

567—25.3 (455B) Mercury emissions testing and monitoring. Any stationary, coal-fired boiler or stationary, coal-fired combustion turbine serving, at any time since the later of November 15, 1990, or the start-up of the unit's combustion chamber, a generator with a nameplate capacity of more than 25 megawatt electrical (MWe) producing electricity for sale is an affected source under the provisions of this rule.

25.3(1) Testing frequency and methods. The owner or operator of an affected source shall complete one stack test for mercury in each calendar quarter for four consecutive calendar quarters. Testing shall commence no later than the third calendar quarter in 2010 (July 1 – September 30). At such time as four consecutive quarterly stack tests are completed and the test results are approved in writing by the department, the owner or operator of an affected source shall complete one stack test for mercury in each subsequent calendar year. Stack testing to fulfill the requirements of this subrule shall meet the following conditions:

a. Stack testing shall be conducted according to U.S. EPA Method 29 or according to ASTM Method D6784-02 (Ontario Hydro Method) and shall quantify both vapor phase and particulate bound mercury. Each stack test shall consist of a minimum of three runs at the normal operating load while combusting coal, and the minimum time per run shall be two hours.

b. The owner or operator or the owner's authorized agent shall notify the department in writing not less than 30 days before each stack test. The notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held no later than 15 days before the scheduled test date. A testing protocol shall be submitted to the department no later than 15 days before the scheduled test date. A representative of the department shall be permitted to witness the tests. Within six weeks of the completion of the testing, the results of the tests shall be submitted in writing to the department in the form of a comprehensive test report.

25.3(2) Low mass emitter (LME). In lieu of complying with the requirements of 25.3(1), the owner or operator of an affected source may submit a written request to the department to be classified as a low mass emitter (LME) for mercury. To be eligible for LME classification by the department, the owner or operator shall meet the following conditions:

a. The owner or operator shall complete at least one stack test prior to July 1, 2010, according to U.S. EPA Method 29 or according to ASTM Method D6784-02 (Ontario Hydro Method) and shall quantify both vapor phase and particulate bound mercury. Each stack test shall consist of a minimum of three runs at the normal operating load while combusting coal, and the minimum time per run shall be two hours.

b. The owner or operator or the owner's authorized agent shall notify the department in writing not less than 30 days before each stack test. The notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held no later than 15 days before the scheduled test date. A testing protocol shall be submitted to the department no later than 15 days before the scheduled test date. A representative of the department shall be permitted to witness the tests. Within six weeks of the completion of the testing, the results of the tests shall be submitted in writing to the department in the form of a comprehensive test report.

c. Using the highest mercury concentration measured from any of the stack test runs, the owner or operator shall submit documentation to the department sufficient to demonstrate that the potential annual mercury emissions from the affected source are less than or equal to 29 pounds (464 ounces) per year.

d. Upon written notification of LME classification by the department, the owner or operator of an affected source shall be exempt from the requirements of 25.3(1).

e. If at any time the potential annual mercury emissions from the affected source exceed 29 pounds per year, it shall be the responsibility of the owner or operator of the affected source to notify the department in writing within 30 days.

25.3(3) *Continuous emission monitoring systems (CEMS)*. In lieu of complying with the requirements of 25.3(1), the owner or operator of an affected source may submit a request to the department to record mercury emissions data using a continuous emission monitoring system (CEMS). To be eligible for department approval to use CEMS, the owner or operator shall meet the following conditions:

a. The owner or operator shall complete at least one stack test concurrently with operating and recording data from the CEMS prior to September 30, 2010, and thereafter on an annual basis, to demonstrate that the CEMS are providing accurate emissions data, as follows:

(1) The stack test conducted concurrently with the CEMS shall be conducted according to U.S. EPA Method 29 or according to ASTM Method D6784-02 (Ontario Hydro Method) and shall quantify both vapor phase and particulate bound mercury. Each stack test shall consist of a minimum of three runs at the normal operating load while combusting coal, and the minimum time per run shall be two hours.

(2) While conducting the concurrent stack test, the owner and operator shall perform a relative accuracy test audit (RATA) and other CEMS certification procedures according to an approved EPA performance protocol. If an approved EPA performance protocol is not available, the owner or operator may submit an alternative CEMS certification protocol in writing to the department for approval. Department approval must be received before the owner or operator conducts the CEMS certification.

b. The owner or operator or the owner's authorized agent shall notify the department in writing not less than 30 days before each stack test conducted concurrently with CEMS. The notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held no later than 15 days before the scheduled test date. Protocols for the stack testing and for the concurrent CEMS operation and data collection shall be submitted to the department no later than 15 days before the scheduled test date. A representative of the department shall be permitted to witness the tests. Results of the tests and CEMS certification shall be submitted in writing to the department in the form of a comprehensive test and CEMS certification report within six weeks of the completion of the testing.

c. The owner or operator of an affected source shall comply with the provisions of 25.3(1) until such time as the department approves use of CEMS.

d. Upon receiving department approval for CEMS use, the owner or operator of an affected source shall operate and record CEMS data, including calibrating each individual CEMS for zero and span on a daily basis, and shall provide all CEMS data to the department upon written request. CEMS certification shall be completed on an annual basis according to the procedures specified in paragraph 25.3(3)"a."

25.3(4) *EPA-required stack testing for mercury*. If the owner or operator of an affected source is required by EPA to complete stack testing for mercury, the owner or operator may submit a written request to the department that the EPA-required stack test be allowed to fulfill all or part of the testing requirements specified in 25.3(1). The department shall consider each such request on a case-by-case basis.

25.3(5) *Affected sources subject to Section 112(g)*. The owner or operator of an affected source subject to the requirements of Clean Air Act Section 112(g) shall comply with the requirements contained in permits issued by the department under 567—Chapters 22 and 33.