.
- c) If an EGU\_ for which the owner or operator of the source has relied upon this Section in lieu of complying with Section 225.230(a) of this Subpart\_ is not permanently shut down as required by this Section, the EGU shall be considered to be a new EGU subject to the emission standards in Section 225.237(a) of this Subpart beginning in the month after the EGU was required to be permanently shut down, in addition to any other penalties that may be imposed for failure to permanently shut down the EGU in accordance with this Section.

Section 225.237 Emission Standards for New Sources with EGUs

#### a) Standards

- 1) The owner or operator of a source with one or more EGUs, but that previously had not had any EGUs that commenced commercial operation before January 1, 2009, shall comply with one of the following emission standards for each EGU on a rolling 12-month basis:
- A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or
- B) A minimum 90- percent reduction of input mercury.
- 2) For this purpose, compliance may be demonstrated using the equations in Section 225.230(a)(2), (a)(3), or (b)(2) of this Subpart.
- b) The initial 12-month rolling period for which compliance with the emission standards of subsection (a)(1) of this Section must be demonstrated for a new EGU shall commence on the date that the initial performance test for the mercury emission standard under 40 CFR 60.45a also commences. The continuous emission monitoring systems required by this Subpart for mercury emissions from the EGU must be certified prior to this date. Thereafter, compliance shall be demonstrated on a rolling-12 \_month basis in terms of calendar months.

Section 225.240 General Monitoring and Reporting Requirements

The owner or operator of an EGU shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR—Part 75. If the EGU utilizes a common stack with units that are not EGUs and the owner or operator of the EGU does not conduct emissions monitoring in the duct to the common stack from each EGU, the owner or operator of the EGU shall conduct emissions monitoring in accordance with 40 CFR 75.82(b)(2) and this Section, including monitoring in the duct to the common stack from each unit that is not an EGU, unless the owner or operator of the EGU counts the combined emissions measured at the common stack as the mass emissions of mercury for the EGUs for recordkeeping and compliance purposes.

- a) Requirements for installation, certification, and data accounting. The owner or operator of each EGU shall:
- 1) Install all monitoring systems required under this Section and Sections 225.250 through 225.290 of this Subpart for monitoring mercury mass emissions (including all systems required to monitor mercury concentration, stack gas moisture content, stack gas flow rate, and CO2 or O2 concentration, as applicable, in accordance with 40 CFR 75.81 and 75.82);
- 2) Successfully complete all certification tests required under Section 225.250 and meet all other requirements of this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR Part 75 applicable to the monitoring systems required under subsection (a)(1) of this Section; and.
- 3) Record, report, and quality-assure the data from the monitoring systems required under subsection (a)(1) of this Section.
- 4) If the owner or operator elects to use the low mass emissions excepted monitoring methodology for an EGU that emits no more than 464 ounces (29 pounds) of mercury per year pursuant to 40 CFR 75.81(b), also perform emissions testing in accordance with 40 CFR 75.81(c) to demonstrate that the EGU is eligible to use this excepted emissions monitoring methodology as well as comply with all other applicable requirements of 40 CFR 75.81(b) through (f), and submit a copy of any information required to be submitted to the USEPA under these provisions to the Illinois EPA. The initial emissions testing to demonstrate eligibility of an EGU for the low mass emissions excepted methodology shall be conducted by the following dates:
- A) If the EGU has commenced commercial operation before July 1, 2008, at least by January 1, 2009, or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
- B) If the EGU has commenced commercial operation on or after July 1, 2008, at least 45 days prior to the applicable date specified under subsection (b)(2) of this Section or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later\_
- b) Emissions monitoring deadlines Monitoring Deadlines. The owner or operator shall meet the emissions monitoring system certification and other emissions monitoring requirements of subsections (a)(1) and (a)(2) of this Section on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the emissions monitoring systems required under subsection (a)(1) of this Section on and after the following dates:
- 1) For the owner or operator of an EGU that commences commercial operation before July 1, 2008, by January 1, 2009.
- 2) For the owner or operator of an EGU that commences commercial operation on or after July 1, 2008, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the EGU commences commercial operation.
- 3) For the owner or operator of an EGU for which construction of a new stack or flue or installation of add-on mercury emission controls, a flue gas desulfurization system, a selective catalytic reduction system, a fabric filter, or a compact hybrid particulate collector system is completed after the applicable deadline under subsection (b) (1) or (2) of this Section, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on

which emissions first exit to the atmosphere through the new stack or flue, addon mercury emissions controls, flue gas desulfurization system, selective catalytic reduction system,—a fabric filter, or compact hybrid particulate collector system.

### c) Reporting dataData

- 1) Except as provided in subsection (c)(2) of this Section, the owner or operator of an EGU that does not meet the applicable emissions monitoring date set forth in subsection (b) of this Section for any emissions monitoring system required under subsection (a)(1) of this Section shall, for each such monitoring system, determine, record, and report maximum potential (or, as appropriate, minimum potential) values for mercury concentration, stack gas flow rate, stack gas moisture content, and any other parameters required to determine mercury mass emissions in accordance with 40 CFR 75.80(q).
- The owner or operator of an EGU that does not meet the applicable emissions monitoring date set forth in subsection (b)(3) of this Section for any emissions monitoring system required under subsection (a)(1) of this Section shall, for each such monitoring system, determine, record, and report substitute data using the applicable missing data procedures in 40 CFR 75.80(f), in lieu of the maximum potential (or, as appropriate, minimum potential) values, for a parameter, if the owner or operator demonstrates that there is continuity between the data streams for that parameter before and after the construction or installation under subsection (b)(3) of this Section.

### d) Prohibitions

- 1) No owner or operator of an EGU shall use any alternative emissions monitoring system, alternative reference method for measuring emissions, or any other alternative to the emissions monitoring and measurement requirements of this Section and Sections 225.250 through 225.290 of this Subpart, unless such alternative is promulgated by the USEPA and approved in writing by the Agency or the use of such alternative is approved in writing by the Agency and USEPA.
- 2) No owner or operator of an EGU shall operate the EGU so as to discharge, or allow to be discharged, mercury emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR Part 75.
- 3) No owner or operator of an EGU shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording mercury mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR Part 75.
- 4) No owner or operator of an EGU shall retire or permanently discontinue use of the continuous emission monitoring system or any component thereof, or any other approved monitoring system under this Subpart, except under any one of the following circumstances:
- A) The owner or operator is monitoring emissions from the EGU with another certified monitoring system that has been approved, in accordance with the applicable provisions of this Section, Sections 225.250 through 225.290 of this

Subpart, and Subpart I of 40 CFR Part 75, by the Agency for use at that EGU and that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or

- B) The owner or operator or designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with Section 225.250(a)(3)(A) of this Subpart.
- e) Long-term <u>cold\_storageCold\_Storage</u>
  The owner or operator of an EGU that is in long-term cold storage is subject to the applicable provisions of 40 CFR <u>Part\_75</u> for monitoring, recordkeeping, and reporting for units in long-term cold storage.

Section 225.250 Initial Certification and Recertification Procedures for Emissions Monitoring

- a) The owner or operator of an EGU shall comply with the following initial certification and recertification procedures for a continuous emissions monitoring system (i.e., a continuous emission monitoring system or an excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15) required by Section 225.240(a)(1). The owner or operator of an EGU that qualifies for and for which the owner or operator elects to use the low mass emissions excepted methodology under 40 CFR 75.81(b) shall comply with the procedures in subsection (c) of this Section.
- 1) Requirements for <u>initial certification</u> Initial Certification. The owner or operator of an EGU shall ensure that, for each continuous emissions monitoring system required by Section 225.240(a)(1) of this Subpart (including the automated data acquisition and handling system), the owner or operator successfully completes all of the initial certification testing required under 40 CFR 75.80(d) by the applicable deadline in Section 225.240(b) of this Subpart. In addition, whenever the owner or operator of an EGU installs a monitoring system to meet the requirements of this Subpart in a location where no such monitoring system was previously installed, the owner or operator must successfully complete the initial certification requirements of 40 CFR 75.80(d).
- Requirements for recertification Recertification. Whenever the owner or operator of an EGU makes a replacement, modification, or change in any certified continuous emission monitoring system, or an excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15, and required by Section 225.240(a)(1) of this Subpart, that may significantly affect the ability of the system to accurately measure or record mercury mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or Appendix B to 40 CFR-Part 75, the owner or operator of an EGU shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator of an EGU makes a replacement, modification, or change to the flue gas handling system or the EGU's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system, and each excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15, whose accuracy is potentially affected by the change, all in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site.

- 3)— Approval process for initial certification and recertification Approval Process for Initial Certification and Recertification. Subsections (a) (3) (A) through (D) of this Section apply to both initial certification and recertification of a continuous monitoring system required by Section 225.240(a) (1) of this Subpart. For recertifications, replace the words "certification" and "initial certification" with the word "recertification;" replace the word "certified" with the word "recertified;" and follow the procedures in 40 CFR 75.20(b) (5) in lieu of the procedures in subsection (a) (3) (E) of this Section.
- A) Notification of <u>certificationCertification</u>. The owner or operator shall submit to the Agency, USEPA Region 5, and the Administrator of the USEPA written notice of the dates of certification testing, in accordance with Section 225.270 of this Subpart.
- B) Certification application Application. The owner or operator shall submit to the Agency a certification application for each monitoring system. A complete certification application shall include the information specified in 40 CFR 75.63.
- C) Provisional <u>certification dateCertification Date</u>. The provisional certification date for a monitoring system shall be determined in accordance with 40 CFR 75.20(a)(3). A provisionally certified monitoring system may be used under this Subpart for a period not to exceed 120 days after receipt by the Agency of the complete certification application for the monitoring system under subsection (a)(3)(B) of this Section. Data measured and recorded by the provisionally certified monitoring system, in accordance with the requirements of 40 CFR Part 75, will be considered valid quality-assured data (retroactive to the date and time of provisional certification), provided that the Agency does not invalidate the provisional certification by issuing a notice of disapproval within 120 days <u>ofafter</u> the date of receipt by the Agency of the complete certification application.
- D) Certification application approval processApplication Approval Process. The Agency will issue a written notice of approval or disapproval of the certification application to the owner or operator within 120 days of after receipt of the complete certification application required by subsection (a)(3)(B) of this Section. In the event the Agency does not issue such a notice within such the 120-day period, each monitoring system that meets the applicable performance requirements of 40 CFR Part—75 and is included in the certification application will be deemed certified for use under this Subpart.
- i) Approval noticeNotice. If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR Part 75, then the Agency will issue a written notice of approval of the certification application within 120 days of after receipt.
- ii) Incomplete application noticeApplication Notice. If the certification application is not complete, then the Agency will issue a written notice of incompleteness that sets a reasonable date by which the owner or operator must submit the additional information required to complete the certification application. If the owner or operator does not comply with the notice of incompleteness by the specified date, then the Agency may issue a notice of disapproval under subsection (a)(3)(D)(iii) of this Section. The 120-day review period shall not begin before receipt of a complete certification application.

