

Method 203

Quality Assurance/Quality Control
Requirements for Continuous Opacity
Monitoring Systems (COMS)



Background/History

- Proposed in October, 1992
 - Addition to 40 CFR Part 51, Appendix M
- Specified quality assurance requirements/procedures
 - After initial demonstration of compliance with PS-1



Background/History, cont'd

- Minimum quality control (QC) and quality assurance (QA)
 - Assess and assure the quality of COMS performance



Requirements

- Daily checks
 - Zero and span (upscale)

Requirements, cont'd

- Quarterly performance checks
 - Optical alignment
 - Optical surface dust accumulation
 - Zero and upscale response
 - Zero compensation
 - Stack exit correlation error
 - Calibration error



Requirements, cont'd

- Annual checks
 - Zero alignment



Monitor Acceptance Criteria

- Out-of-control periods
 - Daily checks
 - Quarterly performance audits
 - Annual checks
- Data capture
 - 95 percent valid data capture



Recent Activities

- Reopened comment period
 - March 2001
- Established Stakeholders Workgroup
 - Monthly conference calls
 - Re-write and re-propose Method 203



Revised Method 203

- Requirements

- Eliminate optical surface dust accumulation, stack exit correlation error, zero and upscale response

- Optical alignment

- Checked when stack temperature is +/- 20 percent of typical operating temperature

- Zero alignment

- Required to be done off stack every 3 years



Revised Method 203, cont'd

- Monitor acceptance criteria
 - Out-of-control periods (Calibration Drift)
 - The beginning of the period corresponds to the completion of the daily calibration drift check
 - Out-of-control periods (Quarterly Performance Audits and Annual Checks)
 - No change



Revised Method 203, cont'd

- Data Capture
 - 95 percent of the source's operating hours per quarter
 - Allow the use of substitute monitors
 - Previously certified to meet PS-1
 - Perform calibration error check
 - Check calibration drift on a daily basis



Revised Method 203, cont'd

- Corrective action procedures
 - Describes corrective action required to return an opacity monitor to normal operation
 - Specifies four classes of maintenance and repair procedures
 - Routine/preventative maintenance
 - Measurement non-critical repairs
 - Measurement critical repairs
 - Rebuilt or refurbished analyzers



Current Schedule

- Re-proposal package published in the Federal Register – December 2002
- Promulgation package published in the Federal Register – December 2003

