

Question 1.4

Topic: PEMS

Question: Are Predictive Emissions Monitoring Systems (PEMS) allowed under Part 75?

Answer: Yes. In 2003–2004, the Agency conducted PEMS background work and field testing to determine whether the use of PEMS should be allowed for particular source categories under the Acid Rain Program or Subpart H. The scope of the work was limited to evaluation of NO_x PEMS at gasfired turbines and boilers. The study results indicated that PEMS can be an effective alternative monitoring system for NO_x emissions for certain gas-fired and possibly oil-fired sources when proper QA/QC is implemented.

Sources may petition EPA to use a PEMS as an alternative monitoring system, in accordance with § 75.66 and Subpart E of Part 75. To date, EPA has approved several NO_x PEMS petitions for gas- or oil-fired turbines and gas-fired boilers. PEMS approved under 40 CFR 60 Appendix B, Performance Specification 16 must still be approved by petition for use under Part 75.

References: § 75.66 and Subpart E of Part 75

History: First published in the October 2003 Revised Manual; revised in 2013 Manual