- Disapproval noticeNotice. If the certification application shows that any monitoring system does not meet the performance requirements of 40 CFR—Part 75 or if the certification application is incomplete and the requirement for disapproval under subsection (a) (3) (D) (ii) of this Section is met, then the Agency will issue a written notice of disapproval of the certification application. Upon issuance of such notice of disapproval, the provisional certification is invalidated by the Agency and the data measured and recorded by each uncertified monitoring system shall not be considered valid quality-assured data beginning with the date and hour of provisional certification (as defined under 40 CFR 75.20(a)(3)). The owner or operator shall follow the procedures for loss of certification in subsection (a)(3)(E) of this Section for each monitoring system that is disapproved for initial certification.
- iv) Audit <u>decertification</u><u>Decertification</u>. The Agency may issue a notice of disapproval of the certification status of a monitor in accordance with Section 225.260(b) of this Subpart.
- E) Procedures for <u>lossLoss</u> of <u>certificationCertification</u>. If the Agency issues a notice of disapproval of a certification application under subsection (a) (3) (D) (iii) of this Section or a notice of disapproval of certification status under subsection (a) (3) (D) (iv) of this Section, then:
- The owner or operator shall substitute the following values, for each disapproved monitoring system, for each hour of EGU operation during the period of invalid data specified under 40 CFR 75.20(a)(4)(iii) or 75.21(e) and continuing until the applicable date and hour specified under 40 CFR 75.20(a)(5)(i). For a disapproved mercury pollutant concentration monitor and disapproved flow monitor, respectively, the maximum potential concentration of mercury and the maximum potential flow rate, as defined in Sections 2.1.7.1 and 2.1.4.1 of Appendix A to 40 CFR Part 75. For a disapproved moisture monitoring system and disapproved diluent gas monitoring system, respectively, the minimum potential moisture percentage and either the maximum potential CO2 concentration or the minimum potential O2 concentration (as applicable), as defined in Sections 2.1.5, 2.1.3.1, and 2.1.3.2 of Appendix A to 40 CFR Part 75. For a disapproved excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15 and disapproved flow monitor, respectively, the maximum potential concentration of mercury and maximum potential flow rate, as defined in Sections 2.1.7.1 and 2.1.4.1 of Appendix A to 40 CFR Part 75.
- ii) The owner or operator shall submit a notification of certification retest dates and a new certification application in accordance with subsections (a)(3)(A) and (B) of this Section.
- iii) The owner or operator shall repeat all certification tests or other requirements that were failed by the monitoring system, as indicated in the Agency's notice of disapproval, no later than 30 unit operating days after the date of issuance of the notice of disapproval.

### b) Exemption

1) If an emissions monitoring system has been previously certified in accordance with 40 CFR  $\frac{Part}{75}$  and the applicable quality assurance and quality control requirements of 40 CFR  $\frac{Part}{75}$  are fully met, the monitoring system shall be exempt from the initial certification requirements of this Section.

- 2) The recertification provisions of this Section shall apply to an emissions monitoring system required by Section 225.240(a)(1) of this Subpart exempt from initial certification requirements under subsection (a)(1) of this Section.
- c) Initial certification and recertification procedures for EGUs using the mercury low mass emissions excepted methodology under 40 CFR 75.81(b). The owner or operator of an EGU qualified to use the mercury low mass emissions excepted methodology under 40 CFR 75.81(b) shall meet the applicable certification and recertification requirements in 40 CFR 75.81(c) through (f).
- d) Certification Applications. The owner or operator of an EGU shall submit an application to the Agency within 45 days after completing all initial certification or recertification tests required under this Section, including the information required under 40 CFR 75.63.

Section 225.260 Out of Control Periods for Emission Monitors

- a) Whenever any emissions monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part—75, data shall be substituted using the applicable missing data procedures in Subparts D and I of 40 CFR Part—75.
- Audit decertification Decertification. Whenever both an audit of an emissions monitoring system and a review of the initial certification or recertification application reveal that any emissions monitoring system should not have been certified or recertified because it did not meet a particular performance specification or other requirement under Section 225.250 of this Subpart or the applicable provisions of 40 CFR-Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Agency will issue a notice of disapproval of the certification status of such monitoring system. For the purposes of this subsection, an audit shall be either a field audit or an audit of any information submitted to the Agency. By issuing the notice of disapproval, the Agency revokes prospectively the certification status of the emissions monitoring system. The data measured and recorded by the monitoring system shall not be considered valid qualityassured data from the date of issuance of the notification of the revoked certification status until the date and time that the owner or operator completes subsequently approved initial certification or recertification tests for the monitoring system. The owner or operator shall follow the applicable initial certification or recertification procedures in Section 225.250 of this Subpart for each disapproved monitoring system.

Section 225.261 Additional Requirements to Provide Heat Input Data

The owner or operator of an EGU that monitors and reports mercury mass emissions using a mercury concentration monitoring system and a flow monitoring system shall also monitor and report heat input rate at the EGU level using the procedures set forth in 40 CFR Part 75.

Section 225.263 Monitoring of Gross Electrical Output

The owner or operator of an EGU complying with this Subpart by means of Section 225.230(a)(1) or using electrical output (Oi) and complying by means of Section 225.230(b) or (d) or Section 225.232 of this Subpart shall monitor gross electrical output of the associated generator(s) in MWh on an hourly basis.

Section 225.265 Coal Analysis for Input Mercury Levels

- a) The owner or operator of an EGU complying with this Subpart by means of Section 225.230(a)(2) or using input mercury levels (Ii) and complying by means of Section 225.230(b) or (d) or Section 225.232 of this Subpart shall:
- 1) Perform daily sampling of the coal combusted in the EGU for mercury content. The owner or operator of such EGU shall collect a minimum of one 2-lb grab sample per day of operation from the belt feeders anywhere between the crusher house or breaker building and the boiler. Such The sample shall be taken in such a manner so as to provide a representative mercury content for the coal burned on that day.
  - 2) Analyze the grab coal sample for the following:
- A) Determine the heat content using ASTM D5865-04 or equivalent approved in writing by the Agency.
- B) Determine the moisture content using ASTM D3173-03 or equivalent approved in writing by the Agency.
- C) Measure the mercury content using ASTM D6414-01, ASTM D3684-01, or equivalent approved in writing by the Agency.
- 3) The owner or operator of multiple EGUs at the same source using the same crusher house or breaker building may take one sample per crusher house or breaker building, rather than one per EGU.
- 4) The owner or operator of an EGU shall use the data analyzed under subsection (b) of this Section to determine the mercury content in terms of lbs/trillion Btu.
- b) The owner or operator of an EGU that must conduct sampling and analysis of coal pursuant to subsection (a) of this Section, shall begin such activity by the following date:
- 1) If the EGU is in daily service, at least 30 days before the start of the month for which such activity will be required.
- 2) If the EGU is not in daily service, on the day that the EGU resumes operation.

Section 225.270 Notifications

The owner or operator of a source with one or more EGUs shall submit written notice to the Agency according to the provisions in 40 CFR 75.61 for each EGU or group of EGUs monitored at a common stack and each non-EGU monitored under 40 CFR 75.82(b)(2)(ii).

Section 225.290 Recordkeeping and Reporting

- a) General provisions. Provisions
- 1) The owner or operator of an EGU and its designated representative shall comply with all applicable recordkeeping and reporting requirements in this Section and with all applicable recordkeeping and reporting requirements of 40 CFR 75.84.

- 2) The owner or operator of an EGU shall maintain records for each month identifying the emission standard in Section 225.230(a) or 225.237(a) of this Section with which it is complying or whichthat is applicable for the EGU and the following records related to the emissions of mercury that the EGU is allowed to emit:
- A) For an EGU for which the owner or operator is complying with this Subpart by means of Section 225.230(a)(2) or 225.237(a)(1)(B) or using input mercury levels to determine the allowable emissions of the EGU, records of the daily mercury content of coal used (lbs/trillion Btu) and the daily and monthly input mercury (lbs), which shall be kept in the file required under 40 CFR 75.84(a).
- B) For an EGU for which the owner or operator of an EGU complying with this Subpart by means of Section 225.230(a)(1) or 225.237(a)(1)(A) or using electrical output to determine the allowable emissions of the EGU, records of the daily and monthly gross electrical output (GWh), which shall be kept in the file required under 40 CFR 75.84(a).
- 3) The owner or operator of an EGU shall maintain records of the following for each EGU:
- A) Monthly emissions of mercury from the EGU.
- B) For an EGU for which the owner or operator is complying by means of Section 225.230(b) or (d) of this Subpart, records of the monthly allowable emissions of mercury from the EGU.
- 4) The owner or operator of an EGU that is participating in an Averaging Demonstration pursuant to Section 225.232 of this Subpart shall maintain records identifying all sources and EGUs covered by the Demonstration for each month and, within 60 days of after the end of each calendar month, calculate and record the actual and allowable mercury emissions of the EGU for the month and the applicable 12-month rolling period.
- 5) The owner or operator of an EGU shall maintain the following records related to quality assurance activities conducted for emissions monitoring systems:
- A) The results of quarterly assessments conducted under Section 2.2 of Appendix B of 40 CFR—Part 75; and
- B) Daily/weekly system integrity checks under Section 2.6 of Appendix B of 40 CFR—Part 75.
- 6) The owner or operator of an EGU shall maintain an electronic copy of all electronic submittals to the USEPA under 40 CFR 75.84(f).
- 7) The owner or operator of an EGU shall retain all records required by this Section at the source unless otherwise provided in the CAAPP permit issued for the source and shall make a copy of any record available to the Agency upon request.
- b) Quarterly <u>reportsReports</u>. The owner or operator of a source with one or more EGUs shall submit quarterly reports to the Agency as follows:
- 1) These reports shall include the following information for operation of the EGUs during the quarter:

- A) The total operating hours of each EGU and the mercury CEMS, as also reported in accordance with 40 CFR  $\frac{Part}{r}$  75.
- B) A discussion of any significant changes in the measures used to control emissions of mercury from the EGUs or the coal supply to the EGUs, including changes in the source of coal.
- C) Summary information on the performance of the mercury CEMS. When the mercury CEMS was not inoperative, repaired, or adjusted, except for routine zero and span checks, this shall be stated in the report.
- D) If the CEMS downtime was more than 5.0 percent of the total operating time for the EGU: the date and time identifying each period during which the CEMS was inoperative, except for routine zero and span checks; the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with 40 CFR—Part 75, i.e., the dates and results of the Linearity Test(s) and any Relative Accuracy Test Audit(s) during the quarter; a listing of any days when a required daily calibration was not performed; and the date and duration of any periods when the CEMS was out-of-control as addressed by Section 225.260 of this Subpart.
- 2) The owner or operator shall submit each quarterly report to the Agency within 45 days following the end of the calendar quarter covered by the report.
- c) Compliance <u>certificationCertification</u>. The owner or operator of a source with one or more EGUs shall submit to the Agency a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the EGUs' emissions are correctly and fully monitored. The certification shall state—that:
- 1)— The That the monitoring data submitted were recorded in accordance with the applicable requirements of this Section, Sections 225.240 through 225.270, and Section 225.290 of this Subpart, 225.270 and 40 CFR Part 75, including the quality assurance procedures and specifications; and
- 2) For an EGU with add-on mercury emission controls, a flue gas desulfurization system, a selective catalytic reduction system, or a compact hybrid particulate collector system and for all hours where mercury data are substituted in accordance with 40 CFR 75.34(a)(1):

### (A) ( That:

- i) The mercury add-on emission controls, flue gas desulfurization system, selective catalytic reduction system, or compact hybrid particulate collector system werewas operating within the range of parameters listed in the quality assurance/quality control program under Appendix B to 40 CFR Part—75; or
- ii) With regard to a flue gas desulfurization system or a selective catalytic reduction system, quality-assured SO2 emission data recorded in accordance with 40 CFR  $\frac{Part}{75}$  document that the flue gas desulfurization system was operating properly, or quality-assured NOX emission data recorded in accordance with 40 CFR  $\frac{Part}{75}$  document that the selective catalytic reduction system, was operating properly, as applicable; and
- B) The substitute data values do not systematically underestimate mercury emissions.

