



PM CPMS ALARM SETUP

Get it Right the First Time

PM Spiking for PM CPMS Alarm Setup
Take control of your PM CPMS Alarm

PM SPIKING

By Using B3 Systems' Patented Method

- Establish realistic response curves
- Easily change / set PM concentrations
- Be more efficient with on-site testing time to get the data points you really need.
- No defeating PM control devices or repairs afterwards
- No messing up the clean side of your PM control device
- Make PM compliance easier for the rest of the year
- We have a “**START**” and “**STOP**” button

Background



B3 Systems developed the method for spiking particulate matter (PM) for calibration PM CEMS in 2000 as a nature extension of our chemical spiking service, which began in 1992. The particulate spiking method was so unique that we were issued a patent (US Patent 6,694,796) in 2004. The PM CEMS market did not develop as many expected and our PM Spiking system was held in storage. In 2010 one brave company provided us with the opportunity to perform on our first full-scale field program. Since then we have continuously improved the field operation to become more efficient.



In 1992 there were questions whether chemical spiking was necessary or provided any value to a compliance testing program. Now it is the accepted method of meeting the rigorous demands of a Comprehensive Compliance Test (CPT) or Trial Burn. Although it is in a different area, PM Spiking provides the same benefits to PM CEMS for their initial calibration and RCA testing.

With the development of PM CPMS devices by EPA across different industry segments, our PM spiking service is now being used by companies to help them establish their PM CPMS alarm limits. PM CPMS devices do not have the same requirements as a PM CEMS, but they benefits of using PM spiking as still apparent. As the last line on the first page says, we have a **START** and a **STOP** button.

Benefits

PM Spiking provides the following benefits to facilities:

Don't waste time waiting on-site – With PM Spiking, changing the PM concentration in the stack is as easy as changing a set-point. It also allows the plant to just maintain steady operating conditions and not have to adjust rates of air pollution control system (APCS) for testing. This means no wasted time on-site for changing or setting the testing conditions.

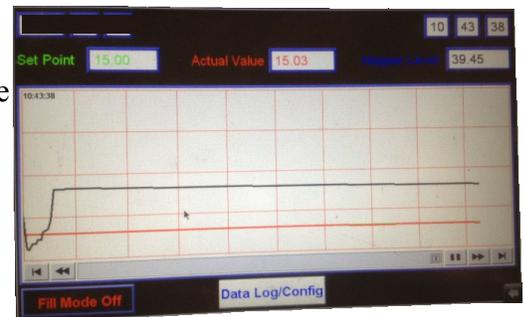
No post testing work required – With PM Spiking, when we hit the “STOP” button, your plant returns to normal operation. There is no post work required to make adjustments or repair the APCS.

Reduce compliance issues – PM Spiking helps insure that your PM CPMS response curve is more realistic and/or provides you maximum alarm values without the trial & error method.

Meeting the Data Requirements of PS11 – PM Spiking allows small changes in the spiking rates to easily meet the data requirements for low, mid and high concentration.

Repeatability – PM Spiking provides a high degree of repeatability during the initial calibration curve. This repeatability is especially important during RCA testing, but the unexpected benefit of having a very repeatable and controlled source of PM is the additional quality assurance (QA) it brings to each testing program. Although the background PM fluctuates, the PM Spiking source is constant and steady.

Experience – B3 Systems has experience handling a wide variety of materials. Our experience will save you time and frustration.



About B3 Systems

B3 Systems has been as been an innovative leader in environmental services, process control and information management since 1991. The company provides specialized equipment and services for regulatory, environmental, and process control applications.

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