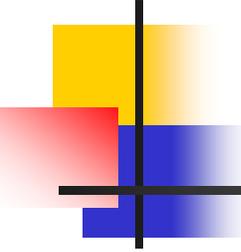


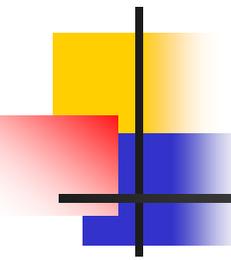
PM_{2.5} Speciation Sampler Performance Verification Form

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US EPA ORIA-Las Vegas
Before the
**25th Annual National Conference on Managing
Quality Systems**
April 26, 2006



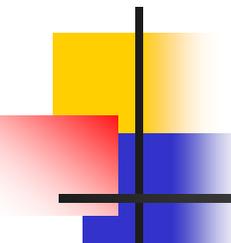
Overview

- What is the Purpose of the Performance Verification Form
- How did the Performance Verification Form evolve
- What will the form look like
- What are the potential gains derived by its use



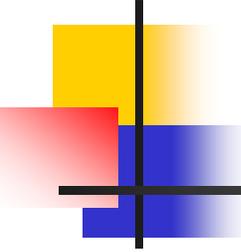
Purpose of the Performance Verification Form

- Provide Mechanism for Speciation Site Operators to report monthly parameter Checks
- Provide data in a consistent form to the Network Lab Service Contractor for entry into the EPA QA data base and flowrate data into AQS.

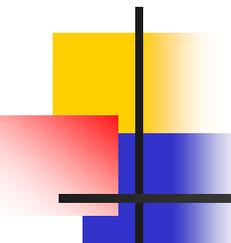


How did the Performance Verification Form Evolve?

- Shipping Study revealed age related operating anomalies
 - Pre-study Audits indicated equipment failures
 - Samplers required factory service
- Request for 12 Months of performance check data from all sites around the country
 - Flow, Ambient Temperature, Filter Temperature data, and Ambient Pressure
 - 20% response
 - Several instances of sampler failures were reported
 - Several agencies' data sets were incomplete with no reported reason
- A significant number of site audits indicate that parameter checks are not being performed (or recorded)



What will the form look like



What are the potential gains derived by its use?

- Gives us a measure of accuracy on a monthly basis, which legitimizes certification of speciation data reported in AQS
- Provides a mechanism for site operators to record monthly performance parameter measurements and a repository for future retrieval
- Encourages site operators to track sampler performance
- Gives network program managers the opportunity to evaluate the performance of the speciation samplers
- Gives EPA an opportunity to assess network performance and identify needs that can be addressed at the national level, e.g., operator training, maintenance programs
- Gives data analysts and modelers another tool to identify possible outliers and factors that affect uncertainty