- d) Annual Certification of Compliance
- 1) The owner or operator of a source with one or more EGUs subject to this Subpart shall submit to the Agency an Annual Certification of Compliance with this Subpart no later than May 1 of each year and shall address compliance for the previous calendar year. Such certification shall be submitted to the Agency, Air Compliance and Enforcement Section, and the Air Regional Field Office.
- 2) Annual Certifications of Compliance shall indicate whether compliance existed for each EGU for each month in the year covered by the Certification and certification to that effect. In addition, for each EGU, the owner or operator shall provide the following:
- A) If complying with this Subpart by means of Section 225.230(a)(1)(A) or 225.237(a)(1)(A):
- i) Actual emissions rate, in lb/GWh, for each 12-month rolling period ending in the year covered by the Certification;
- ii) Actual emissions, in lbs, and gross electrical output, in GWh, for each 12-month rolling period ending in the year covered by the Certification; and
- iii) Actual emissions, in lbs, and gross electrical output, in GWh, for each month in the year covered by the Certification and in the previous year.
- B) If complying with this Subpart by means of Section 225.230(a)(1)(B) or 225.237(a)(1)(B):
- i) Actual control efficiency for emissions for each 12-month rolling period ending in the year covered by the Certification, expressed as a percent;
- ii) Actual emissions, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each 12-month rolling period ending in the year covered by the Certification; and
- iii) Actual emissions, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each month in the year covered by the Certification and in the previous year.
- C) If complying with this Subpart by means of Section 225.230(b):
- i) Actual emissions and allowable emissions for each 12-month rolling period ending in the year covered by the Certification; and
- ii) Actual emissions and allowable emissions, and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
- D) If complying with this Subpart by means of Section 225.230(d):
- i) Actual emissions and allowable emissions for all EGUs at the source for each 12-month rolling period ending in the year covered by the Certification; and

- ii) Actual emissions and allowable emissions, and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
- E) If complying with this Subpart by means of Section 225.232:
- i) Actual emissions and allowable emissions for all EGUs at the source in an Averaging Demonstration for each 12-month rolling period ending in the year covered by the Certification; and
- ii) Actual emissions and allowable emissions, with the standard of compliance the owner or operator was utilizing for each EGU at the source in an Averaging Demonstration for each month for all EGUs at the source in an Averaging Demonstration in the year covered by the Certification and in the previous year.
- F) Any deviations, data substitutions, or exceptions each month and discussion of the reasons for such deviations, data substitutions, or exceptions.
- 3) All Annual Certifications of Compliance required to be submitted shall include the following certification by a responsible official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- 4) The owner or operator of an EGU shall submit its first Annual Certification of Compliance to address calendar year 2009 or the calendar year in which the EGU commences commercial operation, whichever is later. Notwithstanding subsection (d)(2) of this Section, in the Annual Certifications of Compliance that are required to be submitted by May 1, 2010,2010 and May 1, 2011,2011 to address calendar years 2009 and 2010, respectively, the owner or operator is not required to provide 12-month rolling data for any period that ends before June 30, 2010.
- e) Deviation reportsReports. For each EGU, the owner or operator shall promptly notify the Agency of deviations from requirements of this Subpart. At a minimum, these notifications shall include a description of such deviations within 30 days of after discovery of the deviations, and a discussion of the possible cause of such deviations, any corrective actions, and any preventative measures taken.
- f) Quality <u>assurance Assurance RATA reportsReports</u>. The owner or operator of an EGU shall submit to the Agency, Air Compliance and Enforcement Section, the quality assurance RATA report for each EGU or group of EGUs monitored at a common stack and each non-EGU under 40 CFR 75.82(b)(2)(ii) within 45 days after completing a quality assurance RATA.

Section 225.295 Treatment of Mercury Allowances

Any mercury allowances allocated to the Agency by the USEPA shall be treated as follows:

- a) No such allowances shall be allocated to any owner or operator of an EGU or other sources of mercury emissions into the atmosphere or discharges into the waters of the State.
- b) The Agency shall hold all allowances allocated by the USEPA to the State. At the end of each calendar year, the Agency shall instruct the USEPA to retire permanently all such allowances.

### JCAR350225-0605957r01

ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED RULE

Document comparison done by DeltaView on Friday, March 24, 2006 9:29:07 AM

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1		TITLE 35: ENVIRONMENTAL PROTECTION
2		SUBTITLE B: AIR POLLUTION
3		CHAPTER I: POLLUTION CONTROL BOARD
4		SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
5		FOR STATIONARY SOURCES
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7		PART 225
8		CONTROL OF EMISSIONS FROM LARGE COMBUSTION SOURCES
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12	Section	
13	225.100	Severability
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21	Section	
22	225.200	Purpose
23	225.202	Measurement Methods
24	225.205	Applicability
25	225.210	Compliance Requirements
26	225.220	Clean Air Act Permit Program (CAAPP) Permit Requirements
27	225.230	Emission Standards for EGUs at Existing Sources
28	225.232	Averaging Demonstrations for Existing Sources
29	225.235	Units Scheduled for Permanent Shut Down
30	225.237	Emission Standards for New Sources with EGUs
31	225.240	General Monitoring and Reporting Requirements
32	225.250	Initial Certification and Recertification Procedures for Emissions Monitoring
33	225.260	Out of Control Periods for Emission Monitors
34	225.261	Additional Requirements to Provide Heat Input Data
35	225.263	Monitoring of Gross Electrical Output
36	225.265	Coal Analysis for Input Mercury Levels
37	225.270	Notifications
38	225.290	Recordkeeping and Reporting
39	225.295	Treatment of Mercury Allowances
40		
41		AITY: Implementing Section 9.10 and authorized by Sections 27 and 28.5 of the
42	Environm	ental Protection Act [415 ILCS 5/9.10, 27 and 28.5].
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SUBPART A: GENERAL PROVISIONS  Section 225.100 Severability  If any Section, subsection or clause of this Part is found invalid, such finding shall not affect the validity of this Part as a whole or any Section, subsection or clause not found invalid.  Section 225.120 Abbreviations and Acronyms  Unless otherwise specified within this Part, the abbreviations used in this Part shall be the same as those found in 35 Ill. Adm. Code 211. The following abbreviations and acronyms are used in this Part:  Section 225.120 Abbreviations and Acronyms  Line Section 225.120 Abbreviations and Acronyms  Environmental Protection Act [415 ILCS 5]  But British thermal unit  CAA Clean Air Act [42 USC 7401 et seq.]  CAAPP Clean Air Act Permit Program  CO2 carbon dioxide  EGU electric generating unit  GWh gigawatt hour  hr hour  hr hour
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this Part:  58  59 Act Environmental Protection Act [415 ILCS 5]  60 Btu British thermal unit  61 CAA Clean Air Act [42 USC 7401 et seq.]  62 CAAPP Clean Air Act Permit Program  63 CO <sub>2</sub> carbon dioxide  64 EGU electric generating unit  65 GWh gigawatt hour  66 hr hour  67 lb pound
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68 MW megawatt
69 MWe megawatt electrical
70 MWh megawatt hour
71 NO <sub>x</sub> nitrogen oxides 72 O <sub>2</sub> oxygen
72 O <sub>2</sub> oxygen 73 RATA relative accuracy test audit
74 SO <sub>2</sub> sulfur dioxide
75 USEPA United States Environmental Protection Agency
75 OSLI A Office States Environmental Protection Agency 76
77 Section 225.130 Definitions
78
79 The definitions contained in this Section apply only to the provisions of this Part. Unless
otherwise defined in this Section and unless a different meaning of a term is clear from its
context, the definitions of terms used in this Part shall have the meanings specified for those
82 terms in 35 Ill. Adm. Code 211.
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"Averaging demonstration" means, with regard to Subpart B of this Part, a
demonstration of compliance that is based on the combined performance of EGUs
at two or more sources.

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"Boiler" means an enclosed fossil or other fuel-fired combustion device used to produce heat and to transfer heat to recirculating water, steam, or other medium.

"Bottoming-cycle cogeneration unit" means a cogeneration unit in which the energy input to the unit is first used to produce useful thermal energy and at least some of the reject heat from the useful thermal energy application or process is then used for electricity production.

"Coal" means any solid fuel classified as anthracite, bituminous, subbituminous, or lignite by the American Society for Testing and Materials (ASTM) Standard Specification for Classification of Coals by Rank D388-77, 90, 91, 95, 98a, or 99 (Reapproved 2004).

"Coal-derived fuel" means any fuel (whether in a solid, liquid or gaseous state) produced by the mechanical, thermal, or chemical process.

"Coal-fired" means combusting any amount of coal or coal-derived fuel, alone or in combination with any amount of any other fuel, during a specified year.

"Cogeneration unit" means a stationary, fossil fuel-fired boiler or stationary, fossil fuel-fired combustion turbine:

Having equipment used to produce electricity and useful thermal energy for industrial, commercial, heating, or cooling purposes through the sequential use of energy; and

Producing during the 12-month period starting on the date the unit first produces electricity and during any calendar year after the calendar year in which the unit first produces electricity:

For a topping-cycle cogeneration unit:

Useful thermal energy not less than 5 percent of total energy output; and

Useful power that, when added to one-half of useful thermal energy produced, is not less than 42.5 percent of total energy input, if useful thermal energy produced is 15 percent or more of total energy output, or not less than 45 percent of total energy input, if useful thermal energy produced is less than 15 percent of total energy output.

130	For a bottoming-cycle cogeneration unit, useful power not less
131	than 45 percent of total energy input.
132	
133	"Combustion turbine" means:
134	
135	An enclosed device comprising a compressor, a combustor, and a turbine
136	and in which the flue gas resulting from the combustion of fuel in the
137	combustor passes through the turbine, rotating the turbine; and
138	If the analysis and device under the charge management of this definition is
139	If the enclosed device under the above paragraph of this definition is
140	combined cycle, any associated heat recovery steam generator and steam
141	turbine.
142	WC
143	"Commence commercial operation" means, with regard to Subpart B of this Part,
144	with regard to an Electric Generating Unit that serves a generator, to have begun
145	to produce steam, gas, or other heated medium used to generate electricity for sale
146	or use, including test generation. Such date shall remain the unit's date of
147	commencement of operation even if the Electric Generating Unit is subsequently
148	modified, reconstructed or repowered.
149	"Design at a design and the control of this Dort the
150	"Designated representative" means, with regard to Subpart B of this Part, the
151	same as defined in 40 CFR 60.4102.
152	"I had moone a conduit or dust through which come or other motter is exhausted
153	"Flue" means a conduit or duct through which gases or other matter is exhausted
154 155	to the atmosphere.
156	"Gross electrical output" means the total electrical output from an Electric
157	Generating Unit before making any deductions for energy output used in any way
157	related to the production of energy. For an Electric Generating Unit generating
159	only electricity, the gross electrical output is the output from the turbine/generator
160	set.
161	Sct.
162	"Input mercury" means the mass of mercury that is contained in the coal
163	combusted within an Electric Generating Unit.
164	combusted within an Electric Generating Offic.
165	"Nameplate capacity" means, starting from the initial installation of a generator,
166	the maximum electrical generating output (in MWe) that the generator is capable
167	of producing on a steady-state basis and during continuous operation (when not
168	restricted by seasonal or other deratings) as specified by the manufacturer of the
169	generator or, starting from the completion of any subsequent physical change in
170	the generator resulting in an increase in the maximum electrical generating output
171	(in MWe) that the generator is capable of producing on a steady-state basis and
172	during continuous operation (when not restricted by seasonal or other deratings),
. , <del></del>	during communication (when not recurred by sounding of other defaultigs),

173 such increased maximum amount as specified by the person conducting the physical change. 174 175 "Output-based emission standard" means, with regard to Subpart B of this Part, a 176 maximum allowable rate of emissions of mercury per unit of gross electrical 177 output from an Electric Generating Unit. 178 179 "Repowered" means, with regard to an EGU, replacement of a coal-fired boiler 180 with one of the following coal-fired technologies at the same source as the coal-181 182 fired boiler: 183 Atmospheric or pressurized fluidized bed combustion; 184 185 Integrated gasification combined cycle; 186 187 188 Magnetohydrodynamics; 189 190 Direct and indirect coal-fired turbines; 191 192 Integrated gasification fuel cells; or 193 194 As determined by the USEPA in consultation with the United States Department of Energy, a derivative of one or more of the technologies under this definition 195 and any other coal-fired technology capable of controlling multiple combustion 196 emissions simultaneously with improved boiler or generation efficiency and with 197 198 significantly greater waste reduction relative to the performance of technology in widespread commercial use as of January 1, 2005. 199 200 "Rolling 12-month basis" means, with regard to Subpart B of this Part, a 201 202 determination made on a monthly basis from the relevant data for a particular calendar month and the preceding 11 calendar months (total of 12 months of 203 data), with two exceptions. For determinations involving one EGU, calendar 204 205 months in which the EGU does not operate (zero EGU operating hours) shall not be included in the determination, and shall be replaced by a preceding month or 206 months in which the EGU does operate, so that the determination is still based on 207 208 12 months of data. For determinations involving two or more EGUs, calendar months in which none of the EGUs covered by the determination operates (zero 209 210 EGU operating hours) shall not be included in the determination, and shall be replaced by preceding months in which at least one of the EGU covered by the 211 determination does operate, so that the determination is still based on 12 months 212 213 of data.

216						
217	The following materials are incorporated by reference. These incorporations do not include any					
218	later amendm	ients or	editions.			
219						
220	a)		FR 60, § 60.17, § 60.45a, § 60.49a(k)(1), § 60.49a(p), § 60.50a(h), and §§			
221		60.41	170 through 60.4176 (2005).			
222						
223	b)	40 C	FR 75 (2005).			
224						
225	c)	AST	M. American Society for Testing and Materials, 100 Barr Harbor Drive, P.O.			
226		Box (	C700, West Conshohocken PA 19428-2959, (610) 832-9585:			
227						
228		1)	ASTM D388-77, 90, 91, 95, 98a, or 99, Classification of Coals by Rank			
229		·	(Reapproved 2004).			
230						
231		2)	ASTM D3173-03, Standard Test Method for Moisture in the Analysis			
232			Sample of Coal and Coke (Approved April 10, 2003).			
233						
234		3)	ASTM D3684-01, Standard Test Method for Total Mercury in Coal by the			
235		,	Oxygen Bomb Combustion/Atomic Absorption Method (Approved			
236			October 10, 2001).			
237						
238		4)	ASTM D5865-04, Standard Test Method for Gross Calorific Value of			
239		- /	Coal and Coke (Approved April 1, 2004).			
240			( Transition of the state of th			
241		5)	ASTM D6414-01, Standard Test Method for Total Mercury in Coal and			
242		- /	Coal Combustion Residues by Acid Extraction or Wet Oxidation/Cold			
243			Vapor Atomic Absorption (Approved October 10, 2001).			
244			· upor			
245		6)	ASTM D6784-02, Standard Test Method for Elemental, Oxidized,			
246		٥,	Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired			
247			Stationary Sources (Ontario Hydro Method) (Approved April 10, 2002).			
248			Stationary Sources (Granto 11) and 1110mody (Expris von 12002).			
249		9	SUBPART B: CONTROL OF MERCURY EMISSIONS			
250			ROM COAL-FIRED ELECTRIC GENERATING UNITS			
251		•				
252	Section 225.2	.00 Pu	rnose			
253	Section 223.2	, 00 I G	1 pose			
25 <b>4</b>	The nurnose of	of this S	Subpart is to control the emissions of mercury from coal-fired electrical			
255	generating un		•			
256 256	bonoraung un		,AAAAAAAA			
257	Section 225.2	02 M	easurement Methods			
	COULDIE MACON	17 T	PROTECT VEREVER VALUE VA			

259	Measurement	of mercury shall be according to the following:				
260						
261	a)	Continuous emission monitoring pursuant to 40 CFR 75 (2005).				
262						
263	b)	ASTM D3173-03, Standard Test Method for Moisture in the Analysis Sample of				
264		Coal and Coke (Approved April 10, 2003).				
265						
266	c)	ASTM D3684-01, Standard Test Method for Total Mercury in Coal by the				
267	,	Oxygen Bomb Combustion/Atomic Absorption Method (Approved October 10,				
268		2001).				
269						
270	d)	ASTM D5865-04, Standard Test Method for Gross Calorific Value of Coal and				
271	- /	Coke (Approved April 1, 2004).				
272						
273	e)	ASTM D6414-01, Standard Test Method for Total Mercury in Coal and Coal				
274	-,	Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic				
275		Absorption (Approved October 10, 2001).				
276		( <del></del>				
277	f)	ASTM D6784-02, Standard Test Method for Elemental, Oxidized, Particle-Bound				
278	-/	and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources				
279		(Ontario Hydro Method) (Approved April 10, 2002).				
280		(Ontaile 12) the 1220000) (Capped of 120000).				
281	Section 225.2	05 Applicability				
282	~ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
283	The following	g stationary coal-fired boilers and stationary coal-fired combustion turbines are				
284	EGUs and are subject to this Subpart:					
285	2000 4110 411	, cuojou te una cuopatti				
286	a)	Except as provided in subsection (b) of this Section, a unit serving, at any time				
287		since the start-up of the unit's combustion chamber, a generator with nameplate				
288		capacity of more than 25 MWe producing electricity for sale.				
289		capacity of more than 20 1111 optoducing electricity for bale.				
290	b)	For a unit that qualifies as a cogeneration unit during the 12-month period starting				
291	٠,	on the date the unit first produces electricity and continues to qualify as a				
292		cogeneration unit, a cogeneration unit serving at any time a generator with				
293		nameplate capacity of more than 25 MWe and supplying in any calendar year				
294		more than one-third of the unit's potential electric output capacity or 219,000				
295		MWh, whichever is greater, to any utility power distribution system for sale. If a				
296		unit qualifies as a cogeneration unit during the 12-month period starting on the				
297		date the unit first produces electricity but subsequently no longer qualifies as a				
298		cogeneration unit, the unit shall be subject to subsection (a) of this Section				
299		starting on the day on which the unit first no longer qualifies as a cogeneration				
300		unit.				
301		WALLS.				
~ U X						

302	Section 225	210 Compliance Requirements
303 304	۵)	Dormit Paguiromente
304	a)	Permit Requirements  The owner or operator of each source with one or more EGUs subject to this
		*
306		Subpart at the source must apply for a CAAPP permit that addresses the
307		applicable requirements of this Subpart.
308 309	<b>b</b> )	Manitaring Paguiroments
310	b)	Monitoring Requirements
311		1) The owner or operator of each source and each EGU at the source must
312		comply with the monitoring requirements of Sections 225.240 through
313		225.290 of this Subpart.
314		223.290 of this Subpart.
315		2) The compliance of each EGU with the mercury requirements under
316		Sections 225.230 and 225.237 of this Subpart shall be determined by the
		emissions measurements recorded and reported in accordance with
317		•
318		Sections 225.240 through 225.290 of this Subpart.
319	-	Manager Emission Dadystian Dagwinsmanta
320	c)	Mercury Emission Reduction Requirements
321		The owner or operator of any EGU subject to this Subpart shall comply with
322		applicable requirements for control of mercury emissions under Section 225.230
323 324		or Section 225.237 of this Subpart.
325	4)	Department and Departing Dequirements
326	d)	Recordkeeping and Reporting Requirements
327		Unless otherwise provided, the owner or operator of a source with one or more EGUs at the source shall keep on site at the source each of the documents listed in
328		
329		subsections (d)(1) through (d)(3) of this Section for a period of five years from the date the document is created. This period may be extended for cause, at any time
330		prior to the end of five years, in writing by the Agency.
331		prior to the end of five years, in writing by the Agency.
332		1) All emissions monitoring information, in accordance with Sections
333		225.240 through 225.290 of this Subpart.
334		223.240 tillough 223.290 of tills Suopart.
335		2) Copies of all reports, compliance certifications, and other submissions and
336		all records made or required or documents necessary to demonstrate
337		compliance with the requirements of this Subpart.
338		compliance with the requirements of this Subpart.
339		3) Copies of all documents used to complete a permit application and any
340		
340 341		other submission under this Subpart.
341 342	۵)	Liability
342 343	e)	Liability
ノマノ		

344 345		,	owner or operator of each source with one or more EGUs shall meet equirements of this Subpart.
346			•
347		2) Any	provision of this Subpart that applies to a source shall also apply to
348			wner and operator of such source and to the owner and operator of
349			EGU at the source.
350		Cacii	Edo at the source.
351		3) Any	provision of this Subpart that applies to an EGU shall also apply to
352		,	wner and operator of such EGU.
353		the o	when and operator of such 200.
354	f)	Effect on Ot	her Authorities. No provision of this Subpart shall be construed as
35 <del>4</del> 355	1)		r excluding the owner and operator of a source or EGU from
			with any other provision of an approved State Implementation Plan, a
356			Act, or the CAA.
357		permit, the F	ACI, OF the CAA.
358	Section 125	220 Clean Air	r Act Permit Program (CAAPP) Permit Requirements
359 360	Section 225.2	220 Clean An	Act Fernit Frogram (CAAFF) Fernit Requirements
361	a)	Application	Requirements
362	a)	Application	Requirements
363		1) Each	source with one or more EGUs subject to the requirements of this
364		,	art is required to submit a CAAPP permit application that addresses
365			oplicable requirements of this Subpart, applicable to each EGU at the
366		sourc	
		Sourc	· · · · · · · · · · · · · · · · · · ·
367		2) For 0	ny ECII that commonand commoraid anarotion:
368		2) For a	ny EGU that commenced commercial operation:
369		<b>A</b> \	on an hafara Dagamhar 21, 2008, the asympton or anaratar of that
370		A)	on or before December 31, 2008, the owner or operator of that
371			EGU must submit an initial permit application or application for
372			CAAPP permit modification that meets the requirements of this
373			Section by December 31, 2008.
374		<b>D</b> /	often December 21, 2008, the extract or encurator of envision by ECII
375		B)	after December 31, 2008, the owner or operator of any such EGU
376			must submit an initial CAAPP permit application or application fo
377			CAAPP modification that meets the requirements of this Section
378			not later than 180 days before initial startup of the EGU, unless the
379			construction permit issued for the EGU addresses the requirements
380			of this Subpart.
381	1 \	Courte to Ci	Damaia Amulianaiana
382	b)		Permit Applications
383			o other information required for a complete application for CAAPP
384		*	AAPP permit modification, the application shall include the following
385		information:	
386			

387 388		1)	The ORIS (Office of Regulatory Information Systems) or facility code assigned to the source by the Energy Information Administration, if
389			applicable.
390			
391		2)	Identification of each EGU at the source.
392		,	
393		3)	The intended approach to the monitoring requirements of Sections
394		,	225.240 through 225.290 of this Subpart.
395			,
396		4)	The intended approach to the mercury emission reduction requirements of
397		,	Section 225.230 or 225.237 of this Subpart, as applicable.
398			
399	c)	Permi	t Contents
400	-,		
401		1)	Each CAAPP permit issued by the Agency for a source with one or more
402		,	EGUs subject to the requirements of this Subpart shall contain federally
403			enforceable conditions addressing all applicable requirements of this
404			Subpart, which conditions shall be a complete and segregable portion of
405			the source's entire CAAPP permit.
406			F
407		2)	In addition to conditions related to the applicable requirements of this
408		_/	Subpart, each such CAAPP permit shall also contain the information
409			specified under subsection (b) of this Section.
410			· · · · · · · · · · · · · · · · · · ·
411	Section 225.2	230 Em	ission Standards for EGUs at Existing Sources
412			g
413	a)	Emiss	ion Standards
414	/		
415		1)	Beginning July 1, 2009, the owner or operator of a source with one
416		/	or more EGUs subject to this Subpart that commenced commercial
417			operation on or before December 31, 2008 shall comply with one of the
418			following standards for each EGU on a rolling 12-month basis:
419			
420			A) An emission standard of 0.0080 lb mercury/GWh gross electrical
421			output; or
422			T
423			B) A minimum 90-percent reduction of input mercury.
424			
425		2)	For an EGU complying with subsection (a)(1)(A) of this Section, the
426		-,	actual mercury emission rate of the EGU for each 12-month rolling period,
427			as monitored in accordance with this Subpart and calculated as follows,
428			shall not exceed the applicable emission standard:
42 <b>9</b>			approved the approved amount outland.

430				$ER = \sum_{i=1}^{12} E_i \div \sum_{i=1}^{12} O_i$
431				
432			Where:	
433				
434			ER =	Actual mercury emissions rate of the EGU for the particular 12-
435				month rolling period, expressed in lb/GWh.
436			$E_i =$	Actual mercury emissions of the EGU, in lbs, in an individual
437			•	month in the 12-month rolling period, as determined in
438				accordance with the emissions monitoring provisions of this
439				Subpart.
440			$O_i =$	Gross electrical output of the EGU, in GWh, in an individual
441			- •	month in the 12-month rolling period, as determined in
442				accordance with Section 225.263 of this Subpart.
443				•
444		3)	For an E	GU complying with subsection (a)(1)(B) of this Section, the
445		- /		entrol efficiency for mercury emissions achieved by the EGU for
446				month rolling period, as monitored in accordance with this
447				and calculated as follows, shall meet or exceed the applicable
448			•	y requirement:
449				, , , , , , , , , , , , , , , , , , ,
450				$CE = 100 \times \{1 - (\sum_{i=1}^{12} E_i \div \sum_{i=1}^{12} I_i)\}$
451				
452			Where:	
453				
454			CE =	Actual control efficiency for mercury emissions of the EGU for
455				the particular 12-month rolling period, expressed as a percent.
456			$E_i =$	Actual mercury emissions of the EGU, in lbs, in an individual
457				month in the 12-month rolling period, as determined in
458				accordance with the emissions monitoring provisions of this
459				Subpart.
460			$I_i =$	Amount of mercury in the fuel fired in the EGU, in pounds, in an
461				individual month in the 12-month rolling period, as determined
462				in accordance with Section 225.265 of this Subpart.
463				
464	b)	Altern	ative Emi	ssion Standards for Single EGUs
465	,			- -
466		1)	As an alt	ernative to compliance with one of the above emission standards
467		,		etion (a) of this Section, the owner or operator of the EGU may
468				with the emission standards of this Subpart by demonstrating that
469				l emissions of mercury from the EGU are less than the allowable
470				s of mercury from the EGU on a rolling 12-month basis.
			J	

2) For this purpose, for each rolling 12-month period, the actual emissions of mercury from the EGU, as monitored in accordance with this Subpart, must not exceed the allowable emissions of mercury from the EGU, as further provided by the following formulas:

$$E_{12} \leq A_{12}$$
 $E_{12} = \sum_{i=1}^{12} E_i$ 
 $A_{12} = \sum_{i=1}^{12} A_i$ 

Where:

 $E_{12}$  = Actual mercury emissions of the EGU for the particular 12-month rolling period.

 $A_{12}$  = Allowable mercury emissions of the EGU for the particular 12-month rolling period

 $E_i$  = Actual mercury emissions of the EGU in an individual month in the 12-month rolling period.

 $A_i$  = Allowable mercury emissions of the EGU in an individual month in the 12-month rolling period, based on either the input mercury to the unit  $(A_{Input i})$  or the electrical output from the EGU  $(A_{Output i})$ , as selected by the owner or operator of the EGU for that given month.

 $A_{Input I}$  = Allowable mercury emissions of the EGU in an individual month based on the input mercury to the EGU, calculated as 10.0 percent (or 0.100) of the input mercury to the EGU.

 $A_{Output I}$  = Allowable mercury emissions of the EGU in a particular month based on the electrical output from the EGU, calculated as the product of the output based mercury limit, i.e., 0.0080 lb/GWh, and the electrical output from the EGU, in GWh.

3) If the owner or operator of an EGU does not conduct the necessary sampling, analysis, and recordkeeping, in accordance with Section 225.265 of this Subpart, to determine the mercury input to the EGU, the allowable emissions of the EGU must be calculated based on the electrical output of the EGU.

**4** 50**5** 

If two or more EGUs are served by common stack(s) and the owner or operator 508 c) conducts monitoring for mercury emissions in the common stack(s), as provided 509 for by 40 CFR 75, Subpart I, such that the mercury emissions of each EGU are 510 not determined separately, compliance of the EGUs with the applicable emission 511 standards of this Subpart shall be determined as if the EGUs were a single EGU. 512 513 d) Alternative Emission Standards for Multiple EGUs 514 515 1) As an alternative to compliance with the emission standards of subsection 516 (a) of this Section, the owner or operator of a source with an EGU may 517 comply with the emission standards of this Subpart by demonstrating that 518 the actual emissions of mercury from all EGUs at the source are less than 519 the allowable emissions of mercury from all EGUs at the source on a 520 rolling 12-month basis. 521 522 For this purpose, for each rolling 12-month period, the actual emissions of 2) 523 mercury from all the EGUs at the source, as monitored in accordance with 524 this Subpart, must not exceed the sum of the allowable emissions of 525 mercury from all the EGUs at the source, as further provided by the 526 following formulas: 527 528  $E_S \leq A_S$ 529  $E_S = \sum_{i=1}^n E_i$ 530  $A_S = \sum_{i=1}^n A_i$ 531 Where: 532 533 Sum of the actual mercury emissions of the EGUs at the source. 534  $E_S$  $A_S$ Sum of the allowable mercury emissions of the EGUs at the 535 536 source. Actual mercury emissions of an individual EGU at the source, as 537  $E_i$ determined in accordance with subsection (b)(2) of this Section. 538 Allowable mercury emissions of an individual EGU at the 539  $A_i$ source, as determined in accordance with subsection (b)(2) of 540 this Section. 541

Number of EGUs covered by the demonstration.

542

543

n

544 545 546 547 548 549 550		on thi requir EGUs consid	owner or operator of a source with two or more EGUs that is relying is subsection (d) to demonstrate compliance fails to meet the rements of this subsection (d) in a given 12-month rolling period, all is at such source covered by the compliance demonstration are dered out of compliance with the applicable emission standards of subpart for the entire last month of that period.
551	Section 225.2	32 Averagin	g Demonstrations for Existing Sources
552	۵)	Through Dog	ember 31, 2013, as an alternative to compliance with the emission
553 554	a)	_	Section 225.230(a) of this Subpart, the owner or operator of an EGU
555			with the emission standards of this Subpart by means of an
556			emonstration (Demonstration) that shows that the actual emissions of
557			n the EGU and other EGUs at the source and other EGUs at other
558		sources cover	red by the Demonstration are less than the allowable emissions of
559		mercury fron	all EGUs covered by the Demonstration on a rolling 12-month
560		basis.	
561			
562	b)		each source covered by a Demonstration must also comply with one
563			ing emission standards on a source-wide basis for the period covered
564		by the Demo	nstration:
565		1) An on	nission standard of 0.020 lb mercury/GWh gross electrical output; or
566 567		1) An en	mission standard of 0.020 to increar y/G will gross electrical output, or
568		2) A mir	nimum 75 percent reduction of input mercury.
569		2) 111111	minum 75 percent reduction of imput mercury.
570	c)	For the purpo	ose of this Section, compliance shall be determined using the
571			Section 225.230(a)(2), (a)(3), or (d)(2) of this Subpart, as applicable,
572			l EGUs at the sources covered by the Demonstration, rather than
573		only EGUs at	t one source.
574			
575	d)	Limitations o	on Demonstrations
576			
577			wners or operators of more than one existing source with EGUs can
578			participate in Demonstrations that include other existing sources that
579		they o	own or operate.
580		2) Single	e Existing Source Demonstrations
581 582		2) Single	Existing Source Demonstrations
583		A)	The owner or operator of only a single existing source with EGUs
58 <b>4</b>		$A_j$	(i.e., City, Water, Light & Power, City of Springfield, ID
58 <b>5</b>			167120AAO; Electric Energy, Inc., ID 127855AAC; Kincaid
586			Generating Station, ID 021814AAB; and Southern Illinois Power

587		Cooperative/Marion Generating Station, ID 199856AAC) can only
588		participate in Demonstrations with other such owners or operators
589		of a single existing source of EGUs.
590		
591		B) Participation in Demonstrations under this Section by the owner or
592		operator of only a single existing source with EGUs must be
593		authorized through federally enforceable permit conditions for
594		each such source participating in the Demonstration.
595		
596	e)	A source may be included in only one Demonstration during each rolling 12-
597		month period.
598		
599	f)	The owner or operator of EGUs using Demonstrations to show compliance with
600	,	this Subpart must complete the determination of compliance for each 12-month
601		rolling period no later than 60 days following the end of the period.
602		
603	g)	If averaging is used to demonstrate compliance with this Subpart, the effect of a
604	-	failure to demonstrate compliance shall be that the compliance status of each
605		source shall be determined under Section 225.230 of this Subpart as if the sources
606		were not covered by a Demonstration.
607		
608	h)	For purposes of this Section, if the owner or operator of any source that
609		participates in a Demonstration with an owner or operator of a source that does
610		not maintain the required records, data, and reports for the EGUs at the source, or
611		does not submit copies of such records, data, or reports to the Agency upon
612		request, then the effect of this failure will be deemed to be a failure to
613		demonstrate compliance and the compliance status of each source shall be
614		determined under Section 225.230 of this Subpart as if the sources were not
615		covered by a Demonstration.
616		
617	Section 225.2	35 Units Scheduled for Permanent Shut Down
618		
619	a)	The emission standards of Section 225.230(a) of this Subpart are not applicable to
620		an EGU that will be permanently shut down as follows:
621		
622		1) The owner or operator of an EGU for which this Section is being relied
623		upon shall by no later than June 30, 2009:
624		
625		A) Have notified the Illinois EPA that it is planning to permanently
626		shut down the EGU by the applicable date specified in subsection
627		(a)(3) or (4) of this Section. This notification shall be
628		accompanied by a description of the actions that have already been
629		taken to allow the shut down of the EGU and a description of the
		•

630 631 632 633			future actions that must be accomplished to complete the shut down of the EGU, with the anticipated schedule for those actions and the anticipated date of permanent shut down of the unit.
634 635 636 637		B)	Have applied for a construction permit or be actively pursuing a federally enforceable agreement that requires the EGU to be permanently shut down in accordance with this Section.
638 639 640		C)	Have applied for revisions to the operating permit(s) for the EGU to include provisions that terminate the authorization to operate the unit in accordance with this Section.
641 642 643 644	2)		wner or operator of an EGU for which this Section is being relied shall by no later than June 30, 2010:
645 646 647		A)	Have obtained a construction permit or entered into a federally enforceable agreement as addressed by subsection (a)(1)(B) of this Section; or
648 649 650 651		B)	Have obtained revised operating permit(s) in accordance with subsection (a)(1)(C) of this Section.
652 653 654 655	3)		lan for permanent shut down of the EGU must provide for the EGU permanently shut down by no later than the applicable date specified:
656 657 658		A)	If the owner or operator of the EGU is not constructing a new EGU or other generating units to specifically replace the existing EGU, by December 31, 2010.
659 660 661 662		B)	If the owner or operator of the EGU is constructing a new EGU or other generating units to specifically replace the existing EGU, by December 31, 2011.
663 664 665 666	4)	by the or ope	wner or operator of the EGU must permanently shut down the EGU date specified in subsection (a)(3) of this Section, unless the owner erator submits a demonstration to the Illinois EPA before such date
667 668 669 670		protrac EGU, interfe	ng that circumstances beyond its reasonable control (such as cted delays in construction activity, unanticipated outage of another or protracted shakedown of a replacement unit) have occurred that ere with the plan for permanent shut down of the EGU, in which case
671 672		the da	te for shut down of the EGU may be extended as follows:

673		A)	If the owner or operator of the EGU is not constructing a new EGU
674			or other generating units to specifically replace the existing EGU,
675			for up to one year, i.e., permanent shut down of the EGU to occur
676			by no later than December 31, 2011.
677			
678		B)	If the owner or operator of the EGU is constructing a new EGU or
679			other generating units to specifically replace the existing EGU, for
680			up to 18 months, i.e., permanent shutdown of the EGU to occur by
681			no later than June 30, 2013; provided, however, that after
682			December 31, 2012, the existing EGU shall only operate as a back-
683			up unit to address periods when the new generating units are not in
684			service.
685			
686	b)	Notwithstand	ling Sections 225.230 and 225.232 of this Subpart, any EGU that is
687	,		to comply with Section 225.230 of this Subpart pursuant to this
688			not be included when determining whether any other EGUs at the
689		source or oth	er sources are in compliance with Section 225.230 of this Subpart.
690			•
691	c)	If an EGU, for	or which the owner or operator of the source has relied upon this
692	,	Section in lie	eu of complying with Section 225.230(a) of this Subpart, is not
693			shut down as required by this Section, the EGU shall be considered
694		to be a new I	EGU subject to the emission standards in Section 225.237(a) of this
695			nning in the month after the EGU was required to be permanently
696			addition to any other penalties that may be imposed for failure to
697			shut down the EGU in accordance with this Section.
698		1	
699	Section 225.2	237 Emission	Standards for New Sources with EGUs
700			
701	a)	Standards	
702	,		
703		1) The c	owner or operator of a source with one or more EGUs, but that
704			ously had not had any EGUs that commenced commercial operation
705			e January 1, 2009, shall comply with one of the following emission
706			ards for each EGU on a rolling 12-month basis:
707			
708		A)	An emission standard of 0.0080 lb mercury/GWh gross electrical
709		,	output; or
710			1 /
711		B)	A minimum 90 percent reduction of input mercury.
712		,	1
713		2) For th	nis purpose, compliance may be demonstrated using the equations in
714		,	on 225.230(a)(2), (a)(3), or (b)(2) of this Subpart.
715			
-			

The initial 12-month rolling period for which compliance with the emission b) standards of subsection (a)(1) of this Section must be demonstrated for a new EGU shall commence on the date that the initial performance test for the mercury emission standard under 40 CFR 60.45a also commences. The continuous emission monitoring systems required by this Subpart for mercury emissions from the EGU must be certified prior to this date. Thereafter, compliance shall be demonstrated on a rolling12-month basis in terms of calendar months. 

#### 

#### Section 225.240 General Monitoring and Reporting Requirements

The owner or operator of an EGU shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR 75. If the EGU utilizes a common stack with units that are not EGUs and the owner or operator of the EGU does not conduct emissions monitoring in the duct to the common stack from each EGU, the owner or operator of the EGU shall conduct emissions monitoring in accordance with 40 CFR 75.82(b)(2) and this Section, including monitoring in the duct to the common stack from each unit that is not an EGU, unless the owner or operator of the EGU counts the combined emissions measured at the common stack as the mass emissions of mercury for the EGUs for recordkeeping and compliance purposes.

a) Requirements for installation, certification, and data accounting. The owner or operator of each EGU shall:

Install all monitoring systems required under this Section and Sections 225.250 through 225.290 of this Subpart for monitoring mercury mass emissions (including all systems required to monitor mercury concentration, stack gas moisture content, stack gas flow rate, and CO<sub>2</sub> or O<sub>2</sub> concentration, as applicable, in accordance with 40 CFR 75.81 and 75.82).

2) Successfully complete all certification tests required under Section 225.250 and meet all other requirements of this Section, Sections 225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR 75 applicable to the monitoring systems required under subsection (a)(1) of this Section.

Record, report, and quality-assure the data from the monitoring systems required under subsection (a)(1) of this Section.

4) If the owner or operator elects to use the low mass emissions excepted monitoring methodology for an EGU that emits no more than 464 ounces (29 pounds) of mercury per year pursuant to 40 CFR 75.81(b), also perform emissions testing in accordance with 40 CFR 75.81(c) to demonstrate that the EGU is eligible to use this excepted emissions

monitoring methodology, as well as comply with all other applicable requirements of 40 CFR 75.81(b) through (f), and submit a copy of any information required to be submitted to the USEPA under these provisions to the Illinois EPA. The initial emissions testing to demonstrate eligibility of an EGU for the low mass emissions excepted methodology shall be conducted by the following dates:

- A) If the EGU has commenced commercial operation before July 1, 2008, at least by January 1, 2009, or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
- B) If the EGU has commenced commercial operation on or after July 1, 2008, at least 45 days prior to the applicable date specified under subsection (b)(2) of this Section or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
- b) Emissions Monitoring Deadlines. The owner or operator shall meet the emissions monitoring system certification and other emissions monitoring requirements of subsections (a)(1) and (a)(2) of this Section on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the emissions monitoring systems required under subsection (a)(1) of this Section on and after the following dates:
  - 1) For the owner or operator of an EGU that commences commercial operation before July 1, 2008, by January 1, 2009.
  - 2) For the owner or operator of an EGU that commences commercial operation on or after July 1, 2008, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the EGU commences commercial operation.
  - 3) For the owner or operator of an EGU for which construction of a new stack or flue or installation of add-on mercury emission controls, a flue gas desulfurization system, a selective catalytic reduction system, a fabric filter, or a compact hybrid particulate collector system is completed after the applicable deadline under subsection (b)(1) or (2) of this Section, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which emissions first exit to the atmosphere through the new stack or flue, add-on mercury emissions controls, flue gas desulfurization system, selective catalytic reduction system, fabric filter, or compact hybrid particulate collector system.

802 Reporting Data 803 c) 804 Except as provided in subsection (c)(2) of this Section, the owner or 805 1) operator of an EGU that does not meet the applicable emissions 806 monitoring date set forth in subsection (b) of this Section for any 807 emissions monitoring system required under subsection (a)(1) of this 808 Section shall, for each such monitoring system, determine, record, and 809 report maximum potential (or, as appropriate, minimum potential) values 810 for mercury concentration, stack gas flow rate, stack gas moisture content, 811 and any other parameters required to determine mercury mass emissions in 812 accordance with 40 CFR 75.80(g). 813 814 The owner or operator of an EGU that does not meet the applicable 2) 815 emissions monitoring date set forth in subsection (b)(3) of this Section for 816 any emissions monitoring system required under subsection (a)(1) of this 817 Section shall, for each such monitoring system, determine, record, and 818 report substitute data using the applicable missing data procedures in 40 819 CFR 75.80(f), in lieu of the maximum potential (or, as appropriate, 820 minimum potential) values for a parameter, if the owner or operator 821 demonstrates that there is continuity between the data streams for that 822 parameter before and after the construction or installation under 823 subsection (b)(3) of this Section. 824 825 **Prohibitions** 826 d) 827 828 1) No owner or operator of an EGU shall use any alternative emissions monitoring system, alternative reference method for measuring emissions, 829 or any other alternative to the emissions monitoring and measurement 830 requirements of this Section and Sections 225.250 through 225.290 of this 831 Subpart, unless such alternative is promulgated by the USEPA and 832 approved in writing by the Agency or the use of such alternative is 833 834 approved in writing by the Agency and USEPA. 835 No owner or operator of an EGU shall operate the EGU so as to discharge, 836 2) or allow to be discharged, mercury emissions to the atmosphere without 837 accounting for all such emissions in accordance with the applicable 838 provisions of this Section, Sections 225.250 through 225.290 of this 839 Subpart, and Subpart I of 40 CFR 75. 840 841 842 3) No owner or operator of an EGU shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission 843

monitoring method, and thereby avoid monitoring and recording mercury

845			emissions discharged into the atmosphere, except for periods of
846			ification or periods when calibration, quality assurance testing, or
847			enance is performed in accordance with the applicable provisions of
848			ection, Sections 225.250 through 225.290 of this Subpart, and
849		Subpa	art I of 40 CFR 75.
850			
851			vner or operator of an EGU shall retire or permanently discontinue
852			f the continuous emission monitoring system or any component
853		thereo	of, or any other approved monitoring system under this Subpart,
854		excep	t under any one of the following circumstances:
855		-	-
856		A)	The owner or operator is monitoring emissions from the EGU with
857		,	another certified monitoring system that has been approved, in
858			accordance with the applicable provisions of this Section, Sections
859			225.250 through 225.290 of this Subpart, and Subpart I of 40 CFR
860			75, by the Agency for use at that EGU and that provides emission
861			data for the same pollutant or parameter as the retired or
862			discontinued monitoring system; or
863			<u> </u>
864		B)	The owner or operator or designated representative submits
865		В)	notification of the date of certification testing of a replacement
866			monitoring system for the retired or discontinued monitoring
867			system in accordance with Section 225.250(a)(3)(A) of this
868			Subpart.
			Subpart.
869	-1	I tama. C	ald Ctamage
870	e)	Long-term Co	<u> </u>
871			operator of an EGU that is in long-term cold storage is subject to
872		* *	e provisions of 40 CFR 75 for monitoring, recordkeeping, and
873		reporting for	units in long-term cold storage.
874			
875		50 Initial Cei	rtification and Recertification Procedures for Emissions
876	Monitoring		
877			
878	a)		operator of an EGU shall comply with the following initial
879			and recertification procedures for a continuous emissions monitoring
880			a continuous emission monitoring system or an excepted monitoring
881			ent trap monitoring system) under 40 CFR 75.15) required by Section
882			). The owner or operator of an EGU that qualifies for, and for which
883		the owner or	operator elects to use, the low mass emissions excepted
884		methodology	under 40 CFR 75.81(b) shall comply with the procedures in
885			) of this Section.
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shall ensure that, for each continuous emissions monitoring system required by Section 225.240(a)(1) of this Subpart (including the automated data acquisition and handling system), the owner or operator successfully completes all of the initial certification testing required under 40 CFR 75.80(d) by the applicable deadline in Section 225.240(b) of this Subpart. In addition, whenever the owner or operator of an EGU installs a monitoring system to meet the requirements of this Subpart in a location where no such monitoring system was previously installed, the owner or operator must successfully complete the initial certification requirements of 40 CFR 75.80(d).

Requirements for Initial Certification. The owner or operator of an EGU

- 2) Requirements for Recertification. Whenever the owner or operator of an EGU makes a replacement, modification, or change in any certified continuous emission monitoring system, or an excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15, and required by Section 225.240(a)(1) of this Subpart, that may significantly affect the ability of the system to accurately measure or record mercury mass emissions or heat input rate or to meet the quality-assurance and qualitycontrol requirements of 40 CFR 75.21 or Appendix B to 40 CFR 75, the owner or operator of an EGU shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator of an EGU makes a replacement, modification, or change to the flue gas handling system or the EGU's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system, and each excepted monitoring system (sorbent trap monitoring system) under 40 CFR 75.15, whose accuracy is potentially affected by the change, all in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling
- Approval Process for Initial Certification and Recertification. Subsections (a)(3)(A) through (D) of this Section apply to both initial certification and recertification of a continuous monitoring system required by Section 225.240(a)(1) of this Subpart. For recertifications, replace the words "certification" and "initial certification" with the word "recertification", replace the word "certified" with the word "recertified", and follow the procedures in 40 CFR 75.20(b)(5) in lieu of the procedures in subsection (a)(3)(E) of this Section.

probe or site.

application is not complete, then the Agency will issue a

930 931 932 933 934	A)	Notification of Certification. The owner or operator shall submit to the Agency, USEPA Region 5, and the Administrator of the USEPA written notice of the dates of certification testing, in accordance with Section 225.270 of this Subpart.
935 936 937 938 939	B)	Certification Application. The owner or operator shall submit to the Agency a certification application for each monitoring system. A complete certification application shall include the information specified in 40 CFR 75.63.
940 941 942 943 944 945 946 947 948 949 950 951 952 953 954	C)	Provisional Certification Date. The provisional certification date for a monitoring system shall be determined in accordance with 40 CFR 75.20(a)(3). A provisionally certified monitoring system may be used under this Subpart for a period not to exceed 120 days after receipt by the Agency of the complete certification application for the monitoring system under subsection (a)(3)(B) of this Section. Data measured and recorded by the provisionally certified monitoring system, in accordance with the requirements of 40 CFR 75, will be considered valid quality-assured data (retroactive to the date and time of provisional certification), provided that the Agency does not invalidate the provisional certification by issuing a notice of disapproval within 120 days after the date of receipt by the Agency of the complete certification application.
955 956 957 958 959 960 961 962 963 964	D)	Certification Application Approval Process. The Agency will issue a written notice of approval or disapproval of the certification application to the owner or operator within 120 days after receipt of the complete certification application required by subsection (a)(3)(B) of this Section. In the event the Agency does not issue such a notice within the 120-day period, each monitoring system that meets the applicable performance requirements of 40 CFR 75 and is included in the certification application will be deemed certified for use under this Subpart.
965 966 967 968 969 970		i) Approval Notice. If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR 75, then the Agency will issue a written notice of approval of the certification application within 120 days after receipt.
971		ii) Incomplete Application Notice. If the certification

 written notice of incompleteness that sets a reasonable date by which the owner or operator must submit the additional information required to complete the certification application. If the owner or operator does not comply with the notice of incompleteness by the specified date, then the Agency may issue a notice of disapproval under subsection (a)(3)(D)(iii) of this Section. The 120-day review period shall not begin before receipt of a complete certification application.

- Disapproval Notice. If the certification application shows iii) that any monitoring system does not meet the performance requirements of 40 CFR 75 or if the certification application is incomplete and the requirement for disapproval under subsection (a)(3)(D)(ii) of this Section is met, then the Agency will issue a written notice of disapproval of the certification application. Upon issuance of such notice of disapproval, the provisional certification is invalidated by the Agency and the data measured and recorded by each uncertified monitoring system shall not be considered valid quality-assured data beginning with the date and hour of provisional certification (as defined under 40 CFR 75.20(a)(3)). The owner or operator shall follow the procedures for loss of certification in subsection (a)(3)(E) of this Section for each monitoring system that is disapproved for initial certification.
- iv) Audit Decertification. The Agency may issue a notice of disapproval of the certification status of a monitor in accordance with Section 225.260(b) of this Subpart.
- E) Procedures for Loss of Certification. If the Agency issues a notice of disapproval of a certification application under subsection (a)(3)(D)(iii) of this Section or a notice of disapproval of certification status under subsection (a)(3)(D)(iv) of this Section, then:
  - i) The owner or operator shall substitute the following values, for each disapproved monitoring system, for each hour of EGU operation during the period of invalid data specified under 40 CFR 75.20(a)(4)(iii) or 75.21(e) and continuing until the applicable date and hour specified under 40 CFR 75.20(a)(5)(i). For a disapproved mercury pollutant

1016			concentration monitor and disapproved flow monitor,
1017			respectively, the maximum potential concentration of
1018			mercury and the maximum potential flow rate, as defined in
1019			Sections 2.1.7.1 and 2.1.4.1 of Appendix A to 40 CFR 75.
1020			For a disapproved moisture monitoring system and
1021			disapproved diluent gas monitoring system, respectively,
1022			the minimum potential moisture percentage and either the
1023			maximum potential CO <sub>2</sub> concentration or the minimum
1024			potential O <sub>2</sub> concentration (as applicable), as defined in
1025			Sections 2.1.5, 2.1.3.1, and 2.1.3.2 of Appendix A to 40
1026			CFR 75. For a disapproved excepted monitoring system
1027			(sorbent trap monitoring system) under 40 CFR 75.15 and
1028			disapproved flow monitor, respectively, the maximum
1029			potential concentration of mercury and maximum potential
1030			flow rate, as defined in Sections 2.1.7.1 and 2.1.4.1 of
1031			Appendix A to 40 CFR 75.
1032			
1033		ii)	The owner or operator shall submit a notification of
1034		,	certification retest dates and a new certification application
1035			in accordance with subsections (a)(3)(A) and (B) of this
1036			Section.
1037			· · · · · · · · · · · · · · · · · · ·
1038		iii)	The owner or operator shall repeat all certification tests or
1039		***	other requirements that were failed by the monitoring
1040			system, as indicated in the Agency's notice of disapproval,
1041			no later than 30 unit operating days after the date of
1042			issuance of the notice of disapproval.
1043			issuance of the notice of disapproval.
1044	b)	Exemption	
1045	0)	Exemption	
1046		1) If an emis	sions monitoring system has been previously certified in
1047		*	e with 40 CFR 75 and the applicable quality assurance and
1048			ntrol requirements of 40 CFR 75.21 and Appendix B to 40 CFR
1049			y met, the monitoring system shall be exempt from the initial
1050			on requirements of this Section.
1050		certification	on requirements of this section.
1052		2) The recert	ification provisions of this Section shall apply to an emissions
1052		,	g system required by Section 225.240(a)(1) of this Subpart
1053			om initial certification requirements under subsection (a)(1) of
1055		this Section	- ' ' ' ' '
1056		uns secuo	711.
1050	0)	Initial acutification	n and reportification procedures for ECII
	c)		n and recertification procedures for EGUs using the mercury low
1058		mass emissions ex	scepted methodology under 40 CFR 75.81(b). The owner or

- operator of an EGU qualified to use the mercury low mass emissions excepted methodology under 40 CFR 75.81(b) shall meet the applicable certification and recertification requirements in 40 CFR 75.81(c) through (f).
  - d) Certification Applications. The owner or operator of an EGU shall submit an application to the Agency within 45 days after completing all initial certification or recertification tests required under this Section, including the information required under 40 CFR 75.63.

#### Section 225.260 Out of Control Periods for Emission Monitors

- a) Whenever any emissions monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR 75, data shall be substituted using the applicable missing data procedures in Subparts D and I of 40 CFR 75.
- b) Audit Decertification. Whenever both an audit of an emissions monitoring system and a review of the initial certification or recertification application reveal that any emissions monitoring system should not have been certified or recertified because it did not meet a particular performance specification or other requirement under Section 225.250 of this Subpart or the applicable provisions of 40 CFR 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the Agency will issue a notice of disapproval of the certification status of such monitoring system. For the purposes of this subsection, an audit shall be either a field audit or an audit of any information submitted to the Agency. By issuing the notice of disapproval, the Agency revokes prospectively the certification status of the emissions monitoring system. The data measured and recorded by the monitoring system shall not be considered valid quality-assured data from the date of issuance of the notification of the revoked certification status until the date and time that the owner or operator completes subsequently approved initial certification or recertification tests for the monitoring system. The owner or operator shall follow the applicable initial certification or recertification procedures in Section 225.250 of this Subpart for each disapproved monitoring system.

#### Section 225.261 Additional Requirements to Provide Heat Input Data

The owner or operator of an EGU that monitors and reports mercury mass emissions using a mercury concentration monitoring system and a flow monitoring system shall also monitor and report heat input rate at the EGU level using the procedures set forth in 40 CFR 75.

## Section 225.263 Monitoring of Gross Electrical Output

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The owner or operator of an EGU complying with this Subpart by means of Section 1102 225.230(a)(1) or using electrical output  $(O_i)$  and complying by means of Section 225.230(b) or 1103 (d) or Section 225.232 of this Subpart shall monitor gross electrical output of the associated 1104 1105 generator(s) in MWh on an hourly basis. 1106 1107 Section 225.265 Coal Analysis for Input Mercury Levels 1108 1109 The owner or operator of an EGU complying with this Subpart by means of a) Section 225.230(a)(2) or using input mercury levels (Ii) and complying by means 1110 of Section 225.230(b) or (d) or Section 225.232 of this Subpart shall: 1111 1112 Perform daily sampling of the coal combusted in the EGU for mercury 1113 1) content. The owner or operator of such EGU shall collect a minimum of 1114 1115 one 2-lb grab sample per day of operation from the belt feeders anywhere between the crusher house or breaker building and the boiler. The sample 1116 1117 shall be taken in such a manner so as to provide a representative mercury 1118 content for the coal burned on that day. 1119 1120 2) Analyze the grab coal sample for the following: 1121 A) 1122 Determine the heat content using ASTM D5865-04 or equivalent approved in writing by the Agency. 1123 1124 1125 B) Determine the moisture content using ASTM D3173-03 or equivalent approved in writing by the Agency. 1126 1127 1128 C) Measure the mercury content using ASTM D6414-01, ASTM 1129 D3684-01, or equivalent approved in writing by the Agency. 1130 1131 3) The owner or operator of multiple EGUs at the same source using the 1132 same crusher house or breaker building may take one sample per crusher 1133 house or breaker building, rather than one per EGU. 1134 1135 4) The owner or operator of an EGU shall use the data analyzed under subsection (b) of this Section to determine the mercury content in terms of 1136 1137 lbs/trillion Btu. 1138 The owner or operator of an EGU that must conduct sampling and analysis of coal 1139 b) 1140 pursuant to subsection (a) of this Section shall begin such activity by the 1141 following date: 1142 1143 1) If the EGU is in daily service, at least 30 days before the start of the month 1144 for which such activity will be required.

1145				
1146		2)	If the	EGU is not in daily service, on the day that the EGU resumes
1147			opera	ation.
1148				
1149	Section 225	.270 N	otificati	ons
1150				
1151 1152		•		source with one or more EGUs shall submit written notice to the ovisions in 40 CFR 75.61 for each EGU or group of EGUs monitored
1153				n non-EGU monitored under 40 CFR 75.82(b)(2)(ii).
1154 1155	Section 225	.290 R	ecordke	eeping and Reporting
1156	Section 223		ocor and	oping and reporting
1157	a)	Gene	ral Prov	visions
1158	,			
1159		1)	The c	owner or operator of an EGU and its designated representative shall
1160				bly with all applicable recordkeeping and reporting requirements in
1161			_	section and with all applicable recordkeeping and reporting
1162			requi	rements of 40 CFR 75.84.
1163			-	
1164		2)	The c	owner or operator of an EGU shall maintain records for each month
1165			identi	fying the emission standard in Section 225.230(a) or 225.237(a) of
1166			this S	ection with which it is complying or that is applicable for the EGU
1167				ne following records related to the emissions of mercury that the
1168			EGU	is allowed to emit:
1169				
1170			A)	For an EGU for which the owner or operator is complying with
1171				this Subpart by means of Section 225.230(a)(2) or
1172				225.237(a)(1)(B) or using input mercury levels to determine the
1173				allowable emissions of the EGU, records of the daily mercury
1174				content of coal used (lbs/trillion Btu) and the daily and monthly
1175				input mercury (lbs), which shall be kept in the file required under
1176				40 CFR 75.84(a).
1177				
1178			B)	For an EGU for which the owner or operator of an EGU complying
1179				with this Subpart by means of Section 225.230(a)(1) or
1180				225.237(a)(1)(A) or using electrical output to determine the
181				allowable emissions of the EGU, records of the daily and monthly
182				gross electrical output (GWh), which shall be kept in the file
183				required under 40 CFR 75.84(a).
184		2)	The -	symposis a superstant of an ECH shall assistate assistate as a Call of the
185		3)		wner or operator of an EGU shall maintain records of the following
186 187			ior ea	ch EGU:
10/				

1188			A)	Monthly emissions of mercury from the EGU.
1189				
1190			B)	For an EGU for which the owner or operator is complying by
1191				means of Section 225.230(b) or (d) of this Subpart, records of the
1192				monthly allowable emissions of mercury from the EGU.
1193				
1194		4)		owner or operator of an EGU that is participating in an Averaging
1195				onstration pursuant to Section 225.232 of this Subpart shall maintain
1196				ds identifying all sources and EGUs covered by the Demonstration
1197				ach month and, within 60 days after the end of each calendar month,
1198			calcu	late and record the actual and allowable mercury emissions of the
1199			EGU	for the month and the applicable 12-month rolling period.
1200				
1201		5)	The c	owner or operator of an EGU shall maintain the following records
1202			relate	ed to quality assurance activities conducted for emissions monitoring
1203			syste	ms:
1204				
1205			A)	The results of quarterly assessments conducted under Section 2.2
1206				of Appendix B of 40 CFR 75; and
1207				
1208			B)	Daily/weekly system integrity checks under Section 2.6 of
1209				Appendix B of 40 CFR 75.
1210				
1211		6)	The o	wher or operator of an EGU shall maintain an electronic copy of all
1212			electr	onic submittals to the USEPA under 40 CFR 75.84(f).
1213				
1214		7)	The o	wner or operator of an EGU shall retain all records required by this
1215				on at the source unless otherwise provided in the CAAPP permit
1216				for the source and shall make a copy of any record available to the
1217				cy upon request.
1218				
1219	b)	Quart	erly Rep	ports. The owner or operator of a source with one or more EGUs
1220		shall s	submit o	quarterly reports to the Agency as follows:
1221				
1222		1)	These	reports shall include the following information for operation of the
1223				during the quarter:
1224				
1225			A)	The total operating hours of each EGU and the mercury CEMS, as
1226				also reported in accordance with 40 CFR 75.
1227				
1228			B).	A discussion of any significant changes in the measures used to
1229			•	control emissions of mercury from the EGUs or the coal supply to
1230				the EGUs, including changes in the source of coal.
				, 5 - 1 - 10 - 1 - 10 - 1 - 10 - 10 - 10

1231					
1232			C)	Sumi	nary information on the performance of the mercury CEMS.
1233			. ,		n the mercury CEMS was not inoperative, repaired, or
1234					ted, except for routine zero and span checks, this shall be
1235				•	l in the report.
1236					
1237			D)	If the	CEMS downtime was more than 5.0 percent of the total
1238			_,		ating time for the EGU: the date and time identifying each
1239				-	d during which the CEMS was inoperative, except for routine
1240					and span checks; the nature of CEMS repairs or adjustments
1241					summary of quality assurance data consistent with 40 CFR
1242					e., the dates and results of the Linearity Test(s) and any
1243					ive Accuracy Test Audit(s) during the quarter; a listing of any
1244					when a required daily calibration was not performed; and the
1245				-	and duration of any periods when the CEMS was out-of-
1246					ol as addressed by Section 225.260 of this Subpart.
1247				COIIII	or as addressed by Section 223.200 or this Subpart.
1248		2)	The o	wner o	r operator shall submit each quarterly report to the Agency
1249		2)			ys following the end of the calendar quarter covered by the
1250			report	_	ys following the cha of the calcidar quarter covered by the
1251			report	٠.	
1252	c)	Comr	sliance (	Certific	ation. The owner or operator of a source with one or more
1253	C)				the Agency a compliance certification in support of each
1254					d on reasonable inquiry of those persons with primary
1255					suring that all of the EGUs' emissions are correctly and fully
1256					ification shall state:
1257		momi	oreu. 1	ne cert	incation shan state.
1257		1)	That t	ho mon	itaring data submitted were recorded in accordance with the
1250		1)			itoring data submitted were recorded in accordance with the
					quirements of this Section, Sections 225.240 through 225.270
1260					75, including the quality assurance procedures and
1261			specii	ications	s, and
1262		2)	E	ECH.	ish add
1263 1264		2)			with add-on mercury emission controls, a flue gas
					on system, a selective catalytic reduction system, or a
1265			-	-	rid particulate collector system and for all hours where
1266			mercu	iry data	are substituted in accordance with 40 CFR 75.34(a)(1):
1267			<b>A</b> N	aret .	
1268			A)	That:	
1269				• >	
1270				i)	The mercury add-on emission controls, flue gas
1271					desulfurization system, selective catalytic reduction system,
1272					or compact hybrid particulate collector system was
1 273					operating within the range of parameters listed in the

1274 1275					quality assurance/quality control program under Appendix B to 40 CFR 75; or
1275					B to 40 CIR 73, or
1277				ii)	With regard to a flue gas desulfurization system or a
1277				11)	selective catalytic reduction system, quality-assured SO <sub>2</sub>
					emission data recorded in accordance with 40 CFR 75
1279					document that the flue gas desulfurization system was
1280					operating properly, or quality-assured NO <sub>X</sub> emission data
1281					recorded in accordance with 40 CFR 75 document that the
1282 1283					selective catalytic reduction system was operating properly
1283					as applicable; and
1285					as applicable, and
1286			B)	The	substitute data values do not systematically underestimate
1287			D)		
1288				111616	ury emissions.
1289	d)	Anni	al Carti	ification	n of Compliance
1290	u)	Ainit	iai Ceru	meanoi	1 of Compilance
1290		1)	The	wner o	r operator of a source with one or more EGUs subject to this
1291		1)			I submit to the Agency an Annual Certification of Compliance
1292					opart no later than May 1 of each year and shall address
1293					for the previous calendar year. Such certification shall be
1294			_		the Agency, Air Compliance and Enforcement Section, and
1295					onal Field Office.
1290			ine A	in Regi	onal Field Office.
1297		2)	Δnn	ial Cert	ifications of Compliance shall indicate whether compliance
1299		2)			ach EGU for each month in the year covered by the
1300					and certification to that effect. In addition, for each EGU,
1301					operator shall provide the following:
1302			the o	WIICI OI	operator shan provide the following.
1302			A)	If cor	nplying with this Subpart by means of Section
1304			11)		230(a)(1)(A) or 225.237(a)(1)(A):
1305				had had I . ha	250(a)(1)(11) 01 225.257(a)(1)(11).
1306				i)	Actual emissions rate, in lb/GWh, for each 12-month
1307				1)	rolling period ending in the year covered by the
1307					Certification;
1309					Certification,
1310				ii)	Actual emissions, in lbs, and gross electrical output, in
1311				11)	GWh, for each 12-month rolling period ending in the year
1312					covered by the Certification; and
1312					covered by the continuation, and
1314				iii)	Actual emissions, in lbs, and gross electrical output, in
1315				1111	GWh, for each month in the year covered by the
1316					Certification and in the previous year.
1010					Continuation and in the previous year.

1317	<b>D</b> )	**	
1318	B)		emplying with this Subpart by means of Section
1319		225.	230(a)(1)(B) or 225.237(a)(1)(B):
1320		• .	
1321		i)	Actual control efficiency for emissions for each 12-month
1322			rolling period ending in the year covered by the
1323			Certification, expressed as a percent;
1324	*		
1325		ii)	Actual emissions, in lbs, and mercury content in the fuel
1326			fired in such EGU, in lbs, for each 12-month rolling period
1327			ending in the year covered by the Certification; and
1328			
1329		iii)	Actual emissions, in lbs, and mercury content in the fuel
1330			fired in such EGU, in lbs, for each month in the year
1331			covered by the Certification and in the previous year.
1332			•
1333	C)	If co	mplying with this Subpart by means of Section 225.230(b):
1334	•		
1335		i)	Actual emissions and allowable emissions for each 12-
1336		,	month rolling period ending in the year covered by the
1337			Certification; and
1338			, , , , , , , , , , , , , , , , , , ,
1339		ii)	Actual emissions and allowable emissions, and which
1340		/	standard of compliance the owner or operator was utilizing
1341			for each month in the year covered by the Certification and
1342			in the previous year.
1343			m me provious yeur.
1344	D)	If co	mplying with this Subpart by means of Section 225.230(d):
1345	2)	11 00	mplying with this suspent by mounts of section 223.230(d).
1346		i)	Actual emissions and allowable emissions for all EGUs at
1347		• •	the source for each 12-month rolling period ending in the
1348			year covered by the Certification; and
1349			year covered by the Contineation, and
1350		ii)	Actual emissions and allowable emissions, and which
1351		11)	standard of compliance the owner or operator was utilizing
1352			for each month in the year covered by the Certification and
1353			in the previous year.
1354			in the previous year.
1355	E)	Ifcor	mplying with this Subpart by mann of Section 225 222.
1356	E)	11 (01	mplying with this Subpart by means of Section 225.232:
1357		;)	Actual emissions and allowable amissions for all ECIT-
1358	-	i)	Actual emissions and allowable emissions for all EGUs at
1220			the source in an Averaging Demonstration for each 12-

1359				month rolling period ending in the year covered by the
1360				Certification; and
1361				
1362			ii)	Actual emissions and allowable emissions, with the
1363				standard of compliance the owner or operator was utilizing
1364				for each EGU at the source in an Averaging Demonstration
1365				for each month for all EGUs at the source in an Averaging
1366				Demonstration in the year covered by the Certification and
1367				in the previous year.
1368				•
1369			F) Any	deviations, data substitutions, or exceptions each month and
1370				ussion of the reasons for such deviations, data substitutions, or
1371				eptions.
1372				
1373		3)	All Annual	Certifications of Compliance required to be submitted shall
1374		,		following certification by a responsible official:
1375				
1376			I certify und	der penalty of law that this document and all attachments were
1377				ider my direction or supervision in accordance with a system
1378				assure that qualified personnel properly gather and evaluate
1379				tion submitted. Based on my inquiry of the person or persons
1380				consible for gathering the information, the information
1381			_	s, to the best of my knowledge and belief, true, accurate, and
1382				am aware that there are significant penalties for submitting
1383				nation, including the possibility of fine and imprisonment for
1384			knowing vio	
1385			C	
1386		4)	The owner of	or operator of an EGU shall submit its first Annual
1387		,		n of Compliance to address calendar year 2009 or the calendar
1388				ch the EGU commences commercial operation, whichever is
1389				ithstanding subsection (d)(2) of this Section, in the Annual
1390				ns of Compliance that are required to be submitted by May 1,
1391				ay 1, 2011 to address calendar years 2009 and 2010,
1392				the owner or operator is not required to provide 12-month
1393				for any period that ends before June 30, 2010.
1394				, p
1395	e)	Devia	tion Reports.	For each EGU, the owner or operator shall promptly notify
1396	-,			ations from requirements of this Subpart. At a minimum, these
1397				nclude a description of such deviations within 30 days after
1398				viations, and a discussion of the possible cause of such
1399		deviat	tions, any corr	rective actions, and any preventative measures taken.
1400			,,	The second and any proventative ineasures taken.

1401	f)	Quality Assurance RATA Reports. The owner or operator of an EGU shall
1402		submit to the Agency, Air Compliance and Enforcement Section, the quality
1403		assurance RATA report for each EGU or group of EGUs monitored at a common
1404		stack and each non-EGU under 40 CFR 75.82(b)(2)(ii) within 45 days after
1405		completing a quality assurance RATA.
1406		
1407	Section 225.2	295 Treatment of Mercury Allowances
1408		
1409	Any mercury	allowances allocated to the Agency by the USEPA shall be treated as follows:
1410		
1411	a)	No such allowances shall be allocated to any owner or operator of an EGU or
1412		other sources of mercury emissions into the atmosphere or discharges into the
1413		waters of the State.
1414		
1415	b)	The Agency shall hold all allowances allocated by the USEPA to the State. At the
1416		end of each calendar year, the Agency shall instruct the USEPA to retire
1417		permanently all such allowances.